

c v n CURRÍCULUM VITAE NORMALIZADO



Jordi Arbiol Cobos

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Graduated in Physics at Universitat de Barcelona (UB) in 1997, where he also obtained his PhD (European Doctorate and PhD Extraordinary Award) in 2001 in the field of transmission electron microscopy (TEM) applied to nanostructured materials. He also worked as Assistant Professor at UB, focusing on the study of nanomaterials by means of (S)TEM advanced methodologies. In 2009 he was appointed as ICREA Professor and holds this position since then. From 2009 to 2015 he was Group Leader at Institut de Ciència de Materials de Barcelona, ICMAB-CSIC and Scientific Supervisor of its electron microscopy facilities. He was the President of the Spanish Microscopy Society (SME) from 2017 to 2021, was Vice-President from 2013 to 2017 and since 2009 he was Member of its Executive Board. In 2018 he was elected as Member of the Executive Board of the International Federation of Societies for Microscopy (IFSM) (2019-2026). Since 2015 he is the leader of the Group of Advanced Electron Nanoscopy at Institut Català de Nanociència i Nanotecnologia (ICN2), CSIC and BIST. He is Scientific Supervisor of the Electron Microscopy Area at ICN2 and BIST, and also the Scientific Coordinator at the Joint Electron Microscopy Center at ALBA Synchrotron (JEMCA). He has been one of the founder members of e-DREAM. He received the FWO Commemorative Medal (Flanders Research Foundation) in 2021, the 2018 BIST IGNITE Award and was awarded with the EU40 Materials Prize 2014 (E-MRS), 2014 EMS Outstanding Paper Award and listed in the Top 40 under 40 Power List (2014) by The Analytical Scientist.

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

458 publications in ISI journals, including: **1 Nature**, **1 Science**, **3 Nature Mater.**, **1 Joule**, **5 Ener. & Env. Sci.**, **1 Nature Catal.**, **4 Adv. Mater.**, **6 Adv. Energy Mater.**, **1 Mat. Today**, **8 Appl. Catal. B: Environ.**, **2 Ener. Storage Mater.**, **15 Adv. Funct. Mater.**, **6 Nano Energy**, **5 Nature Commun.**, **1 Adv. Science**, **1 ACS Ener. Lett.**, **18 ACS Nano**, **3 ACS Catal.**, **1 Science Adv.**, **1 EES Catal.**, **27 Nano Lett.**, **9 JACS**, **1 Mat. Today Adv.**, **4 Angew. Chem. Int. Ed.**, **6 Small**, **6 Chem. Eng. J.**, **1 Small Structures**, **24 Chem. Mater.**, **2 Phys. Rev. Lett.**, **2 Nanoscale Horizons**, **17 J. Mater. Chem. A**, **1 Mater. Adv.**, **1 Commun. Mater.**, **1 Ener. Adv.**, **1 Appl. Materials Today**, **20 ACS Appl. Mater. Interfaces**, **2 Solar RRL**, **7 ChemSusChem**, **13 Nanoscale**, **2 Nano Research**, **4 Chem. Commun.**, **27 Sens. & Act. B**, **2 Phys. Rev. Mater.**, **2 ACS Photonics**, **2 J. Mat. Chem. C**, **4 J. Mat. Chem.**, **1 Nanophotonics**, **2 Scientific Reports**, **3 Bioconj. Chem.**, **1 Carbon**, **9 Cryst. Growth & Des.**, **6 J. Phys. Chem. C**, **6 CrystEngComm**, **2 RSC Adv.**, **2 Adv. Mater. Interfaces**, **7 Langmuir**, **22 Appl. Phys. Lett.**, **1 Acta Mater.**, **18 Phys. Rev. B**, **15 Nanotechnology**,...

h-index: **95 GoS** Citations > **29,060 GoS**

458 Publications (**271** (59%) **D1**; **409** (89%) **Q1**)

24 Journal Covers

1 Book, **1** Book as Editor, **2** Book Chapters (as main author).

1 Patent

143 Invited Presentations: 45 Plenary/Keynote and 52 Invited Lectures at International Congresses and **46 Invited or Plenary Seminars** at Universities and Research Institutions Worldwide.

32 Organized International Conferences (**23 Congress Organizer/Chair**, **9 Symposium Organizer**), **16 Member of Scientific Committee** at International Conferences.

Supervision: **16** Master Theses, **11** PhD Theses (+6 in Progress), **14** Post-Docs, **3** technicians

Referee for >50 International Journals, highlighting: **Nature**, **Science**, **Nature Materials**, **Joule**, **Nature Catalysis**, **Chem**, **Adv. Mater.**, **Adv. Energy Mater.**, **Appl. Catal. B**, **ACS Nano**, **Nano Lett.**, **Nature Commun.**, **Angew. Chem.**, **JACS**, **Adv. Funct. Mater.**, **Nano**



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CURRÍCULUM VITAE NORMALIZADO

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Energy, ACS Catalysis, Small, Chem. Mat., ChemComm, Carbon, Nanoscale, Adv. Optical Mater., Sci. Rep. NPG, APL, Ultramicrosc., etc.



Jordi Arbiol Cobos

Surname(s): **Arbiol Cobos**
 Name: **Jordi**
 ORCID: **0000-0002-0695-1726**
 ResearcherID: **B-6048-2008**
 Contact aut. region/reg.: **Catalonia**
 Personal web page: **<https://gaen.cat/>**

Current professional situation

Employing entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Department: Advanced Electron Nanoscopy, Institut Català de Nanociència i Nanotecnologia (ICN2), CSIC & BIST
Professional category: ICREA Professor & Group Leader
Start date: 02/03/2015
Primary (UNESCO code): 220304 - Electron microscopy
Identify key words: Nanomaterials

Employing entity: Institució Catalana de Recerca i Estudis Avancats **Type of entity:** Foundation
Professional category: ICREA Research Professor
Start date: 01/09/2009
Type of contract: Permanent employment contract
Primary (UNESCO code): 220304 - Electron microscopy
Secondary (UNESCO code): 221125 - Semiconductors
Tertiary (UNESCO code): 221105 - Crystal structure
Identify key words: Nanomaterials

Previous positions and activities

	Employing entity	Professional category	Start date
1	Instituto de Ciencia de los Materiales de Barcelona	ICREA Professor & Group Leader	01/09/2009
2	Universitat de Barcelona	Assistant Professor (Profesor Asociado (6P))	01/10/2001
3	Universitat de Barcelona	Técnico Superior de Soporte a la Investigación	05/12/2001
4	Universitat de Barcelona	Assistant Professor (Prof. Asociado 1er T (8P))	20/03/2001
5	Universitat de Barcelona	PhD Student (Becario de I+D (UB))	15/10/1997
6	LAAS-CNRS	ERASMUS Internship Student	08/07/1997



- 1** **Employing entity:** Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency
Professional category: ICREA Professor & Group Leader
Start-End date: 01/09/2009 - 01/03/2015
- 2** **Employing entity:** Universitat de Barcelona **Type of entity:** University
Professional category: Assistant Professor (Profesor Asociado (6P))
Start-End date: 01/10/2001 - 15/09/2009 **Duration:** 7 years - 11 months - 15 days
- 3** **Employing entity:** Universitat de Barcelona **Type of entity:** University
Professional category: Técnico Superior de Soporte a la Investigación
Start-End date: 05/12/2001 - 31/08/2009 **Duration:** 7 years - 8 months - 26 days
- 4** **Employing entity:** Universitat de Barcelona **Type of entity:** University
Professional category: Assistant Professor (Prof. Asociado 1er T (8P))
Start-End date: 20/03/2001 - 30/09/2001 **Duration:** 6 months - 10 days
- 5** **Employing entity:** Universitat de Barcelona **Type of entity:** University
Professional category: PhD Student (Becario de I+D (UB))
Start-End date: 15/10/1997 - 20/03/2001 **Duration:** 3 years - 5 months - 5 days
- 6** **Employing entity:** LAAS-CNRS **Type of entity:** R&D Centre
Professional category: ERASMUS Internship Student
Start-End date: 08/07/1997 - 30/09/1997 **Duration:** 3 months



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: BSc in Physics (Licenciado en Física)

Degree awarding entity: Universitat de Barcelona **Type of entity:** University

Date of qualification: 22/09/1997

Doctorates

Doctorate programme: PhD in Physics

Degree awarding entity: Universitat de Barcelona **Type of entity:** University

Date of degree: 19/07/2001

European doctorate: Yes

Date of certificate: 07/02/2003

Thesis title: Metal Additive Distribution in TiO₂ and SnO₂ Semiconductor Gas Sensor Nanostructured Materials

Obtained qualification: Unanimous Excellent Cum Laude and PhD Extraordinary Award

Recognition of quality: Yes

Special doctorate award: Yes

Date of award: 31/07/2003

Other postgraduate university studies

1 Postgraduate qualification: Certificat d'Aptitud Pedagògica (CAP)

Degree awarding entity: Universitat Politècnica de Catalunya **Type of entity:** University

Faculty, institute or centre: Instituto de Ciencias de la Educación

Date of qualification: 12/04/2000

2 Postgraduate qualification: First Certificate

Degree awarding entity: Cambridge University **Type of entity:** University

Date of qualification: 07/1993

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

Training title: EELS Imaging & Analysis

Awarding entity: GATAN, Inc.

End date: 05/2001

Type of entity: Business

Duration in hours: 40 hours



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B2	B2	B2	B2	B2
Catalan	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- Type of teaching:** International teaching
Name of the course: Advanced Techniques in Multidisciplinary Science Winter School
Type of programme: Master's degree **Type of teaching:** In person theory
University degree: Master of Multidisciplinary Research in Experimental Sciences
Start date: 12/12/2022 **End date:** 10/03/2023
Entity: Universidad Pompeu Fabra **Type of entity:** University
Faculty, institute or centre: Barcelona Institute of Science and Technology (BIST)
- Type of teaching:** International teaching
Name of the course: Advanced Techniques in Multidisciplinary Science Winter School
Type of programme: Master's degree **Type of teaching:** In person theory
University degree: Master of Multidisciplinary Research in Experimental Sciences
Start date: 16/12/2021 **End date:** 20/05/2022
Entity: Universidad Pompeu Fabra **Type of entity:** University
Faculty, institute or centre: Barcelona Institute of Science and Technology (BIST)
- Type of teaching:** International teaching
Name of the course: Advanced Techniques in Multidisciplinary Science Winter School
Type of programme: Master's degree **Type of teaching:** In person theory
University degree: Master of Multidisciplinary Research in Experimental Sciences
Start date: 14/12/2020 **End date:** 15/01/2021
Entity: Universidad Pompeu Fabra **Type of entity:** University
Faculty, institute or centre: Barcelona Institute of Science and Technology (BIST)
- Type of teaching:** International teaching
Name of the course: Advanced Techniques in Multidisciplinary Science Winter School
Type of programme: Master's degree **Type of teaching:** In person theory
University degree: Master of Multidisciplinary Research in Experimental Sciences
Start date: 16/12/2019 **End date:** 15/01/2020
Entity: Universidad Pompeu Fabra **Type of entity:** University
Faculty, institute or centre: Barcelona Institute of Science and Technology (BIST)
- Type of teaching:** International teaching
Name of the course: Advanced Techniques in Multidisciplinary Science Winter School
Type of programme: Master's degree **Type of teaching:** In person theory



University degree: Master of Multidisciplinary Research in Experimental Sciences

Start date: 29/01/2019

End date: 09/02/2019

Entity: Universidad Pompeu Fabra

Type of entity: University

Faculty, institute or centre: Barcelona Institute of Science and Technology (BIST)

6 Name of the course: Advanced Techniques in Multidisciplinary Science Winter School

Type of programme: Master's degree

Type of teaching: In person theory

University degree: Master of Multidisciplinary Research in Experimental Sciences

Start date: 11/12/2017

End date: 19/01/2018

Entity: Universidad Pompeu Fabra

Type of entity: University

Faculty, institute or centre: Barcelona Institute of Science and Technology (BIST)

7 Name of the course: Nanotechnology Innovation

Type of teaching: In person theory

University degree: Curso de Posgrado UTA-UAB

Start date: 29/05/2016

End date: 21/06/2016

Entity: University of Texas at Austin - Universitat Autònoma de Barcelona

Type of entity: University Department

Funding entity: University of Texas at Austin (UTA) - Universitat Autònoma de Barcelona (UAB)

Subject language: English

8 Name of the course: Nanotechnology Innovation

Type of teaching: In person theory

University degree: Curso de Posgrado UTA-UAB

Start date: 28/05/2015

End date: 20/06/2015

Entity: University of Texas at Austin - Universitat Autònoma de Barcelona

Type of entity: University Department

Funding entity: University of Texas at Austin (UTA) - Universitat Autònoma de Barcelona (UAB)

Subject language: English

9 Name of the course: Nanotechnology Innovation

Type of teaching: In person theory

University degree: Curso de Posgrado UTA-UAB

Start date: 27/05/2014

End date: 19/06/2014

Entity: University of Texas at Austin - Universitat Autònoma de Barcelona

Type of entity: University Department

Funding entity: University of Texas at Austin (UTA) - Universitat Autònoma de Barcelona (UAB)

Subject language: English

10 Name of the course: Eines Avançades de Microscòpia Electrònica

University degree: Màster en Nanociència i Nanotecnologia

Start date: 15/09/2006

End date: 14/09/2009

Entity: Universitat de Barcelona

Type of entity: University

Faculty, institute or centre: Facultat de Física

11 Name of the course: Tècniques de Microscopía

University degree: Màster en Nanociència i Nanotecnologia

Start date: 15/09/2006

End date: 14/09/2009

Entity: Universitat de Barcelona

Type of entity: University

Faculty, institute or centre: Facultat de Física



- 12** **Name of the course:** Electrònica Aplicada
University degree: Licenciado en Ciencias Físicas Especialidad Electrónica
Start date: 15/09/2000 **End date:** 14/09/2009
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Física
- 13** **Name of the course:** Física de Semiconductors
University degree: Licenciado en Ciencias Físicas Especialidad Electrónica
Start date: 15/09/1997 **End date:** 14/09/2009
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Física
- 14** **Name of the course:** Circuits Electrònics II
University degree: Ingeniería Electrónica
Start date: 15/09/2001 **End date:** 14/09/2007
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Física
- 15** **Name of the course:** Electrònica Física
University degree: Licenciado en Ciencias Físicas Especialidad Electrónica
Start date: 15/09/2001 **End date:** 14/09/2003
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Física
- 16** **Name of the course:** Laboratori de Dispositius Electrònics i Fotònics
University degree: Ingeniería Electrónica
Start date: 15/09/2001 **End date:** 14/09/2002
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Física
- 17** **Name of the course:** Física de Dispositius Electrònics i Optoelectrònics
University degree: Licenciado en Ciencias Físicas Especialidad Electrónica
Start date: 15/09/1998 **End date:** 14/09/2001
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Física
- 18** **Name of the course:** Electrònica Troncal
University degree: Licenciado en Ciencias Físicas Especialidad Electrónica
Start date: 15/09/1997 **End date:** 14/09/1998
Entity: Universitat de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Física

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Unveiling Nanocatalyst Stability: Investigation of Degradation Mechanisms and Structural Transformations at the Atomic Scale
Type of project: Master Thesis
Entity: Universidad Pompeu Fabra **Type of entity:** University
Student: David Llorens Rauret
Date of reading: 21/07/2023
- 2 Project title:** Rational Design of the Catalysts Microenvironment to Effectively Boost the Carbon Dioxide Electrochemical Reduction
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Xu Han
Obtained qualification: Excellent Cum Laude
Date of reading: 06/09/2022
European doctorate: Yes
Quality recognition: Yes
- 3 Project title:** Recognition of crystallographic phases in nanomaterials using machine learning and other mathematical algorithms
Type of project: Master Thesis
Entity: Universidad Pompeu Fabra **Type of entity:** University
Student: Ivan Pinto Huguet
Date of reading: 22/07/2022
- 4 Project title:** Selected Area Growth Semiconductor/Superconductor Hybrid Topologically Protected Nanowire-based Networks and Planar Heterostructures (e.g. 2DEGs and 2DHGs) (Master on Quantum Science and Technology)
Type of project: Master Thesis
Entity: Universitat de Barcelona **Type of entity:** University
Student: Richard Kienhofer
Date of reading: 18/07/2022
- 5 Project title:** Study of Sn crystal phase on hybrid In-based semiconductor nanowires for topological quantum computing. (Major in Nanoscience and Nanotechnology)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Judith Quiñones
Date of reading: 04/07/2022
- 6 Project title:** Alternative solar cell devices based on zinc phosphide (Zn₃P₂) an atomic scale overview. (Major in Nanoscience and Nanotechnology)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Clàudia Xifra
Date of reading: 01/07/2022



- 7** **Project title:** Carbon-Based Atomically Dispersed Transition Metal Atom Electrocatalysts
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Zhifu Liang
Obtained qualification: Excellent Cum Laude
Date of reading: 07/04/2022
European doctorate: No
Quality recognition: Yes
- 8** **Project title:** Zn-Based Metal-Organic Frameworks Derived Materials for High-Efficient Carbon Dioxide Electrochemical Reduction
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Ting Zhang
Obtained qualification: Excellent Cum Laude and PhD Extraordinary Award
Date of reading: 17/09/2021
European doctorate: No
Quality recognition: Yes
- 9** **Project title:** Advanced (S)TEM Characterization of Ge Quantum Wells for Quantum Computing Applications
Type of project: Master Thesis
Entity: Universidad Pompeu Fabra **Type of entity:** University
Student: Carla Nataly Borja Espinosa
Date of reading: 10/09/2021
- 10** **Project title:** Atomic scale understanding of next generation earth-abundant solar cell devices
Type of project: Master Thesis
Entity: Universidad Pompeu Fabra **Type of entity:** University
Student: Pol Torres Vila
Date of reading: 10/09/2021
- 11** **Project title:** Análisis y modelaje de ruido en imágenes STEM para entrenar modelos de deep learning. (Major in Mathematics)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Ivan Pinto Huguet
Date of reading: 09/09/2021
- 12** **Project title:** Fe₃O₄-CuS Hybrid nanoparticles for cancer treatments: a fine electron microscopy-based investigation
Type of project: Master Thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Ramón Lortzing
Date of reading: 09/09/2020
- 13** **Project title:** Study of hybrid crystal nanostructures for topological quantum computing
Type of project: Master Thesis
Entity: Universidad Pompeu Fabra **Type of entity:** University
Student: Christian Koch
Date of reading: 23/07/2020



- 14** **Project title:** Nanohilos híbridos para aplicaciones cuánticas a escala subnanométrica. (Major in Chemistry)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Ivan Pinto Huguet
Date of reading: 17/07/2020
- 15** **Project title:** Growth mechanisms and properties of semiconductor nanowires at the atomic scale: From VLS to SAG quantum networks
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Sara Martí Sánchez
Obtained qualification: Excellent Cum Laude and PhD Extraordinary Award
Date of reading: 17/07/2020
European doctorate: Yes
Quality recognition: Yes
- 16** **Project title:** Nanohilos híbridos para aplicaciones cuánticas a escala subnanométrica. (Major in Physics)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Ivan Pinto Huguet
Date of reading: 16/07/2020
- 17** **Project title:** Estudi de les propietats estructurals i composicionals a la nanoescala de materials per aplicacions en tecnologies quàntiques. (Major in Chemistry)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Christian Koch
Date of reading: 19/07/2019
- 18** **Project title:** Estudi de les propietats estructurals i composicionals a la nanoescala de materials per aplicacions en tecnologies quàntiques. (Major in Physics)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Christian Koch
Date of reading: 18/07/2019
- 19** **Project title:** Correlative atomistic and electronic characterization of strain-modulated ZnSe@ZnTe core-shell nanowires
Type of project: Master Thesis
Entity: Universidad Pompeu Fabra **Type of entity:** University
Student: Marc Botifoll Moral
Date of reading: 14/07/2019
- 20** **Project title:** Caracterització de nanopartícules de Ni₃-XCoXS_n2 per aplicacions en energia utilitzant tècniques avançades de microscòpia electrònica. (Double Major in Physics and Chemistry)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: María Francisca Infante Carrió
Date of reading: 27/07/2018



- 21** **Project title:** Characterization of Noble Metal-CeO₂ nanoparticles for catalytic applications using transmission electron microscopy (TEM) (Double Major in Physics and Chemistry)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Ana González Febles
Date of reading: 27/07/2018
- 22** **Project title:** Propietats Optoelectròniques d'Estructures Semiconductores Tipus Nanofilms Nucli-Capa (Major Degree in Nanoscience and Nanotechnology)
Type of project: End of course project
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Marc Botifoll
Date of reading: 13/07/2018
- 23** **Project title:** Semiconductor Composite Materials for Energy Storage and Conversion Applications
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: PengYi Tang
Obtained qualification: Excellent Cum Laude and PhD Extraordinary Award
Date of reading: 12/07/2018
European doctorate: Yes
Quality recognition: Yes
- 24** **Project title:** Physical properties of quantum structures at the sub-nanometric scale
Type of project: Master Thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Timm Swoboda
Date of reading: 10/07/2018
- 25** **Project title:** Characterization of nanoparticles using transmission electron microscopy (TEM) and 3D atomic models
Type of project: Master Thesis
Entity: Universitat de Barcelona **Type of entity:** University
Student: Déspina Nasiou
Date of reading: 14/09/2017
- 26** **Project title:** Atomic Scale Characterization of Semiconductor Non-Planar Nanostructures
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: María de la Mata Fernández
Obtained qualification: Excellent Cum Laude and Extraordinary PhD Award
Date of reading: 26/10/2015
European doctorate: Yes
Quality recognition: Yes
- 27** **Project title:** Plasmonic nanoengineering in hollow metal nanostructures: An Electron Energy-Loss Spectroscopy Study
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Aziz Genç
Obtained qualification: Excellent Cum Laude
Date of reading: 21/07/2015



European doctorate: Yes
Quality recognition: Yes

- 28** **Project title:** In-depth investigation of the origin, evolution and interaction of structural defects in YBCO nanocomposite thin films
Type of project: Doctoral thesis
Co-director of thesis: Jaume Gàzquez Alabart
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Roger Guzman Aluja
Obtained qualification: Excellent Cum Laude
Date of reading: 23/12/2013
Quality recognition: Yes
- 29** **Project title:** Structure Nanoengineering of Functional Nanomaterials: Advanced Electron Microscopy Study
Type of project: Doctoral thesis
Co-director of thesis: Joan Ramon Morante Lleonart
Entity: Universitat de Barcelona **Type of entity:** University
Student: Reza Zamani
Obtained qualification: Excellent Cum Laude and Extraordinary PhD Award
Date of reading: 04/11/2013
European doctorate: Yes
Quality recognition: Yes
- 30** **Project title:** Desarrollo de la Metodología de Preparación de Muestras Transversales de Nanohilos de ZnO sobre Substrato de Mica: Caracterización Estructural mediante Nanoscopia Electrónica
Type of project: Master Thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Francisco Javier Belarre Triviño
Date of reading: 19/09/2011
- 31** **Project title:** Structural, Chemical and Morphological Characterization of Self-Catalyzed ZnTe Nanorods on Mica Substrates by means of Transmission Electron Microscopy
Type of project: Master Thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: María de la Mata Fernández
Date of reading: 19/09/2011
- 32** **Project title:** Electron Microscopy Analysis of Semiconductor Nanowires Complex Structures: From Axial and Coaxial Quantum Wells to Local Stacking Transformations in Atomic Structure
Type of project: Doctoral thesis
Co-director of thesis: Francisca Peiró Martínez
Entity: Universitat de Barcelona **Type of entity:** University
Student: Sònia Conesa Boj
Obtained qualification: Excelente Cum Laude Por Unanimidad
Date of reading: 11/03/2011
European doctorate: Yes
Quality recognition: Yes
- 33** **Project title:** Nanostructure of Solution Derived YBa₂Cu₃O₇-Y₂O₃/LAO Composite Films by Transmission Electron Microscopy
Type of project: Master Thesis



Entity: Universitat Autònoma de Barcelona
Student: Roger Guzmán Aluja
Date of reading: 22/07/2010

Type of entity: University

34 Project title: Electron Energy Loss Spectroscopy Solutions for Nanoscale Materials Science Problems

Type of project: Doctoral thesis

Co-director of thesis: Francisca Peiró Martínez

Entity: Universitat de Barcelona

Type of entity: University

Student: Sònia Estradé Albiol

Obtained qualification: Excelente Cum Laude Por Unanimidad

Date of reading: 21/12/2009

European doctorate: Yes

Quality recognition: Yes

35 Project title: (S)TEM Tomography of Nanostructured Materials

Type of project: Master Thesis

Entity: Universitat de Barcelona

Type of entity: University

Student: José Manuel Rebled Corsellas

Date of reading: 18/09/2008

36 Project title: HRTEM assessment of Wurtzite and Zinc-Blende phases in GaAs nanowires for optoelectronic devices

Type of project: Master Thesis

Entity: Universitat de Barcelona

Type of entity: University

Student: Sònia Conesa Boj

Date of reading: 09/09/2008

37 Project title: Characterization by means of transmission electron microscopy techniques of ferromagnetic and biferroic materials for applications in nanodevices for spin manipulation

Type of project: Work leading to an ASD

Entity: Universitat de Barcelona

Type of entity: University

Student: Sònia Estradé Albiol

Date of reading: 20/07/2007

Participation in innovative teaching projects

1 Project title: Implementació de cursos d'Electrònica i Tècniques de Microscòpia en modalitat docent semipresencial amb estratègies de treball cooperatiu i avaluació continuada en entorn de programari lliure Moodle
Codi Projecte: 2007MQD00079

Type of participation: Others

Time of working relationship: For a limited time

Funding entity: Agència de Gestió d'Ajuts Universitaris i **Type of entity:** State agency de Recerca (AGAUR)

Start-End date: 2007 - 2009

Duration: 3 years

2 Project title: Anàlisi de l'impacte de la implementació de la metodologia docent semipresencial en l'assignatura d'Electrònica Física de l'ensenyament de Física. Codi Projecte: RE35081370

Type of participation: Others

Time of working relationship: For a limited time

Funding entity: Institut de Ciències de l'Educació- ICE **Type of entity:** State agency

**Start-End date:** 2004 - 2005**Duration:** 2 years

- 3** **Project title:** Disseny i optimització metodològica de sistemes telemàtics interactius per a la docència universitària
Type of participation: Others
Time of working relationship: For a limited time
Funding entity: Gabinet d'Avaluació i Innovació Universitària-GAIU
Start-End date: 1999 - 2001
- Type of entity:** State agency
Duration: 3 years

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** RIANA – Research Infrastructure Access in NANoscience & nanotechnology
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 100
Funding entity or bodies:
 EU HORIZON
Type of participation: Principal investigator
Name of the programme: EU HORIZON-INFRA-2023-SERV-01
Code according to the funding entity: 101130652
Start-End date: 01/10/2023 - 30/09/2027
Total amount: 14.496.952 € **Sub-project amount:** 162.050 €
- 2** **Name of the project:** IMPRESS – Interoperable electron Microscopy Platform for advanced RESearch and Services
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Regina Ciancio; Jordi Arbiol
Nº of researchers: 50
Funding entity or bodies:
 EU HORIZON
Type of participation: Principal investigator
Name of the programme: EU HORIZON-INFRA-2022-TECH-01-01
Code according to the funding entity: 101094299
Start-End date: 01/02/2023 - 31/01/2027
Total amount: 10.000.000 € **Sub-project amount:** 210.000 €
- 3** **Name of the project:** ICN2 “Severo Ochoa Centres of Excellence” Programme
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jose Antonio Garrido; Jordi Arbiol
Nº of researchers: 200
Type of participation: Garante
Name of the programme: Severo Ochoa Centres of Excellence
Code according to the funding entity: CEX2021-001214-S



Start-End date: 01/01/2023 - 31/12/2026
Total amount: 4.000.000 €

Duration: 4 years

- 4** **Name of the project:** HOLISTIC - HOP on SOLARUP Towards Lifetime Stability Assessment of Sustainable Photovoltaic Technologies
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 30
Funding entity or bodies:
EU HORIZON

Type of participation: Co-ordinator
Name of the programme: EU HORIZON-WIDERA-2022-ACCESS-07
Code according to the funding entity: 101119330
Start-End date: 01/10/2023 - 30/09/2026
Total amount: 479.250 €

Sub-project amount: 47.250 €

- 5** **Name of the project:** ReMade-at-ARI – Recyclable Materials Development at Analytical Research Infrastructures
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 10
Funding entity or bodies:
HORIZON EU

Type of participation: Principal investigator
Name of the programme: EU HORIZON-INFRA-2021-SERV-01
Code according to the funding entity: 101058414
Start-End date: 01/10/2022 - 30/09/2026
Total amount: 14.012.808 €

Duration: 4 years

Sub-project amount: 275.570 €

- 6** **Name of the project:** SOLARUP – Advanced Strategies for Development of Sustainable Semiconductors for Scalable Solar Cell Applications
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 20
Funding entity or bodies:
EU HORIZON

Type of participation: Co-ordinator
Name of the programme: HORIZON-EIC-2021-PATHFINDEROPEN-01
Code according to the funding entity: 101046297
Start-End date: 01/10/2022 - 30/09/2026
Total amount: 2.998.379 €

Sub-project amount: 770.375 €

- 7** **Name of the project:** Microscòpia Electrònica Avançada (MicEIA)
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 15
Funding entity or bodies:
Generalitat de Catalunya

Type of entity: Generalitat



Type of participation: Principal investigator
Start-End date: 01/01/2023 - 31/12/2025
Total amount: 60.000 €

- 8 Name of the project:** In-CAEM - In-situ Correlative Facility for Advanced Energy Materials
Degree of contribution: Scientific coordinator
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 30
Funding entity or bodies:
 Next Generation EU **Type of entity:** Public Research Body
 City funding entity: Belgium
 Ministerio de Ciencia e Innovación **Type of entity:** AEI
 Generalitat de Catalunya **Type of entity:** Generalitat
Type of participation: Co-ordinator
Name of the programme: Programa de I+D+I en el Marco de los Planes Complementarios con Cargo a Fondos del Plan de Recuperación, Transformación y Resiliencia
Code according to the funding entity: In-CAEM
Start-End date: 22/04/2022 - 30/09/2025
Total amount: 15.065.000 €

- 9 Name of the project:** (Foto-)Electrocatalisis: De la Escala Atómica a Dispositivos Avanzados (CAT&SCALE)
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Sara Barja; Jordi Arbiol
Nº of researchers: 8
Funding entity or bodies:
 Ministerio de Ciencia e Innovación. Investigación **Type of entity:** MCIN AEI
Type of participation: Principal investigator
Name of the programme: MINECO REDES DE INVESTIGACIÓN
Code according to the funding entity: RED2022-134508-T
Start-End date: 01/01/2023 - 31/12/2024 **Duration:** 2 years
Total amount: 15.000 €

- 10 Name of the project:** NANOGEN – Advanced electron nanoscopies applied to electrocatalysts investigation and improvement for the generation of sustainable fuel and high added value chemical products (NANOGEN)
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 8
Funding entity or bodies:
 Ministerio de Ciencia e Innovación **Type of entity:** AEI
Type of participation: Principal investigator
Name of the programme: RETOS
Code according to the funding entity: PID2020-116093RB-C43
Start-End date: 01/09/2021 - 31/08/2024
Total amount: 205.700 €



- 11 Name of the project:** QTEP - Quantum Fabrication Direct Electron Detector (EELS) + FIB Cryo Stage (WP13: Plataforma de microscopía para muestras cuánticas)
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 10
Type of participation: Principal investigator
Name of the programme: QTEP
Code according to the funding entity: 20219PT051 (Ref.: QTP2021-02-010)
Start-End date: 01/01/2022 - 31/12/2022 **Duration:** 1 year
Total amount: 8.906.992 € **Sub-project amount:** 850.000 €
- 12 Name of the project:** Microscopio Electrónico de Transmisión con Correctores de Aberraciones (METCAM-FIB)
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 10
Type of participation: Co-ordinator
Name of the programme: Generalitat de Catalunya – EU ERDF
Code according to the funding entity: IU16-014206 (TEM)
Start-End date: 30/09/2019 - 31/12/2022 **Duration:** 3 years - 3 months
Total amount: 4.098.000 €
- 13 Name of the project:** ICN2 “Severo Ochoa Centres of Excellence” Programme
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Pablo Ordejón PI; Jordi Arbiol WPL
Nº of researchers: 200
Type of participation: Working Package Leader
Name of the programme: Severo Ochoa Centres of Excellence
Code according to the funding entity: SEV-2017-0706
Start-End date: 01/07/2018 - 30/06/2022 **Duration:** 4 years
Total amount: 4.000.000 € **Sub-project amount:** 432.500 €
- 14 Name of the project:** (Foto-)Electrocatalisis: De la Escala Atómica a Dispositivos Avanzados (CAT&SCALE)
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Sara Barja; Jordi Arbiol
Nº of researchers: 8
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** MCIN AEI
Type of participation: Principal investigator
Name of the programme: MINECO REDES DE INVESTIGACIÓN
Code according to the funding entity: RED2018-102459-T
Start-End date: 01/01/2020 - 31/12/2021 **Duration:** 2 years
Total amount: 18.000 €
- 15 Name of the project:** Advanced electron NANoscopy for the improvement and development of new PHotoelectroCAtalytic routes towards high value products using Solar Energy (ANAPHASE)
Entity where project took place: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio de Ciencia e Innovación. Investigación
Name principal investigator (PI, Co-PI....): Jordi Arbiol



Nº of researchers: 10

Type of participation: Principal investigator

Name of the programme: RETOS

Code according to the funding entity: ENE2017-85087-C3-3-R

Start-End date: 01/01/2018 - 31/12/2020

Duration: 3 years

Total amount: 133.100 €

16 Name of the project: In-situ advanced characterization of heterogeneous water oxidation catalyst: Towards photocatalytic water splitting (InWOC2)

Entity where project took place: Barcelona Institute of Science and Technology (BIST)

City of entity: Spain

Name principal investigator (PI, Co-PI....): Jordi Arbiol

Nº of researchers: 4

Type of participation: Principal investigator

Name of the programme: Ignite Call

Code according to the funding entity: InWOC

Start-End date: 01/01/2018 - 31/12/2018

Duration: 1 year

Total amount: 40.000 €

17 Name of the project: In-situ atomic resolution transmission electron microscopy of heterogeneous water oxidation catalysts (InWOC)

Entity where project took place: Barcelona Institute of Science and Technology (BIST)

City of entity: Spain

Name principal investigator (PI, Co-PI....): Jordi Arbiol

Nº of researchers: 4

Type of participation: Principal investigator

Name of the programme: Ignite Call

Code according to the funding entity: InWOC

Start-End date: 01/04/2017 - 31/12/2017

Duration: 9 months

Total amount: 20.000 €

18 Name of the project: e-Nanoscopy and core-shell multilayers for Tandem devices and systems based on Nanostructures for solar energy Transformation in sun FUELS (e-TNT)

Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

Name principal investigator (PI, Co-PI....): Jordi Arbiol

Nº of researchers: 5

Funding entity or bodies:

MINECO

Type of entity: State agency

City funding entity: Spain

Type of participation: Principal investigator

Name of the programme: RETOS

Code according to the funding entity: MAT2014-59961-C2-2-R

Start-End date: 01/01/2015 - 31/12/2017

Duration: 3 years

Total amount: 84.700 €

19 Name of the project: European development of Superconducting Tapes: integrating novel materials and architectures into cost effective processes for power applications and magnets (EUROTAPES, FP7-NMP-2011-LARGE-5)

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Type of entity: State agency



Entity where project took place: Institut de Ciència de Materials de Barcelona, ICMAB-CSIC

Name principal investigator (PI, Co-PI....): Xavier Obradors Berenguer

Nº of researchers: 100

Funding entity or bodies:

Unión Europea

Type of entity: UE

Type of participation: Others

Name of the programme: FP7 NMP.2011.2.2-1 Novel superconducting materials, architectures and processes for electro-technical applications

Code according to the funding entity: FP7-NMP-2011-LARGE-5

Start-End date: 01/09/2012 - 30/03/2017

Total amount: 13.499.939 €

20 Name of the project: Materials per a l'electrònica i l'energia (M2E)

Type of project: Research and development, including transfer

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart

Nº of researchers: 14

Funding entity or bodies:

Generalitat de Catalunya

Type of entity: AGAUR

City funding entity: Barcelona, Catalonia, Spain

Type of participation: Others

Name of the programme: Grups de Recerca Generalitat

Code according to the funding entity: 2014 SGR 1638

Start-End date: 01/08/2014 - 31/12/2016

Total amount: 80.000 €

21 Name of the project: Single ATOM detection through Advanced Electron Nanoscopies (e-ATOM)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Instituto de Ciencia de los Materiales de Barcelona

Type of entity: State agency

Name principal investigator (PI, Co-PI....): Jordi Arbiol

Nº of researchers: 4

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación

Type of entity: MINECO

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Co-ordinator

Name of the programme: Proyectos Europa Excelencia 2014

Code according to the funding entity: MAT2014-51480-ERC

Start-End date: 01/10/2014 - 31/03/2016

Duration: 3 years

Total amount: 85.000 €

22 Name of the project: Ciencia de Materiales a Resolución sub-Angstrom (IMAGINE)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National



Degree of contribution: Researcher
Entity where project took place: Universidad Complutense de Madrid **Type of entity:** University
Name principal investigator (PI, Co-PI....): José M^a Gonzalez Calbet
Nº of researchers: 60
Funding entity or bodies: MICINN, Programa CONSOLIDER-INGENIO 2010 **Type of entity:** State agency
Type of participation: Others
Name of the programme: CONSOLIDER INGENIO
Code according to the funding entity: CSD2009-00013
Start-End date: 17/12/2009 - 16/12/2014
Total amount: 3.600.000 €

23 **Name of the project:** Direct and In-Situ Characterization of Surface Plasmons on Novel Complex Metal Nanostructures (DIPMeN)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Non EU International
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Institut de Ciència de Materials de Barcelona, ICMAB-CSIC **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Jordi Arbiol Cobos
Nº of researchers: 6
Funding entity or bodies: Massachusetts Institute of Technology (MIT, USA) **Type of entity:** Technological Centre
Type of participation: Co-ordinator
Name of the programme: MISTI Global Seed Fund General Fund
Code according to the funding entity: DIPMeN
Start-End date: 15/12/2012 - 31/08/2014
Total amount: 20.000 €

24 **Name of the project:** Integration of compound semiconductors and silicon in nanowires (InCoSiN, PRI-PIMERU-2011-1422)
Type of project: Research and development, including transfer
Degree of contribution: Scientific coordinator
Entity where project took place: Institut de Ciència de Materials de Barcelona, ICMAB-CSIC **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Jordi Arbiol Cobos
Nº of researchers: 20
Funding entity or bodies: Ministerio de Economía y Competitividad (MINECO) – EU ERANet RUS Program
Type of participation: Co-ordinator
Name of the programme: ERA.Net RUS
Code according to the funding entity: PRI-PIMERU-2011-1422
Start-End date: 01/09/2012 - 31/08/2014
Total amount: 30.000 €

25 **Name of the project:** Correlation of the Electronic and Optical Properties in Functional Nanowires through Advanced Electron Nanoscopy (COPEON)
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National



Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Institut de Ciència de Materials de Barcelona, ICMAB-CSIC
Type of entity: State agency
Name principal investigator (PI, Co-PI....): Jordi Arbiol Cobos
Nº of researchers: 3
Funding entity or bodies: Ministerio de Ciencia e Innovación (MICINN)
Type of participation: Co-ordinator
Name of the programme: Subprograma MAT
Code according to the funding entity: MAT2010-15138
Start-End date: 01/01/2011 - 30/06/2014
Total amount: 72.600 €

26 Name of the project: SYNthesis and NanoCharacterization of Advanced Metal Oxide Nanostructures (SYNCAMON, 2010IT0001)

Type of project: Basic research (including archaeological digs, etc) **Geographical area:** European Union

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Institut de Ciència de Materials de Barcelona, ICMAB-CSIC
Type of entity: State agency

Name principal investigator (PI, Co-PI....): Jordi Arbiol Cobos

Nº of researchers: 5

Funding entity or bodies:

Consejo Superior de Investigaciones Científicas, **Type of entity:** State agency
CSIC

Type of participation: Co-ordinator

Name of the programme: Proyecto Conjunto de Colaboración con el CNR de Italia

Code according to the funding entity: 2010IT0001

Start-End date: 01/01/2011 - 31/12/2012

Total amount: 8.000 €

27 Name of the project: Nanoscopias Electrónicas Avanzadas aplicadas a MAteriales Nanoestructurados (NEAMAN, 200960I199)

Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Institut de Ciència de Materials de Barcelona, ICMAB-CSIC
Type of entity: State agency

Name principal investigator (PI, Co-PI....): Jordi Arbiol Cobos

Nº of researchers: 2

Funding entity or bodies:

Consejo Superior de Investigaciones Científicas, **Type of entity:** State agency
CSIC

Type of participation: Co-ordinator

Name of the programme: PIE CSIC

Code according to the funding entity: 200960I199

Start-End date: 01/01/2010 - 31/12/2010

Total amount: 50.000 €



- 28** **Name of the project:** Nanowire arrays for multifunctional chemical sensors (NAWACS, NAN2006-28568-E)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart
Nº of researchers: 14
Funding entity or bodies: Unió Europea **Type of entity:** UE
Start-End date: 2007 - 2010
Total amount: 192.000 €
- 29** **Name of the project:** Sensores Avanzados basados en Nanoestructuras de oxidos metálicos (MAT2007-66741-C02-01)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras
Nº of researchers: 11
Funding entity or bodies: Ministerio de Educación y Ciencia **Type of entity:** State agency
Start-End date: 2007 - 2009
Total amount: 120.000 €
- 30** **Name of the project:** EME (Enginyeria i Materials Electrònics) (2005SGR00569)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart
Nº of researchers: 12
Funding entity or bodies: DURSI - Departament d'Universitats, Recerca i Societat de la Informació (Generalitat de Catalunya) **Type of entity:** State agency
Start-End date: 2005 - 2009
Total amount: 52.600 €
- 31** **Name of the project:** Nanodispositivos para la manipulación de spins (NAN2004-09094-C03-03)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Anna Maria Vila Arbones
Nº of researchers: 6
Funding entity or bodies: Ministerio de Educación y Ciencia **Type of entity:** State agency
Start-End date: 2005 - 2008
Total amount: 90.000 €
- 32** **Name of the project:** Síntesis de nanomateriales y estudio de su interacción con diferentes gases para su aplicación en dispositivos sensores (NAN2004-09380-C04-01)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Alejandro Perez Rodriguez
Nº of researchers: 19
Funding entity or bodies: Ministerio de Educación y Ciencia **Type of entity:** State agency



Start-End date: 2005 - 2008

Total amount: 70.000 €

33 Name of the project: Food safety and quality monitoring with microsystems (508774)

Entity where project took place: Universitat de Barcelona **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart

Nº of researchers: 13

Funding entity or bodies:

Unió Europea

Type of entity: UE

Start-End date: 2004 - 2007

Total amount: 301.000 €

34 Name of the project: Multicomponent oxides for flexible and transparent electronics (NMP3-CT-2006-032231)

Entity where project took place: Universitat de Barcelona **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart

Nº of researchers: 15

Funding entity or bodies:

Unió Europea

Type of entity: UE

Start-End date: 2004 - 2007

Total amount: 301.000 €

35 Name of the project: Nano-structured solid-state gas sensors with superior performances. Programa: EU 6th framework Integrated Projects (NANOS4, NMP4-CT-2003-001528)

Entity where project took place: Universitat de Barcelona **Type of entity:** University

Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart

Nº of researchers: 15

Funding entity or bodies:

Unió Europea

Type of entity: UE

Start-End date: 2004 - 2007

Total amount: 496.000 €

36 Name of the project: Fabricación y caracterización de láminas delgadas magnetoópticas de nanoestructuras metal/dieléctrico: implementación como moduladores en tecnología óptica integrada (MAT2002-04484-C03-02)

Entity where project took place: Universitat de Barcelona **Type of entity:** University

Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras

Nº of researchers: 6

Funding entity or bodies:

Comisión Interministerial de Ciencia y Tecnología (CICYT)

Start-End date: 2002 - 2005

Total amount: 99.000 €



- 37** **Name of the project:** Grup d'Enginyeria i Materials Electrònics (2001SGR00147)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart
Nº of researchers: 12
Funding entity or bodies:
DURSI - Departament d'Universitats, Recerca i Societat de la Informació (Generalitat de Catalunya) **Type of entity:** State agency
Start-End date: 2001 - 2005
Total amount: 45.075,91 €
- 38** **Name of the project:** Metal Oxide Nanocomposites: synthesis and characterization in relation with gas sensing phenomena (INTAS 00-0066)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart
Nº of researchers: 9
Funding entity or bodies:
Unión Europea **Type of entity:** UE
Start-End date: 2001 - 2004
Total amount: 7.500 €
- 39** **Name of the project:** PIN-EX ECOSENSOR (EUREKA 01)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart
Nº of researchers: 7
Funding entity or bodies:
Unión Europea **Type of entity:** UE
Start-End date: 2001 - 2004
Total amount: 1.352.277 €
- 40** **Name of the project:** Sensores de gases con selectividad mejorada para componentes de gas natural mediante capas zeolíticas, adsorbentes y filtros (MAT2000-0494-P4-03)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras
Nº of researchers: 5
Funding entity or bodies:
SEID - Secretaría de Estado de Educación, Universidades, Investigación y Desarrollo **Type of entity:** State agency
Start-End date: 2001 - 2004
Total amount: 121.164,04 €
- 41** **Name of the project:** Sondas cerámicas basadas en multicapas de óxidos metálicos con aditivos catalíticos para el control de gases exhaustos a altas temperaturas (MAT2000-0206-P4-03)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisca Peiro Martinez
Nº of researchers: 5

**Funding entity or bodies:**

SEID - Secretaría de Estado de Educación,
Universidades, Investigación y Desarrollo

Type of entity: State agency

Start-End date: 2001 - 2004

Total amount: 100.970,03 €

- 42 Name of the project:** Design of novel InO₂- and SnO₂-based sensors for CO combustion emission monitoring using innovating sensor technologies and methods of theoretical modelling (UNDERSTANDING, ICA2-CT-2000-10017)

Entity where project took place: Universitat de
Barcelona

Type of entity: University

Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras

Nº of researchers: 3

Funding entity or bodies:

Unió Europea

Type of entity: UE

Start-End date: 2000 - 2003

Total amount: 45.075,91 €

- 43 Name of the project:** Grup d'Enginyeria i Materials Electrònics (1999SGR00055)

Entity where project took place: Universitat de
Barcelona

Type of entity: University

Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonat

Nº of researchers: 16

Funding entity or bodies:

DURSI - Departament d'Universitats, Recerca i
Societat de la Informació (Generalitat de Catalunya)

Type of entity: State agency

Start-End date: 2000 - 2002

Total amount: 17.729,86 €

- 44 Name of the project:** Mecanismos asociados a aditivos catalíticos en sensores semiconductores de gases: sensores de bajo consumo (MAT99-0435-C02-01)

Entity where project took place: Universitat de
Barcelona

Type of entity: University

Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras

Nº of researchers: 5

Start-End date: 2000 - 2002

Total amount: 67.313,36 €

- 45 Name of the project:** VI^a Integrated Action of Scientific and Technical Cooperation between Spain and Greece (1997-1999) funded by the European Community (EC)

Entity where project took place: Universitat de
Barcelona

Type of entity: University

Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras

Nº of researchers: 8

Funding entity or bodies:

Comunidad Económica Europea

Type of entity: CEE

Start-End date: 1997 - 1999



- 46** **Name of the project:** Materiales y procesos para sensores de metano de bajo coste basados en el reconocimiento de patrones (MAT96-1030-C02-01)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras
Nº of researchers: 13
Funding entity or bodies: Comisión Interministerial de Ciencia y Tecnología (CICYT) **Type of entity:** State agency
Start-End date: 1996 - 1999
Total amount: 61.303,23 €
- 47** **Name of the project:** Estudio de la reorganización atómica en la intercaras de los semiconductores III-V (MAT95-0966)
Entity where project took place: Universitat de Barcelona
Name principal investigator (PI, Co-PI....): Alberto Cornet Calveras
Nº of researchers: 5
Funding entity or bodies: Comisión Interministerial de Ciencia y Tecnología (CICYT) **Type of entity:** State agency
Start-End date: 1995 - 1998
Total amount: 40.868,82 €
- 48** **Name of the project:** NANOGAS: Functional Nano-Scaled Materials for Long-term Stable Gas Sensors (BRITE EURAM II project, BRE2-CT94-0940)
Entity where project took place: Universitat de Barcelona **Type of entity:** University
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart
Nº of researchers: 6
Funding entity or bodies: Unión Europea **Type of entity:** Unión Europea
Start-End date: 1994 - 1998

R&D non-competitive contracts, agreements or projects with public or private entities

- 1** **Name of the project:** MCHQuNan – Materials characterization of Hybrid Quantum nanostructures (1)
Type of project: Research and development, including transfer **Entity where project took place:** FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 5
Funding entity or bodies: MICROSOFT **Type of entity:** Business
City funding entity: United States of America
Start date: 15/05/2022 **Duration:** 1 year
Total amount: 240.480 €



- 2** **Name of the project:** CHyMajor4 – Materials characterization of Hybrid semi-super Majorana nanowires (4)
Type of project: Research and development, including transfer
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 5
Funding entity or bodies: MICROSOFT
City funding entity: United States of America
Type of entity: Business
Start date: 01/03/2021
Duration: 1 year
Total amount: 210.278 €
- 3** **Name of the project:** ICN2-COMSA-LightNET Developing building materials that sucks air pollutants
Type of project: Research and development, including transfer
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Amador Pérez
Nº of researchers: 5
Funding entity or bodies: COMSA
City funding entity: Spain
Start date: 03/12/2020
Duration: 1 year - 2 months
Total amount: 15.000 €
- 4** **Name of the project:** METCAM – FIB - Microsoft
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 5
Funding entity or bodies: MICROSOFT
City funding entity: United States of America
Type of entity: Business
Start date: 01/05/2020
Duration: 1 year - 8 months
Total amount: 300.000 €
- 5** **Name of the project:** CHyMajor3 – Materials characterization of Hybrid semi-super Majorana nanowires (3)
Type of project: Research and development, including transfer
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 5
Funding entity or bodies: MICROSOFT
City funding entity: United States of America
Type of entity: Business
Start date: 01/07/2019
Duration: 1 year - 8 months



Total amount: 223.600 €

- 6** **Name of the project:** CHyMajor2 – Materials characterization of Hybrid semi-super Majorana nanowires (2)
Type of project: Research and development, including transfer
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 5
Funding entity or bodies: MICROSOFT
City funding entity: United States of America
Type of entity: Business
Start date: 01/07/2018
Duration: 1 year
Total amount: 171.000 €
- 7** **Name of the project:** CHyMajor – Materials characterization of Hybrid semi-super Majorana nanowires
Type of project: Research and development, including transfer
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Entity where project took place: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Name principal investigator (PI, Co-PI....): Jordi Arbiol
Nº of researchers: 5
Funding entity or bodies: MICROSOFT
City funding entity: United States of America
Type of entity: Business
Start date: 01/10/2016
Duration: 1 year - 9 months
Total amount: 143.000 €
- 8** **Name of the project:** "Control de test inicial i d'envelliment de contactes elèctrics per aplicacions a l'automòbil". Codi: 302570 (Gestionat per la Fundació Bosch i Gimpera, Universitat de Barcelona)
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisca Peiro Martinez
Nº of researchers: 3
Participating entity/entities: DPES-Delphi Packard España, S.L.; Universitat de Barcelona
Start date: 2003
Duration: 1 year
Total amount: 19.777,32 €
- 9** **Name of the project:** "Desenvolupament d'un Sensor de Gasos exhAust basat en tecnologia planar de ZrO₂" (Acrònim SEGA-Zr). Codi: FBG 380093 (Gestionat per la Fundació Bosch i Gimpera, Universitat de Barcelona)
Degree of contribution: Current university student
Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart
Nº of researchers: 6
Participating entity/entities: FRANCISCO ALBERO S.A. - F.A.E.; Universitat de Barcelona
Start date: 2000
Duration: 2 years
Total amount: 84.742 €
- 10** **Name of the project:** "Estudi de materials i productibilitat industrial d'un Sensor de Gasos exhAust basat en tecnologia planar de TiO₂" (Acrònim SEGA-Ti). Codi: FBG 380092 (Gestionat per la Fundació Bosch i Gimpera, Universitat de Barcelona)
Degree of contribution: Current university student



Name principal investigator (PI, Co-PI....): Albert Cornet Calveras

Nº of researchers: 8

Participating entity/entities: FRANCISCO ALBERO S.A. – F.A.E. (Espanya); Universitat de Barcelona

Start date: 1999

Duration: 2 years

11 Name of the project: "Sensors per a gasos exhausts". Codi: FBG 300637 (Gestionat per la Fundació Bosch i Gimpera, Universitat de Barcelona)

Degree of contribution: Current university student

Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart

Nº of researchers: 8

Participating entity/entities: FRANCISCO ALBERO S.A. – F.A.E. (Espanya); Universitat de Barcelona

Start date: 1999

Duration: 3 years

Total amount: 63.106 €

12 Name of the project: Investigación y Desarrollo de Detectores de Gases a Alta Temperatura Basados en Cerámicas Electrónicas para Aplicación en Automóviles. Codi: IB173 (DEGASAUTO)

Degree of contribution: Current university student

Name principal investigator (PI, Co-PI....): Joan Ramon Morante Lleonart

Nº of researchers: 8

Participating entity/entities: FRANCISCO ALBERO S.A. – F.A.E. (Espanya); TGM – Industria Electro Metalúrgica Ltda. (Brasil); Universitat de Barcelona

Start date: 1998

Duration: 3 years

Total amount: 50.931,39 €

Results

Industrial and intellectual property

Title registered industrial property: METHOD TO PHOTO-CAPTURE CO2 WITH PEROVSKITE OXIDE COMPOUNDS

Inventors/authors/obtainers: Amador Pérez; Carles Rubio; Guillaume Sauthier; Jeremy David; Pablo Vales; Jordi Arbiol; Jose Santiso; Gustau Catalán

Nº of application: EP 2019/47354; EP19383211.0; PCT/EP2020/088044; 2022/16534

Country of inscription: Spain, Catalonia



Scientific and technological activities

Scientific production

H index: 95

Date of application: 17/08/2023

Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** Han, Xu; Zhang, Ting; Biset-Peiro, Marti; Zhao, Siqi; Lopez, Sebastian Murcia; Daasbjerg, Kim; Morante, Joan Ramon; Li, Jian; Arbiol, Jordi. A MOF-Based Spatial-Separation Layer to Enable a Uniform Favorable Microenvironment for Electrochemical CO₂ Reduction. *SMALL STRUCTURES*. 4, pp. 2200388. 2023.
DOI: 10.1002/sstr.202200388
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 15.9
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
- 2** Genc, Aziz; Patarroyo, Javier; Sancho-Parramon, Jordi; Arenal, Raul; Bastus, Neus G.; Puntès, Víctor; Arbiol, Jordi. Asymmetrical Plasmon Distribution in Hybrid AuAg Hollow/Solid Coded Nanotubes. *NANOMATERIALS*. 13, pp. 992. 2023.
DOI: 10.3390/nano13060992
PMID: 36985887
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 5.3
Relevant publication: Yes
Category: PHYSICS, APPLIED
Journal in the top 25%: Yes
- 3** Huang, Chen; Yu, Jing; Li, Canhuang; Cui, Zhibiao; Zhang, Chaoqi; Zhang, Chaoyue; Nan, Bingfei; Li, Junshan; Arbiol, Jordi; Cabot, Andreu. Combined Defect and Heterojunction Engineering in ZnTe/CoTe₂@NC Sulfur Hosts Toward Robust Lithium-Sulfur Batteries. *ADVANCED FUNCTIONAL MATERIALS*. 2023. ISSN 1616-301X
DOI: 10.1002/adfm.202305624
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 19.0
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
- 4** Khan, Sabbir A.; Marti-Sanchez, Sara; Olsteins, Dags; Lampadaris, Charalampos; Carrad, Damon James; Liu, Yu; Quinones, Judith; Spadaro, Maria Chiara; Jespersen, Thomas Sand; Krogstrup, Peter; Arbiol, Jordi. Epitaxially Driven Phase Selectivity of Sn in Hybrid Quantum Nanowires. *ACS NANO*. 17, pp. 11794 - 11804. 2023. ISSN 1936-0851

DOI: 10.1021/acsnano.3c02733

PMID: 37317984

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 17.1

Journal in the top 25%: Yes

Relevant publication: Yes

- 5** Zhang, Ting; Liu, Hong; Han, Xu; Biset-Peiro, Marti; Yang, Yunhui; Imaz, Inhar; Maspoch, Daniel; Yang, Bo; Morante, Joan Ramon; Arbiol, Jordi. Improvement of carbon dioxide electroreduction by crystal surface modification of ZIF-8. DALTON TRANSACTIONS. 52, pp. 5234 - 5242. 2023. ISSN 1477-9226

DOI: 10.1039/d3dt00185g

PMID: 36974616

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - CHEMISTRY, INORGANIC & NUCLEAR

Impact index in year of publication: 4.0

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 1

Relevant publication: Yes

- 6** Yang, Linlin; He, Ren; Wang, Xiang; Yang, Tingting; Zhang, Ting; Zuo, Yong; Lu, Xuan; Liang, Zhifu; Li, Junshan; Arbiol, Jordi; Martinez-Alanis, Paulina R.; Qi, Xueqiang; Cabot, Andreu. Self-supported NiO/CuO electrodes to boost urea oxidation in direct urea fuel cells. NANO ENERGY. 115, pp. 108714. 2023. ISSN 2211-2855

DOI: 10.1016/j.nanoen.2023.108714

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 17.6

Journal in the top 25%: Yes

Relevant publication: Yes

- 7** Wang, Xiang; Li, Junshan; Xue, Qian; Han, Xu; Xing, Congcong; Liang, Zhifu; Guardia, Pablo; Zuo, Yong; Du, Ruifeng; Balcells, Lluís; Arbiol, Jordi; Llorca, Jordi; Qi, Xueqiang; Cabot, Andreu. Sulfate-Decorated Amorphous-Crystalline Cobalt-Iron Oxide Nanosheets to Enhance O-O Coupling in the Oxygen Evolution Reaction. ACS NANO. 17, pp. 825 - 836. 2023. ISSN 1936-0851

DOI: 10.1021/acsnano.2c12029

PMID: 36562698

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 17.1

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 14

Relevant publication: Yes

- 8** Xing, Congcong; Zhang, Yu; Xiao, Ke; Han, Xu; Liu, Yu; Nan, Bingfei; Ramon, Maria Garcia; Lim, Khak Ho; Li, Junshan; Arbiol, Jordi; Poudel, Bed; Nozariasbmarz, Amin; Li, Wenjie; Ibanez, Maria; Cabot, Andreu. Thermoelectric Performance of Surface-Engineered Cu_{1.5-x}Te-Cu₂Se Nanocomposites. ACS NANO. 17, pp. 8442 - 8452. 2023. ISSN 1936-0851

DOI: 10.1021/acsnano.3c00495

PMID: 37071412

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 17.1

Source of citations: WOS

Relevant publication: Yes

Category: MATERIALS SCIENCE,
MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 2

- 9** Wang, Xiang; Han, Xu; Du, Ruifeng; Liang, Zhifu; Zuo, Yong; Guardia, Pablo; Li, Junshan; Llorca, Jordi; Arbiol, Jordi; Zheng, Renji; Cabot, Andreu. Unveiling the role of counter-anions in amorphous transition metal-based oxygen evolution electrocatalysts. APPLIED CATALYSIS B-ENVIRONMENTAL. 320, pp. 121988. 2023. ISSN 0926-3373

DOI: 10.1016/j.apcatb.2022.121988

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 22.1

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - ENGINEERING,
CHEMICAL

Journal in the top 25%: Yes

Citations: 11

- 10** Li, Jian; Han, Xu; Wang, Dongmei; Zhu, Lei; Ha-Thi, Minh-Huong; Pino, Thomas; Arbiol, Jordi; Wu, Li-Zhu; Ghazzal, Mohamed Nawfal. A Deprotection-free Method for High-yield Synthesis of Graphdiyne Powder with In Situ Formed CuO Nanoparticles. ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. 61, pp. e202210242. 2022. ISSN 1433-7851

DOI: 10.1002/anie.202210242

PMID: 35985984

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 16.6

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - CHEMISTRY,
MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 14

- 11** Yang, Dawei; Liang, Zhifu; Tang, Pengyi; Zhang, Chaoqi; Tang, Mingxue; Li, Qizhen; Biendicho, Jordi Jacas; Li, Junshan; Heggen, Marc; Dunin-Borkowski, Rafal E.; Xu, Ming; Llorca, Jordi; Arbiol, Jordi; Morante, Joan Ramon; Chou, Shu-Lei; Cabot, Andreu. A High Conductivity 1D pi-d Conjugated Metal-Organic Framework with Efficient Polysulfide Trapping-Diffusion-Catalysis in Lithium-Sulfur Batteries. ADVANCED MATERIALS. 34, pp. 2108835. 2022. ISSN 0935-9648

DOI: 10.1002/adma.202108835

PMID: 35043500

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 29.4

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE,
MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 58



- 12** Liang, Zhifu; Zhang, Ting; Cao, Pengfei; Yoshida, Takefumi; Tang, Weiqiang; Wang, Xiang; Zuo, Yong; Tang, Pengyi; Heggen, Marc; Dunin-Borkowski, Rafal E.; Morante, Joan Ramon; Cabot, Andreu; Yamashita, Masahiro; Arbiol, Jordi. A novel pi-d conjugated cobalt tetraaza[14]annulene based atomically dispersed electrocatalyst for efficient CO₂ reduction. CHEMICAL ENGINEERING JOURNAL. 442, pp. 136129. 2022. ISSN 1385-8947
DOI: 10.1016/j.cej.2022.136129
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 15.1
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Journal in the top 25%: Yes
Citations: 9
- 13** He, Yongmin; Liu, Liren; Zhu, Chao; Guo, Shasha; Golani, Prafful; Koo, Bonhyeong; Tang, Pengyi; Zhao, Zhiqiang; Xu, Manzhang; Yu, Peng; Zhou, Xin; Gao, Caitian; Wang, Xuewen; Shi, Zude; Zheng, Lu; Yang, Jiefu; Shin, Byungha; Arbiol, Jordi; Duan, Huigao; Du, Yonghua; Heggen, Marc; Dunin-Borkowski, Rafal E.; Guo, Wanlin; Wang, Qi Jie; Zhang, Zhuhua; Liu, Zheng. Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. NATURE CATALYSIS. 5, pp. 212 - 221. 2022. ISSN 2520-1158
DOI: 10.1038/s41929-022-00753-y
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 37.8
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
Citations: 63
- 14** Liu, Yu; Calcabrini, Mariano; Yu, Yuan; Lee, Seungho; Chang, Cheng; David, Jeremy; Ghosh, Tanmoy; Chiara Spadaro, Maria; Xie, Chenyang; Cojocaru-Miredin, Oana; Arbiol, Jordi; Ibanez, Maria. Defect Engineering in Solution-Processed Polycrystalline SnSe Leads to High Thermoelectric Performance. ACS NANO. 16, pp. 78 - 88. 2022. ISSN 1936-0851
DOI: 10.1021/acsnano.1c06720
PMID: 34549956
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 17.1
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 43
- 15** Han, Xu; Zhang, Ting; Biset-Peiro, Marti; Zhang, Xuan; Li, Jian; Tang, Weiqiang; Tang, Pengyi; Morante, Joan Ramon; Arbiol, Jordi. Engineering the Interfacial Microenvironment via Surface Hydroxylation to Realize the Global Optimization of Electrochemical CO₂ Reduction. ACS APPLIED MATERIALS & INTERFACES. 14, pp. 32157 - 32165. 2022. ISSN 1944-8244
DOI: 10.1021/acsmi.2c09129
PMID: 35815662
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 9.5

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 4

Relevant publication: Yes

- 16** Li, Mengyao; Yang, Dawei; Jacas Biendicho, Jordi; Han, Xu; Zhang, Chaoqi; Liu, Kun; Diao, Jiefeng; Li, Junshan; Wang, Jing; Heggen, Marc; Dunin-Borkowski, Rafal E.; Wang, Jiaao; Henkelman, Graeme; Ramon Morante, Joan; Arbiol, Jordi; Chou, Shu-Lei; Cabot, Andreu. Enhanced Polysulfide Conversion with Highly Conductive and Electrocatalytic Iodine-Doped Bismuth Selenide Nanosheets in Lithium-Sulfur Batteries. *ADVANCED FUNCTIONAL MATERIALS*. 32, pp. 2200529. 2022. ISSN 1616-301X

DOI: 10.1002/adfm.202200529

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 19.0

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 36

Relevant publication: Yes

- 17** Botifoll, Marc; Pinto-Huguet, Ivan; Arbiol, Jordi. Machine learning in electron microscopy for advanced nanocharacterization: current developments, available tools and future outlook. *NANOSCALE HORIZONS*. 7, pp. 1427 - 1477. 2022. ISSN 2055-6756

DOI: 10.1039/d2nh00377e

PMID: 36239693

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 9.7

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 3

Relevant publication: Yes

- 18** Valentini, Marco; Borovkov, Maksim; Prada, Elsa; Marti-Sanchez, Sara; Botifoll, Marc; Hofmann, Andrea; Arbiol, Jordi; Aguado, Ramon; San-Jose, Pablo; Katsaros, Georgios. Majorana-like Coulomb spectroscopy in the absence of zero-bias peaks. *NATURE*. 612, pp. 442 - 447. 2022. ISSN 0028-0836

DOI: 10.1038/s41586-022-05382-w

PMID: 36517713

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Impact index in year of publication: 64.8

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 3

Relevant publication: Yes

- 19** Yang, Dawei; Li, Mengyao; Zheng, Xuejiao; Han, Xu; Zhang, Chaoqi; Jacas Biendicho, Jordi; Llorca, Jordi; Wang, Jiaao; Hao, Hongchang; Li, Junshan; Henkelman, Graeme; Arbiol, Jordi; Ramon Morante, Joan; Mitlin, David; Chou, Shulei; Cabot, Andreu. Phase Engineering of Defective Copper Selenide toward Robust Lithium-Sulfur Batteries. *ACS NANO*. 16, pp. 11102 - 11114. 2022. ISSN 1936-0851

DOI: 10.1021/acsnano.2c03788

PMID: 35758405



Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 17.1

Source of citations: WOS

Relevant publication: Yes

Category: MATERIALS SCIENCE,
MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 23

20 Zhang, Ting; Han, Xu; Liu, Hong; Biset-Peiro, Marti; Li, Jian; Zhang, Xuan; Tang, Pengyi; Yang, Bo; Zheng, Lirong; Morante, Joan Ramon; Arbiol, Jordi. Site-Specific Axial Oxygen Coordinated FeN₄ Active Sites for Highly Selective Electroreduction of Carbon Dioxide. *ADVANCED FUNCTIONAL MATERIALS*. 32, pp. 2111446. 2022. ISSN 1616-301X

DOI: 10.1002/adfm.202111446

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 19.0

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE,
MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 24

21 Marti-Sanchez, Sara; Botifoll, Marc; Oksenberg, Eitan; Koch, Christian; Borja, Carla; Spadaro, Maria Chiara; Di Giulio, Valerio; Ramasse, Quentin; Garcia de Abajo, F. Javier; Joselevich, Ernesto; Arbiol, Jordi. Sub-nanometer mapping of strain-induced band structure variations in planar nanowire core-shell heterostructures. *NATURE COMMUNICATIONS*. 13, pp. 4089. 2022.

DOI: 10.1038/s41467-022-31778-3

PMID: 35835772

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 16.6

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MULTIDISCIPLINARY
SCIENCES

Journal in the top 25%: Yes

Citations: 7

22 Yu, Jiahao; Garces-Pineda, Felipe A.; Gonzalez-Cobos, Jesus; Pena-Diaz, Marina; Rogero, Celia; Gimenez, Sixto; Chiara Spadaro, Maria; Arbiol, Jordi; Barja, Sara; Ramon Galan-Mascaros, Jose. Sustainable oxygen evolution electrocatalysis in aqueous 1 M H₂SO₄ with earth abundant nanostructured Co₃O₄. *NATURE COMMUNICATIONS*. 13, pp. 4341. 2022.

DOI: 10.1038/s41467-022-32024-6

PMID: 35896541

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 16.6

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MULTIDISCIPLINARY
SCIENCES

Journal in the top 25%: Yes

Citations: 20

- 23** Jirovec, Daniel; Hofmann, Andrea; Ballabio, Andrea; Mutter, Philipp M.; Tavani, Giulio; Botifoll, Marc; Crippa, Alessandro; Kukucka, Josip; Sagi, Oliver; Martins, Frederico; Saez-Mollejo, Jaime; Prieto, Ivan; Borovkov, Maksim; Arbiol, Jordi; Chrastina, Daniel; Isella, Giovanni; Katsaros, Georgios. A singlet-triplet hole spin qubit in planar Ge. *NATURE MATERIALS*. 20, pp. 1106 - 1112. 2021. ISSN 1476-1122
DOI: 10.1038/s41563-021-01022-2
PMID: 34083775
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 47.656
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 51
- 24** Liang, Zhifu; Yang, Dawei; Tang, Pengyi; Zhang, Chaoqi; Biendicho, Jordi Jacas; Zhang, Yi; Llorca, Jordi; Wang, Xiang; Li, Junshan; Heggen, Marc; David, Jeremy; Dunin-Borkowski, Rafal E.; Zhou, Yingtang; Morante, Joan Ramon; Cabot, Andreu; Arbiol, Jordi. Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries. *ADVANCED ENERGY MATERIALS*. 11, pp. 2003507. 2021. ISSN 1614-6832
DOI: 10.1002/aenm.202003507
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 29.698
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 76
- 25** Xie, Haibing; Wang, Zaiwei; Chen, Zehua; Pereyra, Carlos; Pols, Mike; Galkowski, Krzysztof; Anaya, Miguel; Fu, Shuai; Jia, Xiaoyu; Tang, Pengyi; Kubicki, Dominik Jozef; Agarwalla, Anand; Kim, Hui-Seon; Prochowicz, Daniel; Borrise, Xavier; Bonn, Mischa; Bao, Chunxiong; Sun, Xiaoxiao; Zakeeruddin, Shaik Mohammed; Emsley, Lyndon; Arbiol, Jordi; Gao, Feng; Fu, Fan; Wang, Hai, I; Tielrooij, Klaas-Jan; Stranks, Samuel D.; Tao, Shuxia; Graetzel, Michael; Hagfeldt, Anders; Lira-Cantu, Monica. Decoupling the effects of defects on efficiency and stability through phosphonates in stable halide perovskite solar cells. *JOULE*. 5, pp. 1246 - 1266. 2021. ISSN 2542-4351
DOI: 10.1016/j.joule.2021.04.003
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 46.048
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 66
- 26** Golovanova, Viktoria; Chiara Spadaro, Maria; Arbiol, Jordi; Golovanov, Viacheslav; Rantala, Tapio T.; Andreu, Teresa; Ramon Morante, Joan. Effects of solar irradiation on thermally driven CO₂ methanation using Ni/CeO₂-based catalyst. *APPLIED CATALYSIS B-ENVIRONMENTAL*. 291, pp. 120038. 2021. ISSN 0926-3373
DOI: 10.1016/j.apcatb.2021.120038
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 24.319
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - ENVIRONMENTAL SCIENCES
Journal in the top 25%: Yes
Citations: 17

Relevant publication: Yes

- 27** Liang, Zhifu; Jiang, Daochuan; Wang, Xiang; Shakouri, Mohsen; Zhang, Ting; Li, Zhongjun; Tang, Pengyi; Llorca, Jordi; Liu, Lijia; Yuan, Yupeng; Heggen, Marc; Dunin-Borkowski, Rafal E.; Morante, Joan R.; Cabot, Andreu; Arbiol, Jordi. Molecular Engineering to Tune the Ligand Environment of Atomically Dispersed Nickel for Efficient Alcohol Electrochemical Oxidation. *ADVANCED FUNCTIONAL MATERIALS*. 31, pp. 2106349. 2021. ISSN 1616-301X

DOI: 10.1002/adfm.202106349

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 19.924

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 14

Relevant publication: Yes

- 28** Yang, Dawei; Liang, Zhifu; Zhang, Chaoqi; Jacas Biendicho, Jordi; Botifoll, Marc; Chiara Spadaro, Maria; Chen, Qiulin; Li, Mengyao; Ramon, Alberto; Moghaddam, Ahmad Ostovari; Llorca, Jordi; Wang, Jiaao; Ramon Morante, Joan; Arbiol, Jordi; Chou, Shu-Lei; Cabot, Andreu. NbSe₂ Meets C₂N: A 2D-2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultra-Long-Life Lithium-Sulfur Batteries. *ADVANCED ENERGY MATERIALS*. 11, pp. 2101250. 2021. ISSN 1614-6832

DOI: 10.1002/aenm.202101250

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 29.698

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 63

Relevant publication: Yes

- 29** Zhang, Ting; Han, Xu; Liu, Hong; Biset-Peiro, Marti; Zhang, Xuan; Tan, Pingping; Tang, Pengyi; Yang, Bo; Zheng, Lirong; Morante, Joan Ramon; Arbiol, Jordi. Quasi-double-star nickel and iron active sites for high-efficiency carbon dioxide electroreduction. *ENERGY & ENVIRONMENTAL SCIENCE*. 14, pp. 4847 - 4857. 2021. ISSN 1754-5692

DOI: 10.1039/d1ee01592c

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - ENVIRONMENTAL SCIENCES

Impact index in year of publication: 39.714

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 25

Relevant publication: Yes

- 30** Chiara Spadaro, Maria; Steinvall, Simon Escobar; Dzade, Nelson Y.; Marti-Sanchez, Sara; Torres-Vila, Pol; Stutz, Elias Z.; Zamani, Mahdi; Paul, Rajrupa; Leran, Jean-Baptiste; Morral, Anna Fontcuberta, I; Arbiol, Jordi. Rotated domains in selective area epitaxy grown Zn₃P₂: formation mechanism and functionality. *NANOSCALE*. 13, pp. 18441 - 18450. 2021. ISSN 2040-3364

DOI: 10.1039/d1nr06190a

PMID: 34751695

Type of production: Scientific paper

Corresponding author: Yes



Impact source: ISI

Impact index in year of publication: 8.307

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: Yes

Citations: 3

- 31** Zhang, Chaoqi; Du, Ruifeng; Biendicho, Jordi Jacas; Yi, Mingjie; Xiao, Ke; Yang, Dawei; Zhang, Ting; Wang, Xiang; Arbiol, Jordi; Llorca, Jordi; Zhou, Yingtang; Morante, Joan Ramon; Cabot, Andreu. Tubular CoFeP@CN as a Mott-Schottky Catalyst with Multiple Adsorption Sites for Robust Lithium-Sulfur Batteries. *ADVANCED ENERGY MATERIALS*. 11, pp. 2100432. 2021. ISSN 1614-6832

DOI: 10.1002/aenm.202100432

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 29.698

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 99

- 32** Li, Jian; Slassi, Amine; Han, Xu; Cornil, David; Minh-Huong Ha-Thi; Pino, Thomas; Debecker, Damien P.; Colbeau-Justin, Christophe; Arbiol, Jordi; Cornil, Jerome; Ghazzal, Mohamed Nawfal. Tuning the Electronic Bandgap of Graphdiyne by H-Substitution to Promote Interfacial Charge Carrier Separation for Enhanced Photocatalytic Hydrogen Production. *ADVANCED FUNCTIONAL MATERIALS*. 31, pp. 2100994. 2021. ISSN 1616-301X

DOI: 10.1002/adfm.202100994

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 19.924

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 28

- 33** Zamani, Mahdi; Imbalzano, Giulio; Tappy, Nicolas; Alexander, Duncan T. L.; Marti-Sanchez, Sara; Ghisalberti, Lea; Ramasse, Quentin M.; Friedl, Martin; Tutuncuoglu, Gozde; Francaviglia, Luca; Bienvenue, Sebastien; Hebert, Cecile; Arbiol, Jordi; Ceriotti, Michele; Fontcuberta i Morral, Anna. 3D Ordering at the Liquid-Solid Polar Interface of Nanowires. *ADVANCED MATERIALS*. 32, pp. 2001030. 2020. ISSN 0935-9648

DOI: 10.1002/adma.202001030

PMID: 32762011

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 30.849

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 7

- 34** He, Yongmin; Tang, Pengyi; Hu, Zhili; He, Qiyuan; Zhu, Chao; Wang, Luqing; Zeng, Qingsheng; Golani, Prafful; Gao, Guanhui; Fu, Wei; Huang, Zhiqi; Gao, Caitian; Xia, Juan; Wang, Xingli; Wang, Xuewen; Ramasse, Quentin M.; Zhang, Ao; An, Boxing; Zhang, Yongzhe; Marti-Sanchez, Sara; Morante, Joan Ramon; Wang, Liang; Tay, Beng Kang; Yakobson, Boris, I; Trampert, Achim; Zhang, Hua; Wu, Minghong; Wang, Qi Jie; Arbiol,



Jordi; Liu, Zheng. Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. NATURE COMMUNICATIONS. 11, pp. 57. 2020. ISSN 2041-1723

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Impact index in year of publication: 14.919

Journal in the top 25%: Yes

Relevant publication: Yes

- 35** Tang, Peng-Yi; Han, Li-Juan; Hegner, Franziska Simone; Paciok, Paul; Biset-Peiro, Marti; Du, Hong-Chu; Wei, Xian-Kui; Jin, Lei; Xie, Hai-Bing; Shi, Qin; Andreu, Teresa; Lira-Cantu, Monica; Heggen, Marc; Dunin-Borkowski, Rafal E.; Lopez, Nuria; Ramon Galan-Mascaros, Jose; Ramon Morante, Joan; Arbiol, Jordi. Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification. ADVANCED ENERGY MATERIALS. 9, pp. 1901836. 2019. ISSN 1614-6832

DOI: 10.1002/aenm.201901836

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 25.245

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 59

Relevant publication: Yes

- 36** Mofarah, Sajjad S.; Adabifiroozjaei, Esmaeil; Pardehkhorrarn, Raheleh; Assadi, M. Hussein N.; Hinterstein, Manuel; Yao, Yin; Liu, Xinhong; Ghasemian, Mohammad B.; Kalantar-Zadeh, Kourosh; Mehmood, Rashid; Cazorla, Claudio; Shahmiri, Reza; Bahmanrokh, Ghazaleh; Bhattacharyya, Saroj; Spadaro, Maria Chiara; Arbiol, Jordi; Lim, Sean; Xu, Yuwen; Arandiyán, Hamidreza; Scott, Jason; Koshy, Pramod; Sorrell, Charles C.. Coordination Polymer to Atomically Thin, Holey, Metal-Oxide Nanosheets for Tuning Band Alignment. ADVANCED MATERIALS. 31, pp. 1905288. 2019. ISSN 0935-9648

DOI: 10.1002/adma.201905288

PMID: 31693232

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 27.398

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 32

Relevant publication: Yes

- 37** Tang, PengYi; Arbiol, Jordi. Engineering surface states of hematite based photoanodes for boosting photoelectrochemical water splitting. NANOSCALE HORIZONS. 4, pp. 1256 - 1276. 2019. ISSN 2055-6756

DOI: 10.1039/c9nh00368a

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Impact index in year of publication: 9.927

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 69

Relevant publication: Yes



- 38** Zhang, Xuan; Luo, Jiangshui; Wan, Kai; Plessers, Dieter; Sels, Bert; Song, Jianxun; Chen, Liugang; Zhang, Ting; Tang, Pengyi; Ramon Morante, Joan; Arbiol, Jordi; Fransaer, Jan. From rational design of a new bimetallic MOF family with tunable linkers to OER catalysts. JOURNAL OF MATERIALS CHEMISTRY A. 7, pp. 1616 - 1628. 2019. ISSN 2050-7488
DOI: 10.1039/c8ta08508k
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 11.301
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 120
- 39** Wan, Kai; Luo, Jiangshui; Zhou, Chen; Zhang, Ting; Arbiol, Jordi; Lu, Xihong; Mao, Bing-Wei; Zhang, Xuan; Fransaer, Jan. Hierarchical Porous Ni₃S₄ with Enriched High-Valence Ni Sites as a Robust Electrocatalyst for Efficient Oxygen Evolution Reaction. ADVANCED FUNCTIONAL MATERIALS. 29, pp. 1900315. 2019. ISSN 1616-301X
DOI: 10.1002/adfm.201900315
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 16.836
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 251
- 40** Zhang, Xuan; Luo, Jiangshui; Lin, Heng-Fu; Tang, Pengyi; Morante, Joan Ramon; Arbiol, Jordi; Wan, Kai; Mao, Bing-Wei; Liu, Li-Min; Fransaer, Jan. Tailor-made metal-nitrogen-carbon bifunctional electrocatalysts for rechargeable Zn-air batteries via controllable MOF units. ENERGY STORAGE MATERIALS. 17, pp. 46 - 61. 2019. ISSN 2405-8297
DOI: 10.1016/j.ensm.2018.11.034
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 16.280
Source of citations: WOS
Relevant publication: Yes
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 56
- 41** de la Mata, Maria; Zamani, Reza R.; Marti-Sanchez, Sara; Eickhoff, Martin; Xiong, Qihua; Fontcuberta i Morral, Anna; Caroff, Philippe; Arbiol, Jordi. The Role of Polarity in Nonplanar Semiconductor Nanostructures. NANO LETTERS. 19, pp. 3396 - 3408. 2019. ISSN 1530-6984
DOI: 10.1021/acs.nanolett.9b00459
PMID: 31039314
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 11.238
Source of citations: WOS
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 28



Relevant publication: Yes

- 42** Zhang, Xuan; Luo, Jiangshui; Tang, Pengyi; Ramon Morante, Joan; Arbiol, Jordi; Xu, Cailing; Li, Qingfeng; Fransaer, Jan. Ultrasensitive binder-free glucose sensors based on the pyrolysis of in situ grown Cu MOF. SENSORS AND ACTUATORS B-CHEMICAL. 254, 2018. ISSN 0925-4005
DOI: 10.1016/j.snb.2017.07.024
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 6.393 **Journal in the top 25%:** Yes
Source of citations: WOS **Citations:** 73
Relevant publication: Yes
- 43** Urbain, Felix; Tang, Pengyi; Carretero, Nina M.; Andreu, Teresa; Gerling, Luis G.; Voz, Cristobal; Arbiol, Jordi; Ramon Morante, Joan. A prototype reactor for highly selective solar-driven CO₂ reduction to synthesis gas using nanosized earth-abundant catalysts and silicon photovoltaics. ENERGY & ENVIRONMENTAL SCIENCE. 10, pp. 2256 - 2266. 2017. ISSN 1754-5692
DOI: 10.1039/c7ee01747b
Type of production: Scientific paper
Impact source: ISI **Category:** Science Edition - ENVIRONMENTAL SCIENCES
Impact index in year of publication: 30.067 **Journal in the top 25%:** Yes
Source of citations: WOS **Citations:** 98
Relevant publication: Yes
- 44** Tang, PengYi; Xie, HaiBing; Ros, Carles; Han, LiJuan; Biset-Peiro, Marti; He, YongMin; Kramer, Wesley; Rodriguez, Alejandro Perez; Saucedo, Edgardo; Galan-Mascaros, Jose Ramon; Andreu, Teresa; Morante, Joan Ramon; Arbiol, Jordi. Enhanced photoelectrochemical water splitting of hematite multilayer nanowire photoanodes by tuning the surface state via bottom-up interfacial engineering. ENERGY & ENVIRONMENTAL SCIENCE. 10, pp. 2124 - 2136. 2017. ISSN 1754-5692
DOI: 10.1039/c7ee01475a
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI **Category:** Science Edition - ENVIRONMENTAL SCIENCES
Impact index in year of publication: 30.067 **Journal in the top 25%:** Yes
Source of citations: WOS **Citations:** 163
Relevant publication: Yes
- 45** Genc, Aziz; Patarroyo, Javier; Sancho-Parramon, Jordi; Bastus, Neus G.; Puntès, Victor; Arbiol, Jordi. Hollow metal nanostructures for enhanced plasmonics: synthesis, local plasmonic properties and applications. NANOPHOTONICS. 6, pp. 193 - 213. 2017. ISSN 2192-8606
DOI: 10.1515/nanoph-2016-0124
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 6.014 **Journal in the top 25%:** Yes

**Source of citations:** WOS**Citations:** 91**Relevant publication:** Yes

- 46** Masa, Justus; Sinev, Ilya; Mistry, Hemma; Ventosa, Edgar; de la Mata, Maria; Arbiol, Jordi; Muhler, Martin; Roldan Cuenya, Beatriz; Schuhmann, Wolfgang. Ultrathin High Surface Area Nickel Boride (Ni₃B) Nanosheets as Highly Efficient Electrocatalyst for Oxygen Evolution. *ADVANCED ENERGY MATERIALS*. 7, pp. 1700381. 2017. ISSN 1614-6832

DOI: 10.1002/aenm.201700381**Type of production:** Scientific paper**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 21.875**Journal in the top 25%:** Yes**Source of citations:** WOS**Citations:** 303**Relevant publication:** Yes

- 47** Tang, Peng-Yi; Han, Li-Juan; Genc, Aziz; He, Yong-Min; Zhang, Xuan; Zhang, Lin; Ramon Galan-Mascaros, Jose; Ramon Morante, Joan; Arbiol, Jordi. Synergistic effects in 3D honeycomb-like hematite nanoflakes/branched polypyrrole nanoleaves heterostructures as high-performance negative electrodes for asymmetric supercapacitors. *NANO ENERGY*. 22, pp. 189 - 201. 2016. ISSN 2211-2855

DOI: 10.1016/j.nanoen.2016.02.019**Type of production:** Scientific paper**Corresponding author:** Yes**Impact source:** ISI**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY**Impact index in year of publication:** 12.343**Journal in the top 25%:** Yes**Source of citations:** WOS**Citations:** 90**Relevant publication:** Yes

- 48** Genc, Aziz; Patarroyo, Javier; Sancho-Parramon, Jordi; Arenal, Raul; Duchamp, Martial; Gonzalez, Edgar E.; Henrard, Luc; Bastus, Neus G.; Dunin-Borkowski, Rafal E.; Puentes, Victor F.; Arbiol, Jordi. Tuning the Plasmonic Response up: Hollow Cuboid Metal Nanostructures. *ACS PHOTONICS*. 3, pp. 770 - 779. 2016. ISSN 2330-4022

DOI: 10.1021/acsphotonics.5b00667**Type of production:** Scientific paper**Corresponding author:** Yes**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 6.756**Journal in the top 25%:** Yes**Source of citations:** WOS**Citations:** 43**Relevant publication:** Yes

- 49** de la Mata, Maria; Leturcq, Renaud; Plissard, Sebastien R.; Rolland, Chloe; Magen, Cesar; Arbiol, Jordi; Caroff, Philippe. Twin-Induced InSb Nanosails: A Convenient High Mobility Quantum System. *NANO LETTERS*. 16, pp. 825 - 833. 2016. ISSN 1530-6984

DOI: 10.1021/acs.nanolett.5b05125**PMID:** 26733426**Type of production:** Scientific paper**Corresponding author:** Yes**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY



Impact index in year of publication: 12.712

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 71

Relevant publication: Yes

- 50** Monllor-Satoca, Damian; Baertsch, Mario; Fabrega, Cristian; Genc, Aziz; Reinhard, Sandra; Andreu, Teresa; Arbiol, Jordi; Niederberger, Markus; Ramon Morante, Joan. What do you do, titanium? Insight into the role of titanium oxide as a water oxidation promoter in hematite-based photoanodes. ENERGY & ENVIRONMENTAL SCIENCE. 8, pp. 3242 - 3254. 2015. ISSN 1754-5692

DOI: 10.1039/c5ee01679g

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - ENVIRONMENTAL SCIENCES

Impact index in year of publication: 25.427

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 128

Relevant publication: Yes

- 51** de la Mata, Maria; Magen, Cesar; Caroff, Philippe; Arbiol, Jordi. Atomic Scale Strain Relaxation in Axial Semiconductor III-V Nanowire Heterostructures. NANO LETTERS. 14, pp. 6614 - 6620. 2014. ISSN 1530-6984

DOI: 10.1021/nl503273j

PMID: 25330094

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 13.592

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 91

Relevant publication: Yes

- 52** Zamani, Reza R.; Ibanez, Maria; Luysberg, Martina; Garcia-Castello, Nuria; Houben, Lothar; Daniel Prades, Joan; Grillo, Vincenzo; Dunin-Borkowski, Rafal E.; Ramon Morante, Joan; Cabot, Andreu; Arbiol, Jordi. Polarity-Driven Polytypic Branching in Cu-Based Quaternary Chalcogenide Nanostructures. ACS NANO. 8, pp. 2290 - 2301. 2014. ISSN 1936-0851

DOI: 10.1021/nn405747h

PMID: 24575876

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 12.881

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 46

Relevant publication: Yes

- 53** Arbiol, Jordi; de la Mata, Maria; Eickhoff, Martin; Fontcuberta i Morral, Anna. Bandgap engineering in a nanowire: self-assembled 0, 1 and 2D quantum structures. MATERIALS TODAY. 16, pp. 213 - 219. 2013. ISSN 1369-7021

DOI: 10.1016/j.mattod.2013.06.006

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI



Impact index in year of publication: 10.850

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 25

- 54** Li, Wenhua; Zamani, Reza; Gil, Pilar Rivera; Pelaz, Beatriz; Ibanez, Maria; Cadavid, Doris; Shavel, Alexey; Alvarez-Puebla, Ramon A.; Parak, Wolfgang J.; Arbiol, Jordi; Cabot, Andreu. CuTe Nanocrystals: Shape and Size Control, Plasmonic Properties, and Use as SERS Probes and Photothermal Agents. JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 135, pp. 7098 - 7101. 2013. ISSN 0002-7863

DOI: 10.1021/ja401428e

PMID: 23647089

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 11.444

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 358

- 55** Heiss, M.; Fontana, Y.; Gustafsson, A.; Wuest, G.; Magen, C.; O'Regan, D. D.; Luo, J. W.; Ketterer, B.; Conesa-Boj, S.; Kuhlmann, A. V.; Houel, J.; Russo-Averchi, E.; Morante, J. R.; Cantoni, M.; Marzari, N.; Arbiol, J.; Zunger, A.; Warburton, R. J.; Fontcuberta i Morral, A.. Self-assembled quantum dots in a nanowire system for quantum photonics. NATURE MATERIALS. 12, pp. 439 - 444. 2013. ISSN 1476-1122

DOI: 10.1038/NMAT3557

PMID: 23377293

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 36.425

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 290

- 56** Utama, Muhammad Iqbal Bakti; de la Mata, Maria; Magen, Cesar; Arbiol, Jordi; Xiong, Qihua. Twinning-, Polytypism-, and Polarity-Induced Morphological Modulation in Nonplanar Nanostructures with van der Waals Epitaxy. ADVANCED FUNCTIONAL MATERIALS. 23, pp. 1636 - 1646. 2013. ISSN 1616-301X

DOI: 10.1002/adfm.201202027

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 10.439

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 55

- 57** Ibanez, Maria; Zamani, Reza; Li, Wenhua; Cadavid, Doris; Gorsse, Stephane; Katcho, Nebil A.; Shavel, Alexey; Lopez, Antonio M.; Ramon Morante, Joan; Arbiol, Jordi; Cabot, Andreu. Crystallographic Control at the Nanoscale To Enhance Functionality: Polytypic Cu₂GeSe₃ Nanoparticles as Thermoelectric Materials. CHEMISTRY OF MATERIALS. 24, pp. 4615 - 4622. 2012. ISSN 0897-4756



DOI: 10.1021/cm303252q

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 8.238

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 84

- 58** Utama, Muhammad Iqbal Bakti; Belarre, Francisco J.; Magen, Cesar; Peng, Bo; Arbiol, Jordi; Xiong, Qihua. Incommensurate van der Waals Epitaxy of Nanowire Arrays: A Case Study with ZnO on Muscovite Mica Substrates. NANO LETTERS. 12, pp. 2146 - 2152. 2012. ISSN 1530-6984

DOI: 10.1021/nl300554t

PMID: 22432695

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 13.025

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 109

- 59** Llordes, A.; Palau, A.; Gazquez, J.; Coll, M.; Vlad, R.; Pomar, A.; Arbiol, J.; Guzman, R.; Ye, S.; Rouco, V.; Sandiumenge, F.; Ricart, S.; Puig, T.; Varela, M.; Chateigner, D.; Vanacken, J.; Gutierrez, J.; Moshchalkov, V.; Deutscher, G.; Magen, C.; Obradors, X.. Nanoscale strain-induced pair suppression as a vortex-pinning mechanism in high-temperature superconductors. NATURE MATERIALS. 11, pp. 329 - 336. 2012. ISSN 1476-1122

DOI: 10.1038/NMAT3247

PMID: 22327747

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 35.749

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 266

- 60** de la Mata, Maria; Magen, Cesar; Gazquez, Jaume; Utama, Muhammad Iqbal Bakti; Heiss, Martin; Lopatin, Sergei; Furtmayr, Florian; Fernandez-Rojas, Carlos J.; Peng, Bo; Ramon Morante, Joan; Rurali, Riccardo; Eickhoff, Martin; Fontcuberta i Morral, Anna; Xiong, Qihua; Arbiol, Jordi. Polarity Assignment in ZnTe, GaAs, ZnO, and GaN-AlN Nanowires from Direct Dumbbell Analysis. NANO LETTERS. 12, pp. 2579 - 2586. 2012. ISSN 1530-6984

DOI: 10.1021/nl300840q

PMID: 22493937

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 13.025

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 151



Relevant publication: Yes

- 61** Arbiol, Jordi; Magen, Cesar; Becker, Pascal; Jacopin, Gwenole; Chernikov, Alexey; Schaefer, Soeren; Furtmayr, Florian; Tchernycheva, Maria; Rigutti, Lorenzo; Teubert, Joerg; Chatterjee, Sangam; Morante, Joan R.; Eickhoff, Martin. Self-assembled GaN quantum wires on GaN/AlN nanowire templates. NANOSCALE. 4, pp. 7517 - 7524. 2012. ISSN 2040-3364
DOI: 10.1039/c2nr32173d
PMID: 23100169
Type of production: Scientific paper
Corresponding author: Yes
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 6.233 **Journal in the top 25%:** Yes
Source of citations: WOS **Citations:** 45
Relevant publication: Yes
- 62** Gonzalez, Edgar; Arbiol, Jordi; Puntès, Victor F.. Carving at the Nanoscale: Sequential Galvanic Exchange and Kirkendall Growth at Room Temperature. SCIENCE. 334, pp. 1377 - 1380. 2011. ISSN 0036-8075
DOI: 10.1126/science.1212822
PMID: 22158813
Type of production: Scientific paper
Impact source: ISI **Category:** Science Edition - MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 31.201 **Journal in the top 25%:** Yes
Source of citations: WOS **Citations:** 538
Relevant publication: Yes
- 63** Uccelli, Emanuele; Arbiol, Jordi; Magen, Cesar; Krogstrup, Peter; Russo-Averchi, Eleonora; Heiss, Martin; Mugny, Gabriel; Morier-Genoud, Francois; Nygard, Jesper; Ramon Morante, Joan; Fontcuberta i Morral, Anna. Three-Dimensional Multiple-Order Twinning of Self-Catalyzed GaAs Nanowires on Si Substrates. NANO LETTERS. 11, pp. 3827 - 3832. 2011. ISSN 1530-6984
DOI: 10.1021/nl201902w
PMID: 21823613
Type of production: Scientific paper
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 13.198 **Journal in the top 25%:** Yes
Source of citations: WOS **Citations:** 111
Relevant results: Emanuele Uccelli,* Jordi Arbiol,* contributed equally.
Relevant publication: Yes
- 64** Shavel, Alexey; Arbiol, Jordi; Cabot, Andreu. Synthesis of Quaternary Chalcogenide Nanocrystals: Stannite Cu₂ZnxSnySe_{1+x+2y}. JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 132, pp. 4514 - 4515. 2010. ISSN 0002-7863
DOI: 10.1021/ja909498c
PMID: 20232869
Type of production: Scientific paper
Impact source: ISI



Impact index in year of publication: 9.019

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 216

- 65** Spirkoska, D.; Arbiol, J.; Gustafsson, A.; Conesa-Boj, S.; Glas, F.; Zardo, I.; Heigoldt, M.; Gass, M. H.; Bleloch, A. L.; Estrade, S.; Kaniber, M.; Rossler, J.; Peiro, F.; Morante, J. R.; Abstreiter, G.; Samuelson, L.; Fontcuberta i Morral, A.. Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. PHYSICAL REVIEW B. 80, pp. 245325. 2009. ISSN 1098-0121

DOI: 10.1103/PhysRevB.80.245325

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.475

Source of citations: WOS

Relevant results: D. Spirkoska,* and J. Arbiol,* contributed equally.

Relevant publication: Yes

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: Yes

Citations: 412

- 66** Arbiol, Jordi; Kalache, Billel; Cabarrocas, Pere Roca i; Morante, Joan Ramon; Morral, Anna Fontcuberta i. Influence of Cu as a catalyst on the properties of silicon nanowires synthesized by the vapour-solid-solid mechanism. NANOTECHNOLOGY. 18, pp. 305606. 2007. ISSN 0957-4484

DOI: 10.1088/0957-4484/18/30/305606

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 3.310

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: Yes

Citations: 131

- 67** Arbiol, J; Cerda, J; Dezanneau, G; Cirera, A; Peiro, F; Cornet, A; Morante, JR. Effects of Nb doping on the TiO₂ anatase-to-rutile phase transition. JOURNAL OF APPLIED PHYSICS. 92, pp. 853 - 861. 2002. ISSN 0021-8979

DOI: 10.1063/1.1487915

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 2.281

Source of citations: WOS

Relevant publication: Yes

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: Yes

Citations: 290

- 68** de la Mata, Maria; Zhou, Xiang; Furtmayr, Florian; Teubert, Joerg; Gradecak, Silvija; Eickhoff, Martin; Fontcuberta i Morral, Anna; Arbiol, Jordi. A review of MBE grown 0D, 1D and 2D quantum structures in a nanowire. JOURNAL OF MATERIALS CHEMISTRY C. 1, pp. 4300 - 4312. 2013. ISSN 2050-7526

DOI: 10.1039/c3tc30556b

Type of production: Review

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY



Impact index in year of publication: 6.626

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 58

Relevant publication: Yes

- 69** He, Ren; Yang, Linlin; Zhang, Yu; Wang, Xiang; Lee, Seungho; Zhang, Ting; Li, Lingxiao; Liang, Zhifu; Chen, Jingwei; Li, Junshan; Moghaddam, Ahmad Ostovari; Llorca, Jordi; Ib, Maria; Arbiol, Jordi; Xu, Ying; Cabot, Andreu. A CrMnFeCoNi high entropy alloy boosting oxygen evolution/reduction reactions and zinc-air battery performance. ENERGY STORAGE MATERIALS. 58, pp. 287 - 298. 2023. ISSN 2405-8297

DOI: 10.1016/j.ensm.2023.03.022

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 20.4

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 3

- 70** Diez-Garcia, Maria Isabel; Montana-Mora, Guillem; Botifoll, Marc; Cabot, Andreu; Arbiol, Jordi; Qamar, Mohammad; Morante, Joan Ramon. Cobalt-Iron Oxyhydroxide Obtained from the Metal Phosphide: A Highly Effective Electrocatalyst for the Oxygen Evolution Reaction at High Current Densities. ACS APPLIED ENERGY MATERIALS. 6, pp. 5690 - 5699. 2023. ISSN 2574-0962

DOI: 10.1021/acsaem.3c00032

PMID: 37323204

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 6.4

Journal in the top 25%: Yes

- 71** Nan, Bingfei; Li, Mengyao; Zhang, Yu; Xiao, Ke; Lim, Khak Ho; Chang, Cheng; Han, Xu; Zuo, Yong; Li, Junshan; Arbiol, Jordi; Llorca, Jordi; Ibanez, Maria; Cabot, Andreu. Engineering of Thermoelectric Composites Based on Silver Selenide in Aqueous Solution and Ambient Temperature. ACS APPLIED ELECTRONIC MATERIALS. 2023.

DOI: 10.1021/acsaelm.3c00055

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.2

- 72** Biendicho, Jordi Jacas; Mazaira, Pedro; Avireddy, Hemesh; Zhang, Chaoqi; Tang, Pengyi; Missyul, Alexander; Trilla, Lluís; Arbiol, Jordi; Morante, Joan Ramon; Cabot, Andreu. FeS₂-Decorated Carbon NanoFiber as Solid Phase Conversion-Type Cathode for Li-S Batteries. ENERGIES. 16, pp. 4496. 2023.

DOI: 10.3390/en16114496

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.2

- 73** Diez-Garcia, Maria Isabel; Garcia Blanco, Andres Alberto; Murcia-Lopez, Sebastian; Botifoll, Marc; Arbiol, Jordi; Qamar, Mohammad; Morante, Joan Ramon. Flexible and Binder-Free Iron Phosphide Electrodes Using a Three-Dimensional Support for High Hydrogen Productivity. CHEMELECTROCHEM. 2023. ISSN 2196-0216

DOI: 10.1002/celc.202201152

Type of production: Scientific paper

Impact source: ISI



Impact index in year of publication: 4.0

- 74** Tosato, Alberto; Levajac, Vukan; Wang, Ji-Yin; Boor, Casper J.; Borsoi, Francesco; Botifoll, Marc; Borja, Carla N.; Marti-Sanchez, Sara; Arbiol, Jordi; Sammak, Amir; Veldhorst, Menno; Scappucci, Giordano. Hard superconducting gap in germanium. COMMUNICATIONS MATERIALS. 4, pp. 23. 2023.

DOI: 10.1038/s43246-023-00351-w

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 7.8

Source of citations: WOS

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 2

- 75** Wang, Cong; Han, Xu; Xu, Qian; Sun, Yi-Ning; Arbiol, Jordi; Ghazzal, Mohamed Nawfal; Li, Jian. In situ construction of graphdiyne based heterojunctions by a deprotection-free approach for photocatalytic hydrogen generation. JOURNAL OF MATERIALS CHEMISTRY A. 11, pp. 3380 - 3387. 2023. ISSN 2050-7488

DOI: 10.1039/d2ta09918g

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 11.9

Source of citations: WOS

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

Citations: 3

- 76** Sun, Qing; Zeng, Guifang; Li, Jing; Wang, Shang; Botifoll, Marc; Wang, Hao; Li, Deping; Ji, Fengjun; Cheng, Jun; Shao, Huaiyu; Tian, Yanhong; Arbiol, Jordi; Cabot, Andreu; Ci, Lijie. Is Soft Carbon a More Suitable Match for SiOx in Li-Ion Battery Anodes?. SMALL. 2023. ISSN 1613-6810

DOI: 10.1002/sml.202302644

PMID: 37144432

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 13.3

Source of citations: WOS

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Citations: 2

- 77** Wang, Xiang; Montana-Mora, Guillem; Han, Xu; Yu, Jing; Qi, Xueqiang; Arbiol, Jordi; Liang, Zhifu; Cabot, Andreu; Li, Junshan. Palladium Hydride on C2N to Boost Formate Oxidation. ACS SUSTAINABLE CHEMISTRY & ENGINEERING. 11, pp. 11399 - 11405. 2023. ISSN 2168-0485

DOI: 10.1021/acssuschemeng.3c00852

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 8.4

Category: Science Edition - ENGINEERING, CHEMICAL

Journal in the top 25%: Yes

- 78** Montana-Mora, Guillem; Qi, Xueqiang; Wang, Xiang; Chacon-Borrero, Jesus; Martinez-Alanis, Paulina R.; Yu, Xiaoting; Li, Junshan; Xue, Qian; Arbiol, Jordi; Ibanez, Maria; Cabot, Andreu. Phosphorous incorporation into palladium tin nanoparticles for the electrocatalytic formate oxidation reaction. JOURNAL OF ELECTROANALYTICAL CHEMISTRY. 936, pp. 117369. 2023. ISSN 1572-6657

DOI: 10.1016/j.jelechem.2023.117369

Type of production: Scientific paper

Impact source: ISI
Impact index in year of publication: 4.5
Source of citations: WOS

Category: Science Edition - CHEMISTRY, ANALYTICAL
Journal in the top 25%: Yes
Citations: 2

- 79** Li, Junshan; Li, Luming; Ma, Xingyu; Han, Xu; Xing, Congcong; Qi, Xueqiang; He, Ren; Arbiol, Jordi; Pan, Huiyan; Zhao, Jun; Deng, Jie; Zhang, Yu; Yang, Yaoyue; Cabot, Andreu. Selective Ethylene Glycol Oxidation to Formate on Nickel Selenide with Simultaneous Evolution of Hydrogen. *ADVANCED SCIENCE*. 10, pp. 2300841. 2023.

DOI: 10.1002/advs.202300841

PMID: 36950758

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 15.1

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 6

- 80** Liu, Ying; Niu, Ranming; Majchrowski, Andrzej; Roleder, Krystian; Cordero-Edwards, Kumara; Cairney, Julie M.; Arbiol, Jordi; Catalan, Gustau. Translational Boundaries as Incipient Ferrielectric Domains in Antiferroelectric PbZrO₃. *PHYSICAL REVIEW LETTERS*. 130, pp. 216801. 2023. ISSN 0031-9007

DOI: 10.1103/PhysRevLett.130.216801

PMID: 37295088

Type of production: Scientific paper

Impact source: ISI

Category: PHYSICS, MULTIDISCIPLINARY

Impact index in year of publication: 8.6

Journal in the top 25%: Yes

- 81** Zhang, Chaoqi; Du, Ruifeng; Marti-Sanchez, Sara; Xiao, Ke; Yang, Dawei; Zhang, Chaoyue; Li, Canhuang; Zeng, Guifang; Chang, Xingqi; He, Ren; Arbiol, Jordi; Li, Junshan; Biendicho, Jordi Jacas; Cabot, Andreu. Tubular C₃N₄ Nanotubes as Metal-Free Sulfur Hosts toward Stable Lithium-Sulfur Batteries. *ENERGIES*. 16, pp. 4545. 2023.

DOI: 10.3390/en16124545

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.2

Source of citations: WOS

Citations: 2

- 82** Bubas, Matej; Fabijanac, Ivana; Kendel, Adriana; Miljanic, Snezana; Spadaro, Maria Chiara; Arbiol, Jordi; Janicki, Vesna; Sancho-Parramon, Jordi. Unifying stability and plasmonic properties in hybrid nanoislands: Au-Ag synergistic effects and application in SERS. *SENSORS AND ACTUATORS B-CHEMICAL*. 380, pp. 133326. 2023.

DOI: 10.1016/j.snb.2023.133326

Type of production: Scientific paper

Impact source: ISI

Category: Science Edition - CHEMISTRY, ANALYTICAL

Impact index in year of publication: 8.4

Journal in the top 25%: Yes

- 83** Du, Ruifeng; Li, Baoying; Han, Xu; Xiao, Ke; Wang, Xiang; Zhang, Chaoqi; Arbiol, Jordi; Cabot, Andreu. 2D/2D Heterojunction of TiO₂ Nanoparticles and Ultrathin G-C₃N₄ Nanosheets for Efficient Photocatalytic Hydrogen Evolution. *NANOMATERIALS*. 12, pp. 1557. 2022.

DOI: 10.3390/nano12091557

PMID: 35564266

Type of production: Scientific paper

**Impact source:** ISI**Impact index in year of publication:** 5.3**Source of citations:** WOS**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**Citations:** 3

- 84** Wang, Xiang; Xing, Congcong; Liang, Zhifu; Guardia, Pablo; Han, Xu; Zuo, Yong; Llorca, Jordi; Arbiol, Jordi; Li, Junshan; Cabot, Andreu. Activating the lattice oxygen oxidation mechanism in amorphous molybdenum cobalt oxide nanosheets for water oxidation. JOURNAL OF MATERIALS CHEMISTRY A. 10, pp. 3659 - 3666. 2022. ISSN 2050-7488

DOI: 10.1039/d1ta09657e**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 11.9**Source of citations:** WOS**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**Citations:** 10

- 85** Wang, Xiang; Han, Xu; Du, Ruifeng; Xing, Congcong; Qi, Xueqiang; Liang, Zhifu; Guardia, Pablo; Arbiol, Jordi; Cabot, Andreu; Li, Junshan. Cobalt Molybdenum Nitride-Based Nanosheets for Seawater Splitting. ACS APPLIED MATERIALS & INTERFACES. 14, 2022. ISSN 1944-8244

DOI: 10.1021/acsami.2c09272**PMID:** 36074387**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 9.5**Source of citations:** WOS**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**Citations:** 12

- 86** Du, Ruifeng; Xiao, Ke; Li, Baoying; Han, Xu; Zhang, Chaoqi; Wang, Xiang; Zuo, Yong; Guardia, Pablo; Li, Junshan; Chen, Jianbin; Arbiol, Jordi; Cabot, Andreu. Controlled oxygen doping in highly dispersed Ni-loaded g-C₃N₄ nanotubes for efficient photocatalytic H₂O₂ production. CHEMICAL ENGINEERING JOURNAL. 441, pp. 135999. 2022. ISSN 1385-8947

DOI: 10.1016/j.cej.2022.135999**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 15.1**Source of citations:** WOS**Category:** Science Edition - ENGINEERING, ENVIRONMENTAL**Citations:** 37

- 87** Zhang, Wei; Han, Ning; Luo, Jiangshui; Han, Xu; Feng, Shihui; Guo, Wei; Xie, Sijie; Zhou, Zhenyu; Subramanian, Palaniappan; Wan, Kai; Arbiol, Jordi; Zhang, Chi; Liu, Shaomin; Xu, Maowen; Zhang, Xuan; Franssaer, Jan. Critical Role of Phosphorus in Hollow Structures Cobalt-Based Phosphides as Bifunctional Catalysts for Water Splitting. SMALL. 18, pp. 2103561. 2022. ISSN 1613-6810

DOI: 10.1002/smll.202103561**PMID:** 34761518**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 13.3**Source of citations:** WOS**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**Citations:** 49



- 88** Arcas, Ramon; Cardenas-Morcoso, Drialys; Chiara Spadaro, Maria; Garcia-Tecedor, Miguel; Mesa, Camilo A.; Arbiol, Jordi; Fabregat-Santiago, Francisco; Gimenez, Sixto; Mas-Marza, Elena. Direct Observation of the Chemical Transformations in BiVO₄ Photoanodes upon Prolonged Light-Aging Treatments. SOLAR RRL. 6, pp. 2200132. 2022. ISSN 2367-198X
DOI: 10.1002/solr.202200132
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 7.9
Source of citations: WOS
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
Citations: 3
- 89** Beznasyuk, Daria, V; Marti-Sanchez, Sara; Kang, Jung-Hyun; Tanta, Rawa; Rajpalke, Mohana; Stankevic, Tomas; Christensen, Anna Wulff; Spadaro, Maria Chiara; Bergamaschini, Roberto; Maka, Nikhil N.; Petersen, Christian Emanuel N.; Carrad, Damon J.; Jespersen, Thomas Sand; Arbiol, Jordi; Krogstrup, Peter. Doubling the mobility of InAs/InGaAs selective area grown nanowires. PHYSICAL REVIEW MATERIALS. 6, pp. 034602. 2022. ISSN 2475-9953
DOI: 10.1103/PhysRevMaterials.6.034602
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.4
Source of citations: WOS
Citations: 4
- 90** Li, Junshan; Tian, Xi; Wang, Xiang; Zhang, Ting; Spadaro, Maria Chiara; Arbiol, Jordi; Li, Luming; Zuo, Yong; Cabot, Andreu. Electrochemical Conversion of Alcohols into Acidic Commodities on Nickel Sulfide Nanoparticles. INORGANIC CHEMISTRY. 61, pp. 13433 - 13441. 2022. ISSN 0020-1669
DOI: 10.1021/acs.inorgchem.2c01695
PMID: 35983854
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.6
Source of citations: WOS
Category: CHEMISTRY, INORGANIC & NUCLEAR
Journal in the top 25%: Yes
Citations: 1
- 91** Li, Junshan; Wang, Xiang; Xing, Congcong; Li, Luming; Mu, Shijia; Han, Xu; He, Ren; Liang, Zhifu; Martinez, Paulina; Yi, Yunan; Wu, Qianbao; Pan, Huiyan; Arbiol, Jordi; Cui, Chunhua; Zhang, Yu; Cabot, Andreu. Electrochemical reforming of ethanol with acetate Co-Production on nickel cobalt selenide nanoparticles. CHEMICAL ENGINEERING JOURNAL. 440, pp. 135817. 2022. ISSN 1385-8947
DOI: 10.1016/j.cej.2022.135817
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 15.1
Source of citations: WOS
Category: Science Edition - ENGINEERING, ENVIRONMENTAL
Journal in the top 25%: Yes
Citations: 8
- 92** Zhao, Lichen; Tang, Pengyi; Luo, Deying; Dar, M. Ibrahim; Eickemeyer, Felix T.; Arora, Neha; Hu, Qin; Luo, Jingshan; Liu, Yuhang; Zakeeruddin, Shaik Mohammed; Hagfeldt, Anders; Arbiol, Jordi; Huang, Wei; Gong, Qihuang; Russell, Thomas P.; Friend, Richard H.; Gratzel, Michael; Zhu, Rui. Enabling full-scale grain boundary mitigation in polycrystalline perovskite solids. SCIENCE ADVANCES. 8, pp. eabo3733. 2022. ISSN 2375-2548

DOI: 10.1126/sciadv.abo3733

PMID: 36054361

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 13.6

Source of citations: WOS

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

Citations: 10

- 93** Luo, Lu; Assali, Simone; Atalla, Mahmoud R. M.; Koelling, Sebastian; Attiaoui, Anis; Daligou, Gerard; Marti, Sara; Arbiol, Jordi; Moutanabbir, Oussama. Extended-SWIR Photodetection in All-Group IV Core/Shell Nanowires. ACS PHOTONICS. 9, pp. 914 - 921. 2022. ISSN 2330-4022

DOI: 10.1021/acsp Photonics.1c01728

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 7.0

Source of citations: WOS

Category: PHYSICS, APPLIED

Journal in the top 25%: Yes

Citations: 2

- 94** Selvam, TamilSelvi; Pervan, Petar; Sancho-Parramon, Jordi; Spadaro, Maria Chiara; Arbiol, Jordi; Janicki, Vesna. Glass poling as a substrate surface pre-treatment for in situ metal nanoparticle formation by reduction of metal salt. SURFACES AND INTERFACES. 33, pp. 102158. 2022. ISSN 2468-0230

DOI: 10.1016/j.surfin.2022.102158

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 6.2

Source of citations: WOS

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: Yes

Citations: 1

- 95** Wang, Xiang; Yang, Linlin; Xing, Congcong; Han, Xu; Du, Ruifeng; He, Ren; Guardia, Pablo; Arbiol, Jordi; Cabot, Andreu. MOF-Derived Ultrathin Cobalt Molybdenum Phosphide Nanosheets for Efficient Electrochemical Overall Water Splitting. NANOMATERIALS. 12, pp. 1098. 2022.

DOI: 10.3390/nano12071098

PMID: 35407217

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 5.3

Source of citations: WOS

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: Yes

Citations: 6

- 96** Wang, Qiuxia; Liu, Junfeng; Li, Tong; Zhang, Ting; Arbiol, Jordi; Yan, Suxia; Wang, Yong; Li, Huaming; Cabot, Andreu. Pd₂Ga nanorods as highly active bifunctional catalysts for electrosynthesis of acetic acid coupled with hydrogen production. CHEMICAL ENGINEERING JOURNAL. 446, pp. 136878. 2022. ISSN 1385-8947

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Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 15.1

Source of citations: WOS

Category: Science Edition - ENGINEERING, ENVIRONMENTAL

Journal in the top 25%: Yes

Citations: 10



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Impact source: ISI
Impact index in year of publication: 3.4
Source of citations: WOS
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Type of production: Scientific paper
Impact source: ISI
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Journal in the top 25%: Yes
Source of citations: WOS
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- 440** Arbiol, J; Rossinyol, E; Cabot, A; Peiro, F; Cornet, A; Morante, JR; Chen, FL; Liu, ML. Noble metal nanostructures synthesized inside mesoporous nanotemplate pores. ELECTROCHEMICAL AND SOLID STATE LETTERS. 7, 2004. ISSN 1099-0062
DOI: 10.1149/1.1724827
Source of citations: WOS **Citations:** 8
- 441** Cabot, A; Arbiol, J; Ferre, R; Morante, JR; Chen, FL; Liu, ML. Surface states in template synthesized tin oxide nanoparticles. JOURNAL OF APPLIED PHYSICS. 95, 2004. ISSN 0021-8979
DOI: 10.1063/1.1639946

**Source of citations:** WOS**Citations:** 28

- 442** Cabot, A; Arbiol, J; Rossinyol, E; Morante, JR; Chen, FL; Liu, ML. Synthesis of tin oxide nanostructures with controlled particle size using mesoporous frameworks. ELECTROCHEMICAL AND SOLID STATE LETTERS. 7, 2004. ISSN 1099-0062
DOI: 10.1149/1.1664054
Source of citations: WOS **Citations:** 22
- 443** Korotcenkov, G; Brinzari, V; Cerneavski, A; Ivanov, M; Golovanov, V; Cornet, A; Morante, J; Cabot, A; Arbiol, J. The influence of film structure on In₂O₃ gas response. THIN SOLID FILMS. 460, 2004. ISSN 0040-6090
DOI: 10.1016/j.tsf.2004.02.018
Source of citations: WOS **Citations:** 146
- 444** Jimenez, I; Arbiol, J; Dezanneau, G; Cornet, A; Morante, JR. Crystalline structure, defects and gas sensor response to NO₂ and H₂S of tungsten trioxide nanopowders. SENSORS AND ACTUATORS B-CHEMICAL. 93, 2003. ISSN 0925-4005
DOI: 10.1016/S0925-4005(03)00198-9
Source of citations: WOS **Citations:** 176
- 445** Cabot, A; Arbiol, J; Cornet, A; Morante, JR; Chen, FL; Liu, ML. Mesoporous catalytic filters for semiconductor gas sensors. THIN SOLID FILMS. 436, 2003. ISSN 0040-6090
DOI: 10.1016/S0040-6090(03)00510-8
Source of citations: WOS **Citations:** 84
- 446** Ruiz, A; Dezanneau, G; Arbiol, J; Cornet, A; Morante, JR. Study of the influence of Nb content and sintering temperature on TiO₂ sensing films. THIN SOLID FILMS. 436, 2003. ISSN 0040-6090
DOI: 10.1016/S0040-6090(03)00515-7
Source of citations: WOS **Citations:** 65
- 447** Tarancon, A; Dezanneau, G; Arbiol, J; Peiro, F; Morante, JR. Synthesis of nanocrystalline materials for SOFC applications by acrylamide polymerisation. JOURNAL OF POWER SOURCES. 118, 2003. ISSN 0378-7753
DOI: 10.1016/S0378-7753(03)00091-0
Source of citations: WOS **Citations:** 78
- 448** Barcones, B; Romano-Rodriguez, A; Arbiol, J; Alvarez-Garcia, J; Perez-Rodriguez, A; Morante, JR; Scheer, R. Transmission electron microscopy and image simulation study of CuAu domains in CuInS₂ epitaxial layers. THIN SOLID FILMS. 431, 2003. ISSN 0040-6090
DOI: 10.1016/S0040-6090(03)00162-7
Source of citations: WOS **Citations:** 3
- 449** Arbiol, J; Peiro, F; Cornet, A; Morante, JR; Perez-Omil, JA; Calvino, JJ. Computer image HRTEM simulation of catalytic nanoclusters on semiconductor gas sensor materials supports. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY. 91, 2002. ISSN 0921-5107
DOI: 10.1016/S0921-5107(01)01067-4
Source of citations: WOS **Citations:** 7



- 450** Korotcenkov, G; Brinzari, V; Cerneavshi, A; Cornet, A; Morante, J; Cabot, A; Arbiol, J. Crystallographic characterization of In₂O₃ films deposited by spray pyrolysis. SENSORS AND ACTUATORS B-CHEMICAL. 84, 2002. ISSN 0925-4005
DOI: 10.1016/S0925-4005(02)00008-4
Source of citations: WOS **Citations:** 43
- 451** Arbiol, J; Cabot, A; Morante, JR; Chen, FL; Liu, ML. Distributions of noble metal Pd and Pt in mesoporous silica. APPLIED PHYSICS LETTERS. 81, 2002. ISSN 0003-6951
DOI: 10.1063/1.1518158
Source of citations: WOS **Citations:** 47
- 452** Diaz, R; Arbiol, J; Sanz, F; Cornet, A; Morante, JR. Electroless addition of platinum to SnO₂ nanopowders. CHEMISTRY OF MATERIALS. 14, 2002. ISSN 0897-4756
DOI: 10.1021/cm011256m
Source of citations: WOS **Citations:** 27
- 453** Arbiol, J; Cirera, A; Peiro, F; Cornet, A; Morante, JR; Delgado, JJ; Calvino, JJ. Optimization of tin dioxide nanosticks faceting for the improvement of palladium nanocluster epitaxy. APPLIED PHYSICS LETTERS. 80, 2002. ISSN 0003-6951
DOI: 10.1063/1.1433903
Source of citations: WOS **Citations:** 68
- 454** Cerda, J; Arbiol, J; Dezanneau, G; Diaz, R; Morante, JR. Perovskite-type BaSnO₃ powders for high temperature gas sensor applications. SENSORS AND ACTUATORS B-CHEMICAL. 84, 2002. ISSN 0925-4005
DOI: 10.1016/S0925-4005(02)00005-9
Source of citations: WOS **Citations:** 133
- 455** Jimenez, Ismael; Arbiol, Jordi; Cornet, Albert; Ramon Morante, Joan. Structural and Gas-Sensing Properties of WO₃ Nanocrystalline Powders Obtained by a Sol-Gel Method From Tungstic Acid. IEEE SENSORS JOURNAL. 2, 2002. ISSN 1530-437X
DOI: 10.1109/JSEN.2002.803747
Source of citations: WOS **Citations:** 24
- 456** Ruiz, A; Arbiol, J; Cirera, A; Cornet, A; Morante, JR. Surface activation by Pt-nanoclusters on titania for gas sensing applications. MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS. 19, 2002. ISSN 0928-4931
DOI: 10.1016/S0928-4931(01)00451-9
Source of citations: WOS **Citations:** 77
- 457** Cerda, J; Arbiol, J; Diaz, R; Dezanneau, G; Morante, JR. Synthesis of perovskite-type BaSnO₃ particles obtained by a new simple wet chemical route based on a sol-gel process. MATERIALS LETTERS. 56, 2002. ISSN 0167-577X
DOI: 10.1016/S0167-577X(02)00428-7
Source of citations: WOS **Citations:** 88
- 458** Diaz, R; Arbiol, J; Cirera, A; Sanz, F; Peiro, F; Cornet, A; Morante, JR. Electroless addition of catalytic pd to SnO₂ nanopowders. CHEMISTRY OF MATERIALS. 13, 2001. ISSN 0897-4756
DOI: 10.1021/cm011131h
Source of citations: WOS **Citations:** 40



- 459** Arbiol, J; Gorostiza, P; Cirera, A; Cornet, A; Morante, JR. In situ analysis of the conductance of SnO₂ crystalline nanoparticles in the presence of oxidizing or reducing atmosphere by scanning tunneling microscopy. SENSORS AND ACTUATORS B-CHEMICAL. 78, 2001. ISSN 0925-4005
DOI: 10.1016/S0925-4005(01)00791-2
Source of citations: WOS **Citations:** 11
- 460** Amimer, K; Georgakilas, A; Androulidaki, M; Tsagaraki, K; Pavelescu, M; Mikroulis, S; Constantinidis, G; Arbiol, J; Peiro, F; Cornet, A; Calamiotou, M; Kuzmik, J; Davydov, VY. Study of the correlation between GaN material properties and the growth conditions of radio frequency plasma-assisted molecular beam epitaxy. MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY. 80, 2001. ISSN 0921-5107
DOI: 10.1016/S0921-5107(00)00646-2
Source of citations: WOS **Citations:** 8
- 461** Cabot, A; Arbiol, J; Morante, JR; Weimar, U; Barsan, N; Gopel, W. Analysis of the noble metal catalytic additives introduced by impregnation of as obtained SnO₂ sol-gel nanocrystals for gas sensors. SENSORS AND ACTUATORS B-CHEMICAL. 70, 2000. ISSN 0925-4005
DOI: 10.1016/S0925-4005(00)00565-7
Source of citations: WOS **Citations:** 283
- 462** Arbiol, J; Peiro, F; Cornet, A; Morante, JR; Michelakis, K; Georgakilas, A. Comparison of homogeneously grown and temperature-graded InAlAs buffers in the range 400-560 degrees C: effects on surface morphology and layer stability. THIN SOLID FILMS. 357, 1999. ISSN 0040-6090
DOI: 10.1016/S0040-6090(99)00476-9
- 463** Arbiol, J; Peiro, F; Cornet, A; Michelakis, K; Georgakilas, A. Temperature-graded InAlAs buffers applied on InGaAs/InAlAs/InP high electron mobility transistor heterostructures. JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B. 17, 1999. ISSN 1071-1023

Works submitted to national or international conferences

- 1** **Title of the work:** The Nanowire (R)evolution viewed at atomic scale: from VLS vertical systems to planar quantum networks
Name of the conference: Nanowire Week 2023 (NWW2023)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Atlanta, United States of America
Date of event: 11/10/2023
Organising entity: GeorgiaTech
Jordi Arbiol.
- 2** **Title of the work:** 2D Nanostructures at Atomic Scale: From Energy and Environmental Applications to Quantum Devices
Name of the conference: Microscopy at the Frontiers of Science Conference (MFS 2023)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Braga, Portugal



Date of event: 28/09/2023
Organising entity: Spanish Microscopy Society (SME)
Jordi Arbiol.

3 Title of the work: Nanostructures at Atomic Scale: From Energy and Environmental Applications to Quantum Devices

Name of the conference: NanoInnovation 2023
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Rome, Italy
Date of event: 20/09/2023
Jordi Arbiol.

4 Title of the work: 2D Nanostructures for Energy and Environmental Applications at Atomic Scale

Name of the conference: The 20th International Microscopy Congress (IMC20)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Busan, Republic of Korea
Date of event: 13/09/2023
Jordi Arbiol.

5 Title of the work: The Nanowire (R)evolution viewed at atomic scale: from VLS vertical systems to planar quantum networks

Name of the conference: Trends in Nanotechnology 2023 (TNT 2023)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Lyon, France
Date of event: 29/08/2023
Jordi Arbiol.

6 Title of the work: 2D Nanostructures at Atomic Scale: From Energy and Environmental Applications to Quantum Devices

Name of the conference: Nanotech France 2023
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Paris, France
Date of event: 30/06/2023
Jordi Arbiol.

7 Title of the work: Advanced (S)TEM on nanostructured materials

Name of the conference: 2D Nanostructures at Atomic Scale: From Energy and Environmental Applications to Quantum Devices
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Singapore, Singapore
Date of event: 27/06/2023



Organising entity: Materials Research Society Singapore
Jordi Arbiol.

- 8** **Title of the work:** Advanced (S)TEM on nanostructured materials
Name of the conference: Advanced (S)TEM Microscopy Workshop
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Genoa, Italy
Date of event: 22/06/2023
Organising entity: IIT Genoa
Jordi Arbiol.

- 9** **Title of the work:** 2D Nanostructures at Atomic Scale: From Energy and Environmental Applications to Quantum Devices
Name of the conference: 2nd Annual Conference on Global Nanotechnology (ICMM-CSIC, Materials Science Institute of Madrid)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 20/06/2023
Organising entity: INSTITUTO DE CIENCIAS DE MATERIALES MADRID (SEDE B) **Type of entity:** State agency
Jordi Arbiol.

- 10** **Title of the work:** 2D Nanostructures at Atomic Scale: From Energy and Environmental Applications to Quantum Devices
Name of the conference: 7th Scientific Meeting of Phd Students at UAB campus (JPhD2023)
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Bellaterra, Barcelona,
Date of event: 08/06/2023
Jordi Arbiol.

- 11** **Title of the work:** 2D nanostructures at atomic scale: from energy an environmental applications to quantum devices
Name of the conference: ACS Publications Summit Innovations in Measurement Science
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona,
Date of event: 14/03/2023
Organising entity: American Chemical Society (ACS)
Jordi Arbiol.

- 12** **Title of the work:** 2D Nanostructures at Atomic Scale: From Energy an Environmental Applications to Quantum Devices
Name of the conference: The 7th Ed. of the Smart Materials and Surfaces - SMS 2022 Conference
Type of event: Conference



Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Athens, Greece
Date of event: 26/10/2022
Jordi Arbiol.

13 Title of the work: 2D Nanostructures at Atomic Scale: From Energy an Environmental Applications to Quantum Devices
Name of the conference: Trends in Nanotechnology International Conference (TNT2022)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Tirana, Albania
Date of event: 05/10/2022
Jordi Arbiol.

14 Title of the work: 2D nanostructures at atomic scale: from energy an environmental applications to quantum devices
Name of the conference: Future Materials 2022
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Rome, Italy
Date of event: 03/10/2022
Jordi Arbiol.

15 Title of the work: 2D nanostructures at atomic scale: from energy an environmental applications to quantum devices
Name of the conference: 33rd European Crystallographic Meeting (ECM33); MS 39 "Crystallography at the nanoscale"
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Versailles, France
Date of event: 26/08/2022
Jordi Arbiol.

16 Title of the work: 2D Nanostructures at Atomic Scale: From Energy an Environmental Applications to Quantum Devices
Name of the conference: Conference on Electron Microscopy of Nanostructures ELMINA2022
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Belgrade, Serbia
Date of event: 24/08/2022
Jordi Arbiol.

17 Title of the work: A Close Look to Single Atom Metal Catalysts
Name of the conference: The 2022 International Conference on Energy Technology and Materials Engineering (ETME 2022) (on-line)
Type of event: Conference



Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Zhangjiajie, China
Date of event: 24/04/2022
Jordi Arbiol.

18 **Title of the work:** Energy Nanomaterials at atomic scale: from growth mechanisms to properties
Name of the conference: BIKE Workshop on Catalysis and design of advanced reactors
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona,
Date of event: 13/12/2021
Organising entity: UPC
Jordi Arbiol.

19 **Title of the work:** Quantum Infrastructures at BIST
Name of the conference: 2021 BIST Conference
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona,
Date of event: 03/11/2021
Organising entity: BIST
Jordi Arbiol.

20 **Title of the work:** 2D Energy Nanomaterials at atomic scale
Name of the conference: NanoGe2021 (Barcelona) Symposium #NCFun21: Fundamental Processes in Nanocrystals (on-line conference)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona,
Date of event: 21/10/2021
Jordi Arbiol.

21 **Title of the work:** Nanowires (R)Evolution: from VLS vertical nanostructures to SAG Quantum Networks
Name of the conference: Trends in Nanotechnology International Conference (TNT2021)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Tirana, Albania
Date of event: 04/10/2021
Jordi Arbiol.

22 **Title of the work:** 2D Energy Nanomaterials and single atom catalysts at atomic scale
Name of the conference: 2021 International Conference on Civil Engineering, Energy and Electric Power (CEEPEP 2021) on-line
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes



City of event: Jilin, China

Date of event: 25/09/2021

Jordi Arbiol.

- 23** **Title of the work:** Quantum nanomaterials at atomic scale: from growth mechanisms to local properties
Name of the conference: 1st INTERNATIONAL MICROSCOPY & SPECTROSCOPY CONGRESS (MSC 2021) (on-line)
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Turkey
Date of event: 24/09/2021
Jordi Arbiol.
- 24** **Title of the work:** Nanowire networks at atomic scale: from growth mechanisms to local properties
Name of the conference: E-MRS Fall Meeting 2021 (Warsaw, Poland) Symp. C “Advanced catalytic materials for (photo)electrochemical energy conversion II”
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Warsaw, Poland
Date of event: 23/09/2021
Organising entity: European Materials Research Society (E-MRS)
Jordi Arbiol.
- 25** **Title of the work:** Nanowire networks at atomic scale: from growth mechanisms to local properties
Name of the conference: Virtual IEEE Conference on Nanotechnology (IEEE NANO 2021)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
Date of event: 29/07/2021
Organising entity: IEEE
Jordi Arbiol.
- 26** **Title of the work:** 2D Energy Nanomaterials at atomic scale
Name of the conference: 2nd International Conference on Materials Science and Nanotechnology (Future Materials 2021) (Virtual)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona,
Date of event: 05/07/2021
Jordi Arbiol.
- 27** **Title of the work:** 2D Energy Nanomaterials at atomic scale
Name of the conference: The 5th International Workshop on Advances in Energy Science and Environment Engineering (AESEE 2021) On-line
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Xiamen, China

Date of event: 10/04/2021
Jordi Arbiol.

28 Title of the work: Nanowire networks at atomic scale: from growth mechanisms to local properties
Name of the conference: 2020 IEEE 20th International Conference on Nanotechnology (IEEE-NANO | Virtual)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Montreal, Canada
Date of event: 30/07/2020
Organising entity: IEEE
Jordi Arbiol.

29 Title of the work: Energy Nanomaterials at atomic scale: from growth mechanisms to local properties
Name of the conference: The 2020 4th International Workshop on Advances in Energy Science and Environment Engineering (AESEE 2020) - online conference
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Hangzhou, China
Date of event: 10/04/2020
Jordi Arbiol.

30 Title of the work: Free-standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: International Conference on Smart Engineering Materials (ICSEM 2020) on-line
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Singapore, Singapore
Date of event: 07/03/2020
Jordi Arbiol.

31 Title of the work: Free-standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: Future Materials 2020
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Lisbon, Portugal
Date of event: 26/02/2020
Jordi Arbiol.

32 Title of the work: Free-standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: 12th Asia-Pacific Microscopy Conference (APMC-2020)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Hyderabad, India



Date of event: 05/02/2020

Jordi Arbiol.

- 33** **Title of the work:** Free-standing nanostructures at Atomic Scale: from growth mechanisms to properties
Name of the conference: 5th Ed. Smart Materials and Surfaces - SMS Conference (SMS 2019)
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Lisbon, Portugal
Date of event: 24/10/2019
Jordi Arbiol.
- 34** **Title of the work:** Epitaxy at the atomic scale on 2D semiconductor nanostructures
Name of the conference: EMN Meeting on Epitaxy 2019
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Amsterdam, Holland
Date of event: 18/06/2019
Jordi Arbiol.
- 35** **Title of the work:** Hybrid Nanowire Based Quantum Networks at Atomic Scale: from growth mechanisms to properties
Name of the conference: International Conference Nano-M&D 2019
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Paestum, Italy
Date of event: 04/06/2019
Jordi Arbiol.
- 36** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: NanoSpain 2019
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona,
Date of event: 30/05/2019
Jordi Arbiol.
- 37** **Title of the work:** Hybrid Nanowire Based Quantum Networks at Atomic Scale: from growth mechanisms to properties
Name of the conference: Nanotechnology and Materials Science Engineering 2019
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Brussels, Belgium
Date of event: 13/05/2019
Jordi Arbiol.



- 38** **Title of the work:** Hybrid Nanowire Based Quantum Networks at Atomic Scale: from growth mechanisms to properties
Name of the conference: Materials Research Society Spring Meeting 2019 (MRS Spring 2019)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Phoenix, United States of America
Date of event: 23/04/2019
Organising entity: Materials Research Society (MRS)
Jordi Arbiol.
- 39** **Title of the work:** Free standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: WIS Inaugural Meeting (The David Lopatie Conference Centre, Weizmann Institute of Science)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Rehovot, Israel
Date of event: 10/04/2019
Jordi Arbiol.
- 40** **Title of the work:** 2D Semiconductor nanostructures at atomic scale
Name of the conference: 4th International Conference on Smart Engineering Materials (ICSEM 2019)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Auckland, New Zealand
Date of event: 10/03/2019
Jordi Arbiol.
- 41** **Title of the work:** Free standing nanostructures at atomic scale: from growth mechanisms to properties through advanced electron microscopy
Name of the conference: BIST Symposium on Microscopy, Nanoscopy and Imaging Sciences 2019 (BSyM 2019)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Castelldefels, Barcelona,
Date of event: 08/02/2019
Jordi Arbiol.
- 42** **Title of the work:** Hollow Metal Nanostructures for Enhanced Plasmonics
Name of the conference: 2nd International Conference on Nanomaterials and Biomaterials (ICNB 2018)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona,
Date of event: 11/12/2018
Jordi Arbiol.



- 43** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: 31st European Crystallographic Meeting (ECM31)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Oviedo, Spain
Date of event: 23/08/2018
Jordi Arbiol.
- 44** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: International Conference on Materials Science and Engineering (ICMSE 2018)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Moscow, Russia
Date of event: 24/07/2018
Jordi Arbiol.
- 45** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: The 4th edition of Nanotech France 2018 International Conference and Exhibition (NANOTECH FRANCE 2018)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Paris, France
Date of event: 29/06/2018
Jordi Arbiol.
- 46** **Title of the work:** Energy nanostructures at atomic scale: from growth mechanisms to properties
Name of the conference: Collaborative Conference on Materials Research (CCMR 2018)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Incheon, Republic of Korea
Date of event: 26/06/2018
Jordi Arbiol.
- 47** **Title of the work:** Epitaxy at the atomic scale: from core-shell to axial heterojunctions in nanostructures
Name of the conference: EMN Meeting on Epitaxy 2018
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Vienna, Austria
Date of event: 20/06/2018
Jordi Arbiol.



- 48** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: International Conference on Nanoscience and Nanoengineering (NSNE 2018)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Las Vegas, United States of America
Date of event: 18/04/2018
Jordi Arbiol.
- 49** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties
Name of the conference: Inauguration Symposium at the National Centre for Electron Microscopy
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Lund, Sweden
Date of event: 12/04/2018
Jordi Arbiol.
- 50** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: 2018 International Conference on Smart Engineering Materials (ICSEM 2018)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Bucharest, Romania
Date of event: 08/03/2018
Jordi Arbiol.
- 51** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: 22nd International Conference and Expo on Nanoscience and Molecular Nanotechnology (Nanoscience 2017)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Frankfurt am Main, Germany
Date of event: 08/11/2017
Jordi Arbiol.
- 52** **Title of the work:** 2D Semiconductor nanostructures at atomic scale
Name of the conference: Applied Nanotechnology and Nanoscience International Conference 2017 (ANNIC 2017)
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Rome, Italy
Date of event: 19/10/2017
Jordi Arbiol.



- 53** **Title of the work:** Free-standing nanostructures at atomic scale: from structure to growth mechanisms and applications
Name of the conference: Nanoscience & Nanotechnology 2017 (N&N 2017)
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Frascati, Italy
Date of event: 18/10/2017
Jordi Arbiol.
- 54** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: International Conference on Electron Microscopy & Allied Techniques & XXXVIII Annual Meeting of EMSI
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Chennai, India
Date of event: 19/07/2017
Organising entity: Electron Microscope Society of India (EMSI)
Jordi Arbiol.
- 55** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: Microscience Microscopy Congress (mmc2017)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Manchester, United Kingdom
Date of event: 04/07/2017
Jordi Arbiol.
- 56** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: 21st International Conference on Solid State Ionics (SSI-21)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Padua, Italy
Date of event: 19/06/2017
Jordi Arbiol.
- 57** **Title of the work:** Dialogues on the boundaries of knowledge: Microscopy
Name of the conference: BIST Founding Conference
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Barcelona, Spain
Date of event: 31/03/2017
Organising entity: Barcelona Institute of Science and Technology (BIST)
Jordi Arbiol.



- 58** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the conference: 14th Int. Conf. on Nanomaterials and Nanotechnology (Nanomaterials 2017)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 30/03/2017
Jordi Arbiol.
- 59** **Title of the work:** A close look to the atoms: a journey to the nanoworld through advanced electron microscopy
Name of the conference: Applied Nanotechnology and Nanoscience International Conference 2016 (ANNIC 2016)
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Barcelona, Spain
Date of event: 11/11/2016
Jordi Arbiol.
- 60** **Title of the work:** Non-planar nanostructures at atomic scale
Name of the conference: YUCOMAT 2016
Type of event: Conference
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Herceg Novi, Montenegro
Date of event: 07/09/2016
Jordi Arbiol.
- 61** **Title of the work:** Non-Planar Nanostructures at atomic scale: from atomic structure to photonics in the (S)TEM
Name of the conference: ISM Golden Jubilee 2016
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Haifa, Israel
Date of event: 31/05/2016
Jordi Arbiol.
- 62** **Title of the work:** 2D Semiconductor nanostructures at atomic scale
Name of the conference: 2016 EMN 2D Materials Meeting
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: San Sebastián, Spain
Date of event: 20/05/2016
Jordi Arbiol.



- 63** **Title of the work:** Insight on the fine structure of Nanowires down to single atom detection: correlation to their growth and morphological properties
Name of the conference: EMN Meeting on Nanowires
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Amsterdam, Holland
Date of event: 17/05/2016
Jordi Arbiol.
- 64** **Title of the work:** Hollow Metal Nanostructures for Enhanced Plasmonics
Name of the conference: SPIE PHOTONICS WEST 2016 (SPIE BIOS 2016)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: San Francisco, United States of America
Date of event: 13/02/2016
Organising entity: SPIE
Jordi Arbiol.
- 65** **Title of the work:** Insight on the fine structure of Nanowires down to single atom detection: correlation to their physical properties
Name of the conference: Materials Research Society Fall Meeting 2015 (MRS Fall 2015)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Boston, United States of America
Date of event: 01/12/2015
Organising entity: Materials Research Society (MRS)
Jordi Arbiol.
- 66** **Title of the work:** Advanced Electron Microscopy of Nanocrystals: A close look to the atoms
Name of the conference: PHONSI - Nanophotonics by Nanocrystals, from integration to single photon operation Workshop
Type of event: Workshop
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Zurich, Switzerland
Date of event: 30/09/2015
Organising entity: ETH
Jordi Arbiol.
- 67** **Title of the work:** Photonic 1D nanomaterials: Correlation between Optical Properties at sub-nanometer scale with its structure at atomic scale
Name of the conference: Trends in NanoTechnology 2015 (TNT2015)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Toulouse, France
Date of event: 07/09/2015
Jordi Arbiol.



- 68** **Title of the work:** Exploring the optical properties of nanomaterials at sub-nanometer scale with a direct correlation to its structure at atomic scale
Name of the conference: European Materials Research Society Spring Meeting 2015 (E-MRS Spring 2015)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Lille, France
Date of event: 14/05/2015
Organising entity: European Materials Research Society (E-MRS)
Jordi Arbiol.
- 69** **Title of the work:** Energy Nanomaterials: a close look to their atomic scale structure and the influence on their properties at the nanoscale
Name of the conference: European Materials Research Society Spring Meeting 2015 (E-MRS Spring 2015)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Lille, France
Date of event: 12/05/2015
Organising entity: European Materials Research Society (E-MRS)
Jordi Arbiol.
- 70** **Title of the work:** Direct correlation between optical properties at sub-nanometer scale and structure at atomic scale, in-situ performance in a STEM
Name of the conference: 3rd Croatian Microscopy Congress (HMK2015)
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Zadar, Croatia
Date of event: 27/04/2015
Jordi Arbiol.
- 71** **Title of the work:** Exploring the optical properties of 1D nanomaterials at sub-nanometer scale with a direct correlation to its structure at atomic scale
Name of the conference: DPG Spring Meeting 2015 (Berlin 2015)
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Berlin, Germany
Date of event: 16/03/2015
Organising entity: Deutsche Physikalische Gesellschaft e.V.
Jordi Arbiol.
- 72** **Title of the work:** Plasmonic nanoengineering in metal nanostructures: from solid nanocubes to complex hollow multiwalled nanoboxes
Name of the conference: SPIE BIOS 2015
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote talk
City of event: San Francisco, United States of America
Date of event: 07/02/2015



End date: 12/02/2015

Organising entity: International Society for Optics and Photonics (SPIE)

City organizing entity: United States of America

Aziz Genç; Javier Patarroyo; Raul Arenal; Luc Henrard; Edgar Gonzalez; Neus G. Bastus; Victor F. Puentes; Jordi Arbiol *

73 Title of the work: Self-Assembled 0D, 1D and 2D Quantum Structures in-a-Nanowire: energy, light and sensing applications

Name of the conference: International Conference on Small Science (ICSS 2014)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote talk

City of event: Hong Kong, China

Date of event: 08/12/2014

End date: 11/12/2014

Organising entity: OAHOST, Open-Access Publication and Conference Management by Scientists and for Scientists.

Type of entity: Foundation

City organizing entity: United States of America
Jordi Arbiol.

74 Title of the work: Direct correlation between optical properties at sub-nanometer scale and structure at atomic scale, in-situ performance in a STEM

Name of the conference: International Conference on Microscopy and Microanalysis (INCOMAM'14)

Type of event: Conference

Type of participation: Participatory - Plenary session

City of event: Porto, Portugal

Date of event: 06/11/2014

End date: 07/11/2014

Organising entity: Portuguese Microscopy Society - SPMicros

Type of entity: Associations and Groups

City organizing entity: Portugal

Jordi Arbiol. 06/11/2014.

75 Title of the work: Exploring Oxides at Atomic Scale

Name of the conference: 18th International Microscopy Congress (IMC2014)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote talk

City of event: Prague, Czech Republic

Date of event: 10/09/2014

Organising entity: International Federation of Societies for Microscopy (IFSM)

Jordi Arbiol.

76 Title of the work: A close look to the atoms: a journey to the nanoworld through advanced electron microscopy

Name of the conference: E-MRS Spring Meeting 2014

Type of event: Conference

Type of participation: Participatory - Plenary session

Corresponding author: Yes

City of event: Lille, France

Date of event: 28/05/2014

Organising entity: European Materials Research Society (E-MRS)

Type of entity: Associations and Groups



City organizing entity: Strasbourg, France
Jordi Arbiol.

- 77** **Title of the work:** Polarity-Driven Polytypic Branching in Cu-Based Quaternary Chalcogenide Nanostructures
Name of the conference: ESTEEM2 Users Meeting
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Cadiz, Andalusia, Spain
Date of event: 10/03/2014
Organising entity: ESTEEM2 Consortium **Type of entity:** Associations and Groups
Jordi Arbiol.
- 78** **Title of the work:** Self-Assembled 0D, 1D and 2D Quantum Structures in-a-Nanowire: energy, light and sensing applications
Name of the conference: Materials Challenges in Alternative & Renewable Energy (MCARE 2014)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation talk
City of event: Clearwater, United States of America
Date of event: 18/02/2014
Organising entity: American Ceramic Society (ACeRS) **Type of entity:** Associations and Groups
City organizing entity: United States of America
Jordi Arbiol.
- 79** **Title of the work:** Mapping the surface plasmon resonances of single and double wall AuAg nanoboxes via STEM-EELS Properties and Structure at Atomic Scale
Name of the conference: Materials Research Society Fall Meeting 2013 (MRS Fall 2013)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster
City of event: Boston, United States of America
Date of event: 05/12/2013
Organising entity: Materials Research Society **Type of entity:** Associations and Groups
City organizing entity: United States of America
Aziz Genç; Raúl Arenal; Javier Patarroyo; Edgar González; Víctor Puentes; Jordi Arbiol.
- 80** **Title of the work:** Self-Assembled 0D, 1D and 2D Quantum Structures in-a-Nanowire: direct correlation between physical properties and structure at atomic scale
Name of the conference: Materials Research Society Fall Meeting 2013 (MRS Fall 2013)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote talk
City of event: Boston, United States of America
Date of event: 05/12/2013
Organising entity: Materials Research Society **Type of entity:** Associations and Groups
City organizing entity: United States of America
Jordi Arbiol.
- 81** **Title of the work:** Self-assembled semiconductor 0D, 1D and 2D Quantum Structures in a Nanowire for advanced bandgap modulation: growth, structural modeling and optical properties
Name of the conference: Materials Science & Technology 2013 Conference & Exhibition (MS&T'13)
Type of event: Conference **Geographical area:** Non EU International



Type of participation: Participatory - invited/keynote talk

City of event: Montreal, Canada

Date of event: 28/10/2013

End date: 31/10/2013

Organising entity: American Ceramic Society

Type of entity: Associations and Groups

City organizing entity: United States of America

María de la Mata; Francisco J. Belarre; Jordi Arbiol.

82 Title of the work: ABF STEM a direct way to visualize light atoms

Name of the conference: XII Inter-American Microscopy Congress (CIASEM2013)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote talk

City of event: Cartagena de Indias, Colombia

Date of event: 25/09/2013

Organising entity: Inter-american Committee of Societies for Microscopy

Type of entity: Associations and Groups

Jordi Arbiol.

83 Title of the work: Bandgap Engineering in a Nanowire: Embedding 0D, 1D and 2D Quantum Structures

Name of the conference: Microscopy at the Frontiers of Science 2013 (MFS2013)

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Tarragona, Catalonia, Spain

Date of event: 19/09/2013

Organising entity: Sociedad de Microscopía de España (SME)

With external admission assessment committee: Yes

M. de la Mata; X. Zhou; F. Furtmayr; J. Teubert; S. Gradežak; M. Eickhoff; A. Fontcuberta i Morral; J. Arbiol.

84 Title of the work: Functional Nanocomposites Made of PbTe-PbS Core-Shell Nanocrystals for Thermoelectrics: Structure Study

Name of the conference: Microscopy at the Frontiers of Science 2013 (MFS2013)

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Tarragona, Catalonia, Spain

Date of event: 19/09/2013

Organising entity: Sociedad de Microscopía de España (SME)

With external admission assessment committee: Yes

R. Zamani; M. Ibáñez; J.R. Morante; A. Cabot; J. Arbiol.

85 Title of the work: HRTEM Characterization and Modeling of Spheroidal Decahedron Shaped Au Nanoparticles

Name of the conference: Microscopy at the Frontiers of Science 2013 (MFS2013)

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

City of event: Tarragona, Catalonia, Spain

Date of event: 19/09/2013

Organising entity: Sociedad de Microscopía de España (SME)

With external admission assessment committee: Yes

A. Genç; A. de la Escosura-Muñiz; A. Merkoçi; J. Arbiol.



- 86** **Title of the work:** STEM Tools for Atomic Polarity Assignment in Semiconductor Nanostructures
Name of the conference: Microscopy at the Frontiers of Science 2013 (MFS2013)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Tarragona, Catalonia, Spain
Date of event: 18/09/2013
Organising entity: Sociedad de Microscopía de España (SME)
With external admission assessment committee: Yes
M. de la Mata; C. Magén; M.I.B. Utama; B. Peng; M. Heiss; J.R. Morante; M. Eickhoff; A. Fontcuberta i Morral; X. Qihua; J. Arbiol.
- 87** **Title of the work:** Structure Study of Complex Ternary and Quaternary Copper-Selenide Based nanocrystals for Thermoelectrics
Name of the conference: Microscopy at the Frontiers of Science 2013 (MFS2013)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Tarragona, Catalonia, Spain
Date of event: 18/09/2013
Organising entity: Sociedad de Microscopía de España (SME)
With external admission assessment committee: Yes
R. Zamani; M. Ibáñez; J.R. Morante; A. Cabot; J. Arbiol.
- 88** **Title of the work:** 0D, 1D and 2D Quantum Structures in a Semiconductor Nanowires: growth, structural modeling, atomic resolution direct polarity analyses and optical properties
Name of the conference: European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2013)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Sevilla, Andalusia, Spain
Date of event: 12/09/2013
Organising entity: Sociedad Española de Materiales **Type of entity:** Associations and Groups (SOCIEMAT)
City organizing entity: Spain
Jordi Arbiol; María de la Mata; Reza Zamani; Joan Ramon Morante.
- 89** **Title of the work:** Self-Assembled Quantum Structures in-a-Nanowire: direct correlation between physical properties and structure at atomic scale
Name of the conference: 22nd European Workshop on Heterostructure Technology (HETECH 2013)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Glasgow, United Kingdom
Date of event: 09/09/2013
Organising entity: Institute of Physics (IOP) - **Type of entity:** University
University of Glasgow
City organizing entity: United Kingdom
Jordi Arbiol; María de la Mata.
- 90** **Title of the work:** Visualization of light atoms by means of ABF STEM: direct polarity determination in nanowires, influences in growth mechanisms and physical properties
Name of the conference: The 47th Annual Meeting of the Israel Microscopy Society (ISM 2013)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk



City of event: Safed, Mount Canaan, Israel

Date of event: 29/05/2013

Organising entity: Israel Microscopy Society (ISM) **Type of entity:** Associations and Groups

City organizing entity: Israel

Jordi Arbiol; María de la Mata.

91 Title of the work: Atomic resolution direct polarity measurement in semiconductor nanowires: influence of polarity on the growth mechanisms, transport and optical properties

Name of the conference: GdR Nanofils Semiconducteurs 2013 (GdR NN 2013)

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - invited/keynote talk

City of event: Saint-Martin-de-Londres, France

Date of event: 04/04/2013

Organising entity: GdR Nanofils et Nanotubes Semiconducteurs

City organizing entity: France

Jordi Arbiol; María de la Mata.

92 Title of the work: Visualization of light atoms (O and N) in semiconductor NWs: direct way to determine the polarity in 1D nanostructures

Name of the conference: 37th International Conference and Expo on Advanced Ceramics and Composites (ICACC'13)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote talk

City of event: Daytona Beach, United States of America

Date of event: 30/01/2013

Organising entity: American Ceramic Society

Type of entity: Associations and Groups

City organizing entity: United States of America

Jordi Arbiol; María de la Mata; Reza Zamani; Joan Ramon Morante.

93 Title of the work: Self-assembled semiconductor 0D, 1D and 2D Quantum Structures in a Nanowire for advanced bandgap modulation: growth, structural modeling and optical properties

Name of the conference: 5th IEEE International Nanoelectronics Conference (IEEE INEC 2013)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote talk

City of event: Singapore, Singapore

Date of event: 03/01/2013

Organising entity: IEEE

Type of entity: Associations and Groups

City organizing entity: United States of America

Jordi Arbiol.

94 Title of the work: Direct dumbbell analyses for polarity assignment in semiconductor nanostructures by means of aberration-corrected STEM techniques

Name of the conference: E-MRS Spring Meeting 2013

Type of participation: Participatory - oral communication

City of event: Strasbourg, France

Date of event: 2013

M. de la Mata; R. Zamani; C. Magen; M. I. B. Utama; M. Heiss; B. Peng; J. R. Morante; R. Rurali; M. Eickhoff; A. Fontcuberta i Morral; Q. Xiong; J. Arbiol.



- 95** **Title of the work:** Polarity Study by Aberration-corrected STEM in Semiconductor Nanowires
Name of the conference: 7th nanowire growth workshop (7th NWGW)
Type of participation: Participatory - oral communication
City of event: Lausanne, Switzerland
Date of event: 2013
M. de la Mata; R. Zamani; C. Magen; M. I. B. Utama; M. Heiss; B. Peng; J. R. Morante; R. Rurali; M. Eickhoff; A. Fontcuberta i Morral; Q. Xiong; J. Arbiol.
- 96** **Title of the work:** Structure Influence in Complex Ternary and Quaternary Chalcogenide Nanoparticles for Thermoelectric Applications
Name of the conference: E-MRS Spring Meeting 2013
Type of participation: Participatory - oral communication
City of event: Strasbourg, France
Date of event: 2013
R. Zamani; M. Ibáñez; D. Cadavid; J.R. Morante; A. Cabot; J. Arbiol.
- 97** **Title of the work:** S/TEM of Nanomaterials
Name of the conference: "Transmission Electron Microscopy of Nanomaterials" 12th TEM-UCA European Summer Workshop
Type of event: Seminar **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Puerto Real, Andalusia, Spain
Date of event: 09/07/2012
Organising entity: Universidad de Cádiz **Type of entity:** University
City organizing entity: Puerto Real, Andalusia, Spain
Jordi Arbiol.
- 98** **Title of the work:** Conformal Coating of GaAs Nanowires with Metallic Ni for Spin Transport Experiments on Ferromagnetic Nanotubes
Name of the conference: MRS Fall Meeting 2012
Type of participation: Participatory - poster
City of event: Boston, United States of America
Date of event: 2012
D. Grundler; D. Rueffer; R. Huber; P. Berberich; S. Albert; E. Russo-Averchi; M. Heiss; J. Arbiol; A. Fontcuberta i Morral.
- 99** **Title of the work:** Exciton-phonon Coupling in Individual ZnTe Nanorods Studied by Resonant Raman Spectroscopy
Name of the conference: MRS Fall Meeting 2012
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2012
Q. Zhang; Y. Zhao; J. Zhang; M. I. B. Utama; B. Peng; F. Belarre; J. Arbiol; Q. Xiong.
- 100** **Title of the work:** GaN Quantum Wires Grown on the Edges of GaN-AlN Core-shell Nanowire Templates and Direct Dumbbell Polarity Observation by Means of ABF-STEM
Name of the conference: MRS Spring Meeting 2012
Type of participation: Participatory - oral communication
City of event: San Francisco, United States of America
Date of event: 2012
J. Arbiol; C. Magen; F. Furtmayr; A. Chernikov; S. Chatterjee; J. R. Morante; M. Eickhoff.



- 101** **Title of the work:** Laser Pulse Parameters Influences on Nanowire Morphology in Vapor-liquid-solid Growing by Pulsed Laser Ablation
Name of the conference: MRS Fall Meeting 2012
Type of participation: 'Participatory - poster
City of event: Boston, United States of America
Date of event: 2012
A. Marcu; R. Zamani; J. R. Morante; C. P. Lungu; C. Grigoriu; J. Arbiol.
- 102** **Title of the work:** Nanostrain induced superconductivity improvement in YBa₂Cu₃O₇ nanocomposite thin films
Name of the conference: European Microscopy Congress 2012 (EMC2012)
Type of participation: Participatory - oral communication
City of event: Manchester, United Kingdom
Date of event: 2012
R. Guzman; J. Gazquez; C. Magen; A. Llordés; M. Coll; M. Varela; S. Ricart; T. Puig; X. Obradors; J. Arbiol.
- 103** **Title of the work:** Polarity Assignment in ZnTe, GaAs, ZnO and GaN-AlN Nanowires from Direct Dumbbell Analysis by Means of Aberration Corrected HAADF and ABF STEM
Name of the conference: MRS Fall Meeting 2012
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2012
M. de la Mata; R. Zamani; J. Gazquez; C. Magen; M. I. B. Utama; M. Heiss; B. Peng; J. R. Morante; R. Rurali; M. Eickhoff; A. Fontcuberta i Morral; Q. Xiong; J. Arbiol.
- 104** **Title of the work:** Polarity assignment in ZnTe, GaAs, ZnO and GaN-AlN nanowires from direct dumbbell analysis by means of aberration corrected HAADF and ABF STEM
Name of the conference: European Microscopy Congress 2012 (EMC2012)
Type of participation: 'Participatory - poster
City of event: Manchester, United Kingdom
Date of event: 2012
M. de la Mata; J. Gazquez; C. Magen; M. I. B. Utama; M. Heiss; B. Peng; J. R. Morante; M. Eickhoff; A. Fontcuberta i Morral; Q. Xiong; J. Arbiol.
- 105** **Title of the work:** Self-assembled GaN Nanowires on Diamond: Direct Polarity Measurements, Epitaxy and Luminescence Properties
Name of the conference: MRS Fall Meeting 2012
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2012
R. Zamani; C. Magen; F. Schuster; F. Furtmayr; D. T. L. Alexander; C. Hebert; J. A. Garrido; M. Stutzmann; J. R. Morante; J. Arbiol.
- 106** **Title of the work:** Self-assembled GaN nanowires nucleated on diamond substrate: direct polarity measurements, epitaxy and luminescence properties
Name of the conference: European Microscopy Congress 2012 (EMC2012)
Type of participation: Participatory - oral communication
City of event: Manchester, United Kingdom
Date of event: 2012
R. Zamani; C. Magén; F. Schuster; F. Furtmayr; D. Alexander; C. Hébert; M. Stutzmann; J. R. Morante; J. Arbiol.



- 107** **Title of the work:** Structural and morphological changes in I2 II IV VI4 adamantines for thermoelectric applications
Name of the conference: European Microscopy Congress 2012 (EMC2012)
Type of participation: 'Participatory - poster
City of event: Manchester, United Kingdom
Date of event: 2012
R. Zamani; M. Ibáñez; W. Li; D. Cadavid; J. R. Morante; A. Cabot; J. Arbiol.
- 108** **Title of the work:** Bandgap modulation in semiconductor nanowires: nanoscale overview
Name of the conference: Nanowires11 (NW11)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Plomari - Lesvos, Greece
Date of event: 14/06/2011
Organising entity: Foundation for Research & Technology, Hellas (FORTH) **Type of entity:** Foundation
City organizing entity: Greece
Jordi Arbiol.
- 109** **Title of the work:** Bandgap modulation in semiconductor nanowires: nanoscale overview
Name of the conference: 473. WE-Heraeus-Seminar on III-V Nanowires: Growth, Properties, and Applications
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Bad Honnef, Germany
Date of event: 22/02/2011
Organising entity: WILHELM UND ELSE HERAEUS-STIFTUNG **Type of entity:** Foundation
City organizing entity: Germany
Jordi Arbiol.
- 110** **Title of the work:** Aberration corrected stem-eels studies of transmission metal oxides.
Name of the conference: Microscopy at the Frontiers of Science (MFS2011)
Type of participation: Participatory - oral communication
City of event: Aveiro, Portugal
Date of event: 2011
J. Gazquez; R. Guzman; J. Arbiol; A. Llordes; T. Puig; X. Obradors; W. Luo; M. P. Oxley; M. Prange; M. A. Torija; M. Sharma; C. Leighton; S. T. Pantelides; S. J. Pennycook; M. Varela.
- 111** **Title of the work:** Anomalous Holz Lines Splitting Induced by Ge Domes on Si.
Name of the conference: Microscopy at the Frontiers of Science (MFS2011)
Type of participation: 'Participatory - poster
City of event: Aveiro, Portugal
Date of event: 2011
A. Benedetti; J. Arbiol; A. Bernardi; I. Alonso.
- 112** **Title of the work:** Carrier Confinement in GaN/AlGaN Nanowire Heterostructures
Name of the conference: E-MRS Spring Meeting 2011
Type of participation: Participatory - oral communication
City of event: Nice, France



Date of event: 2011

Joerg Teubert; Florian Furtmayr; Pascal Becker; Sònia Conesa-Boj; Sònia Estradé; Jordi Arbiol; Joan Ramon Morante; Martin Eickhoff.

- 113 Title of the work:** InAs quantum dots on the facets of GaAs nanowires for the improvement of NW based solar cells: nanoscale overview
Name of the conference: E-MRS Spring Meeting 2011
Type of participation: Participatory - oral communication
City of event: Nice, France
Date of event: 2011
J. Arbiol; E. Uccelli; J.R. Morante; A. Fontcuberta i Morral.
- 114 Title of the work:** Insight on the crystalline matching in SnO₂/TiO₂ based core-shell nanowires for energy and sensor applications
Name of the conference: E-MRS Spring Meeting 2011
Type of participation: 'Participatory - poster
City of event: Nice, France
Date of event: 2011
R. Zamani; F. Hernández-Ramírez; J. Pan; T. Fischer; S. Mathur; J.R. Morante; J. Arbiol.
- 115 Title of the work:** Nucleation Mechanisms of Self-Catalyzed GaAs Nanowires on Silicon
Name of the conference: MRS Fall Meeting 2011
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2011
E. Russo-Averchi; J. Arbiol; E. Uccelli; P. Krogstrup; J. Nygard; J. R. Morante; A. Fontcuberta i Morral.
- 116 Title of the work:** Polytypic transformation induced by random twinning in ZnTe nanowires: atomic scale approach and polarity study.
Name of the conference: Microscopy at the Frontiers of Science (MFS2011)
Type of participation: Participatory - oral communication
City of event: Aveiro, Portugal
Date of event: 2011
M. de la Mata; M. I. B. Utama; F. J. Belarre; Q. Zhang; C. Magén; Q. Xiong; J. Arbiol.
- 117 Title of the work:** Sol-Gel Synthesis and Oxygen Storage Properties of Ceria-Zirconia Nanocrystals with Extended Persistence of the Cubic Phase
Name of the conference: E-MRS Spring Meeting 2011
Type of participation: Participatory - oral communication
City of event: Nice, France
Date of event: 2011
Mauro Epifani; Teresa Andreu; Sara Abdollahzadeh-Ghom; Jordi Arbiol; Joan R. Morante.
- 118 Title of the work:** Solution Derived YBCO-(Y₂O₃/BaZrO₃/Ta-BASED) Nanocomposite Films: Nanostructure Study by Means of Aberration Corrected Scanning Transmission Electron Microscopy.
Name of the conference: Microscopy at the Frontiers of Science (MFS2011)
Type of participation: 'Participatory - poster
City of event: Aveiro, Portugal
Date of event: 2011
R. Guzman; J. Gazquez; S. Ye; M. Coll; A. Llordes; F. J. Belarre; A. Palau; S. Ricart; C. Magen; T. Puig; X. Obradors; J. Arbiol.



- 119 Title of the work:** Stranski-Krastanov InAs Quantum Dots on the Facets of GaAs Nanowires
Name of the conference: MRS Spring Meeting 2011
Type of participation: Participatory - oral communication
City of event: San Francisco, United States of America
Date of event: 2011
Jordi Arbiol; Emanuelle Uccelli; Joan Ramon Morante; Anna Fontcuberta i Morral.
- 120 Title of the work:** Structural and morphological changes in I2 II IV VI4 adamantines for thermoelectric applications.
Name of the conference: Microscopy at the Frontiers of Science (MFS2011)
Type of participation: Participatory - oral communication
City of event: Aveiro, Portugal
Date of event: 2011
R. Zamani; M. Ibáñez; D. Cadavid; J.R. Morante; A. Cabot; J. Arbiol.
- 121 Title of the work:** Synthesis of TiO₂/V₂O₅ core/shell nanocrystals for supercapacitors
Name of the conference: E-MRS Spring Meeting 2011
Type of participation: Participatory - oral communication
City of event: Nice, France
Date of event: 2011
T. Chávez-Capilla; M. Epifani; T. Andreu; R. Zamani; J. Palma; J. Arbiol; P. Siciliano; J.R. Morante; R. Díaz.
- 122 Title of the work:** The Challenging Microstructure of Trifluoroacetate-YBa₂Cu₃O_{7-x} Nanocomposites
Name of the conference: MRS Spring Meeting 2011
Type of participation: Participatory - oral communication
City of event: San Francisco, United States of America
Date of event: 2011
Jaume Gazquez; Jordi Arbiol; Roger Guzman; Patricia Abellan; Felip Sandiumenge; Maria Varela; Anna Llordes; Susagna Ricart; Teresa Puig; Xavier Obradors.
- 123 Title of the work:** Three-Dimensional Multiple-Order Twinning of Self-Catalyzed GaAs Nanowires on Si Substrates
Name of the conference: MRS Fall Meeting 2011
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2011
J. Arbiol; E. Uccelli; C. Magen; P. Krogstrup; E. Russo-Averchi; M. Heiss; G. Mugny; F. Morier-Genoud; J. Nygard; J. R. Morante; A. Fontcuberta i Morral.
- 124 Title of the work:** Three-dimensional multiple-order twinning in semiconductor nanowires: influence on the macroscopical growth morphology
Name of the conference: Microscopy at the Frontiers of Science (MFS2011)
Type of participation: Participatory - oral communication
City of event: Aveiro, Portugal
Date of event: 2011
J. Arbiol; M. de la Mata; E. Uccelli; C. Magen; E. Russo-Averchi; M. Heiss; G. Mugny; J. R. Morante; A. Fontcuberta i Morral.



- 125** **Title of the work:** Overview: New Possibilities for Materials Science through Advanced Electron Microscopy
Name of the conference: Transmission Electron Microscopy: Advanced Applications for Materials Science and Nanotechnology (JTEM2010)
Type of event: Workshop **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Bellaterra, Catalonia, Spain
Date of event: 25/10/2010
Organising entity: Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency
City organizing entity: Spain
Jordi Arbiol.
- 126** **Title of the work:** Advanced Electron Microscopy Techniques applied to nanostructured materials: nanometrology solutions for nanoscience
Name of the conference: Nanomaterials for Energy and Biotechnology Meeting II
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Haifa, Israel
Date of event: 26/05/2010
Organising entity: Technion – Israel Technology Institute **Type of entity:** University Research Institute
City organizing entity: Haifa, Israel
Jordi Arbiol.
- 127** **Title of the work:** Wurtzite/Zinc-blende crystal domains in semiconductor nanowires: correlation between electron nanoscopy and optical advanced tools
Name of the conference: Workshop of Advanced Transmission Electron Microscopy (WATEM 2010)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Zaragoza, Aragon, Spain
Date of event: 12/05/2010
Organising entity: Universidad de Zaragoza **Type of entity:** University
City organizing entity: Zaragoza, Aragon, Spain
Jordi Arbiol.
- 128** **Title of the work:** Direct Correlation of Structural and Optical Properties in Wurtzite/Zinc-blende GaAs Nanowire Heterostructures
Name of the conference: MRS Fall Meeting 2010
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2010
M. Heiss; S. Conesa-Boj; E. Uccelli; F. Peiro; J. Morante; J. Arbiol; A. Fontcuberta i Morral.
- 129** **Title of the work:** InAs quantum dot arrays decorating the facets of GaAs nanowires
Name of the conference: MRS Fall Meeting 2010
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2010
J. Arbiol; E. Uccelli; J.R. Morante; A. Fontcuberta i Morral.



- 130** **Title of the work:** Insight on the crystalline matching between Ti1-xVxO2 shell and SnO2 core in coaxial nanowires
Name of the conference: MRS Fall Meeting 2010
Type of participation: 'Participatory - poster
City of event: Boston, United States of America
Date of event: 2010
R. Zamani; F. Hernández-Ramírez; S. Mathur; J.R. Morante; J. Arbiol.
- 131** **Title of the work:** Wurtzite/Zinc-blende crystal domains in group IV and III-V nanowires: implications on the physical properties
Name of the conference: MRS Fall Meeting 2009
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote talk
City of event: Boston, United States of America
Date of event: 30/11/2009
Organising entity: Materials Research Society (MRS)
City organizing entity: United States of America
Jordi Arbiol; Sonia Conesa-Boj; Sonia Estrade; Francesca Peiro; Joan R. Morante.
- 132** **Title of the work:** Electron Nanoscopy Advanced Techniques Applied to the Characterization of Semiconductor Nanowires Complex Heterostructures
Name of the conference: Nanomaterials for Energy and Biotechnology
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: San Sebastián, Basque Country, Spain
Date of event: 25/11/2009
Organising entity: ASOCIACION CIC NANOGUNE
Jordi Arbiol.
- 133** **Title of the work:** Bandgap Engineering of Semiconductor Nanowires: From Axial and Coaxial Quantum Wells to Local Stacking Transformations in Structure
Name of the conference: Joint Congress of the Spanish and Portuguese Microscopy Societies 2009
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - invited/keynote talk
City of event: Segovia, Spain
Date of event: 18/06/2009
Organising entity: Sociedad de Microscopía de España (SME) **Type of entity:** Associations and Groups
City organizing entity: Spain
Jordi Arbiol; S. Conesa-Boj; S. Estradé; J.M. Rebled; D. Spirkoska; M. Heigoldt; M. Heiss; M.H. Gass; A.L. Bleloch; G. Abstreiter; A. Fontcuberta i Morral; F. Peiro; J.R. Morante.
- 134** **Title of the work:** Alternative catalytic materials for the growth of Si and Ge Nanowires.
Name of the conference: MRS Fall Meeting 2009
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2009
Sonia Conesa-Boj; Sonia Estrade; Ilaria Zardo; Ying Xiang; Pere Roca i Cabarrocas; Linwei Yu; Linyou Y. Cao; Mark Brongersma; Francesca Peiro; Joan Ramon Morante; Anna Fontcuberta i Morral; Jordi Arbiol.



- 135** **Title of the work:** Appearance of Hexagonal and Twinned-cubic Phase Domains in Silicon Nanowires Induced by Different Types of Catalytic Seeds.
Name of the conference: MRS Spring Meeting 2009
Type of participation: Participatory - oral communication
City of event: San Francisco, United States of America
Date of event: 2009
Conesa-Boj, S.; Estradé, S.; Zardo, I.; Morgan, C.; Fontcuberta i Morral, A.; Peiró, F.; Arbiol, J.; Morante, J.R.
- 136** **Title of the work:** Ga-assisted MBE growth of GaAs nanowire heterostructures.
Name of the conference: GdR Nanofils et Nanotubes Semiconducteurs - Workshop 2009
Type of participation: 'Participatory - poster
City of event: Grenoble,
Date of event: 2009
Uccelli, E.; Zardo, I.; Arbiol, J.; Spirkoska, D.; Conesa-Boj, S.; Estradé, S.; Peiró, F.; Morante, J.R.; Abstreiter, G.; Fontcuberta i Morral, A.
- 137** **Title of the work:** HRTEM and EELS analysis of Axial Quantum Wells in GaN/AlN Heterostructured Nanowires
Name of the conference: Joint Congress of the Spanish and Portuguese Microscopy Societies
Type of participation: 'Participatory - poster
City of event: Segovia, Spain
Date of event: 2009
Conesa-Boj, S.; Arbiol, J.; Furtmayr, F.; Stark, C.; Schäfer, S.; Stutzmann, M.; Eickhoff, M.; Peiró, F.; Morante, J.R.
- 138** **Title of the work:** Triple twin domains in Mg doped GaN Wurtzite Nanowires: Structure and electronic properties of this Zinc-Blende-like stacking.
Name of the conference: Microscopy of Semiconducting Materials
Type of participation: Participatory - oral communication
City of event: Oxford, United Kingdom
Date of event: 2009
Arbiol, J.; Estradé, S.; Prades, J. D.; Furtmayr, F.; Stark, C.; Lauferd, A.; Stutzmann, M.; Eickhoff, M.; Gass, M. H.; Bleloch, A. L.; Peiró, F.; Morante, J. R.,.
- 139** **Title of the work:** HREELS and HRTEM Analysis of the Mg Doped GaN Nanowires: Consequences on the Electronic and Optoelectronic Properties
Name of the conference: MRS Fall Meeting 2008
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2008
Arbiol, J.; Estrade, S.; Daniel Prades, J.; Cirera, A.; Peiro, F.; Furtmayr, F.; Eickhoff, M.; H Gass, M.; Bleloch, A.L.; Ramon Morante, J.
- 140** **Title of the work:** On the Nucleation Stage of GaAs NWs and GaAs/AlGaAs Prismatic Quantum Heterostructures Grown by Ga-Assisted Molecular Beam Epitaxy.
Name of the conference: MRS Spring Meeting 2008
Type of participation: Participatory - oral communication
City of event: San Francisco, United States of America
Date of event: 2008
Arbiol, J.; Fontcuberta i Morral, A.; Colombo, C.; Spirkoska, D.; Abstreiter, G.; Morante, J.R.



- 141** **Title of the work:** Analysis of phase boundary defects on high-temperature Si NWs grown on silica amorphous substrates: HRTEM vs EELS low loss spectra
Name of the conference: Microscopy of Semiconducting Materials (2-5 abril 2007)
Type of participation: Participatory - oral communication
City of event: Cambridge, United Kingdom
Date of event: 04/2007
Arbiol, J.; Estrade, S.; Peiro, F.; Fontcuberta i Morral, A.; Morante, J.
- 142** **Title of the work:** Estudio por HRTEM y EELS de Nanohilos de (Al)GaAs con y sin Heteroestructura a partir de Semillas Catalíticas de Ga.
Name of the conference: XXIII Reunión Bienal de la Sociedad de Microscopía de España (SME XXIII)
Type of participation: Participatory - oral communication
City of event: Bilbao, Spain
Date of event: 2007
Organising entity: Sociedad de Microscopía de España (SME) **Type of entity:** Associations and Groups
City organizing entity: Spain
Arbiol, J.; Estradé, S.; Spirkoska, D.; Fontcuberta i Morral, A.; Peiró, F.; Abstreiter, G.; Morante, J. R.
- 143** **Title of the work:** Propiedades Estructurales y Discusión del Modelo de Crecimiento en Nanohilos de Si con Heteroestructura Cúbica/Hexagonal (Si I/Si IV).
Name of the conference: XXIII Reunión Bienal de la Sociedad de Microscopía de España (SME XXIII)
Type of participation: Participatory - oral communication
City of event: Bilbao, Spain
Date of event: 2007
Organising entity: Sociedad de Microscopía de España (SME) **Type of entity:** Associations and Groups
City organizing entity: Spain
Arbiol, J.; Fontcuberta i Morral, A.; Estradé, S.; Peiró, F.; Kalache, B.; Roca i Cabarrocas, P.; Abstreiter, G.; Morante, J. R.
- 144** **Title of the work:** Wurtzite Phase on Si NWs
Name of the conference: E-MRS Spring Meeting 2007
Type of participation: Participatory - oral communication
City of event: Strasbourg, France
Date of event: 2007
Arbiol, J.; Estradé, S.; Peiró, F.; Fontcuberta i Morral, A.; Morante, J. R.
- 145** **Title of the work:** Detailed study on the structure of silicon nanowires synthesized on amorphous silica substrates
Name of the conference: E-MRS Spring Meeting 2006
Type of participation: Participatory - oral communication
City of event: Nice, France
Date of event: 2006
Arbiol, J.; Fontcuberta i Morral, A.; Kalache, Billel; Roca i Cabarrocas, P.; Morante, J. R.
- 146** **Title of the work:** Work Function as a Useful Feature for Development of SnO₂ Nanowires Based Gas Sensing Devices
Name of the conference: IEEE Sensors 2006
Type of participation: Participatory - oral communication
City of event: Daegu, Republic of Korea
Date of event: 2006



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CURRÍCULUM VITAE NORMALIZADO

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Arbiol, J.; Bianchi, S.; Comini, E.; Faglia, G.; Morante, J. R.; Sberveglieri, G.

- 147** **Title of the work:** Análisis HRTEM y EELS del sistema binario nanoestructurado SnO₂/MoO₃
Name of the conference: XXII Reunión Bienal de la Sociedad de Microscopía de España (SME XXII)
Type of participation: Participatory - oral communication
City of event: Granada, Spain
Date of event: 2005
Organising entity: Sociedad de Microscopía de España (SME) **Type of entity:** Associations and Groups
City organizing entity: Spain
Arbiol, J.; Morante, J. R.; Bouvier, P.; Pagnier, T.; Rumyantseva, M.; Kovalenko, V.; Gaskov, A.

- 148** **Title of the work:** Final configuration of magnetic Co nanoparticles depending on the nature of the capping layer from high resolution transmission electron microscopy
Name of the conference: 2nd NanoSpain Workshop
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2005
Arbiol, J.; Peiró, F.; Cornet, A.; Clavero, C.; Huttel, Y.; Cebollada, A.; Armelles, G.

- 149** **Title of the work:** HRTEM and EELS Analysis of Non-Cassiterite SnO₂ Nanowires for Nanosized Gas Sensors
Name of the conference: 2nd NanoSpain Workshop
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2005
Arbiol, J.; Morante, J.R.; Comini, E.; Faglia, G.; Sberveglieri, G.

- 150** **Title of the work:** Organización de las vacantes de oxígeno en el conductor iónico La₂Mo₂O₉ a baja temperatura
Name of the conference: XXII Reunión Bienal de la Sociedad de Microscopía de España (SME XXII)
Type of participation: Participatory - oral communication
City of event: Granada, Spain
Date of event: 2005
Organising entity: Sociedad de Microscopía de España (SME) **Type of entity:** Associations and Groups
City organizing entity: Spain
Arbiol, J.; Tarancón, A.; Dezanneau, G.; Morata, A.; Peiró, F.; Morante, J. R.; Erni, R.; Browning, N. D.

- 151** **Title of the work:** Organization of Oxygen Vacancies in low-temperature La₂Mo₂O₉ Ion Conductor
Name of the conference: Conferencia de Dispositivos Electrónicos 2005 (CDE 2005)
Type of participation: Participatory - oral communication
City of event: Tarragona, Spain
Date of event: 2005
Arbiol, J.; Tarancón, A.; Dezanneau, G.; Morata, A.; Peiró, F.; Morante, J.R.; Erni, R.; Browning, N.D.

- 152** **Title of the work:** Pbcn Orthorhombic SnO₂ Nanowires for Nanosized Gas Sensors Characterized by HRTEM and EELS
Name of the conference: E-MRS Spring Meeting 2005
Type of participation: Participatory - oral communication
City of event: Strasbourg, France



Date of event: 2005

Arbiol, J.; Morante, J.R.; Comini, E.; Faglia, G.; Sberveglieri, G.

- 153 Title of the work:** SnO₂/MoO₃-Nanostructure and Alcohol Detection
Name of the conference: Eurosensors XIX
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2005
Arbiol, J.; Morante, J.R.; Bouvier, P.; Pagnier, T.; Makeeva, E.; Rumyantseva, M.; Gaskov, A.
- 154 Title of the work:** TEM 3D Tomography of Noble Metal Nanowires Growth inside SiO₂ Mesoporous Aggregates
Name of the conference: MRS Spring Meeting 2004
Type of participation: Participatory - oral communication
City of event: San Francisco, United States of America
Date of event: 04/2004
Arbiol, J.; Rossinyol E.; Cabot, A.; Peiró, F.; Cornet, A.; Morante, J.R.
- 155 Title of the work:** HRTEM / EELS Analysis, Structural Characterization and Sensor Performances of Hydrothermal Nano-TiO₂
Name of the conference: MRS Fall Meeting 2004
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2004
Ruiz, A.M.; Arbiol, J.; Cornet, A.; Shimanoe, K.; Morante, J.R.; Yamazoe, N.
- 156 Title of the work:** Nanostructural HRTEM, HREELS and HAADF characterization of the La₂Mo₂O₉
Name of the conference: E-MRS Fall Meeting 2004
Type of participation: Participatory - oral communication
City of event: Warsaw, Poland
Date of event: 2004
Arbiol, J.; Tarancón, A.; Dezanneau, G.; Morata, A.; Peiró, F.; Morante, J. R.; Erni, R.; Browning, N. D.
- 157 Title of the work:** SnO₂ : Fe₂O₃ Nanostructured System as Semiconductor Gas Sensor Material
Name of the conference: MRS Fall Meeting 2004
Type of participation: Participatory - oral communication
City of event: Boston, United States of America
Date of event: 2004
Arbiol, J.; Morante, J.R.; Rumyantseva, M.; Kovalenko V.; Gaskov, A.
- 158 Title of the work:** A Tem Study of the Formation of Noble Metal Nanowires by Using Nanostructured Mesoporous Silica Templates.
Name of the conference: TNT 2003 'Trends in Nanotechnology'
Type of participation: Participatory - oral communication
City of event: Salamanca, Spain
Date of event: 2003
Arbiol, J.; Rossinyol, E.; Cabot, A.; Peiró, F.; Cornet, A.; Morante, J. R.; Fanglin C.; Liu, M.
- 159 Title of the work:** Estudio por HRTEM y EELS del Sistema Nanoestructurado SnO₂ : Fe₂O₃
Name of the conference: XXI Reunión Bial de la Sociedad de Microscopía de España (SME XXI)
Type of participation: Participatory - oral communication



City of event: San Fernando, Spain

Date of event: 2003

Arbiol, J.; Peiró, F.; Cornet, A.; Morante, J. R.; Romyantseva, M.; Gaskov, A.

160 Title of the work: Noble metal distribution in mesoporous silica as a selective active filter for semiconductor gas sensors.

Name of the conference: Microscopy of Semiconducting Materials XIII (MSM XIII)

Type of participation: Participatory - oral communication

City of event: Cambridge, United Kingdom

Date of event: 2003

Arbiol, J.; Cabot, A.; Morante, J.R.; Chen, F.; Liu, M.

161 Title of the work: Reconstrucción 3D Mediante Tomografía TEM del Crecimiento de Nanohilos de Metales Nobles en Agregados Mesopóricos de SiO₂.

Name of the conference: XXI Reunión Bienal de la Sociedad de Microscopía de España (SME XXI)

Type of participation: Participatory - oral communication

City of event: San Fernando, Spain

Date of event: 2003

Arbiol, J.; Rossinyol, E.; Cabot, A.; Peiró, F.; Cornet, A.; Morante, J. R.

162 Title of the work: HRTEM y tratamiento digital de imágenes como herramientas indispensables en el creciente mundo de las nanotecnologías: aplicación a la caracterización de nanosensores de gas

Name of the conference: II Reunión Nacional de Física del Estado Sólido (GEFES 2002)

Type of event: Conference

Geographical area: National

Type of participation: Participatory - invited/keynote talk

City of event: Calella, Catalonia, Spain

Date of event: 2002

Organising entity: Grupo Especializado de Física del Estado Sólido

Type of entity: Associations and Groups

City organizing entity: Spain

Jordi Arbiol; A. Cirera; F. Peiro; A. Cornet; J.R. Morante; J.J. Delgado; J.J. Calvino.

163 Title of the work: Computer Image HRTEM Simulation of Catalytic Nanoclusters on Semiconductor Gas Sensor Materials Supports

Name of the conference: 9th International Conference on Defects - Recognition, Imaging and Physics Semiconductors (DRIP IX)

Type of participation: Participatory - oral communication

City of event: Rimini, Italy

Date of event: 2001

Arbiol, J.; Peiró, F.; Cornet, A.; Morante, J.R.; Pérez-Omil, J.A.; Calvino, J.J.

164 Title of the work: HRTEM Analysis of the In-situ and Ex-situ Reduction Processes on Pd/SnO₂ Semiconductor Gas Sensors Samples

Name of the conference: Microscopy 2001

Type of participation: Participatory - oral communication

City of event: Barcelona, Spain

Date of event: 2001

Arbiol, J.; Díaz, R.; Cirera, A.; Peiró, F.; Cornet, A.; Morante, J.R.; Sanz, F.; Mira, C.; Delgado, J.J.; Blanco, G.; Calvino, J.J.



- 165** **Title of the work:** Pt-Nanoclusters as Surface Catalytics on Crystalline TiO₂
Name of the conference: Microscopy 2001
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2001
Arbiol, J.; Ruiz, A.; Cirera, A.; Peiró, F.; Cornet, A.; Morante, J.R.; Alimoussa, A.; Casanove, M.J.
- 166** **Title of the work:** Análisis in-situ de la conductancia de nanopartículas cristalinas de SnO₂ en presencia de una atmósfera oxidante o reductora por espectroscopia túnel
Name of the conference: II Congreso español de Microscopía de Fuerzas y Efecto Túnel 2000
Type of participation: Participatory - oral communication
City of event: Santiago de Compostela, Spain
Date of event: 2000
Arbiol, J.; Gorostiza, P.; Cirera, A.; Cornet, A.; Morante, J.R.
- 167** **Title of the work:** Crecimiento epitaxial de capas de InAlAs E InGaAs sobre sustratos de InP con orientación no convencional
Name of the conference: XIX Reunión Bienal de la Sociedad Española de Microscopía Electrónica (SME XIX)
Type of participation: Participatory - oral communication
City of event: Murcia, Spain
Date of event: 1999
Organising entity: Sociedad Española de Microscopía Electrónica (SME) **Type of entity:** Associations and Groups
City organizing entity: Spain
Arbiol, J.; Peiró, F.; Cornet, A.; Morante, J.R.

Works submitted to national or international seminars, workshops and/or courses

- 1** **Title of the work:** Hybrid Nanowire Based Quantum Networks at Atomic Scale: from growth mechanisms to properties
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Delft, Holland
Date of event: 26/06/2019
Organising entity: Microsoft Quantum Lab - Delft
Jordi Arbiol.
- 2** **Title of the work:** A close look to the atoms: a journey to the nanoworld
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Düsseldorf, Germany
Date of event: 26/02/2019
Organising entity: trivago Academies
Jordi Arbiol.



- 3** **Title of the work:** Energy Nanomaterials: a close look to their atomic scale structure and the influence on their properties at the nanoscale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Cambridge, United States of America
Date of event: 28/11/2018
Organising entity: Massachusetts Institute of Technology (MIT)
Jordi Arbiol.
- 4** **Title of the work:** Free standing nanostructures at atomic scale: from growth mechanisms to properties at the nanoscale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Jülich, Germany
Date of event: 18/01/2018
Organising entity: Ernst Ruska-Centre for Microscopie and Spectroscopie with Electrons, Forschungszentrum Jülich GmbH
Jordi Arbiol.
- 5** **Title of the work:** Microscòpies Electròniques: com entendre i avançar en la ciència a partir de veure'n els petits detalls
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Barcelona,
Date of event: 19/12/2017
Organising entity: Societat Catalana de Química (SCQ)
Jordi Arbiol.
- 6** **Title of the work:** A close look to the atoms: a journey to the nanoworld through advanced electron microscopy
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Tarragona,
Date of event: 17/11/2017
Organising entity: Universitat Rovira i Virgili (URV)
Jordi Arbiol.
- 7** **Title of the work:** Free-standing nanostructures at atomic scale: from growth mechanisms to local properties at the nanoscale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Bremen, Germany
Date of event: 02/11/2017
Organising entity: Universität Bremen
Jordi Arbiol.



- 8** **Title of the work:** Non-planar Nanostructures at Atomic Scale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 17/10/2016
Organising entity: Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC)
Jordi Arbiol.
- 9** **Title of the work:** Non-planar Nanostructures at Atomic Scale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Palaiseau, France
Date of event: 10/10/2016
Organising entity: Ecole Polytechnique
Jordi Arbiol.
- 10** **Title of the work:** Non-planar Nanostructures at Atomic Scale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Copenhagen, Denmark
Date of event: 07/06/2016
Organising entity: Niels Bohr Institute (NBI)
Jordi Arbiol.
- 11** **Title of the work:** Non-planar Nanostructures at Atomic Scale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Beersheba, Israel
Date of event: 29/05/2016
Organising entity: Ben Gurion University of the Negev
Jordi Arbiol.
- 12** **Title of the work:** Non-planar Nanostructures at Atomic Scale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Tarragona,
Date of event: 23/05/2016
Organising entity: ICIQ – Institut Català d'Investigació Química
Jordi Arbiol.
- 13** **Title of the work:** Non-planar Nanostructures at Atomic Scale
Name of the event: Invited Seminar
Type of event: Seminar
Corresponding author: Yes
City of event: Eindhoven, Holland
Date of event: 01/09/2015



Organising entity: Technische Universiteit Eindhoven, TU/e
Jordi Arbiol.

14 Title of the work: Direct correlation between optical properties at sub-nanometer scale and structure at atomic scale, in-situ performance in a STEM

Name of the event: Invited Seminar

Type of event: Seminar

Corresponding author: Yes

City of event: Austin, United States of America

Date of event: 05/05/2015

Organising entity: University of Texas at Austin
Jordi Arbiol.

15 Title of the work: Self-Assembled 0D, 1D and 2D Quantum Structures in-a-Nanowire: energy, light and sensing applications

Name of the event: Invited Seminar

Type of event: Seminar

Geographical area: European Union

City of event: Manchester, United Kingdom

Date of event: 20/10/2014

End date: 20/10/2014

Organising entity: University of Manchester

Type of entity: University

City organizing entity: Manchester, United Kingdom
Jordi Arbiol.

16 Title of the work: Exploring the optical properties of nanomaterials at sub-nanometer scale with a direct correlation to its structure at atomic scale

Name of the event: Invited Seminar

Type of event: Seminar

Geographical area: European Union

City of event: Prague, Czech Republic

Date of event: 11/09/2014

End date: 11/09/2014

Organising entity: Institute of Physics ASCR, v. v. i. **Type of entity:** University Research Institute (FZU)

City organizing entity: Prague, Czech Republic
Jordi Arbiol. 11/09/2014,

17 Title of the work: Direct correlation between optical properties at sub-nanometer scale and structure at atomic scale, in-situ performance in a STEM

Name of the event: Invited Seminar

City of event: Cerdanyola del Vallès,

Date of event: 16/07/2014

Organising entity: CELLS-ALBA Synchrotron

Type of entity: Innovation and Technology Centres

Jordi Arbiol.

18 Title of the work: Direct correlation between optical properties at sub-nanometer scale and structure at atomic scale, in-situ performance in a STEM

Name of the event: Invited Seminar

City of event: Göttingen, Germany

Date of event: 08/05/2014



Organising entity: Georg-August-Universität
Göttingen
City organizing entity: Göttingen, Germany
Jordi Arbiol.

Type of entity: University

- 19 Title of the work:** Direct correlation between optical properties at sub-nanometer scale and structure at atomic scale, in-situ performance in a STEM
Name of the event: Invited Seminar
City of event: Castelldefels, Catalonia, Spain
Date of event: 26/02/2014
Organising entity: Institut de Ciències Fotòniques
Jordi Arbiol. **Type of entity:** Foundation

- 20 Title of the work:** A close look to the atoms: building up the nanoworld, identifying and manipulating the atoms at the nanoscale
Name of the event: 59th ICREA Colloquium
Type of event: Seminar
Geographical area: National
City of event: Barcelona, Catalonia, Spain
Date of event: 04/02/2014
Organising entity: Institució Catalana de Recerca i
Estudis Avancats
Jordi Arbiol. **Type of entity:** Foundation

- 21 Title of the work:** A Close look to the atoms: a trip to the NanoWorld
Name of the event: Invited Seminar
Type of event: Seminar
Geographical area: National
City of event: Barcelona, Catalonia, Spain
Date of event: 10/10/2013
Organising entity: CiMS-CELLEX
Jordi Arbiol. **Type of entity:** Foundation

- 22 Title of the work:** Self-Assembled Quantum Structures in-a-Nanowire: direct correlation between physical properties and structure at atomic scale
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: Non EU International
City of event: Haifa, Israel
Date of event: 28/05/2013
Organising entity: Technion – Israel Technology
Institute
Jordi Arbiol. **Type of entity:** University Research Institute

- 23 Title of the work:** Self-Assembled Quantum Structures in-a-Nanowire: direct correlation between physical properties and structure at atomic scale
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: Non EU International



City of event: Rehovot, Israel
Date of event: 27/05/2013
Organising entity: Weizmann Institute of Science
City organizing entity: Rehovot, Israel
Jordi Arbiol.

- 24** **Title of the work:** Self-assembled semiconductor 0D, 1D and 2D Quantum Structures in a Nanowire for advanced bandgap modulation: growth, structural modeling and optical properties
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: National
City of event: Bellaterra, Catalonia, Spain
Date of event: 14/03/2013
Organising entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Jordi Arbiol.
- 25** **Title of the work:** Direct Polarity assignment in semiconductor nanowires from atomic resolution dumbbell analysis: influence in the growth mechanisms and electronic and optical properties
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: European Union
City of event: Jülich, Germany
Date of event: 11/03/2013
Organising entity: Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons (ER-C)
City organizing entity: Jülich, Germany
Jordi Arbiol. **Type of entity:** R&D Centre
- 26** **Title of the work:** Direct Polarity assignment in semiconductor nanowires from atomic resolution dumbbell analysis: influence in the growth mechanisms and electronic and optical properties
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: Non EU International
City of event: Singapore, Singapore
Date of event: 04/01/2013
Organising entity: Nanyang Technological University (NTU)
City organizing entity: Singapore, Singapore
Jordi Arbiol. **Type of entity:** University
- 27** **Title of the work:** Veure els àtoms de prop: un viatge al nanomon
Name of the event: Invited Seminar
Type of event: Workshop
Reasons for participation: Upon invitation
Geographical area: National
City of event: Bellaterra, Catalonia, Spain
Date of event: 21/11/2012
Type of entity: State agency



Organising entity: Instituto de Ciencia de los Materiales de Barcelona
Jordi Arbiol.

- 28** **Title of the work:** Veure els àtoms de prop: un viatge al nanomon
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: National
City of event: Molins de Rei, Catalonia, Spain
Date of event: 04/10/2012
Organising entity: Escola Manyanet Molins – Sant Miquel Arcàngel
Type of entity: Foundation
City organizing entity: Molins de Rei, Catalonia, Spain
Jordi Arbiol.
- 29** **Title of the work:** Polarity assignment in ZnTe, GaAs, ZnO and GaN-AlN nanowires from direct dumbbell analysis
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: Non EU International
City of event: Cambridge, United States of America
Date of event: 26/07/2012
Organising entity: Massachussets Institute of Technology (MIT)
Type of entity: University Research Institute
City organizing entity: Cambridge, United States of America
Jordi Arbiol.
- 30** **Title of the work:** Electron Microscopy (Nanoscopy) Advanced Techniques Applied to Nanostructured Materials
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: National
City of event: Bellaterra, Catalonia, Spain
Date of event: 16/04/2010
Organising entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Jordi Arbiol.
- 31** **Title of the work:** Electron Microscopy (Nanoscopy) Advanced Techniques Applied to Nanostructured Materials
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: National
City of event: Bellaterra, Catalonia, Spain
Date of event: 18/01/2010
Organising entity: Instituto de Ciencia de los Materiales de Barcelona
Type of entity: State agency
Jordi Arbiol.



- 32** **Title of the work:** High Angle Angular Dark Field Imaging
Name of the event: 2nd NESPA TEM training course, SCT-UB (Universitat de Barcelona – ICMAB-CSIC)
Type of event: Course
Reasons for participation: Upon invitation
Geographical area: European Union
City of event: Barcelona, Catalonia, Spain
Date of event: 14/05/2009
Organising entity: Universitat de Barcelona
Type of entity: University
Jordi Arbiol.
- 33** **Title of the work:** Transmission Electron Microscopy Advanced Techniques Applied to Semiconductor Nanowires
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: European Union
City of event: Lausanne, Switzerland
Date of event: 06/05/2009
Organising entity: Ecole Polytechnique Fédérale de Lausanne (EPFL)
Type of entity: University
City organizing entity: Lausanne, Switzerland
Jordi Arbiol.
- 34** **Title of the work:** Transmission Electron Microscopy Advanced Techniques Applied to Nanostructured Materials
Name of the event: Invited Seminar
Type of event: Seminar
Reasons for participation: Upon invitation
Geographical area: European Union
City of event: Lausanne, Switzerland
Date of event: 05/05/2009
Organising entity: Ecole Polytechnique Fédérale de Lausanne (EPFL)
Type of entity: University
City organizing entity: Lausanne, Switzerland
Jordi Arbiol.
- 35** **Title of the work:** Electron Tomography
Name of the event: 1st NESPA TEM training course, SCT-UB (Universitat de Barcelona – ICMAB-CSIC)
Type of event: Course
Reasons for participation: Upon invitation
Geographical area: European Union
City of event: Barcelona, Catalonia, Spain
Date of event: 08/05/2008
Organising entity: Universitat de Barcelona
Type of entity: University
Jordi Arbiol.
- 36** **Title of the work:** TEM Sample preparation techniques
Name of the event: 1st NESPA TEM training course, SCT-UB (Universitat de Barcelona – ICMAB-CSIC)
Type of event: Course
Reasons for participation: Upon invitation
Geographical area: European Union



City of event: Barcelona, Catalonia, Spain

Date of event: 06/05/2008

Organising entity: Universitat de Barcelona
Jordi Arbiol.

Type of entity: University

37 Title of the work: Applied Nanotechnology: Sensor, Electronic, Optoelectronic, Magnetic and Medical Applications

Name of the event: Invited Seminar

Type of event: Seminar

Reasons for participation: Upon invitation

Geographical area: Non EU International

City of event: Split, Croatia

Date of event: 13/04/2007

Organising entity: University of Split

City organizing entity: Split, Croatia
Jordi Arbiol.

38 Title of the work: High Angular Annular Dark Field: Z-Contrast at Atomic Scale

Name of the event: Seminar

Type of event: Course

Reasons for participation: Upon invitation

Geographical area: European Union

City of event: Bellaterra, Catalonia, Spain

Date of event: 02/03/2007

Organising entity: Universitat Autònoma de
Barcelona

Jordi Arbiol.

Type of entity: University

39 Title of the work: Transmission Electron Microscopy and related techniques applied to the structural, compositional and morphological analysis of nanostructured materials

Name of the event: Invited Seminar

Type of event: Seminar

Reasons for participation: Upon invitation

Geographical area: European Union

City of event: Garching, Germany

Date of event: 05/05/2006

Organising entity: Walter Schottky Institute

City organizing entity: Garching, Germany
Jordi Arbiol.

Type of entity: University Research Institute

40 Title of the work: El Problema Energètic, veritats i mentides. L'energia solar, l'eòlica i la fusió nuclear d'hidrogen com a alternatives netes?

Name of the event: Invited Seminar

Type of event: Seminar

Reasons for participation: Upon invitation

Geographical area: National

City of event: Molins de Rei, Catalonia, Spain

Date of event: 18/01/2006

Organising entity: Associació Cultural Fòrum XXI

City organizing entity: Molins de Rei, Catalonia, Spain
Jordi Arbiol.

Type of entity: Associations and Groups

Other dissemination activities

- 1** **Title of the work:** Round Table on Future Careers for PhDs
Name of the event: 7th Scientific Meeting of Phd Students at UAB campus
Type of event: Conferences given
Corresponding author: Yes
City of event: Bellaterra,
Date of event: 08/06/2023
Organising entity: Universitat Autònoma de Barcelona
Type of entity: University
Jordi Arbiol.
- 2** **Title of the work:** Interview at RAC1 Radio for the “Noon News”
Name of the event: Interview at RAC1 Radio for the “Noon News” (Informatiu del migdia) and at for the Radio Program “Versió RAC1” about new energy sources: Nuclear Fusion.
Type of event: Media interviews
Corresponding author: Yes
City of event: Barcelona,
Date of event: 13/12/2022
Organising entity: RAC1
Type of entity: Business
Jordi Arbiol. Available on-line at:
<<https://api.audioteca.rac1.cat/embed/1dab6511-6486-45f7-ac24-f64a8fb43d7f>>.
- 3** **Title of the work:** Invited Speaker at the Quantum Careers Symposium
Name of the event: Invited Speaker at the Quantum Careers Symposium organized by The Master in Quantum Science & Technology (UB-UAB-UPC)
Type of event: Conferences given
Corresponding author: Yes
City of event: Barcelona,
Date of event: 08/04/2022
Organising entity: Universitat de Barcelona
Type of entity: University
Jordi Arbiol.
- 4** **Title of the work:** Speaker at the BIST MEETUP 2022
Name of the event: Speaker at the BIST MEETUP 2022 on the BIST Microscopy Initiatives BIST Research Committee Roundtable
Type of event: Conferences given
Corresponding author: Yes
City of event: Barcelona,
Date of event: 05/04/2022
Organising entity: BIST
Jordi Arbiol.
- 5** **Title of the work:** Collaboration with Radio Station RAC1
Name of the event: Collaboration with Radio Station RAC1. Capítol 12: Energies Renovables. RAC1 Oxygen Podcast - Energies Renovables.
Type of event: Media interviews
Corresponding author: Yes
City of event: Barcelona,



Date of event: 18/02/2021

Organising entity: RAC1

Type of entity: Business

Jordi Arbiol. Available on-line at: <<https://www.rac1.cat/rac-mes-1/oxigen>>.

6 Title of the work: Collaboration with Radio Station RAC1

Name of the event: Collaboration with Radio Station RAC1 in the program "El RAC1 de pensar" with the topic "Residu Zero" amb Mònica Usart

Type of event: Media interviews

Corresponding author: Yes

City of event: Barcelona,

Date of event: 28/11/2020

Organising entity: RAC1

Type of entity: Business

Jordi Arbiol. Available on-line at:

<<https://api.audioteca.rac1.cat/embed/5050393b-1a71-4077-a90c-34fae3c84371>>.

7 Title of the work: Interview with Jordi Arbiol on the commemoration of the Nobel Prize in Chemistry 2017

Jordi Arbiol

Name of the event: Press Paper

Corresponding author: Yes

Date of event: 18/01/2019

Type: Popular science article

Jordi Arbiol. En: Revista de la Societat Catalana de Química. 17, pp. 120 - 125. 18/01/2019.

8 Title of the work: Veient els àtoms de prop: un viatge al Nanomon

Name of the event: Invited Seminar Science Week (Setmana de la Ciència)

Type of event: Conferences given

Corresponding author: Yes

City of event: Barberà del Vallès, Barcelona,

Date of event: 07/11/2018

Organising entity: AGAUR and CRP Vallès Occidental II, held at Institut Can Planas

Jordi Arbiol.

9 Title of the work: Veient els àtoms de prop: un viatge al Nanomon

Name of the event: Invited Seminar at 10alamos9 (Festival de Nanociencia y Nanotecnología)

Type of event: Conferences given

Corresponding author: Yes

City of event: Barcelona,

Date of event: 25/04/2017

Organising entity: COSMOCAIXA

Jordi Arbiol.

10 Title of the work: Veient els àtoms de prop: un viatge al Nanomon

Name of the event: Invited Seminar Science Week (Setmana de la Ciència)

Type of event: Conferences given

Corresponding author: Yes

City of event: Sabadell, Barcelona,

Date of event: 16/11/2016

Organising entity: AGAUR and CRP Vallès Occidental I, held at Auditori del Casal Pere Quart

Jordi Arbiol.



- 11** **Title of the work:** Veient els àtoms de prop: un Viatge al Nanomón
Name of the event: Invited Seminar CSIC Mondays of Science
Type of event: Conferences given
Corresponding author: Yes
City of event: Barcelona,
Date of event: 18/04/2016
Organising entity: CSIC
Jordi Arbiol.
- 12** **Title of the work:** La llum a la nanoescala vista des d'un Microscopi Electrònic
Name of the event: Invited Seminar Science Week (Setmana de la Ciència)
Type of event: Conferences given
Corresponding author: Yes
City of event: La Roca del Vallès, Barcelona,
Date of event: 18/11/2015
Organising entity: AGAUR, held at INS La Roca del Vallès
Jordi Arbiol.
- 13** **Title of the work:** La Llum
Name of the event: Invited Seminar International Year of Light
Type of event: Conferences given
Corresponding author: Yes
City of event: Molins de Rei, Barcelona,
Date of event: 26/03/2015
Organising entity: CSIC - School Manyanet Molins
Jordi Arbiol.
- 14** **Title of the work:** Veure els àtoms de prop: UN VIATGE AL NANOMON Fundació OMS
Type of event: Conferences given
Corresponding author: Yes
City of event: Manresa, Spain
Date of event: 21/03/2015
Organising entity: Fundació OMS
Type of entity: Foundation
Jordi Arbiol.
- 15** **Title of the work:** Veure els àtoms de prop: un viatge al Nanomon
Name of the event: Invited Seminar Ciència a les Escoles
Type of event: Conferences given
Corresponding author: Yes
City of event: Badalona, Barcelona,
Date of event: 20/11/2013
Organising entity: AGAUR, held at Col·legi St. Andreu, Badalona
Jordi Arbiol.
- 16** **Title of the work:** Veure els àtoms de prop: un viatge al Nanomon
Name of the event: Invited Seminar to high School Lecturers
Type of event: Conferences given
Corresponding author: Yes
City of event: Badalona, Barcelona,
Date of event: 20/11/2013
Organising entity: AGAUR, held at Col·legi St. Andreu, Badalona



Jordi Arbiol.

- 17** **Title of the work:** Veure els àtoms de prop: un viatge al Nanomon
Name of the event: Invited Seminar Ciència a les Escoles
Type of event: Conferences given
Corresponding author: Yes
City of event: Molins de Rei, Barcelona,
Date of event: 07/11/2013
Organising entity: CSIC - School Manyanet Molins
Jordi Arbiol.
- 18** **Title of the work:** Veure els àtoms de prop: un viatge al Nanomon
Name of the event: Invited Seminar
Corresponding author: Yes
City of event: Bellaterra, Barcelona,
Date of event: 09/10/2013
Organising entity: CiMS-CELLEX
- 19** **Title of the work:** Colaboración en el programa de TV2 Tres14, en el capítulo titulado "Química"
Name of the event: Tres14
Type of event: Media interviews
City of event: Spain
Date of event: 03/10/2010
Organising entity: TELEVISION ESPAÑOLA, S.A.
Jordi Arbiol. "Química".
- 20** **Title of the work:** Colaboración en el programa del Canal 33 QuèQuiCom, en el capítulo titulado "Cosmètica contra el temps"
Name of the event: QuèQuiCom
Type of event: Media interviews
City of event: Catalonia, Spain
Date of event: 13/05/2010
Organising entity: TELEVISIO DE CATALUNYA, S.A.
Jordi Arbiol. "Cosmètica contra el temps".
- 21** **Title of the work:** Nanohilos Semiconductores
Name of the event: Press Paper in Investigación y Ciencia (Spanish version of Scientific American)
Corresponding author: Yes
Date of event: 01/09/2009
Type: Popular science article
Jordi Arbiol. En: Investigación y Ciencia (Spanish version of Scientific American). 2009 - 9, pp. 8 - 9.



R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Member of the Transnational Access Proposal Evaluation Committee (TAPEC) for the EU ESTEEM3 (the European network for electron microscopy)
Affiliation entity: EU H2020 **Type of entity:** Public Research Body
City affiliation entity: Belgium
Start-End date: 01/2019 - 09/2023
- 2** **Committee title:** Chair of the Physics Panel for the international evaluation of the research activities at Palacký University in Olomouc (Czech Republic)
Affiliation entity: Palacký University **Type of entity:** University
City affiliation entity: Czech Republic
Start-End date: 2023 - 2023
- 3** **Committee title:** Expert Panel Member for HORIZON-INFRA-2022 Calls (EU)
Affiliation entity: EU HORIZON **Type of entity:** Public Research Body
City affiliation entity: Belgium
Start-End date: 01/2022 - 12/2022
- 4** **Committee title:** Expert Panel Member for The Research Council of Norway (RCN) (Norway)
Affiliation entity: The Research Council of Norway **Type of entity:** Public Research Body (RCN)
City affiliation entity: Norway
Start-End date: 01/2021 - 12/2022
- 5** **Committee title:** Member of the Evaluation Panel for the German Academic Exchange Service (DAAD)
Affiliation entity: German Academic Exchange Service (DAAD) **Type of entity:** Public Research Body
City affiliation entity: Germany
Start-End date: 01/2017 - 12/2022
- 6** **Committee title:** Scientific Chair of the Project Panel on Condensed Matter and Physical Chemistry (W&T3 FP) for the Flanders Research Foundation (FWO) (Belgium)
Affiliation entity: Flanders Research Foundation **Type of entity:** Foundation (FWO)
City affiliation entity: Belgium
Start-End date: 01/2020 - 12/2020
- 7** **Committee title:** Expert Panel Member for the Flanders Research Foundation (FWO) (Belgium)
Affiliation entity: Flanders Research Foundation **Type of entity:** Foundation (FWO)
City affiliation entity: Belgium
Start-End date: 01/2015 - 12/2020
- 8** **Committee title:** Expert Panel Member for the Foundation for Polish Science (FNP) (Poland)
Affiliation entity: Foundation for Polish Science **Type of entity:** Foundation (FNP)



City affiliation entity: Poland
Start-End date: 01/2017 - 12/2019

- 9** **Committee title:** Member of the Committee to search for an Editor-in-chief of Nano Letters (American Chemical Society - ACS)
Affiliation entity: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City affiliation entity: United States of America
Start-End date: 2019 - 2019
- 10** **Committee title:** Evaluator for the Novo Nordisk Prize 2018
Affiliation entity: Novo Nordisk Foundation **Type of entity:** Foundation
City affiliation entity: Denmark
Start-End date: 2017 - 2017
- 11** **Committee title:** Member of the User Selection Panel (USP) as Expert Advisor to Assess the Project Proposals for the FP7 European I3 ESTEEM2 Project
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: EU FP7
Start-End date: 01/2012 - 12/2016
- 12** **Committee title:** Expert Panel Member for the Fulbright International Scholarships (Fund. LaCaixa)
Affiliation entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Start-End date: 2016 - 2016
- 13** **Committee title:** Editorial Board Member of 'Journal of Nanomaterials'
Start-End date: 2014 - 2015
- 14** **Committee title:** Member of the The Lev Margulis Prize Committee
Primary (UNESCO code): 221103 - Crystal Growth; 230112 - Microscopy
Affiliation entity: Israel Microscopy Society (ISM) **Type of entity:** Associations and Groups
City affiliation entity: Haifa, Israel
Start-End date: 02/03/2014 - 30/04/2014
- 15** **Committee title:** Member of the Evaluation Committee to decide the candidate for the position of Head of the Electron Microscopy Division within the Institut Català de Nanotecnologia (ICN)
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
City affiliation entity: Bellaterra, Catalonia, Spain
Start-End date: 2012 - 2012
- 16** **Committee title:** Member of the Evaluation Committee for the PhD Extraordinary Awards on Materials Science at Universitat Autònoma de Barcelona (UAB): 2008-2009; 2009-2010; 2010-2011
Primary (UNESCO code): 331200 - Materials technology
Affiliation entity: Universitat Autònoma de Barcelona **Type of entity:** University
City affiliation entity: Bellaterra, Catalonia, Spain
Start-End date: 2008 - 2011
- 17** **Committee title:** Advisor in Nanoscience to the Department of Physics at FESB, University of Split, Croatia
Affiliation entity: University of Split **Type of entity:** University
City affiliation entity: Split, Croatia
Start-End date: 2001 - 2010



- 18** **Committee title:** Research Expert Consultant in Negotiation Boards to acquire Electron Microscopes at Instituto de Nanociencia de Aragón - Laboratorio de Microscopías Avanzadas (INA-LMA)
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Instituto de Nanociencia de Aragón - Laboratorio de Microscopías Avanzadas (INA-LMA)
City affiliation entity: Zaragoza, Aragon, Spain
Start-End date: 2006 - 2009
- 19** **Committee title:** Research Expert Consultant in Negotiation Boards to acquire Electron Microscopes at Universidad de Valladolid
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Universidad de Valladolid **Type of entity:** University
City affiliation entity: Castile and León, Spain
Start-End date: 2006 - 2009
- 20** **Committee title:** Research Expert Consultant in Negotiation Boards to acquire Electron Microscopes at Universitat de Barcelona (UB)
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Universitat de Barcelona **Type of entity:** University
Start-End date: 2006 - 2009
- 21** **Committee title:** Advisor in Electron Microscopy at Instituto de Nanociencia de Aragón (INA)
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Universidad de Zaragoza **Type of entity:** University
City affiliation entity: Zaragoza, Aragon, Spain
Start-End date: 2005 - 2009
- 22** **Committee title:** Advisor in Electron Microscopy at Universidad de Valladolid
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Universidad de Valladolid **Type of entity:** University
City affiliation entity: Valladolid, Castile and León, Spain
Start-End date: 2005 - 2009
- 23** **Committee title:** Advisor in Electron Microscopy at Universitat de Barcelona
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Universitat de Barcelona **Type of entity:** University
City affiliation entity: Barcelona, Catalonia, Spain
Start-End date: 2005 - 2009
- 24** **Committee title:** Elected Member of the Physics Faculty Board at Universitat de Barcelona
Affiliation entity: Universitat de Barcelona **Type of entity:** University
Start-End date: 2005 - 2009
- 25** **Committee title:** Editorial Advisory Board member for ACS Measurement Science Au
Affiliation entity: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City affiliation entity: United States of America
Start date: 2021



- 26** **Committee title:** Member of the Internal Assessment Committee (CAI) at the BIST Dolors Aleu Graduate Centre (DAGC) for the BIST Master of Multidisciplinary Research in Experimental Sciences (MMRES).
Affiliation entity: Barcelona Institute of Science and Technology (BIST) **Type of entity:** Foundation
Start date: 2021
- 27** **Committee title:** Editorial Board Member of Nanomaterials
Start date: 2018
- 28** **Committee title:** Member of the Materials Science PhD Program Committee at Univ. Autònoma Barcelona (UAB)
Affiliation entity: Universitat Autònoma de Barcelona **Type of entity:** University
Start date: 2016
- 29** **Committee title:** Member of the Scientific Committee at Centro Nacional de Microscopía Electrónica (CNME), ICTS (large facility)
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Universidad Complutense de Madrid **Type of entity:** University
Start date: 19/09/2013
- 30** **Committee title:** Access Committee Member at INMA-LMA (Instituto de Nanociencia y Materiales de Aragon - Laboratorio de Microscopía Avanzada) Large Facility (ICTS) to Assess the Project Proposals
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Universidad de Zaragoza **Type of entity:** University
City affiliation entity: Zaragoza, Aragon, Spain
Start date: 2013
- 31** **Committee title:** Access Committee Member at LMA-INMA (Zaragoza) to Assess the Project Proposals
Affiliation entity: Universidad de Zaragoza **Type of entity:** University
City affiliation entity: Spain
Start date: 2013
- 32** **Committee title:** Member of the Scientific Committee at Centro Nacional de Microscopía Electrónica (CNME), Universidad Complutense de Madrid (UCM), Spain
Affiliation entity: Universidad Complutense de Madrid **Type of entity:** University
Start date: 2013
- 33** **Committee title:** Research Expert Consultant in Negotiation Boards to acquire Electron Microscopes at Catalonia Institute for Energy Research (IREC)
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Institut de Recerca en Energia de Catalunya (IREC) **Type of entity:** Foundation
City affiliation entity: Sant Adrià de Besós, Catalonia, Spain
Start date: 2009
- 34** **Committee title:** Research Expert Consultant in Negotiation Boards to acquire Electron Microscopes at Institut de Ciència de Materials de Barcelona, (ICMAB-CSIC)
Primary (UNESCO code): 220304 - Electron microscopy
Affiliation entity: Instituto de Ciencia de los Materiales de Barcelona **Type of entity:** State agency



City affiliation entity: Catalonia, Spain

Start date: 2009

35 Committee title: Research Expert Consultant in Negotiation Boards to acquire Electron Microscopes at Institut Català de Nanotecnologia (ICN)

Primary (UNESCO code): 220304 - Electron microscopy

Affiliation entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA

City affiliation entity: Catalonia, Spain

Start date: 2007

Organization of R&D activities

- 1 Title of the activity:** European-Materials Research Society Spring Meeting 2024 (E-MRS Spring 2024 (Symposium Q: Future Photovoltaics based on Earth Abundant Materials))

Type of activity: Symposium Organizer **Geographical area:** European Union

Convening entity: European Materials Research Society (E-MRS) **Type of entity:** Associations and Groups

City convening entity: Strasbourg, France

Type of participation: Organiser

Start-End date: 05/2024 - 05/2024
- 2 Title of the activity:** BIST Winter Symposium on Microscopy, Nanoscopy & Imaging Science 2024 (BSyM 2024)

Type of activity: Workshop co-Chair **Geographical area:** European Union

Convening entity: BIST

City convening entity: Castelldefels, Barcelona

Type of participation: Organiser

Start-End date: 2024 - 2024
- 3 Title of the activity:** BIST Winter Symposium on Microscopy, Nanoscopy & Imaging Science 2023 (BSyM 2023)

Type of activity: Workshop co-Chair **Geographical area:** European Union

Convening entity: BIST

City convening entity: Castelldefels, Barcelona

Type of participation: Organiser

Start-End date: 2023 - 2023
- 4 Title of the activity:** European-Materials Research Society Spring Meeting 2023 (E-MRS Spring 2023) (Symposium T: Frontiers of in-situ materials characterization - from new instrumentation and methods to imaging aided materials design)

Type of activity: Symposium Organizer **Geographical area:** European Union

Convening entity: European Materials Research Society (E-MRS) **Type of entity:** Associations and Groups

City convening entity: Strasbourg, France

Type of participation: Organiser

Start-End date: 2023 - 2023
- 5 Title of the activity:** International Quantum Matter Conference & Expo (QUANTUMatter 2023)

Type of activity: International Scientific Committee **Geographical area:** European Union (ISC)

City convening entity: Madrid, Spain

Type of participation: International Scientific Committee (ISC)

Start-End date: 2023 - 2023

6 Title of the activity: BIST Winter Symposium on Microscopy, Nanoscopy & Imaging Science 2022 (BSyM 2022)

Type of activity: Workshop co-Chair

Geographical area: European Union

Convening entity: BIST

City convening entity: Castelldefels, Barcelona

Type of participation: Organiser

Start-End date: 2022 - 2022

7 Title of the activity: International Conference on Science and Technology of Quantum Matter (QUANTUMatter 2022)

Type of activity: Local Organising Committee

Geographical area: European Union

City convening entity: Barcelona

Type of participation: Organiser

Start-End date: 2022 - 2022

8 Title of the activity: nanoGe Fall Meeting 2022 (MAT-SUS) (Symposium #2DNanoMat: 2D Nanomaterials for Energy and Environmental Applications)

Type of activity: Symposium Organizer

Geographical area: European Union

City convening entity: Barcelona

Type of participation: Organiser

Start-End date: 2022 - 2022

9 Title of the activity: 1st edition of the QUANTUM2021 International Conference (QUANTUM2021)

Type of activity: International Scientific Committee (ISC) **Geographical area:** European Union

City convening entity: Bilbao

Type of participation: International Scientific Committee (ISC)

Start-End date: 2021 - 2021

10 Title of the activity: Applied Nanotechnology and Nanoscience International Conference 2021 (ANNIC 2021)

Type of activity: Chairs Committee Member

Geographical area: European Union

City convening entity: on-line

Type of participation: Organiser

Start-End date: 2021 - 2021

11 Title of the activity: BIST Winter Symposium on Microscopy, Nanoscopy & Imaging Science 2021 (BSyM 2021)

Type of activity: Workshop co-Chair

Geographical area: European Union

Convening entity: BIST

City convening entity: Castelldefels, Barcelona

Type of participation: Organiser

Start-End date: 2021 - 2021

12 Title of the activity: Microscopy at the Frontiers of Science 2021 (MFS 2021)

Type of activity: Congress co-Chair

Convening entity: Spanish Microscopy Society (SME)

Type of entity: Associations and Groups



City convening entity: on-line
Type of participation: Organiser
Start-End date: 2021 - 2021

- 13** **Title of the activity:** Quantum Information in Spain 2021 Workshop (ICE-6)
Type of activity: Member of the Scientific Committee **Geographical area:** European Union
City convening entity: on-line
Type of participation: Member of the Scientific Committee
Start-End date: 2021 - 2021
- 14** **Title of the activity:** 12th Asia Pacific Microscopy Conference (APMC-12)
Type of activity: Member of the International Advisory Committee **Geographical area:** Non EU International
City convening entity: Hyderabad, India
Type of participation: Member of the International Advisory Committee
Start-End date: 2020 - 2020
- 15** **Title of the activity:** 2020 5th International Conference on Smart Engineering Materials (ICSEM 2020)
Type of activity: Congress co-Chair **Geographical area:** Non EU International
City convening entity: Singapore, Singapore
Type of participation: Organiser
Start-End date: 2020 - 2020
- 16** **Title of the activity:** BIST Winter Symposium on Microscopy, Nanoscopy & Imaging Science 2020 (BSyM 2020)
Type of activity: Workshop co-Chair **Geographical area:** European Union
Convening entity: BIST
City convening entity: Castelldefels, Barcelona
Type of participation: Organiser
Start-End date: 2020 - 2020
- 17** **Title of the activity:** AnalytiX-2019
Type of activity: Member of the Scientific Advisory Committee (SAB) **Geographical area:** Non EU International
City convening entity: Singapore, Singapore
Type of participation: Member of the Scientific Advisory Committee (SAB)
Start-End date: 2019 - 2019
- 18** **Title of the activity:** Applied Nanotechnology and Nanoscience International Conference 2019 (ANNIC 2019)
Type of activity: Chairs Committee Member
City convening entity: Paris, France
Type of participation: Organiser
Start-End date: 2019 - 2019
- 19** **Title of the activity:** BIST Winter Symposium on Microscopy, Nanoscopy & Imaging Science 2019 (BSyM 2019)
Type of activity: Workshop co-Chair **Geographical area:** European Union
Convening entity: BIST
City convening entity: Castelldefels, Barcelona
Type of participation: Organiser



Start-End date: 2019 - 2019

- 20** **Title of the activity:** Microscopy at the Frontiers of Science 2019 (MFS19)
Type of activity: Congress (Member of the Scientific Committee) **Geographical area:** European Union
Convening entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups
City convening entity: Granada, Spain
Type of participation: Member of the Scientific Committee
Start-End date: 2019 - 2019
- 21** **Title of the activity:** 2nd International Conference on Nanomaterials and Biomaterials (ICNB 2018)
Type of activity: Congress co-Chair **Geographical area:** European Union
City convening entity: Barcelona
Type of participation: Organiser
Start-End date: 2018 - 2018
- 22** **Title of the activity:** 31st European Crystallographic Meeting (ECM31)
Type of activity: Symposium Organizer **Geographical area:** European Union
City convening entity: Oviedo, Spain
Type of participation: Organiser
Start-End date: 2018 - 2018
- 23** **Title of the activity:** Applied Nanotechnology and Nanoscience International Conference 2018 (ANNIC 2018)
Type of activity: Chairs Committee Member
City convening entity: Berlin, Germany
Type of participation: Organiser
Start-End date: 2018 - 2018
- 24** **Title of the activity:** BIST Winter Symposium on Microscopy, Nanoscopy & Imaging Science 2018 (BSyM 2018)
Type of activity: Workshop Chair **Geographical area:** European Union
Convening entity: BIST
City convening entity: Castelldefels, Barcelona
Type of participation: Organiser
Start-End date: 2018 - 2018
- 25** **Title of the activity:** International Conference on Smart Engineering Materials (ICSEM 2018)
Type of activity: Congress co-Chair **Geographical area:** European Union
City convening entity: Bucharest, Romania
Type of participation: Organiser
Start-End date: 2018 - 2018
- 26** **Title of the activity:** Materials Research Society Fall Meeting 2018 (MRS Fall 2018) (Symposium NM03: Nanowires and Related 1D Nanostructures - New Opportunities and Grand Challenges)
Type of activity: Congress (Symposium Organizer and Chairman) **Geographical area:** Non EU International
City of event: Boston, United States of America
Convening entity: Materials Research Society (MRS)
City convening entity: Boston, United States of America



Type of participation: Organiser
Start-End date: 2018 - 2018

27 Title of the activity: EMSI 2017

Type of activity: Conference (Member of the Advisory Committee) **Geographical area:** Non EU International
Convening entity: Electron Microscope Society of India (EMSI)
City convening entity: Chennai, India
Start-End date: 07/2017 - 07/2017

28 Title of the activity: Microscopy & Microanalysis 2017 (M&M 2017)

Type of activity: Symposium Organizer **Geographical area:** Non EU International
City convening entity: Saint Louis, United States of America
Type of participation: Organiser
Start-End date: 07/2017 - 07/2017

29 Title of the activity: 14th Int. Conf. on Nanomaterials and Nanotechnology

Type of activity: OCM for Nanomaterials Series Conferences **Geographical area:** European Union
City convening entity: Madrid, Spain
Type of participation: Organiser
Start-End date: 2017 - 2017

30 Title of the activity: Applied Nanotechnology and Nanoscience International Conference 2017 (ANNIC 2017)

Type of activity: Chairs Committee Member
City convening entity: Rome, Italy
Type of participation: Organiser
Start-End date: 2017 - 2017

31 Title of the activity: Microscopy at the Frontiers of Science 2017 (MFS17)

Type of activity: Congress (Member of the Scientific Committee)
City of event: Zaragoza, Spain
Convening entity: Spanish Microscopy Society **Type of entity:** Associations and Groups (SME)
Type of participation: Member of the Scientific Committee
Start-End date: 2017 - 2017

32 Title of the activity: Nanoscience 2017

Type of activity: Conference (Organizing Committee Member (OCM)) **Geographical area:** European Union
City convening entity: Frankfurt, Germany
Type of participation: Organiser
Start-End date: 2017 - 2017

33 Title of the activity: VIII International Congress on Analytical Nanoscience and Nanotechnology (NyNA 2017)

Type of activity: Congress Chair, Organizer **Geographical area:** European Union
City convening entity: Barcelona
Type of participation: Organiser
Start-End date: 2017 - 2017



- 34** **Title of the activity:** Applied Nanotechnology and Nanoscience International Conference 2016 (ANNIC 2016)
Type of activity: Chairs Committee Member
City convening entity: Barcelona
Type of participation: Organiser
Start-End date: 2016 - 2016
- 35** **Title of the activity:** International Conf. on Modern Materials & Technologies 2016 (CIMTEC 2016) (Symposium G: Multifunctional Inorganic One-dimensional Nanostructures: Status and Potential)
Type of activity: Member of the Scientific Committee **Geographical area:** Non EU International (International Advisory Board)
City convening entity: Perugia, Italy
Type of participation: Member of the Scientific Committee
Start-End date: 2016 - 2016
- 36** **Title of the activity:** Microscopy at the Frontiers of Science 2015 (MFS15)
Type of activity: Congress (Member of the Scientific Committee)
City of event: Porto, Portugal
Convening entity: Portuguese Microscopy Society - **Type of entity:** Associations and Groups SPMicros
City convening entity: Portugal
Type of participation: Organiser
Start-End date: 09/09/2015 - 11/09/2015
- 37** **Title of the activity:** Nanowire Growth Workshop 2015 (NGW 2015)
Type of activity: Congress (Organizing Committee) **Geographical area:** Non EU International
City of event: Barcelona, Catalonia, Spain
Convening entity: Nanowire Growth Society **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 26/08/2015 - 28/08/2015
- 38** **Title of the activity:** Nanowires 2015 (NW 2015)
Type of activity: Congress (Organizing Committee) **Geographical area:** Non EU International
Convening entity: Nanowire Society **Type of entity:** Associations and Groups
City convening entity: Barcelona, Catalonia, Spain
Type of participation: Organiser
Start-End date: 23/08/2015 - 25/08/2015
- 39** **Title of the activity:** Materials Research Society Spring Meeting 2015 (MRS Spring 2015) Symposium S: Semiconductor Nanowires and Devices for Advanced Applications
Type of activity: Congress (Symposium Organizer and Chairman) **Geographical area:** Non EU International
City of event: San Francisco, United States of America
Convening entity: Materials Research Society (MRS)
City convening entity: San Francisco, United States of America
Type of participation: Organiser
Start-End date: 06/04/2015 - 10/04/2015



- 40** **Title of the activity:** Materials Challenges In Alternative & Renewable Energy 2014 (MCARE2014) Symposium: Nanocomposites and Nanowires materials for Photovoltaic and Photonic Technologies
Type of activity: Congr s (Member of the Organizing **Geographical area:** Non EU International Committee)
Convening entity: The American Ceramic Society **Type of entity:** Associations and Groups
City convening entity: Clearwater, United States of America
Type of participation: Organiser
Start-End date: 16/02/2014 - 20/02/2014 **Duration:** 5 days
- 41** **Title of the activity:** XII Inter-American Microscopy Congress (CIASEM2013) Symposium on Nano-Bio Microscopy
Type of activity: Congr s (Member of the Scientific **Geographical area:** Non EU International Committee)
Convening entity: Inter-american Committee of **Type of entity:** Associations and Groups Societies for Microscopy
City convening entity: Cartagena de  ndias, Colombia
Start-End date: 24/09/2013 - 28/09/2013 **Duration:** 5 days
- 42** **Title of the activity:** Microscopy at the Frontiers of Science 2013 (MFS2013)
Type of activity: Congr s (Congress Chair and **Geographical area:** European Union Member of the Organizing and Scientific Committees)
Convening entity: Sociedad de Microscop a de **Type of entity:** Associations and Groups Espa a (SME)
City convening entity: Tarragona, Spain
Type of participation: Organiser
Start-End date: 17/09/2013 - 20/09/2013 **Duration:** 4 days
- 43** **Title of the activity:** European Materials Research Society Spring Meeting 2013 (E-MRS Spring 2013) Symposium on Functional Nanowires: Synthesis, Characterization and Applications
Type of activity: Congr s (Member of the Scientific **Geographical area:** European Union Committee)
Convening entity: European Materials Research **Type of entity:** Associations and Groups Society (E-MRS)
City convening entity: Strasbourg, France
Start-End date: 27/05/2013 - 31/05/2013 **Duration:** 5 days
- 44** **Title of the activity:** Materials Research Society Fall Meeting 2012 (MRS Fall 2012) Symposium FF: Semiconductor Nanowires–Optical and Electronic Characterization and Applications
Type of activity: Congr s (Member of the Organizing **Geographical area:** Non EU International Committee)
Convening entity: Materials Research Society **Type of entity:** Associations and Groups (MRS)
City convening entity: Boston, United States of America
Type of participation: Organiser
Start-End date: 25/11/2012 - 30/11/2012 **Duration:** 6 days
- 45** **Title of the activity:** Microscopy at the Frontiers of Science 2011 (MFS2011)
Type of activity: Congr s (Member of the Scientific **Geographical area:** European Union Committee)
Convening entity: Sociedad de Microscop a de **Type of entity:** Associations and Groups Espa a (SME)
City convening entity: Aveiro, Portugal
Start-End date: 18/10/2011 - 21/10/2011 **Duration:** 4 days



- 46** **Title of the activity:** Transmission Electron Microscopy: Advanced Applications for Materials Science and Nanotechnology (JTEM2010)
Type of activity: Jornada
Geographical area: European Union
Convening entity: Instituto de Ciencia de los Materiales de Barcelona
Type of entity: State agency
City convening entity: Bellaterra, Catalonia, Spain
Type of participation: Organiser
Start-End date: 25/10/2010 - 25/10/2010
Duration: 1 day
- 47** **Title of the activity:** 2nd NESPA TEM training course, SCT-UB (Universitat de Barcelona – ICMAB-CSIC)
Type of activity: Training Course on TEM
Geographical area: European Union
Convening entity: Universitat de Barcelona
Type of entity: University
City convening entity: Barcelona, Catalonia, Spain
Type of participation: Organiser
Start-End date: 14/05/2009 - 17/05/2009
Duration: 4 days
- 48** **Title of the activity:** 1st NESPA TEM training course, SCT-UB (Universitat de Barcelona – ICMAB-CSIC)
Type of activity: Training Course on TEM
Geographical area: European Union
Convening entity: Universitat de Barcelona
Type of entity: University
City convening entity: Barcelona, Catalonia, Spain
Type of participation: Organiser
Start-End date: 05/05/2008 - 08/05/2008
Duration: 4 days

R&D management

- 1** **Name of the activity:** Scientific Coordinator of the Joint Electron Microscopy Center at ALBA Sync. (JEMCA)
Type of management: Management of body
Entity: Joint Electron Microscopy Center at ALBA Sync. (JEMCA)
Type of entity: Public Research Body
Start date: 2022
- 2** **Name of the activity:** Founding Member of e-DREAM (European Distributed Research Infrastructure for Advanced Electron Microscopy)
Type of management: Management of body
Performed tasks: Leader of the Data Policy and co-Leader of the Hardware e-DREAM WGs
Entity: European Distributed Research Infrastructure
Type of entity: Associations and Groups for Advanced Electron Microscopy (e-DREAM)
Start date: 2021
- 3** **Name of the activity:** Chair of the ICN2 Internationalization Committee
Type of management: Management of R&D&I actions and projects
Entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Start date: 2021
- 4** **Name of the activity:** Member of the ICN2 Psychosocial Working Group Committee
Type of management: Group management
Entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Start date: 2020



- 5** **Name of the activity:** Coordinator of the Nanocharacterization Transversal Area at the ICN2 Severo Ochoa Programme Committee.
Entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Start date: 2018 **Duration:** 4 years
- 6** **Name of the activity:** Executive Board Member International Federation of Societies for Microscopy (IFSM)
Type of management: Group management
Entity: International Federation of Societies for Microscopy (IFSM) **Type of entity:** Associations and Groups
Start date: 2018 **Duration:** 8 years
- 7** **Name of the activity:** Member of the ICN2 Investment Committee
Type of management: Management of R&D&I actions and projects
Entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Start date: 2018
- 8** **Name of the activity:** President of the Spanish Microscopy Society (SME)
Type of management: Management of body
Performed tasks: President
Entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups
Start date: 09/2017 **Duration:** 4 years
- 9** **Name of the activity:** Co-chair of the Microscopy Working Group at BIST
Type of management: Management of R&D&I actions and projects
Entity: Barcelona Institute of Science and Technology **Type of entity:** Foundation
Start date: 2017
- 10** **Name of the activity:** Member of the ICN2 PhD Programme Committee
Type of management: Programme management
Entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Start date: 2017
- 11** **Name of the activity:** Member of the Research Committee at the Barcelona Institute of Science and Technology (BIST)
Type of management: Management of R&D&I actions and projects
Entity: Barcelona Institute of Science and Technology (BIST) **Type of entity:** Foundation
Start date: 2017
- 12** **Name of the activity:** Vice-President of the Spanish Microscopy Society (SME)
Type of management: Management of body
Performed tasks: Vice-President
Entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups
Start date: 09/2013 **Duration:** 4 years
- 13** **Name of the activity:** Member of the Executive Board of the Spanish Microscopy Society (SME)
Type of management: Management of body
Performed tasks: Member of the Executive Board
Entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups



Start date: 06/2009

Duration: 12 years - 3 months

14 Name of the activity: Scientific Supervisor for the Electron Microscopy Facilities at ICMAB-CSIC

Type of management: Management of body

Entity: Instituto de Ciencia de los Materiales de Barcelona

Type of entity: Public Research Body

Start date: 2009

Duration: 6 years - 3 months

15 Name of the activity: Creador y Administrador del FOROTEM, Forum Web Virtual para investigadores y personal técnico en Microscopía Electrónica (<http://forotem.foroactivo.com>)

Type of management: Management of body

Performed tasks: Creador y Administrador

Entity: FOROTEM

Type of entity: Associations and Groups

Start date: 2007

16 Name of the activity: Coordinator of the educational team "CARACT" from Electronics Department at UB, in Master in Physical Engineering and Master in Nanoscience and Nanotechnology (EHEA)

Type of management: Group management

Entity: Universitat de Barcelona

Type of entity: University

Start date: 2006

Duration: 3 years

17 Name of the activity: Elected Member of the Physics Faculty Board

Type of management: Management of body

Entity: Universitat de Barcelona

Type of entity: University

Start date: 2005

Duration: 4 years

Evaluation and revision of R&D projects and articles

1 Performed tasks: External Reviewer for Tenure Track Candidates at Shenzhen University (China)

Entity where activity was carried out: Shenzhen University **Type of entity:** University

City of entity: China

Start-End date: 2023 - 2023

2 Performed tasks: Expert Reviewer on Scientific Projects for EISMEA (EU) REA H2020-INFRAIA Calls

Entity where activity was carried out: EISMEA (EU) **Type of entity:** Public Research Body

City of entity: Belgium

Geographical area: European Union

Start-End date: 2021 - 2023

3 Performed tasks: Expert Reviewer on Scientific Projects for EISMEA (EU) H2020 FETOpen Calls

Entity where activity was carried out: EISMEA (EU) **Type of entity:** Public Research Body

City of entity: Belgium

Geographical area: European Union

Start-End date: 2021 - 2022

4 Performed tasks: External Assessor to provide an evaluation report for the promotion of an Associate Professor to Ad Hominem Professor at ETH

Entity where activity was carried out: ETH **Type of entity:** University



City of entity: Switzerland
Start-End date: 2021 - 2021

5 Name of the activity: Member of Jury in Master Theses

Performed tasks: Member of Jury in Master Theses as Expert at Ecole Polytechnique Fédérale de Lausanne (EPFL)

Entity where activity was carried out: Ecole Polytechnique Fédérale de Lausanne (EPFL)

Type of entity: University

City of entity: Lausanne, Switzerland

Start-End date: 2010 - 2012

6 Performed tasks: Expert Reviewer on Scientific Projects for the Research Grants Council (RGC), Hong Kong

Entity where activity was carried out: Research Grants Council (RGC), Hong Kong

Type of entity: Public Research Body

City of entity: Hong Kong

Geographical area: Non EU International

Start date: 2023

7 Performed tasks: Expert Reviewer on Scientific Projects for the Research Council of Norway (RCN) (Norway)

Entity where activity was carried out: Research Council of Norway (RCN)

City of entity: Norway

Geographical area: European Union

Start date: 2021

8 Performed tasks: Expert Reviewer on Scientific Projects for the Natural Sciences and Engineering Research Council of Canada (NSERC)

Entity where activity was carried out: Natural Sciences and Engineering Research Council of Canada (NSERC)

Type of entity: Public Research Body

City of entity: Canada

Geographical area: Non EU International

Start date: 2020

9 Performed tasks: Expert Reviewer on Scientific Projects for the Central Finance and Contracting Agency (CFCA) of the Republic of Latvia

Entity where activity was carried out: Central Finance and Contracting Agency (CFCA) of the Republic of Latvia

Type of entity: Public Research Body

City of entity: Latvia

Geographical area: European Union

Start date: 2019

10 Performed tasks: Expert Reviewer on Scientific Projects for the Agencia para la Calidad del Sistema Universitario de Castilla y León (ACSUCyL)

Entity where activity was carried out: Agencia para la Calidad del Sistema Universitario de Castilla y León (ACSUCyL)

Type of entity: Public Research Body

City of entity: Spain

Geographical area: European Union

Start date: 2018



- 11 Performed tasks:** Expert Reviewer on Scientific Projects for the Czech Science Foundation
Entity where activity was carried out: Czech Science Foundation **Type of entity:** Foundation
City of entity: Czech Republic
Geographical area: European Union
Start date: 2018
- 12 Performed tasks:** Expert Reviewer on Scientific Projects for the MIT MISTI Global Seed Funds
Entity where activity was carried out: Massachusetts Institute of Technology (MIT) **Type of entity:** University
City of entity: United States of America
Geographical area: Non EU International
Start date: 2018
- 13 Performed tasks:** Expert Reviewer on Scientific Projects for the Swedish Research Council (Vetenskapsrådet) - Consolidator Grant 2018 Call
Entity where activity was carried out: Swedish Research Council (Vetenskapsrådet)
City of entity: Sweden
Geographical area: European Union
Start date: 2018
- 14 Performed tasks:** Expert Reviewer on Scientific Projects for the United Arab Emirates University (UAEU)
Entity where activity was carried out: United Arab Emirates University (UAEU) **Type of entity:** University
City of entity: United Arab Emirates
Geographical area: Non EU International
Start date: 2018
- 15 Performed tasks:** Expert Reviewer on Scientific Projects for the Agence Nationale de la Recherche (ANR)
Entity where activity was carried out: Agence Nationale de la Recherche (ANR) **Type of entity:** Public Research Body
City of entity: France
Geographical area: European Union
Start date: 2017
- 16 Performed tasks:** Expert Reviewer on Scientific Projects for the Swiss National Science Foundation (SNSF)
Entity where activity was carried out: Swiss National Science Foundation (SNSF) **Type of entity:** Foundation
City of entity: Switzerland
Geographical area: Non EU International
Start date: 2017
- 17 Performed tasks:** Expert Reviewer on Scientific Projects for the Israel Science Foundation (ISF)
Entity where activity was carried out: Israel Science Foundation (ISF)
City of entity: Israel
Geographical area: Non EU International
Start date: 2016



- 18** **Performed tasks:** Expert Reviewer on Scientific Projects for The Division for Chemical Sciences (CW) of the Netherlands Organisation for Scientific Research (NWO)
Entity where activity was carried out: Netherlands **Type of entity:** Public Research Body Organisation for Scientific Research (NWO)
City of entity: Holland
Geographical area: European Union
Start date: 2015
- 19** **Name of the activity:** European Research Council (ERC) - ERC StG, CoG and AdG
Performed tasks: Expert Reviewer on Scientific Projects for the European Research Council (ERC)
Entity where activity was carried out: European Research Council (ERC)
City of entity: Brussels, Belgium
Geographical area: European Union
Start date: 2014
- 20** **Performed tasks:** Expert Reviewer on Scientific Projects for the Portuguese Foundation for Science and Technology (FCT)
Entity where activity was carried out: Portuguese **Type of entity:** Foundation Foundation for Science and Technology (FCT)
City of entity: Portugal
Geographical area: European Union
Start date: 2014
- 21** **Performed tasks:** Expert Reviewer on Scientific Projects for the Royal Society
Entity where activity was carried out: Royal **Type of entity:** Associations and Groups Society
City of entity: United Kingdom
Geographical area: Non EU International
Start date: 2014
- 22** **Performed tasks:** Expert Reviewer on Scientific Projects for the United States Department of Energy (DOE) (USA)
Entity where activity was carried out: United States Department of Energy (DOE)
City of entity: United States of America
Geographical area: Non EU International
Start date: 2014
- 23** **Performed tasks:** Expert Reviewer on Scientific Projects for the Agencia Nacional Consejo Superior de Investigaciones Científicas (CSIC)
Entity where activity was carried out: Consejo **Type of entity:** State agency Superior de Investigaciones Científicas
City of entity: Spain
Start date: 2010
- 24** **Performed tasks:** Expert Reviewer on Scientific Projects for the Agencia Nacional de Evaluación y Prospectiva (ANEP)
Entity where activity was carried out: Agencia **Type of entity:** Agencia Estatal Nacional de Evaluación y Prospectiva
City of entity: Spain
Start date: 2010



- 25** **Performed tasks:** Expert Reviewer on Scientific Projects for the Agencia Nacional de Promoción Científica y Tecnológica (Argentina)
Entity where activity was carried out: Agencia Nacional de Promoción Científica y Tecnológica
City of entity: Argentina
Start date: 2010
- 26** **Performed tasks:** Expert Reviewer on Scientific Projects for the Austrian Science Fund (FWF) (Austria)
Entity where activity was carried out: Austrian Science Fund (FWF)
City of entity: Austria
Start date: 2010
- 27** **Performed tasks:** Expert Reviewer on Scientific Projects for the Flanders Research Foundation (FWO) (Belgium)
Entity where activity was carried out: Flanders Research Foundation (FWO)
City of entity: Belgium
Start date: 2010
- 28** **Name of the activity:** Editor
Performed tasks: Editorial Advisory Board Member of 'The Open Analytical Chemistry Journal'
Entity where activity was carried out: The Open Analytical Chemistry Journal
Start date: 2008
- 29** **Name of the activity:** Referee
Performed tasks: Referee of scientific papers for ACS Catalysis
Entity where activity was carried out: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City of entity: United States of America
- 30** **Name of the activity:** Referee
Performed tasks: Referee of scientific papers for ACS Nano
Entity where activity was carried out: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City of entity: United States of America
- 31** **Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Advanced Energy Materials
Entity where activity was carried out: Wiley-VCH Verlag GmbH & Co
City of entity: Germany
- 32** **Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Advanced Functional Materials
Entity where activity was carried out: Wiley-VCH Verlag GmbH & Co **Type of entity:** Business
City of entity: Germany
- 33** **Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Advanced Materials
Entity where activity was carried out: Wiley-VCH Verlag GmbH & Co **Type of entity:** Business
City of entity: Germany



- 34 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Advanced Optical Materials
Entity where activity was carried out: Wiley-VCH Verlag GmbH & Co
City of entity: Germany
- 35 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Angewandte Chemie International Edition
Entity where activity was carried out: Wiley-VCH Verlag GmbH & Co
City of entity: Germany
- 36 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Applied Catalysis B: Environmental
Entity where activity was carried out: Elsevier
City of entity: United States of America
- 37 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Applied Physics Letters
Entity where activity was carried out: American Institute of Physics (AIP)
City of entity: United States of America
- 38 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Carbon
Entity where activity was carried out: Elsevier
City of entity: United States of America
- 39 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Chem
Entity where activity was carried out: Cell Press - Elsevier
Type of entity: Business
City of entity: United States of America
- 40 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for ChemComm
Entity where activity was carried out: Royal Society of Chemistry
Type of entity: Business
- 41 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Chemistry of Materials
Entity where activity was carried out: American Chemical Society (ACS)
Type of entity: Associations and Groups
City of entity: United States of America
- 42 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for CrystEngComm
Entity where activity was carried out: Royal Society of Chemistry (RSC)
Type of entity: Associations and Groups
City of entity: United Kingdom



- 43 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Crystal Growth & Design
Entity where activity was carried out: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City of entity: United States of America
- 44 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Dalton Transactions
Entity where activity was carried out: Royal Society of Chemistry (RSC) **Type of entity:** Associations and Groups
City of entity: United Kingdom
- 45 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Joule
Entity where activity was carried out: Cell Press - Elsevier **Type of entity:** Business
City of entity: United States of America
- 46 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Journal of Physical Chemistry C
Entity where activity was carried out: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City of entity: United States of America
- 47 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Journal of the American Chemical Society
Entity where activity was carried out: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City of entity: United States of America
- 48 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Langmuir
Entity where activity was carried out: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City of entity: United States of America
- 49 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nano Energy
Entity where activity was carried out: Elsevier
City of entity: United States of America
- 50 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nano Letters
Entity where activity was carried out: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City of entity: United States of America
- 51 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nanoscale
Entity where activity was carried out: Royal Society of Chemistry (RSC) **Type of entity:** Associations and Groups
City of entity: United Kingdom



- 52 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nanotechnology
Entity where activity was carried out: Institute of Physics (IOP) **Type of entity:** Associations and Groups
City of entity: United Kingdom
- 53 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nature
Entity where activity was carried out: Springer Nature Limited **Type of entity:** Business
City of entity: United Kingdom
- 54 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nature Catalysis
Entity where activity was carried out: Springer Nature Limited **Type of entity:** Business
City of entity: United Kingdom
- 55 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nature Communications
Entity where activity was carried out: Springer Nature Limited **Type of entity:** Business
City of entity: United Kingdom
- 56 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Nature Materials
Entity where activity was carried out: Springer Nature Limited **Type of entity:** Business
City of entity: United Kingdom
- 57 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for New Journal of Physics
Entity where activity was carried out: Institute of Physics (IOP) **Type of entity:** Associations and Groups
City of entity: United Kingdom
- 58 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Progress in Photovoltaics
Entity where activity was carried out: John Wiley & Sons, Inc. (WILEY) **Type of entity:** Business
City of entity: Germany
- 59 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Science
Entity where activity was carried out: The American Association for the Advancement of Science, "Triple A-S" (AAAS) **Type of entity:** Associations and Groups
City of entity: United States of America



- 60 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Scientific Reports NPG
Entity where activity was carried out: Nature Publishing Group
- 61 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Sensors and Actuators B
Entity where activity was carried out: Elsevier **Type of entity:** Business
City of entity: Holland
- 62 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Small
Entity where activity was carried out: Wiley-VCH Verlag GmbH & Co
City of entity: Germany
- 63 Name of the activity:** Referee
Performed tasks: Referee of scientific papers for Ultramicroscopy
Entity where activity was carried out: Elsevier

Other achievements

Stays in public or private R&D centres

- 1 Entity:** Massachusetts Institute of Technology (MIT) **Type of entity:** University Research Institute
City of entity: Cambridge, United States of America
Start-End date: 27/11/2013 - 05/12/2013 **Duration:** 9 days
Goals of the stay: Guest
Provable tasks: Anàlisis CL-STEM en NDs in a Nanowire
- 2 Entity:** Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons (ER-C) **Type of entity:** R&D Centre
City of entity: Jülich, Germany
Start-End date: 2013 - 2013 **Duration:** 7 days
Goals of the stay: Guest
Provable tasks: STEM analyses with pico resolution in advanced materials
- 3 Entity:** Universiteit Antwerpen **Type of entity:** University
Faculty, institute or centre: Electron Microscopy for Materials Science (EMAT)
City of entity: Antwerp, Belgium
Start-End date: 2012 - 2012 **Duration:** 5 days
Goals of the stay: Guest
Provable tasks: Anàlisis HREELS i HAADF-STEM en YBCO nanocomposites
- 4 Entity:** Massachusetts Institute of Technology (MIT) **Type of entity:** University Research Institute
City of entity: Cambridge, United States of America
Start-End date: 2012 - 2012 **Duration:** 7 days
Goals of the stay: Guest
Provable tasks: Anàlisis CL-STEM en QWRs in a Nanowire



- 5** **Entity:** Ecole Polytechnique Fédérale de Lausanne, EPFL **Type of entity:** University
Faculty, institute or centre: Institut des Materiaux
City of entity: Lausanne, Switzerland
Start-End date: 2009 - 2009 **Duration:** 7 days
Goals of the stay: Guest
Provable tasks: Utilització Microscopis Electrònics HRTEM de les instal·lacions de la EPFL, aprenentatge del Soft de simulació d'imatges HRTEM JEMS, impartició de dos seminaris sobre tècniques avançades de microscòpia electrònica aplicades a nanoestructures com nanofilis
- 6** **Entity:** SuperSTEM Laboratory **Type of entity:** University Centres and Structures and Associated Bodies
City of entity: Daresbury, United Kingdom
Start-End date: 2008 - 2008 **Duration:** 7 days
Goals of the stay: Guest
Provable tasks: Realització d'anàlisi HRHAADF i HREELS sobre mostres varies de semiconductors nanoestructurats
- 7** **Entity:** Lawrence Berkeley National Laboratory (LBNL) **Type of entity:** State agency
Faculty, institute or centre: National Center of Electron Microscopy (NCEM)
City of entity: Berkeley, United States of America
Start-End date: 2004 - 2004 **Duration:** 7 days
Goals of the stay: Post-doctoral
Provable tasks: Anàlisi HAADF-STEM i HREELS de mostres LAMOX i ncs de Si i SiC implantats en matrius SiO₂
- 8** **Entity:** University of Split **Type of entity:** University
Faculty, institute or centre: Departament de Matemàtiques i Física
City of entity: Split, Croatia
Start-End date: 2002 - 2002 **Duration:** 1 month
Goals of the stay: Guest
Provable tasks: Caracterització estructural i microanàlisi (EDX) de dispositius fotodíodes d'allau
- 9** **Entity:** European Synchrotron Radiation Facility (ESRF) de Grenoble en la línia BM29 (EXAFS-XANES) **Type of entity:** University Centres and Structures and Associated Bodies
City of entity: Grenoble, France
Start-End date: 2002 - 2002 **Duration:** 5 days
Goals of the stay: Post-doctoral
Provable tasks: Mesura de les distàncies interatòmiques i els estats d'oxidació del Niobi utilitzat com catalític en nanopòlvores de TiO₂ utilitzades com sensor de gas semiconductor
- 10** **Entity:** University of Split **Type of entity:** University
Faculty, institute or centre: Departament de Matemàtiques i Física
City of entity: Split, Croatia
Start-End date: 2001 - 2001 **Duration:** 1 month
Goals of the stay: Guest
Provable tasks: Estudi de les propietats dels fotodíodes d'allau. Anàlisi de la uniformitat superficial del díode i de l'estabilitat a llarg plaç del corrent de fosques i el fotocorrent



- 11** **Entity:** Universidad de Cádiz **Type of entity:** University
Faculty, institute or centre: Departamento de Ciencia de los Materiales e Ingeniería Metalúrgica y Química Inorgánica
City of entity: Cádiz, Andalusia, Spain
Start-End date: 2001 - 2001 **Duration:** 2 months
Goals of the stay: Doctorate
Provable tasks: Perfeccionament en la simulació per ordinador d'imatges HRTEM basades en models de supercel•la metall/semiconductor
- 12** **Entity:** Universidad de Cádiz **Type of entity:** University
Faculty, institute or centre: Departamento de Ciencia de los Materiales e Ingeniería Metalúrgica y Química Inorgánica
City of entity: Cádiz, Andalusia, Spain
Start-End date: 2000 - 2000 **Duration:** 16 days
Goals of the stay: Doctorate
Provable tasks: Estudi i simulació HRTEM dels metalls catalítics sobre suports semiconductors
- 13** **Entity:** CEMES-CNRS **Type of entity:** State agency
City of entity: Toulouse, France
Start-End date: 2000 - 2000 **Duration:** 3 months
Goals of the stay: Doctorate
Provable tasks: Anàlisi de catalítics metàl•lics sobre suports semiconductors de TiO₂. Es van aplicar tècniques de caracterització i microanàlisi com EELS, EDX, difracció electrònica i HRTEM
- 14** **Entity:** CEMES-CNRS **Type of entity:** State agency
City of entity: Toulouse, France
Start-End date: 1999 - 1999 **Duration:** 10 days
Goals of the stay: Doctorate
Provable tasks: Estudis de composició de materials semiconductors utilitzant tècniques d'espectroscòpia (EELS) associades a la microscòpia electrònica de transmissió (TEM).
- 15** **Entity:** LAAS-CNRS **Type of entity:** State agency
City of entity: Toulouse, France
Start-End date: 1997 - 1997 **Duration:** 3 months
Goals of the stay: Erasmus
Provable tasks: Estudi i caracterització de sensors capacitius de pressió i temperatura

Scientific societies and professional associations

- 1** **Name of the society:** Member of the Educational Innovation Group e-Lindo (Electronics and educational innovation) at Universitat de Barcelona
Affiliation entity: Universitat de Barcelona **Type of entity:** University
City affiliation entity: Spain
Start-End date: 2003 - 2009
- 2** **Name of the society:** Member of the Societat Catalana de Química (SCQ)
Affiliation entity: Societat Catalana de Química **Type of entity:** Associations and Groups (SCQ)
Start date: 2018



- 3 Name of the society:** Member of the American Chemical Society (ACS)
Affiliation entity: American Chemical Society (ACS) **Type of entity:** Associations and Groups
City affiliation entity: United States of America
Start date: 2016
- 4 Name of the society:** Member of the Materials Research Society (MRS)
Affiliation entity: Materials Research Society (MRS) **Type of entity:** Associations and Groups
City affiliation entity: United States of America
Start date: 2004
- 5 Name of the society:** Member of the European Microscopy Society (EMS)
Affiliation entity: European Microscopy Society (EMS)
Start date: 2001
- 6 Name of the society:** Member of the Spanish Microscopy Society (SME)
Affiliation entity: Sociedad de Microscopía de España (SME)
City affiliation entity: Spain
Start date: 2001

Co-operation networks

Name of the network: Member of XaRMAE (Reference Network in Advanced Materials for Energy)
Identification of the network: XaRMAE (Reference Network in Advanced Materials for Energy)
Start date: 2004 **Duration:** 9 years

Prizes, mentions and distinctions

- 1 Description:** My PhD student Ting Zhang receives the 2020-2021 PhD Extraordinary Award in Materials Science by Universitat Autònoma de Barcelona (UAB)
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Conferral date: 2023
- 2 Description:** My PhD student Ting Zhang receives the SME Award to the Best 2021-2022 PhD in Materials Science (“ex aequo”), by the Spanish Microscopy Society (SME)
Awarding entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups
City awarding entity: Spain
Conferral date: 2023
- 3 Description:** My PhD student Xu Han receives the SME Award to the Best 2021-2022 PhD in Materials Science (“ex aequo”), by the Spanish Microscopy Society (SME)
Awarding entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups
City awarding entity: Spain
Conferral date: 2023
- 4 Description:** Nanoscale Horizons 2022 Outstanding Review Award
Awarding entity: Royal Society of Chemistry **Type of entity:** Associations and Groups
City awarding entity: United Kingdom
Conferral date: 2023



- 5** **Description:** Research.com Materials Science in Spain Leader Award
Awarding entity: Research.com **Type of entity:** Associations and Groups
Conferral date: 2023
- 6** **Description:** My PhD student Sara Martí-Sánchez receives the 2019-2020 PhD Extraordinary Award in Materials Science by Universitat Autònoma de Barcelona (UAB)
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Conferral date: 2022
- 7** **Description:** My PhD student Ting Zhang receives the 2021 Best Thesis Award from the ICN2 Women Talent Programme
Awarding entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Conferral date: 2022
- 8** **Description:** FWO Commemorative Medal
Awarding entity: Flanders Research Foundation (FWO) **Type of entity:** Foundation
City awarding entity: Belgium
Conferral date: 2021
- 9** **Description:** My PhD student Zhifu Liang receives the prestigious Chinese Government Award for Outstanding Self Finance Students Abroad for his PhD at ICN2
Awarding entity: Chinese Government **Type of entity:** State agency
City awarding entity: China
Conferral date: 2021
- 10** **Description:** World's Top 2% Scientist at Stanford University ranking
Awarding entity: Stanford University **Type of entity:** University
City awarding entity: United States of America
Conferral date: 2021
- 11** **Description:** My PhD student PengYi Tang receives the 2018 PhD Extraordinary Award in Materials Science by Universitat Autònoma de Barcelona (UAB)
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Conferral date: 2020
- 12** **Description:** Severo Ochoa Tech Valorization Project Award for the "Photo-Capture CO2 Tech patent" Funded with 15,000 € to further develop the technology
Awarding entity: FUNDACION PRIVADA INSTITUT CATALA DE NANOTECNOLOGIA
Conferral date: 2020
- 13** **Description:** World's Top 2% Scientist at Stanford University ranking
Awarding entity: Stanford University **Type of entity:** University
City awarding entity: United States of America
Conferral date: 2020
- 14** **Description:** My PhD student Dr. PengYi Tang receives the Humboldt Research Fellowship for Postdoctoral Researchers
Awarding entity: Alexander von Humboldt Stiftung **Type of entity:** Foundation
City awarding entity: Germany
Conferral date: 2019



- 15** **Description:** My PhD student Dr. PengYi Tang receives the prestigious Chinese Government Award for Outstanding Self Finance Students Abroad for his PhD at ICN2
Awarding entity: Chinese Government **Type of entity:** State agency
City awarding entity: China
Conferral date: 2019
- 16** **Description:** My PhD student PengYi Tang receives the SME Award to the Best 2017-2018 PhD in Materials Science, by the Spanish Microscopy Society (SME)
Awarding entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups
City awarding entity: Spain
Conferral date: 2019
- 17** **Description:** My PhD student Sara Martí-Sánchez receives the Nanotechnology Best Poster Award at the Nanowire Week Pisa 2019 (NWW2019), Pisa (Italy)
Awarding entity: IOP Publishing
City awarding entity: United Kingdom
Conferral date: 2019
- 18** **Description:** My PhD student Xu Han awarded with one of the prestigious DAAD 2019 Scholarships from the German Academic Exchange Service (DAAD) to perform an internship at the ER-C in Jülich from April 2020 to September 2020
Awarding entity: German Academic Exchange Service (DAAD) **Type of entity:** Public Research Body
City awarding entity: Germany
Conferral date: 2019
- 19** **Description:** World's Top 2% Scientist at Stanford University ranking
Awarding entity: Stanford University **Type of entity:** University
City awarding entity: United States of America
Conferral date: 2019
- 20** **Description:** BIST IGNITE AWARD for the project: In-situ atomic resolution transmission electron microscopy of heterogeneous water oxidation catalysts
Awarding entity: Barcelona Institute of Science and Technology (BIST) **Type of entity:** Foundation
City awarding entity: Spain
Conferral date: 2018
- 21** **Description:** My PhD student María de la Mata receives the 2015 PhD Extraordinary Award in Materials Science by Universitat Autònoma de Barcelona (UAB)
Awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Conferral date: 2018
- 22** **Description:** My PhD student PengYi Tang receives the Energy & Environmental Science Poster Prize at the International Conference on Renewable Energy (ICREN 2018), Barcelona
Awarding entity: The Royal Society of Chemistry **Type of entity:** Associations and Groups
City awarding entity: United Kingdom
Conferral date: 2018



- 23** **Description:** My PhD student Sara Martí-Sánchez awarded to participate in the IFSM Young Scientists Assembly as part of the 19th International Microscopy Congress (IMC19), Sydney (Australia)
Awarding entity: International Federation of Societies for Microscopy (IFSM) **Type of entity:** Associations and Groups
City awarding entity: United States of America
Conferral date: 2018
- 24** **Description:** My PhD student María de la Mata receives the SME Award to the Best 2015-2016 PhD in Materials Science, by the Spanish Microscopy Society (SME).
Awarding entity: Spanish Microscopy Society (SME) **Type of entity:** Associations and Groups
City awarding entity: Spain
Conferral date: 2017
- 25** **Description:** My PhD student, PengYi Tang awarded with one of the prestigious DAAD 2017 Scholarships from the German Academic Exchange Service (DAAD) to perform an internship at the ER-C in Jülich.
Awarding entity: German Academic Exchange Service (DAAD) **Type of entity:** Public Research Body
City awarding entity: Germany
Conferral date: 2017
- 26** **Description:** 2014 EMS Outstanding Paper Award in the category "Materials Sciences". Awarded by the European Microscopy Society (EMS) to the paper: "Polarity-Driven Polytypic Branching in Cu-Based Quaternary Chalcogenide Nanostructures" published in ACS Nano, being the corresponding author.
Awarding entity: European Microscopy Society (EMS) **Type of entity:** Associations and Groups
City awarding entity: France
Conferral date: 2015
- 27** **Description:** My PhD student, María de la Mata selected to participate in the 65th Lindau Nobel Laureate Meeting. Only the 650 most qualified young scientists worldwide have been selected.
Awarding entity: Foundation Lindau Nobel Laureate Meetings **Type of entity:** Foundation Meetings
City awarding entity: Sweden
Conferral date: 2015
- 28** **Description:** My PhD student, Reza Zamani receives the 2013 PhD Extraordinary Award in Nanoscience by Universitat de Barcelona (UB).
Awarding entity: Universitat de Barcelona **Type of entity:** University
Conferral date: 2015
- 29** **Description:** EU40 Materials Prize
Awarding entity: European Materials Research Society (E-MRS) **Type of entity:** Associations and Groups
City awarding entity: Lille, France
Conferral date: 28/05/2014
Recognition linked: Awarded by the European Materials Research Society (E-MRS) in recognition to an outstanding contribution to materials research by a scientist under 40
- 30** **Description:** RMR2013 Innovation Award
Awarding entity: Radio Molins de Rei **Type of entity:** Associations and Groups
City awarding entity: Molins de Rei, Catalonia, Spain
Conferral date: 17/01/2014

- 31** **Description:** Listed in the Top 40 under 40 Power List by The Analytical Scientist
Awarding entity: The Analytical Scientist **Type of entity:** Associations and Groups
City awarding entity: United States of America
Conferral date: 2014
- 32** **Description:** My PhD student, Aziz Genç awarded with one of the prestigious DAAD 2014 Scholarships from the German Academic Exchange Service (DAAD) to perform an internship at the ER-C in Jülich
Awarding entity: German Academic Exchange Service (DAAD) **Type of entity:** Public Research Body
City awarding entity: Germany
Conferral date: 2014
- 33** **Description:** My PhD student, Aziz Genç received the IFSM Young Scientist Award /at the International Microscopy Congress 2014 (IMC2014)
Awarding entity: International Federation of Societies for Microscopy (IFSM) **Type of entity:** Associations and Groups
City awarding entity: Prague, Czech Republic
Conferral date: 2014
- 34** **Description:** My PhD student, María de la Mata received the IFSM Young Scientist Award /at the International Microscopy Congress 2014 (IMC2014)
Awarding entity: International Federation of Societies for Microscopy (IFSM)
City awarding entity: Prague, Czech Republic
Conferral date: 2014
- 35** **Description:** My PhD student, María de la Mata, Awarded with Early Stage Career EMS Researcher Scholarship for presenting the results of a trans-European research collaboration at EMC2012
Awarding entity: European Microscopy Society (EMS) **Type of entity:** Associations and Groups
City awarding entity: Manchester, United Kingdom
Conferral date: 2012
- 36** **Description:** My PhD student, Reza Zamani received the IFSM Young Scientist Award at the European Microscopy Congress 2012 (EMC2012)
Awarding entity: International Federation of Societies for Microscopy (IFSM) **Type of entity:** Associations and Groups
City awarding entity: Manchester, United Kingdom
Conferral date: 2012
- 37** **Description:** Award for the Best Poster at the Microscopy at the Frontiers of Science 2011
Awarding entity: Sociedad de Microscopía de España (SME) - SPMicros (Portugal) **Type of entity:** Associations and Groups
City awarding entity: Aveiro, Portugal
Conferral date: 10/2011
- 38** **Description:** Accreditation by AQU as Full Professor (Advanced Research Accreditation) - Professor Catedràtic
Awarding entity: AGENCIA PER A LA QUALITAT DEL SISTEMA UNIVERSITARI DE CATALUNYA
Conferral date: 2011



- 39** **Description:** Award for the Best Poster at the Joint Meeting of the SME and SPMicros Societies
Awarding entity: Sociedad de Microscopía de España (SME) - SPMicros (Portugal) **Type of entity:** Associations and Groups
City awarding entity: Segovia, Spain
Conferral date: 07/2009
- 40** **Description:** Awarded as ICREA Research Professor
Awarding entity: Institució Catalana de Recerca i Estudis Avancats **Type of entity:** ICREA
City awarding entity: Barcelona, Catalonia, Spain
Conferral date: 2009
- 41** **Description:** National Accreditation Certificate as Profesor Titular (Associate Professor)
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 2009
- 42** **Description:** Poster Award in the GdR Nanofils et Nanotubes Semiconduct-Workshop 2009 (France)
Awarding entity: GdR Nanofils et Nanotubes Semiconduct **Type of entity:** Associations and Groups
City awarding entity: France
Conferral date: 2009
- 43** **Description:** 1st Pérez Castro Award for the Best 2007 Paper
Awarding entity: Archivos Españoles de Urología
City awarding entity: Spain
Conferral date: 2007
- 44** **Description:** Accreditation by AQU as Associate Professor (Research Accreditation) - Professor Titular
Awarding entity: AGENCIA PER A LA QUALITAT DEL SISTEMA UNIVERSITARI DE CATALUNYA
Conferral date: 2005
- 45** **Description:** PhD Extraordinary Award and European Doctor Mention by Universitat de Barcelona
Awarding entity: Universitat de Barcelona **Type of entity:** University
City awarding entity: Spain
Conferral date: 2001