



Noé Jiménez González

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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.

Noé Jiménez is Senior Permanent Researcher ("Científico Titular") at Institute of Instrumentation for Molecular Imaging (I3M, CSIC) since 2024. He started his career in 2010 by an excellence scholarship awarded to the best academic record. In 2015 he obtained the PhD degree with Cum Laude, European and Extraordinary Prize mentions, at UPV. In 2015, he joined the CNRS (UMR 6613, France) with a postdoctoral contract to develop novel acoustic metamaterials. He obtained a **Juan de la Cierva – Formación** (2017) and **Juan de la Cierva – Incorporación** (2019) and **Ramón y Cajal** excellence grants (2021) to join I3M at CSIC to research on ultrasonic metamaterials for biomedical applications under the supervision of José M. Benlloch ("Jaume I" and National Research Awards). Since 2019, he is the **head of the Therapeutic Ultrasound group** at I3M, currently leading and funding 2 early-career post-doctoral researchers, 8 PhD students, and 3 laboratory technicians.

He has worked on 37 funded projects (**15 as Principal Investigator**, 2 as P.I. of the "Plan Nacional", funded by Spanish Ministry of Science) and 12 contracts (**3 as P.I.**) with private companies, rising as P.I. more than 1.8 M€ for his current institution in the last 5 years. He has published **51 articles in JCR journals**, (35 Q1, and 40 as first and/or corresponding author), **8 book chapters** and **edited 2 scientific books**. He has participated in **more than 250 conferences**, giving **35 invited talks** and **4 plenary lectures**. He holds a h-index of 26, an i10 of 47 and 3124 citations. He has obtained a total of **6 postdoctoral grants**.

His research ranges from fundamental research on mechanical waves in complex media to its application for **novel biomedical ultrasound techniques**. During his PhD and early postdoc experience at the CNRS, he gathered deep knowledge on waves in structured media, and now he is applying state-of-the-art fundamentals to selected technological applications. During 2014 and 2018 he worked for the **European Space Agency** to control sound during the launch of the Vega system using metamaterials. Since 2016 he develops perfect absorbing metamaterials and acoustic diffusers, collaborating with the leader company RPG Acoustics (NJ, USA). In 2016, he participated in the European project COST action DENORMS for **technology transfer** in metamaterials. He has envisioned and validated the first lithotripter based on acoustic vortices for the painless fragmentation of kidney stones. He is author of **6 patents** for biomedical ultrasound (2 licensed). In 2020 **he founded a spin-off**, HOLOSONIC SL, where he has advised **two Torres Quevedo** grants. They have obtained a CDTI grant 9.5M€ to develop the first clinical and low-cost ultrasound neuromodulation device based on acoustic holograms.

In 2012, he obtained a grant to **stay at Columbia University** (NYC, USA) under the supervision of Elisa E. Konofagou, and developed methods for ultrasound-assisted



blood-brain barrier opening. In 2019, he obtained a grant for a **second stay at CNRS (Le Mans, France)**, collaborating with Vicent Tournat and Vicent Pagneux. He maintains collaborations with Kestutis Staliunas and colleges (UPC, Spain/Vilnius Lithuania) on acoustic vortices. In 2016, he received a **European Union COST grant** for a **stay at the University of Salford** (Manchester, UK) under the supervision of Trevor J. Cox, world-renowned leader in acoustic materials, and produced the first sound diffuser based on metamaterials.

He was one of the first researchers to apply acoustic metamaterials and acoustic vortices to go beyond classical biomedical ultrasound technologies, and **has grown a worldwide network with hospitals and international research centers**. Between others, he has been collaborating with Dr. Cheng-Chia Wu, at the New-York Presbyterian Hospital (NY, USA), and the Urology and Neonatology units at La Fe Hospital (Valencia, Spain) to develop medical ultrasound instrumentation. With Dr. José Obeso at HM CINAC (Hospitales de Madrid, Spain) he is applying acoustic holograms for drug-delivery in the brain and neuromodulation. Since 2020 he collaborates with Vall d'Hebron Hospital, (Barcelona, Spain) to transfer to clinics novel therapeutic ultrasound applications. Since 2021 he is collaborating with Gail ter Haar at the Institute of Cancer Research (London, UK) and ICube UMR 7357 CNRS, (Strasbourg France) to design novel and low-cost chemotherapeutic applications using holographic hyperthermia.

Among other awards, he obtained the Young Investigator Award from the **Spanish Royal Society of Physics** (2019), and the Young Investigator Award from the Spanish Society of Acoustics (2011). He has supervised 23 Master thesis, **10 PhD students**, 8 of whom are still working on their degrees and 2 completed, one is now postdoc at Columbia University. He teaches undergraduate and master's degree courses at the Applied Physics department of the Universitat Politècnica de València, he has lectured 512 hours of teaching.

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.

PUBLICATIONS

- **Articles published in scientific journals:** 49 articles in JCR journals (33 Q1, 6 D1, 42 T1, 40 as first and/or corresponding author)
- **Scientific books or chapters:** 8 book chapters and edited 2 books.
- **Conferences:** participated in more than 250 conferences, giving 39 invited talks and 4 plenary lectures.
- **Invited seminars at universities:** +16 (Columbia University, Max Planck Institute for Intelligent Systems, Imperial College London ...)
- **Citations** (last 5 years) : **3124** (2595)
- **h Index** (last 5 years) : **26** (25)
- **i10 Index** (last 5 years) : **47** (39)
- **Sexenios:** 2 (last 2021)

TECHNOLOGY TRANSFER

- **Number of patents :** 6 (2 licensed)
- **Number of spin-off companies:** 1 (HOLOSONIC SL, 33% shares, biomedical devices)
- **Contracts with companies:** A total of 12. Two contracts with the European Space Agency (2014 and 2018), one pre-commercial public procurement from CDTI 9.5 M€.
- **Active non-disclosure agreements:** DORNIER Med Tech (NDA, Germany, 2024), STORZ Medical (NDA, Switzerland, 2024), SCIENTIA Bio Tech SL (NDA, 2021), HOLOSONIC SL (NDA, Valencia, 2020), COMET S.L. (NDA, Spain 2019), RPG Acoustics (NDA, USA 2019), MetAcoustics (NDA, France 2018), QWave AS (NDA, Norway 2017), Transplant Biomedicals SL.

INTERNATIONALIZATION

- **Stays in international mobility programs:** 4 (3 years, 3 months) Columbia University, (New York, USA); Salford University, (Manchester, UK); CNRS (Le Mans, France)
- **Projects and contracts carried out in international collaboration:** 3 (European Union, European Space Agency, Agence Nationale de la Recherche)
- **Main collaborating entities:** Columbia University (NYC, USA), University of California Los Angeles (LA, USA), Institute of Cancer Research (London, UK), RPG (New Jersey, USA), Salford University (Manchester, UK), London South Bank University (London, UK), King's College (London, UK), Université du Mans LAUM (France), Université de Tours UMR INSERM U1253 (France), Université de Strasbourg - CNRS (France), European Space Agency (France), MetAcoustic (France), University of Moscow (Russia), Universidad de Cali (Colombia), Instituto de Tecnologías Físicas y de



la Información Leonardo Torres Quevedo CSIC (Spain), CINAC Hospitales de Madrid (Spain)

- **Organizing committees for international conferences** : 10 (IEEE IUS 2021-24, Forum Acusticum, META conferences 2022-24, FIA2024)
- **Chairman / moderator**: in >25 sessions of international congresses.
- **Journal reviewer**: >30 JCR journals (Phys. Rev. Lett., Nat. Coms., Science Adv....)
- **Grant reviewer**: ERC (EU), AEI (Spain), ANR (France), ANID (Chile), ...

LEADERSHIP

- **Projects as P.I.**: 15, including 2 "Plan Nacional" (+1.8 M€ total).
- **Contracts with private companies as P.I.**: 3 (+120 k€).
- **Resources raised as a P.I.**: +1.9 M€ in the last 5 years.
- **Competitive Post-doc grants**: 6 (including **Ramón y Cajal Senior** 2021 excellence grant, Juan de la Cierva - Formación 2016, Juan de la Cierva - Incorporación 2019, ANR-CNRS France 2015, GVA APOSTD-2016, UPV-2017 PAID).
- **Group leader**: Therapeutic Ultrasound at I3M (CSIC). Advisor of 2 early-career postdoctoral researchers, 8 PhD students and 3 laboratory technicians, with own funding.
- **Innovation Manager** at the Business Innovation Scientific Unit (Unitat Científica d'Innovació Empresarial, UCIE), of the I3M (CSIC-UPV), funded by "Agencia Valenciana de la Innovació" with 0.5 M€.
- Leader of the **Scientific Advisory Board** of HOLOSONIC SL
- **Awards**: 6 (RSEF, SFA, SEA, ...)



Noé Jiménez González

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ResearcherID: **A-6482-2011**
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Personal web page: **<http://nojigon.webs.upv.es>**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Department: Sistemas de Terapia e Imagen Médica, Instituto de Instrumentación para Imagen Molecular
Professional category: Científico Titular
Start date: 09/01/2024
Type of contract: Civil servant
Dedication regime: Full time
Identify key words: Physics - Acoustic physics; Medical images

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Politécnica de Valencia	"Ramón y Cajal" postdoctoral researcher	01/01/2023
2	Universidad Politécnica de Valencia	"Juan de la Cierva - Incorporación" postdoctoral researcher	01/01/2020
3	Universidad Politécnica de Valencia	Postdoctoral researcher	16/09/2019
4	Consejo Superior de Investigaciones Científicas (CSIC)	Postdoctoral researcher	15/09/2017
5	Centre National de la Recherche Scientifique (CNRS)	Postdoctoral researcher	01/12/2015
6	Universidad Politécnica de Valencia	Superior Research Technician (FPI)	01/12/2013
7	Universidad Politécnica de Valencia	Predocctoral Contract (FPI)	01/12/2011
8	Universidad Politécnica de Valencia	Excellence Research Grant "Beca de Excelencia"	01/02/2011
9	Universidad Politécnica de Valencia	Researcher "Beca de Especialización de Primer Ciclo"	01/06/2010
10	Universidad Politécnica de Valencia	Researcher "Beca de Colaboración"	01/02/2010
11	Universidad Politécnica de Valencia	Researcher "Beca de Colaboración"	01/05/2009

1 **Employing entity:** Universidad Politécnica de Valencia
Type of entity: University
Department: Instituto de Instrumentación para Imagen Molecular



City employing entity: Valencia, Spain
Professional category: "Ramón y Cajal" postdoctoral researcher
Start-End date: 01/01/2023 - 08/01/2024 **Duration:** 1 year - 8 days
Type of contract: Temporary employment contract
Performed tasks: Excellence postdoctoral contract funded by the Spanish Ministry of Science, Universities and Innovation through grant "Ramón y Cajal" (RYC2021-034920-I).

2 **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Instrumentación para Imagen Molecular
Professional category: "Juan de la Cierva - Incorporación" postdoctoral researcher
Start-End date: 01/01/2020 - 31/12/2022 **Duration:** 3 years
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Postdoctoral contract funded by the Spanish Ministry of Science, Universities and Innovation through grant "Juan de la Cierva - Incorporación" (IJC2018-037897-I).

3 **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Instrumentación para Imagen Molecular
Professional category: Postdoctoral researcher
Start-End date: 16/09/2019 - 31/12/2019 **Duration:** 3 months - 15 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Postdoctoral contract funded by the Agencia Valenciana de la Innovación, grant INNCON00/18/9

4 **Employing entity:** Consejo Superior de Investigaciones Científicas (CSIC) **Type of entity:** State agency
Department: Instituto de Instrumentación para Imagen Molecular
City employing entity: Valencia, Spain
Professional category: Postdoctoral researcher
Start-End date: 15/09/2017 - 15/09/2019 **Duration:** 2 years
Dedication regime: Full time
Performed tasks: Postdoctoral contract funded by the Generalitat Valenciana through grant "Subvenciones para la contratación de personal investigador en fase postdoctoral" GVA-APOST-2017

5 **Employing entity:** Centre National de la Recherche Scientifique (CNRS)
Department: Laboratoire d'Acoustique de la Université du Maine, UMR-6613 CNRS
City employing entity: Le Mans, France
Professional category: Postdoctoral researcher
Start-End date: 01/12/2015 - 31/08/2017 **Duration:** 2 years
Dedication regime: Full time
Performed tasks: Postdoctoral Researcher funded by the Agence Nationale de la Recherche, grant ANR-13-BS09-0003

6 **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Superior Research Technician (FPI)
Start-End date: 01/12/2013 - 30/11/2015 **Duration:** 2 years



Dedication regime: Full time

- 7** **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Predoctoral Contract (FPI)
Start-End date: 01/12/2011 - 30/11/2013 **Duration:** 2 years
Dedication regime: Full time
- 8** **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Excellence Research Grant "Beca de Excelencia"
Start-End date: 01/02/2011 - 30/11/2011 **Duration:** 11 months
Dedication regime: Full time
- 9** **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Researcher "Beca de Especialización de Primer Ciclo"
Start-End date: 01/06/2010 - 30/12/2010 **Duration:** 7 months
Dedication regime: Full time
- 10** **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Researcher "Beca de Colaboración"
Start-End date: 01/02/2010 - 31/05/2010 **Duration:** 4 months
Dedication regime: Full time
- 11** **Employing entity:** Universidad Politécnica de Valencia **Type of entity:** University
Department: Instituto de Investigación para la Gestión Integrada de Zonas Costeras
Professional category: Researcher "Beca de Colaboración"
Start-End date: 01/05/2009 - 30/09/2009 **Duration:** 6 months
Dedication regime: Full time



Education

University education

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

- 1 University degree:** Higher degree
Name of qualification: Máster Universitario en Ingeniería Acústica
Degree awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
Date of qualification: 01/03/2010
- 2 University degree:** Certificado
Name of qualification: Certificado de Aptitud Pedagógica (CAP)
Degree awarding entity: Instituto de Ciencias de la Educación, Universidad Politécnica de Valencia **Type of entity:** University
Date of qualification: 01/06/2009
- 3 University degree:** Middle degree
Name of qualification: Ingeniero Técnico de Telecomunicación, especialidad en Sonido e Imagen
Degree awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
Date of qualification: 20/06/2007

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Matemática Aplicada
Degree awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
Date of degree: 29/06/2015
European doctorate: Yes **Date of certificate:** 29/06/2015
Thesis title: Nonlinear Acoustic Waves in Complex Media
Thesis director: Francisco Camarena Femenia
Obtained qualification: Cum Laude (with European mention and Extraordinary award given by the Universitat Politècnica de València)
Recognition of quality: Yes
Special doctorate award: Yes **Date of award:** 27/06/2017



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

- 1** **Training title:** Formación de profesorado - Tutor de primero de grado
Awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
End date: 26/10/2022 **Duration in hours:** 10 hours
- 2** **Training title:** Creación de contenidos visuales: la imagen como elemento de conexión con el alumno
Awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
End date: 01/10/2021 **Duration in hours:** 4 hours
- 3** **Training title:** Creación de vídeos con preguntas interactivas con Stream y Forms de Microsoft 365
Awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
End date: 27/09/2021 **Duration in hours:** 3 hours
- 4** **Training title:** Educación de la voz
Awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
End date: 16/09/2021 **Duration in hours:** 10 hours
- 5** **Type of training:** Course
Training title: Training School 5: Use and characterisation of new acoustic treatments and tools
City awarding entity: Budapest, Hungary
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Óbuda University
End date: 18/12/2019 **Duration in hours:** 40 hours
- 6** **Training title:** Preparación de propuestas tipo ERC (European Research Council)
Awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
End date: 07/11/2019 **Duration in hours:** 7 hours
- 7** **Type of training:** Course
Training title: Ultrasound Phased-Arrays systems: Verasonics' Customer Training
City awarding entity: Washington, United States of America
Awarding entity: Verasonics Inc **Type of entity:** Business
End date: 12/06/2019 **Duration in hours:** 10 hours
- 8** **Type of training:** Course
Training title: III simposio cátedra IVIO-UPV "Implantología oral: De la planificación a la ejecución"
City awarding entity: Gandia, Spain
Awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
End date: 29/03/2019 **Duration in hours:** 8 hours
- 9** **Type of training:** Course
Training title: Workshop: Working days on design and characterisation of innovative noise reducing materials and structures
City awarding entity: Kuopio, Finland
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, University of Eastern Finland
End date: 10/10/2018 **Duration in hours:** 30 hours



- 10** **Type of training:** Course
Training title: Training School 3: Experimental techniques for acoustic porous materials and metamaterials
City awarding entity: Le Mans, France
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Université du Mans
End date: 06/12/2017 **Duration in hours:** 40 hours
- 11** **Type of training:** Practical work
Training title: Sandpit: New approaches to design of noise reducing materials and structures
City awarding entity: Novi Sad, Serbia
Awarding entity: University of Novi Sad - DENORMS COST Action (European Cooperation in Science and Technology) - EU Horizon 2020
End date: 17/09/2017 **Type of entity:** University **Duration in hours:** 40 hours
- 12** **Type of training:** Course
Training title: Workshop Sandpit: New approaches to design of noise reducing materials and structures
City awarding entity: Novi Sad, Serbia
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, University of Novi Sad
End date: 13/09/2017 **Type of entity:** University **Duration in hours:** 20 hours
- 13** **Type of training:** Course
Training title: GDR Meta thematic day: Industrial applications of acoustic metamaterials
City awarding entity: Marseille, France
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Aix-Marseille Université
End date: 01/09/2017 **Type of entity:** University **Duration in hours:** 10 hours
- 14** **Type of training:** Course
Training title: Metagineering 2017 summer school: Principles and engineering applications of acoustics metamaterials
City awarding entity: Olerón, France
Awarding entity: Centre National de la Recherche Scientifique (CNRS)
End date: 07/07/2017 **Duration in hours:** 144 hours
- 15** **Type of training:** Course
Training title: Workshop: Multifunctional structured materials for audible sound absorption
City awarding entity: Rome, Italy
Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, University Roma Tre
End date: 25/01/2017 **Type of entity:** University **Duration in hours:** 40 hours
- 16** **Type of training:** Course
Training title: Training School 2: Acoustic waves propagation in porous materials
City awarding entity: Prague, Czech Republic
Type of entity: University



Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020, Czech Technical University

End date: 30/09/2016

Duration in hours: 40 hours

17 Type of training: Course

Training title: Training School 1: Modelling of acoustic metamaterials, metasurfaces and sonic crystals

City awarding entity: Prague, Czech Republic

Awarding entity: COST Action DENORMS (European Cooperation in Science and Technology) - EU Horizon 2020

End date: 28/09/2016

Duration in hours: 40 hours

18 Training title: Advanced instrumentation systems

Awarding entity: Universidad Politécnica de Valencia

End date: 01/07/2012

Type of entity: University

Duration in hours: 45 hours

19 Training title: English B1.2

Awarding entity: Universidad Politécnica de Valencia

End date: 01/05/2011

Type of entity: University

Duration in hours: 50 hours

20 Training title: Finite difference methods

Awarding entity: Universidad Politécnica de Valencia

End date: 04/03/2011

Type of entity: University

Duration in hours: 10 hours

21 Training title: Computational fluids dynamics for engineering

Awarding entity: Universidad Politécnica de Valencia

End date: 03/03/2011

Type of entity: University

Duration in hours: 15 hours

22 Training title: Modelling with COMSOL Multiphysics V.4

Awarding entity: Addlink Software S.L.

End date: 04/11/2010

Duration in hours: 8 hours

23 Training title: Advanced morphological signal/image processing

Awarding entity: Universidad Politécnica de Valencia

End date: 24/04/2010

Type of entity: University

Duration in hours: 15 hours

24 Training title: Design and performance of ultrasonic devices for cutting applications

Awarding entity: Universidad Politécnica de Valencia

End date: 03/06/2009

Type of entity: University

Duration in hours: 5 hours

25 Training title: Line arrays

Awarding entity: Universidad Politécnica de Valencia

End date: 15/05/2008

Type of entity: University

Duration in hours: 5 hours

26 Training title: Audio edition and mixing with Protools

Awarding entity: Universidad Politécnica de Valencia

End date: 09/03/2006

Type of entity: University

Duration in hours: 32 hours



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	B1	B1	B1	B1	B1
French	B2	B2	B2	B2	B1
English	C1	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: Física II
Type of programme: Engineering **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Grado en Ingeniería de Tecnologías y Servicios de Telecomunicación
Start date: 01/01/2022 **End date:** 30/06/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
Department: Física Aplicada
- 2** **Name of the course:** Sistemas de Imagen para el Diagnóstico Médico
University degree: Máster Universitario en Física Médica
Start date: 01/01/2022 **End date:** 30/06/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 4
Entity: Universitat de València **Type of entity:** University
Faculty, institute or centre: Facultad de Física
- 3** **Type of teaching:** Official teaching
Name of the course: Fundamentos de Acústica
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Máster Universitario en Ingeniería Acústica
Start date: 15/09/2021 **End date:** 31/01/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 36
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada



- 4** **Type of teaching:** Official teaching
Name of the course: Ultrasonidos y aplicaciones
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Core
University degree: Grado en ingeniería en sonido e imagen en telecomunicación
Start date: 22/11/2021 **End date:** 23/11/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universidad de Alicante **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior
Department: Física, ingeniería de sistemas y teoría de la señal
- 5** **Type of teaching:** Official teaching
Name of the course: Acústica Arquitectónica
Type of programme: Engineering **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Grado en Ingeniería de Tecnologías y Servicios de Telecomunicación
Start date: 01/01/2021 **End date:** 30/06/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
Department: Física Aplicada
- 6** **Type of teaching:** Official teaching
Name of the course: Física II
Type of programme: Engineering **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Grado en Ingeniería de Tecnologías y Servicios de Telecomunicación
Start date: 01/01/2021 **End date:** 30/06/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 36
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales
Department: Física Aplicada
- 7** **Name of the course:** Sistemas de Imagen para el Diagnóstico Médico
University degree: Máster Universitario en Física Médica
Start date: 01/01/2021 **End date:** 30/06/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 10
Entity: Universitat de València **Type of entity:** University
Faculty, institute or centre: Facultad de Física
- 8** **Type of teaching:** Official teaching
Name of the course: Fundamentos de Acústica
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Máster Universitario en Ingeniería Acústica
Start date: 15/09/2020 **End date:** 31/01/2021
Type of hours/ ECTS credits: Hours



Hours/ECTS credits: 36

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada

9 Type of teaching: Official teaching

Name of the course: Ultrasonidos y aplicaciones

Type of programme: Engineering

Type of teaching: In person theory

Type of subject: Core

University degree: Grado en ingeniería en sonido e imagen en telecomunicación

Start date: 22/11/2020

End date: 23/11/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universidad de Alicante

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Física, ingeniería de sistemas y teoría de la señal

10 Type of teaching: Official teaching

Name of the course: Física II

Type of programme: Engineering

Type of teaching: Laboratory work

Type of subject: Core

University degree: Grado en Ingeniería en Tecnologías Industriales

Start date: 01/01/2020

End date: 30/06/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 28

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

Department: Física Aplicada

11 Type of teaching: Official teaching

Name of the course: Física III

Type of programme: Engineering

Type of teaching: Laboratory work

Type of subject: Core

University degree: Grado en Ingeniería en Tecnologías Industriales

Start date: 15/09/2018

End date: 31/01/2019

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Industriales

Department: Física Aplicada

12 Type of teaching: Official teaching

Name of the course: Fundamentos de Acústica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Core

University degree: Máster Universitario en Ingeniería Acústica

Start date: 15/09/2018

End date: 31/01/2019

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 30

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía



Department: Física Aplicada

13 Type of teaching: Official teaching

Name of the course: Acústica

Type of programme: Engineering

Type of teaching: In person theory

Type of subject: Optional

University degree: Grado en Ingeniería de Sistemas de Telecomunicación, Sonido e Imagen

Start date: 01/09/2018

End date: 31/01/2019

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 40

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada

14 Type of teaching: Official teaching

Name of the course: Ultrasonidos y aplicaciones

Type of programme: Engineering

Type of teaching: In person theory

Type of subject: Core

University degree: Grado en ingeniería en sonido e imagen en telecomunicación

Start date: 22/11/2018

End date: 23/11/2018

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universidad de Alicante

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Física, ingeniería de sistemas y teoría de la señal

15 Type of teaching: Official teaching

Name of the course: Ultrasonidos

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

University degree: Máster Universitario en Ingeniería Acústica

Start date: 01/02/2018

End date: 30/06/2018

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada

16 Type of teaching: Official teaching

Name of the course: Fundamentos de Acústica

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Core

University degree: Máster Universitario en Ingeniería Acústica

Start date: 15/09/2017

End date: 31/01/2018

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 35

Entity: Universidad Politécnica de Valencia

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Gandía

Department: Física Aplicada



- 17** **Type of teaching:** Official teaching
Name of the course: Psicoacústica
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 01/02/2017 **End date:** 30/06/2017
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
- 18** **Type of teaching:** Official teaching
Name of the course: Técnicas de simulación en acústica
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 01/02/2017 **End date:** 30/06/2017
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
- 19** **Type of teaching:** Official teaching
Name of the course: Técnicas de simulación en acústica
Type of programme: Master's degree **Type of teaching:** Practical work (classroom-problems)
Type of subject: Optional
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 01/02/2012 **End date:** 30/04/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
Subject language: Spanish
- 20** **Type of teaching:** Official teaching
Name of the course: Simulación de sólidos mediante FDTD
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 01/06/2011 **End date:** 30/06/2011
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 2
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía



Department: Física Aplicada
Subject language: Spanish

- 21** **Type of teaching:** Official teaching
Name of the course: FDTD en sólidos
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 05/05/2011 **End date:** 05/05/2011
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 2
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
Subject language: Spanish
- 22** **Type of teaching:** Official teaching
Name of the course: Acústica de salas
Type of programme: Master's degree **Type of teaching:** Practical work (classroom-problems)
Type of subject: Obligatory
University degree: Máster Universitario en Ingeniería Acústica
Frequency of the activity: 1
Start date: 01/02/2011 **End date:** 30/04/2011
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 5
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada
Subject language: Spanish
- 23** **Type of teaching:** Official teaching
Name of the course: Ultrasonidos y aplicaciones industriales
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Optional
University degree: Grado en Ingeniería de Sistemas de Telecomunicación, Sonido e Imagen
Start date: 01/02/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 35
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior de Gandía
Department: Física Aplicada



Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Acoustic Vortices For Efficient Kidney Stone Fragmentation
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez; Alejandro Cebrecos
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Sergio Maldonado Ortega
Obtained qualification: in progress (started on 2024)
Date of reading: 31/12/2027
- 2 Project title:** Advanced Acoustic Holograms For Biomedical Ultrasound Applications
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez; Francisco Camarena
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Víctor Vegas Luque
Obtained qualification: in progress (started on 2024)
Date of reading: 31/12/2027
- 3 Project title:** Spatiotemporal Coding For Biomedical Ultrasound Imaging
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Maria Elisa Pérez Sirvent
Obtained qualification: in progress (started on 2024)
Date of reading: 31/12/2027
- 4 Project title:** Marco Metodológico Para La Monitorización Online De La Dosis-Respuesta En La Apertura De La Barrera Hematoencefálica Mediante Ultrasonido Focal
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez; José A. Pineda Pardo
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Castillo Ortiz Marta Castillo Ortiz
Obtained qualification: in progress (started on 2023)
Date of reading: 01/01/2027
- 5 Project title:** Low-Cost Magnetic Resonance-Guided Holographic Ultrasound For Brain Therapy
Type of project: Doctoral thesis
Co-director of thesis: Alicia Carrión; Noé Jiménez; Francisco Camarena
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Alba Eroles Simó
Obtained qualification: in progress (started on 2022)
Date of reading: 31/12/2026
- 6 Project title:** Air-Coupled Biomedical Ultrasound Imaging And Tissue Manipulation Using Metamaterials
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez; Francisco Camarena
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: José Manuel Requena Plens
Obtained qualification: in progress (started on 2021)



Date of reading: 27/06/2025

- 7** **Project title:** Ultrasound Imaging and Therapy using Acoustic Vortices
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez; Francisco Camarena
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Enrique Manuel González Mateo
Obtained qualification: in progress (started on 2021)
Date of reading: 30/05/2025
- 8** **Project title:** Advanced Ultrasound Imaging To Monitor Therapeutic Ultrasound In Complex Media
Type of project: Doctoral thesis
Co-director of thesis: Francisco Camarena; Noé Jiménez
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Nathalie Lamothe
Obtained qualification: in progress (started on 2021)
Date of reading: 01/01/2025
- 9** **Project title:** Transcranial Ultrasound Holograms for the Treatment of Neurological Diseases
Type of project: Doctoral thesis
Co-director of thesis: Noé Jiménez; José M. Benlloch
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Diana Andrés Bautista
Obtained qualification: 10, Cum Laude
Date of reading: 30/05/2024
European doctorate: Yes **Date of recognition:** 30/05/2024
Quality recognition: Yes **Date of award:** 30/05/2024
- 10** **Project title:** Efectos y mejoras en el rendimiento escolar generado por el acondicionamiento acústico en un aula de clase de escuela primaria en Vilassar de Mar (Cataluña)
Type of project: Minor thesis
Entity: Universitat Politècnica de València **Type of entity:** University
Student: Manuel Andrés Salcedo Sandoval
Obtained qualification: 10, Cum Laude
Date of reading: 26/07/2023
- 11** **Project title:** Ondas transversales focalizadas para cirugía sin incisión
Type of project: Minor thesis
Entity: Universitat de València **Type of entity:** University
Student: Carla Selene Brandemann
Obtained qualification: 7.8
Date of reading: 18/07/2022
- 12** **Project title:** Metamaterial absorbente de alta porosidad para problemas en transmisión
Type of project: Minor thesis
Entity: Universidad Austral de Chile / Universitat Politècnica de València **Type of entity:** University
Student: Enrique González Mateo
Obtained qualification: 10, Cum Laude
Date of reading: 05/10/2021



- 13** **Project title:** Transcranial Ultrasound Holograms For The Blood-Brain Barrier Opening
Type of project: Doctoral thesis
Co-director of thesis: Francisco Camarena; Noé Jiménez
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Sergio Jiménez Gambín
Obtained qualification: Cum Laude
Date of reading: 23/07/2021
European doctorate: Yes
Quality recognition: Yes
- 14** **Project title:** Estudio Numérico y Experimental para Evaluar el Rendimiento de Algoritmos de Reconstrucción de Imagen Empleados en Tomografía Fotoacústica
Type of project: Minor thesis
Co-director of thesis: Alejandro Cebrecos; Francisco Camarena; Noé Jimenez
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Irene Pi Martín
Obtained qualification: 10, Mat. Honor.
Date of reading: 21/07/2021
- 15** **Project title:** Transductores de Ultrasonidos en Aire Ultradirectivos Basados en Metamateriales
Type of project: Minor thesis
Co-director of thesis: Noé Jimenez; José Manuel Requena-Plens; Francisco Camarena
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Alberto Férez García
Obtained qualification: 7,5
Date of reading: 21/07/2021
- 16** **Project title:** Estudio numérico y experimental para evaluar el rendimiento de algoritmos de reconstrucción de imagen empleados en tomografía fotoacústica
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Irene Pi Martín
Obtained qualification: 10, Mat. Honor
Date of reading: 26/06/2021
- 17** **Project title:** Hologramas acústicos para aplicaciones de terapia ultrasónica
Type of project: Minor thesis
Entity: Universitat de València **Type of entity:** University
Student: Diana Andrés Bautista
Obtained qualification: 10, Mat. Honor
Date of reading: 06/07/2020
- 18** **Project title:** Difusores acústicos basados en resonadores de membrana y placa
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: José Manuel Requena Plens
Obtained qualification: Matrícula de Honor, mención especial del jurado
Date of reading: 26/10/2019



- 19** **Project title:** Imagen elastográfica empleando vórtices ultrasónicos
Type of project: Minor thesis
Entity: Universitat de València **Type of entity:** University
Student: Andrei Cristian Marin
Obtained qualification: 10, Mat. Honor
Date of reading: 05/07/2019
- 20** **Project title:** Diseño y desarrollo de sistemas ultrasónicos para la detección y eliminación de obstrucciones en conductos de bombas de gasóleo
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: José Antonio López Navarro
Obtained qualification: Sobresaliente
Date of reading: 27/03/2019
- 21** **Project title:** Caracterización de un medio viscoelástico mediante un sistema mixto magnético ultrasónico
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Juan Antonio Sanchez Garcia
Obtained qualification: Notable
Date of reading: 28/02/2019
- 22** **Project title:** Técnicas Ultrasónicas No Destructivas para la Monitorización del Proceso de Regeneración Ósea Guiada
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Yolanda Pamies Rodríguez
Obtained qualification: Matric. Honor
Date of reading: 27/09/2018
Quality recognition: Yes
- 23** **Project title:** Desarrollo de un sistema mixto magnético-ultrasónico para la caracterización de medios viscoelásticos
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Miguel Company Arnalte
Obtained qualification: Sobresaliente
Date of reading: 28/03/2018
- 24** **Project title:** Sonic vortex spiral-diffusers
Type of project: Minor thesis
Entity: Université du Maine **Type of entity:** University
City of entity: Le Mans, France
Student: Nicolas Guarderas
Obtained qualification: 9.3
Date of reading: 03/06/2017
- 25** **Project title:** Estudios sobre la propagación transcraneal de ultrasonidos
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Sergio Jiménez Gambín



Obtained qualification: Sobresaliente
Date of reading: 19/09/2016

- 26** **Project title:** Modélisation des ondes de surface à la surface d'une pomme
Type of project: Minor thesis
Entity: Université du Maine **Type of entity:** University
City of entity: Le Mans, France
Student: Xiaoyang Yu
Obtained qualification: 9
Date of reading: 12/07/2016
- 27** **Project title:** Caracterización de un dispositivo elastográfico
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Maria Rocio Peña Maestre
Obtained qualification: Sobresaliente
Date of reading: 26/09/2013
- 28** **Project title:** Influencia de las diferentes disposiciones orquestales en la percepción acústica del director de orquesta
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Vicente Mendoza Sánchez
Obtained qualification: Notable
Date of reading: 25/09/2013
- 29** **Project title:** Estudio paramétrico de la propagación transcraneal de un haz ultrasónico para la apertura de la barrera hematoencefálica
Type of project: Minor thesis
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Pablo Iglesias Cambor
Obtained qualification: Matric. Honor
Date of reading: 23/07/2013
- 30** **Project title:** Diseño y programación de una herramienta de predicción del campo acústico generado por array de subgraves
Type of project: End of course project
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Pablo Cambor Iglesias
Obtained qualification: Matric. Honor
Date of reading: 21/09/2012
- 31** **Project title:** Propagación de ondas transversales generadas con fuerza de radiación
Type of project: End of course project
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Luis José Salmerón Contreras
Obtained qualification: Aprobado
Date of reading: 23/12/2011



- 32** **Project title:** Analysis of business model and value proposition for a novel preclinical ultrasonic medical device
Type of project: End of course project
Entity: Hochschule München University of Applied Sciences **Type of entity:** University
Student: Christopher Kain
Obtained qualification: 9

Courses and seminars given

- 1** **Type of event:** Course
Name of the event: European Summer School on Physical Acoustics
City organizing entity: Cargèse, France
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Aims of the course: This Summer School 16 - 20 September 2024, contains a rich technical program starting from the basics of ultrasound through different specialty fields including radiation forces, streaming, holograms, and bubble dynamics.
Hours of teaching: 72 **Teaching language:** English
Teaching date: 19/09/2024
Type of participation: Organizational - Scientific and organizing committee
- 2** **Type of event:** Course
Name of the event: European Summer School on Physical Acoustics
City organizing entity: Cargèse, France
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Aims of the course: This Summer School 16 - 20 September 2024, contains a rich technical program starting from the basics of ultrasound through different specialty fields including radiation forces, streaming, holograms, and bubble dynamics.
Hours of teaching: 5 **Teaching language:** English
Teaching date: 19/09/2024
Type of participation: Participatory - Plenary session
- 3** **Type of event:** Course
Name of the event: Erasmus Mundus Master Waves Summer School. New Trends in Ultrasound Applications
City organizing entity: Gandia, Spain
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Aims of the course: This Summer School 17-20 July 2024 aimed to provide an up-to-date view of new trends in ultrasound applications, both in the medical and industrial fields.
Hours of teaching: 5 **Teaching language:** English
Teaching date: 18/07/2024
Type of participation: Participatory - Plenary session
- 4** **Type of event:** Course
Name of the event: Training School on Acoustic & Elastic (Meta)-Materials
City organizing entity: Valencia, Spain
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Aims of the course: This Winter School 13-17 November 2023 aimed to provide a common theoretical basis for researchers and engineers working on acoustic and elastic structured materials. The training comprised theoretical and practical courses and followed a scheme of increasing complexity.
Hours of teaching: 72 **Teaching language:** English
Teaching date: 13/10/2023
Type of participation: Organizational - Scientific and organizing committee



- 5** **Type of event:** Course
Name of the event: Summer School on Acoustic Metamaterials
City organizing entity: Torino, Italy
Organising entity: Politecnico di Torino **Type of entity:** University
Aims of the course: This Summer School aimed at the academic, industrial and Early Career Investigators. The training offered 08 to 10 September 2023 in theoretical and experimental aspects of acoustic metamaterial design for sound absorbing and sound controlling structures.
Hours of teaching: 20 **Teaching language:** English
Teaching date: 08/09/2023
Type of participation: Participatory - Plenary session
- 6** **Type of event:** Course
Name of the event: Autumn School Series in Acoustics: ASSA 2022 Building and Room Acoustics
City organizing entity: Eindhoven, Holland
Organising entity: Eindhoven University of Technology **Type of entity:** University
Aims of the course: Autumn School Series in Acoustics (ASSA) is a yearly-returning one-week school on a post-graduate Ph.D. level held at Eindhoven University of Technology (TU/e). This edition was held 07-11 November 2022, lectures on Acoustic Materials.
Hours of teaching: 5 **Teaching language:** English
Teaching date: 11/11/2022
Type of participation: Participatory - Plenary session
- 7** **Type of event:** Post Graduate Course
Name of the event: Use and characterisation of new acoustic treatments and tools
City organizing entity: Budapest, Hungary
Organising entity: Óbuda University **Type of entity:** University
Aims of the course: This Training school is aimed at the industrial partners and Early Career Investigators. The training will be offered in both theoretical and experimental aspects of developing new sound absorbing and sound controlling structures.
Hours of teaching: 8
Teaching date: 16/12/2019
Type of participation: Participatory - Plenary session
- 8** **Type of event:** Post Graduate Course
Name of the event: Fundamentos de los Ultrasonidos
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Aims of the course: El curso de "Fundamentos y Aplicaciones de los Ultrasonidos" abordará la descripción de los fenómenos físicos involucrados en la generación, propagación y detección de ondas ultrasónicas, así como el diseño y especificación de equipos ultrasónicos utilizados en aplicaciones de análisis no destructivo, imagen y potencia, tanto en el sector médico como en el industrial.
Hours of teaching: 14
Teaching date: 19/11/2018
- 9** **Type of event:** Post Graduate Course
Name of the event: Fundamentos y Aplicaciones de los Ultrasonidos
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Aims of the course: El curso de "Fundamentos y Aplicaciones de los Ultrasonidos" abordará la descripción de los fenómenos físicos involucrados en la generación, propagación y detección de ondas ultrasónicas, así como el diseño y especificación de equipos ultrasónicos utilizados en aplicaciones de análisis no destructivo, imagen y potencia, tanto en el sector médico como en el industrial.
Hours of teaching: 10



Teaching date: 01/05/2018

10 Type of event: Post Graduate Course

Name of the event: Modelling of high performance acoustic structures Porous media, metamaterials and sonic crystals

City organizing entity: Roma, Italy

Organising entity: Roma Tre University

Type of entity: University

Aims of the course: This Workshop was dedicated to theoretical and numerical modelling of acoustic treatments made of porous materials and periodic structures. The Workshop also had a session on Multiphysics applications including electromagnetics aimed at broadening the scope of theoretical and numerical results available in different areas of Physics and Mathematics.

Hours of teaching: 6

Teaching date: 24/01/2017

Type of participation: Participatory - Plenary session

Corresponding author: Yes

Materials and other teaching or educational publications.

- 1** Diana Andrés; Noé Jiménez; Francisco Camarena. Modelling in Science Education and Learning, 10 - 1, pp. 1 - 18. 20/07/2022. ISSN 1988-3145
Name of the materials: Modelling the acoustic field generated by vibrating surfaces
Date of drafting: 19/05/2022
Format: Article(s)
Corresponding author: Yes
Position of signature: 2
- 2** Víctor Sánchez-Morcillo; Noé Jiménez; Nuria González; Serge Dos Santos; Ayache Bouakaz; Jennifer Chaline. Modelling in Science Education and Learning, 6 - 3, pp. 75 - 87. 01/06/2013. ISSN 1988-3145
Name of the materials: Modeling acoustically driven microbubbles by macroscopic discrete-mechanical analogues
Date of drafting: 01/06/2013
Format: Article(s)
DOI: 10.4995/msel.2013.1985
- 3** Nuria González; Noé Jiménez; Marcelino Ferri; Francisco Camarena; Rubén Picó. Modelling in Science Education and Learning, 6 - 12, pp. 131 - 143. 01/06/2013. ISSN 1988-3145
Name of the materials: Simulación numérica de una cerámica piezoeléctrica
Date of drafting: 01/06/2013
Format: Article(s)
DOI: 10.4995/msel.2013.1990
- 4** Noé Jiménez; Francisco Camarena. Modelling in Science Education and Learning, 12 - 1, pp. 113 - 125. 18/12/2018. ISSN 1988-3145
Name of the materials: Modelización de cerámicas y transductores piezoeléctricos vibrando en espesor mediante matrices de transferencia
Format: Article(s)
Corresponding author: Yes
Position of signature: 1



Participation in conferences with talks focused on teacher training

- 1** **Name of the event:** VI Jornadas de Modelización Matemática
Type of event: Conference
City of event: Valencia, Spain
Date of presentation: 25/05/2018
Organising entity: Universitat de València **Type of entity:** University
Modelización de cerámicas y transductores piezoeléctricos vibrando en espesor mediante matrices de transferencia.
- 2** **Name of the event:** VI Jornadas de Modelización Matemática
Type of event: Conference
City of event: Valencia, Spain
Date of presentation: 25/05/2018
Organising entity: Universitat de València **Type of entity:** University
Modelización de la dinámica de una esfera en el seno de un medio viscoelástico.
- 3** **Name of the event:** VI Jornadas de Modelización Matemática
Type of event: Conference
City of event: Valencia, Spain
Date of presentation: 25/05/2018
Organising entity: Universitat de València **Type of entity:** University
Modelling ultrasonic signal backscattering in bone-cement.
- 4** **Name of the event:** III Jornadas de Modelización Matemática
Type of event: Conference
City of event: Gandía, Spain
Date of presentation: 07/06/2012
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Modeling acoustically driven microbubbles by macroscopic discrete-mechanical analogues.
- 5** **Name of the event:** III Jornadas de Modelización Matemática
Type of event: Conference
City of event: Gandía, Spain
Date of presentation: 07/06/2012
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Simulación numérica de una cerámica piezoeléctrica.



Scientific and technological experience

Research and development groups/teams

Name of the group: Denorms COST Action

Aims of the group: Speed-dating with industrial partners, metamaterials technology transfer

Name of principal investigator: Jean-Philippe Groby

Number of members in the group: 60

Standardised code: CA15125

Type of collaboration: Co-authorship of protected modes of technology

City of group: Paris, France

Affiliation entity: European Cooperation in Science and Technology - Programme Horizon 2020

Narrative explanation: Design of subwavelength materials for aerospace industry (Embraer R&D)

Others: 80 international partners, 25 participating countries

Start date: 15/09/2016

Duration: 2 years

Scientific or technological activities

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

- 1** **Name of the project:** Desarrollo de Un Protocolo Estandar para la Realizacion de Estudios In Vitro e In Vivo Mediante Sonoforesis

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Francisco Camarena

Funding entity or bodies:

Agencia Estatal de Investigación

Type of participation: Team member

Name of the programme: Proyectos de Colaboración Publico Privada

Code according to the funding entity: CPP2022-009822

Start-End date: 01/12/2023 - 01/12/2026

Total amount: 200.000 €

- 2** **Name of the project:** Lentes Holograficas para el Tratamiento Ultrasonico de Trastornos Cerebrales

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Noé Jiménez; Francisco Camarena

Funding entity or bodies:

Agencia Estatal de Investigacion

Type of participation: Principal investigator

Name of the programme: Proyectos de Generación de Conocimiento

Code according to the funding entity: PID2022-142719OB-C21

Start-End date: 01/09/2023 - 01/09/2026

Total amount: 250.000 €



- 3** **Name of the project:** Hologramas caleidoscopicos para imagen y terapia en el cerebro empleando ultrasonidos de bajo coste
Entity where project took place: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Noé Jiménez
Funding entity or bodies: Agencia Estatal de Investigación
Type of participation: Principal investigator
Name of the programme: Consolidación Investigadora
Code according to the funding entity: CNS2023-145707
Start-End date: 01/04/2024 - 30/06/2026
Total amount: 200.000 €
- 4** **Name of the project:** Metasuperficies para el Control de Ultrasonidos: Formacion de Haces, Focalizacion, Absorcion y Difusion
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez; Vicent Romero-García
Funding entity or bodies: Generalitat Valenciana **Type of entity:** Body, others
Type of participation: Principal investigator
Name of the programme: Subvenciones para grupos de investigación consolidados
Code according to the funding entity: CIAICO/2022/052
Start-End date: 01/01/2023 - 31/12/2024
Total amount: 60.000 €
- 5** **Name of the project:** Elastographic and molecular multimodal imaging for prostate cancer
Geographical area: Regional
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 2
Funding entity or bodies: Universidad Politécnica de Valencia **Type of entity:** University
Type of participation: Team member
Name of the programme: Contratos de Acceso al Sistema Español de Ciencia
Code according to the funding entity: PAID-10-19
Start-End date: 01/12/2019 - 01/12/2024
Total amount: 26.903,74 €
- 6** **Name of the project:** Nueva generación de metasuperficies inteligentes basadas en fabricación aditiva para aplicaciones estratégicas en telecomunicaciones (METASMART)
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 3
Type of participation: Principal investigator
Start-End date: 06/05/2022 - 30/09/2024
Total amount: 1.000.000 € **Sub-project amount:** 94.900 €



- 7** **Name of the project:** Dispositivos biomédicos de diagnóstico y terapia con tecnologías físicas avanzadas
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 5
Funding entity or bodies: Agencia Valenciana de la Innovación
Name of the programme: Potenciación de unidades científicas de desarrollo de tecnologías y difusión del conocimiento hacia la empresa
Code according to the funding entity: INNVA2/2022/11
Start-End date: 01/01/2022 - 30/09/2024 **Duration:** 2 years
Total amount: 500.000 €
- 8** **Name of the project:** Prototipo de litotricia extracorpórea por vórtices acústicos
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 4
Funding entity or bodies: Agencia Valenciana de la Innovación **Type of entity:** State agency
Type of participation: Principal investigator
Name of the programme: Valorización y transferencia de resultados de investigación a las empresas L1
Code according to the funding entity: INNVA1/2022/37
Start-End date: 01/01/2022 - 31/12/2023 **Duration:** 2 years
Participating entity/entities: Instituto de Biomecánica de Valencia (IBV); Instituto de Investigación Sanitaria Hospital La-Fe de Valencia
Total amount: 248.000 €
- 9** **Name of the project:** Holosonic
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 2
Funding entity or bodies: Universidad Politécnica de Valencia **Type of entity:** University
Type of participation: Principal investigator
Name of the programme: Spin UPV
Code according to the funding entity: SPINUPV/2022/04
Start-End date: 12/09/2022 - 12/09/2023 **Duration:** 1 year
Total amount: 48.000 €
- 10** **Name of the project:** Nuevas técnicas para elastografía molecular multimodal
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jiménez; Francisco Camarena
Nº of researchers: 4
Funding entity or bodies:



Agencia Estatal de Investigación

Type of entity: State agency

Type of participation: Principal investigator

Name of the programme: Programa estatal de generación de conocimiento y fortalecimiento científico y tecnológico del sistema de I+D+i y de I+D+i orientada a los retos de la sociedad

Code according to the funding entity: PID2019-111436RB-C22

Start-End date: 01/06/2020 - 01/06/2023

Total amount: 89.903 €

11 Name of the project: Reconfigurable holographic metasurfaces for ultrasound therapy in neurology (CIAPE/2022/15)

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 1

Funding entity or bodies:

Generalitat Valenciana

Type of entity: Regional

Type of participation: Principal investigator

Start-End date: 01/01/2022 - 31/12/2022

Total amount: 6.000 €

12 Name of the project: Dispositivo para el tacto de la próstata como método objetivo de cribado del cáncer prostático

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

City of entity: Valencia, Spain

Name principal investigator (PI, Co-PI....): César David Vera-Donoso

Nº of researchers: 7

Name of the programme: Valorización y transferencia de resultados de investigación a las empresas

Code according to the funding entity: INNVA1/2021/62

Start-End date: 01/01/2021 - 31/12/2022

Duration: 2 years

Participating entity/entities: Fundación IIS La Fe; Instituto de Biomecánica de Valencia (IBV)

Total amount: 156.000 €

13 Name of the project: Iniciativa Estratégica De Diagnóstico - Diagnóstico por imagen

Geographical area: National

Entity where project took place: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Name principal investigator (PI, Co-PI....): M.-Pilar Marco; Cesar Fernandez

Nº of researchers: 21

Type of participation: Co-ordinator

Name of the programme: PTI - Salud Global

Code according to the funding entity: WP7-MI

Start-End date: 01/01/2021 - 31/12/2022

Total amount: 2.435.926 €

14 Name of the project: Desarrollo de un sistema ultrasónico de guía para procesos de cribado de cáncer prostático con un dispositivo de indentación

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 3

**Funding entity or bodies:**Fundación para la investigación del hospital la FE
valencia**Type of entity:** Foundation**Code according to the funding entity:** 20211075**Start-End date:** 13/12/2021 - 12/12/2022**Total amount:** 45.682 €**15 Name of the project:** Tecnología Ultrasonica para Aplicaciones Biomédicas**Entity where project took place:** Universidad
Politécnica de Valencia**Type of entity:** University**Nº of researchers:** 1**Funding entity or bodies:**

Generalitat Valenciana

Type of entity: Regional**Type of participation:** Principal investigator**Name of the programme:** Contratos Garantía Juvenil**Code according to the funding entity:** EDGJID/2021/189**Start-End date:** 16/11/2021 - 16/11/2022**Total amount:** 64.000 €**16 Name of the project:** Litotricia Extracorpórea por Vórtices Ultrasonicos**Entity where project took place:** Universidad
Politécnica de Valencia**Type of entity:** University**Name principal investigator (PI, Co-PI....):** Noé Jiménez**Nº of researchers:** 3**Funding entity or bodies:**

Universidad Politécnica de Valencia

Type of entity: University**Type of participation:** Principal investigator**Name of the programme:** INBIO Acciones Preparatorias**Code according to the funding entity:** AP2021-08**Start-End date:** 01/10/2021 - 01/10/2022**Participating entity/entities:** Hospital Universitario La Fe; Instituto de Investigación Sanitaria La Fe**Total amount:** 5.000 €**17 Name of the project:** Desarrollo de un sistema magnético-ultrasónico de imagen médica (MUSMI)**Type of project:** Basic research (including
archaeological digs, etc)**Geographical area:** Regional**Degree of contribution:** Researcher**Entity where project took place:** Universidad
Politécnica de Valencia**Type of entity:** University**Name principal investigator (PI, Co-PI....):** Francisco Camarena**Nº of researchers:** 6**Funding entity or bodies:**

Generalitat Valenciana

Type of entity: Comunidad Autónoma**Type of participation:** Team member**Name of the programme:** Subvenciones para grupos de investigación consolidables**Code according to the funding entity:** AICO/2020/268**Start-End date:** 01/01/2020 - 01/01/2022**Total amount:** 40.000 €



- 18** **Name of the project:** Tecnologías físicas de monitorización y tratamiento
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 5
Funding entity or bodies: Agencia Valenciana de la Innovación **Type of entity:** Public Research Body
Type of participation: Team member
Name of the programme: UCIE
Code according to the funding entity: 20210088
Start-End date: 01/01/2021 - 31/12/2021
Total amount: 250.000 €
- 19** **Name of the project:** Dispositivo de imagen elastográfica cuantitativa empleando vórtices acústicos
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Noé Jimenéz
Nº of researchers: 2
Funding entity or bodies: Agencia Valenciana de la Innovación **Type of entity:** Comunidad Autónoma
Type of participation: Principal investigator
Name of the programme: Programa de Valorización y Transferencia de Resultados de Investigación a las Empresas
Code according to the funding entity: INNVA1/2020/92
Start-End date: 01/01/2020 - 31/12/2021
Total amount: 149.861,6 €
- 20** **Name of the project:** Diseño y análisis de viabilidad de una nueva sonda transfontanelar para la detección temprana de accidentes cerebrovasculares en neonatos prematuros
Degree of contribution: Researcher
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Alicia Esparza Peidro
Type of participation: Team member
Name of the programme: INBIO Acciones Preparatorias
Code according to the funding entity: AP2020-19
Start-End date: 01/11/2020 - 01/11/2021
Total amount: 3.800 €
- 21** **Name of the project:** Dispositivo médico no invasivo para tratamiento de enfermedades neurológicas
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena
Nº of researchers: 3
Funding entity or bodies: Agència Valenciana de la Innovació **Type of entity:** Comunidad Autónoma
City funding entity: Valencia, Spain



Name of the programme: Programa de Valorización y Transferencia de Resultados de Investigación a las Empresas

Code according to the funding entity: INNVAL10/19/016

Start-End date: 01/01/2019 - 01/01/2021

Total amount: 144.740 €

22 Name of the project: Imagen, Terapia y Caracterización Ultrasónica

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

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 9

Funding entity or bodies:

Agencia Valenciana de la Innovación

Type of entity: Comunidad Autónoma

Name of the programme: Unidad Científica de Innovación Empresarial

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

Total amount: 90.000 €

23 Name of the project: Launch sound level reduction

Geographical area: European Union

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Víctor Sánchez Morcillo; Luis Miguel García-Raffi; Rubén Picó; Sergio Hoyas; Mario Lázaro; Noé Jiménez; Alejandro Cebreco; Vicente Romero-García; Jean-Phillippe Groby; V. Tournat; V. Pagneux; Francisco Simón Hidalgo; Pedro Cobo Parra; Marcos Chimeno Manguán; Elena Roibás Millán; Pablo Barriuso Feijoo; Víctor Andrés; Juan Fayos

Nº of researchers: 18

Funding entity or bodies:

EUROPEAN SPACE AGENCY (ESA)

Type of entity: Public Research Body

City funding entity: Noordwijk, Holland

Code according to the funding entity: ESA AO/1-9479/18/NL/LvH

Start-End date: 15/03/2019 - 15/09/2020

Duration: 1 year - 6 months

Participating entity/entities: CNRS/Laboratoire d'Acoustique de la Université du Mans; COMET Ingeniería; Consejo Superior de Investigaciones Científicas; Universidad Politécnica de Madrid; Universitat Politècnica de Valencia

Total amount: 350.000 €

24 Name of the project: Haces ultrasónicos para aplicaciones alimentarias y biomédicas

Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 11

Funding entity or bodies:

Agencia Valenciana de la Innovación

Type of entity: Comunidad Autónoma



Name of the programme: Unidad Científica de Innovación Empresarial
Code according to the funding entity: 20190144
Start-End date: 16/09/2019 - 01/01/2020
Total amount: 248.313,34 €

25 Name of the project: Equipos para técnicas mixtas electromagnéticas-ultrasónicas para imagen médica

Geographical area: Regional
Entity where project took place: Universitat Politècnica de València
Name principal investigator (PI, Co-PI....): Francisco Camarena Femenia
Nº of researchers: 9
Funding entity or bodies:
 Generalitat Valenciana **Type of entity:** Regional, Aut.
City funding entity: Valencia, Valencian Community, Spain

Name of the programme: Equipamiento e infraestructuras
Code according to the funding entity: IDIFEDER/2018/022
Start-End date: 01/01/2018 - 01/01/2020
Total amount: 398.185 €

26 Name of the project: Monitorización del proceso de regeneración ósea guiada en implantes dentales

Geographical area: Regional
Entity where project took place: Universidad Politècnica de Valencia **Type of entity:** University
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Rubén Picó Vila
Nº of researchers: 4
Funding entity or bodies:
 Fundación para el Fomento de la Investigación Sanitaria y Biomédica de la Comunitat Valenciana - FISABIO **Type of entity:** Foundation

Name of the programme: FISABIO
Code according to the funding entity: FISABIO2018-20180939-OSEODENT
Start-End date: 01/01/2019 - 31/12/2019 **Duration:** 1 year
Total amount: 1.400 €

27 Name of the project: Rôle de la mécanoperception dans la réponse immunitaire précoce des plantes

Geographical area: Francia
Entity where project took place: Laboratoire des Intéractions Plantes Microorganismes INRA-CNRS (UMR 0441/2594)
City of entity: Toulouse, France
Name principal investigator (PI, Co-PI....): Adelin Barbacci
Nº of researchers: 7
Funding entity or bodies:
 Institut National de la Recherche Agronomique **Type of entity:** State agency
City funding entity: Toulouse, France

Code according to the funding entity: AAP SPE 2018
Start-End date: 01/01/2018 - 31/12/2019
Total amount: 45.000 €



- 28** **Name of the project:** Metamaterials for novel biomedical ultrasound imaging and therapy applications
Geographical area: Regional
Entity where project took place: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Noé Jiménez
Nº of researchers: 4
Funding entity or bodies: Generalitat Valenciana **Type of entity:** Regional
City funding entity: Valencia, Valencian Community, Spain
Name of the programme: Proyectos de grupos Emergentes
Code according to the funding entity: GV/2018/011
Start-End date: 01/01/2018 - 31/12/2018
Total amount: 8.000 €
- 29** **Name of the project:** Acoustic waves in crystals, structured media and metamaterials
Geographical area: National
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Víctor José Sánchez Morcillo
Nº of researchers: 13
Funding entity or bodies: Ministerio de Economía y Competitividad **Type of entity:** State agency
City funding entity: Spain
Name of the programme: Programa estatal de fomento de la investigación científica y técnica de excelencia - Subprograma estatal de generación de conocimiento
Code according to the funding entity: FIS2015- 65998-C2-2-P
Start-End date: 01/01/2016 - 31/12/2018 **Duration:** 4 years
Participating entity/entities: CNRS; Georgia Institute of Technology; Universidad Abdelmaleek Essaadi Tetouan; Universidad Politécnica de Valencia; Universidad de Sevilla; Universitat Politècnica de Catalunya; University of Colorado Boulder; Université du Maine
Total amount: 157.290 €
- 30** **Name of the project:** Design of metamaterials for the absorption of audible sound
Geographical area: National
Entity where project took place: Centre National de la Recherche Scientifique (CNRS) **Type of entity:** Public Research Body
City of entity: Le Mans, Pays de la Loire, France
Name principal investigator (PI, Co-PI....): Jean-Philippe Groby
Nº of researchers: 17
Funding entity or bodies: Agence Nationale de la Recherche **Type of entity:** State agency
City funding entity: Paris, Île de France, France
Name of the programme: Projects ANR
Code according to the funding entity: ANR-13-BS09-0003
Start-End date: 01/09/2013 - 31/08/2017 **Duration:** 4 years
Participating entity/entities: LAUM Laboratoire d'Acoustique de l'Université du Maine, UMR6613 CNRS/Univ. du Maine; LGCB Laboratoire Génie Civil et Bâtiment; LISMMA Laboratoire d'Ingénierie des Systèmes Mécaniques et des Matériaux, EA2336 CNRS/Supméca



Total amount: 419.662 €

- 31** **Name of the project:** Sonic crystals for noise reduction at the launch pad
Geographical area: European Union
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Luis Miguel García Raffi
N° of researchers: 7
Funding entity or bodies: European Space Agency **Type of entity:** Public Research Body
Name of the programme: ESA Invitation to Tender
Code according to the funding entity: ESA-ITT-1-7094
Start-End date: 02/06/2014 - 02/03/2015 **Duration:** 9 months
Participating entity/entities: Universidad Politécnica de Valencia; Universitat Politècnica de Catalunya; University of Birmingham
Total amount: 50.000 €
- 32** **Name of the project:** Control de la difracción del sonido en medios modulados: focalización, filtrado espacial y otros efectos de conformación de haces tras la transmisión y reflexión
Geographical area: National
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Víctor Espinosa Roselló
N° of researchers: 9
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** Plan Nacional de Física
City funding entity: Madrid, Community of Madrid, Spain
Name of the programme: Plan Nacional de I+D+i. Suprograma de proyectos de investigación fundamental no orientada
Code according to the funding entity: FIS2011-29734-C02-02
Start-End date: 01/01/2012 - 31/12/2014 **Duration:** 18 months
Participating entity/entities: Universidad Politécnica de Valencia; Universitat Politècnica de Catalunya; Universitat de València
Total amount: 100.000 €
- 33** **Name of the project:** Mejora del pre y post-procesamiento de imágenes ecográficas y elastográficas mediante teoría fuzzy.
Geographical area: Regional
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Samuel Morillas Gómez
N° of researchers: 9
Funding entity or bodies: Universidad Politécnica de Valencia **Type of entity:** University
City funding entity: Valencia, Valencian Community, Spain
Name of the programme: Programa de Apoyo a la I+D+i
Code according to the funding entity: PAID-05-12-SP20120696
Start-End date: 31/12/2012 - 31/12/2013 **Duration:** 12 months
Participating entity/entities: Universidad Politécnica de Valencia
Total amount: 6.000 €



- 34** **Name of the project:** Implementación de un dispositivo de imagen elastográfica por fuerza de radiación
Geographical area: Regional
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena Femenia
Nº of researchers: 7
Funding entity or bodies: Universidad Politécnica de Valencia **Type of entity:** University
City funding entity: Valencia, Valencian Community, Spain
Name of the programme: Programas de Apoyo a la I+D+i
Code according to the funding entity: PAID-05-09-002-340
Start-End date: 01/12/2011 - 01/02/2013 **Duration:** 14 months
Participating entity/entities: Universidad Politécnica de Valencia
Total amount: 6.000 €
- 35** **Name of the project:** Optimización de técnicas ultrasónicas de diagnosis Basadas en vibroacustografía
Geographical area: Regional
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Rubén Picó Vila
Nº of researchers: 6
Funding entity or bodies: Universidad Politécnica de Valencia **Type of entity:** University
City funding entity: Valencia, Valencian Community, Spain
Name of the programme: Programas de Apoyo a la I+D+i
Code according to the funding entity: PAID-06-10-002-295
Start-End date: 01/11/2010 - 01/11/2012 **Duration:** 24 months
Participating entity/entities: Universidad Politécnica de Valencia
Total amount: 12.000 €
- 36** **Name of the project:** Construcción de un dispositivo HIFU monitorizado por ultrasonidos
Geographical area: Regional
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University
Name principal investigator (PI, Co-PI....): Francisco Camarena Femenia
Nº of researchers: 8
Funding entity or bodies: Universidad Politécnica de Valencia **Type of entity:** University
City funding entity: Valencia, Valencian Community, Spain
Name of the programme: Programas de Apoyo a la I+D+i
Code according to the funding entity: PAID-05-09-002-618
Start-End date: 15/12/2009 - 15/12/2010 **Duration:** 12 months
Participating entity/entities: Universidad Politécnica de Valencia
Total amount: 9.500 €
- 37** **Name of the project:** Control de la difracción del sonido por estructuras periódicas o cuasi-periódicas
Geographical area: Regional
Entity where project took place: Universidad Politécnica de Valencia **Type of entity:** University



Name principal investigator (PI, Co-PI....): Rubén Picó Vila

Nº of researchers: 4

Funding entity or bodies:

Generalitat Valenciana

Type of entity: Público

City funding entity: Valencia, Valencian Community, Spain

Name of the programme: Proyectos de grupos Emergentes

Code according to the funding entity: GV-2011-055

Start date: 01/01/2011

Duration: 24 months

Participating entity/entities: Universidad Politécnica de Valencia

Total amount: 4.500 €

38 Name of the project: Estudio experimental y numérico de la propagación de ultrasonidos en medios heterogéneos

Geographical area: Regional

Entity where project took place: Universidad Politécnica de Valencia

Type of entity: University

Name principal investigator (PI, Co-PI....): Francisco Javier Redondo Pastor

Nº of researchers: 4

Funding entity or bodies:

Universidad Politécnica de Valencia

Type of entity: University

City funding entity: Valencia, Valencian Community, Spain

Name of the programme: Programas de Apoyo a la I+D+i

Code according to the funding entity: PAID-06-08-002-58

Start date: 04/12/2008

Duration: 24 months

Participating entity/entities: Universidad Politécnica de Valencia

Total amount: 8.000 €

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

1 Name of the project: Compra Pública Precomercial Tecnologías no invasivas en neuromodulación (NeurHo)

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 7

Participating entity/entities: Universidad Politécnica de Valencia

Funding entity or bodies:

Centro para el Desarrollo Tecnológico Industrial

Type of entity: Business

Start date: 02/02/2024

Duration: 1 year - 10 months

Total amount: 9.500.000 €

Relevant results: First MRI-guided Therapeutic Ultrasound system for local neuromodulation. Low-field low-cost MRI combined with on acoustic holograms led to a cheap and portable and noninvasive brain neuromodulation system for deep-brain targeting.

2 Name of the project: Apoyo para el desarrollo técnico de un sistema de hipertermia por ultrasonidos para animales pequeños

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Alejandro Cebrecos



Nº of researchers: 3

Participating entity/entities: Universidad Politécnica de Valencia

Funding entity or bodies:

Scientia Bio Tech

Type of entity: Business

City funding entity: Valencia, Spain

Start date: 16/02/2022

Duration: 4 months

Total amount: 98.000 €

3 Name of the project: Apoyo para la monitorización y tratamiento de hipertermia localizada por ultrasonidos *in vivo*

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 3

Participating entity/entities: Universidad Politécnica de Valencia

Funding entity or bodies:

Scientia Bio Tech

Type of entity: Business

City funding entity: Valencia, Spain

Start date: 16/02/2022

Duration: 9 months

Total amount: 99.500 €

4 Name of the project: Estudio de hipertermia con ultrasonidos focalizados, parámetros de excitación, evolución de la temperatura y protocolos

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

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 4

Funding entity or bodies:

Holosonic SL

Type of entity: Business

City funding entity: Valencia, Valencian Community, Spain

Code according to the funding entity: 66603098

Start date: 31/03/2021

Duration: 1 year

Total amount: 5.000 €

5 Name of the project: Estudio de viabilidad para la evaluación de la disfagia orofaríngea mediante señales acústicas

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

Name principal investigator (PI, Co-PI....): Noé Jiménez

Nº of researchers: 1

Funding entity or bodies:

Fundación para el fomento de la investigación sanitaria y biomédica de la Comunitat Valenciana (FISABIO)

Start date: 01/01/2021

Duration: 1 year

Total amount: 5.366,85 €

6 Name of the project: Haces ultrasónicos para aplicaciones alimentarias y biomédicas

Type of project: Research and development, including transfer

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 2

Participating entity/entities: Consejo Superior de Investigaciones Científicas

Funding entity or bodies:



Agencia Valenciana de la Innovación

Type of entity: Public Research Body

Start date: 01/01/2019

Duration: 1 year

Total amount: 250.000 €

7 Name of the project: Creacion de una unidad científica de innovación empresarial en el Instituto de Instrumentación para Imagen Molecular

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 3

Funding entity or bodies:

Agencia Valenciana de la Innovación

Type of entity: Public Research Body

Code according to the funding entity: INNCON00/18/9

Start date: 01/01/2018

Duration: 1 year

Total amount: 250.000 €

8 Name of the project: Simulate a 3D nonlinear acoustic shock wave field

Type of project: Research and development, including transfer

Name principal investigator (PI, Co-PI....): Francisco Camarena

Nº of researchers: 2

Participating entity/entities: Universidad Politécnica de Valencia

Funding entity or bodies:

qWave AS

Start date: 20/09/2017

Duration: 6 months

Total amount: 45.000 €

9 Name of the project: Informe pruebas de cavitación en laboratorio y medidas en la empresa

Type of project: Industrial research

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Francisco Camarena; Noé Jiménez

Nº of researchers: 2

Participating entity/entities: Universidad Politécnica de Valencia

Funding entity or bodies:

Ultrasonidos LOVER, S.A.

Start date: 02/07/2014

Duration: 6 months

Total amount: 1.000 €

10 Name of the project: Calibración, asesoramiento y control de funcionamiento de cubas ultrasónicas para trasplantes de organos (20140025)

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Francisco Camarena; Noé Jiménez

Nº of researchers: 2

Funding entity or bodies:

Transplant Biomedicals

Type of entity: Business

City funding entity: Barcelona, Spain

Start date: 10/06/2014

Duration: 1 year

Total amount: 11.000 €



- 11 Name of the project:** Diseño de aislamiento y acondicionamiento acústico auditorio "La Mutant, Camino Hondo del Grao"
- Type of project:** Demonstration, pilot projects, conceptual formulations and design of processes and services
- Degree of contribution:** Technician
- Name principal investigator (PI, Co-PI....):** Javier Redondo Pastor; Noé Jiménez González; Alejandro Cebrecos Ruiz
- Nº of researchers:** 3
- Participating entity/entities:** Universidad Politécnica de Valencia
- Funding entity or bodies:**
Gomez-Ferrer Arquitectos **Type of entity:** Business
City funding entity: Valencia, Spain
- Ayuntamiento de Valencia **Type of entity:** Public
City funding entity: Valencia, Spain
- Start date:** 01/05/2012 **Duration:** 4 months
Total amount: 3.000 €
- 12 Name of the project:** Acondicionamiento acústico de sala de ensayos
- Type of project:** Demonstration, pilot projects, conceptual formulations and design of processes and services
- Name principal investigator (PI, Co-PI....):** Rubén Picó Vila; Vicent Romero García; Noé Jiménez González; Alejandro Cebrecos Ruiz
- Nº of researchers:** 4
- Funding entity or bodies:**
Primitiva Setabense **Type of entity:** Associations and Groups
City funding entity: Xátiva, Spain
- Start date:** 30/04/2012 **Duration:** 1 month
Total amount: 1.000 €
- 13 Name of the project:** Software development for audio subwoofer systems
- Type of project:** Demonstration, pilot projects, conceptual formulations and design of processes and services
- Degree of contribution:** Technician
- Name principal investigator (PI, Co-PI....):** Javier Redondo Pastor; Noé Jiménez González
- Participating entity/entities:** Universidad Politécnica de Valencia
- Funding entity or bodies:**
DAS Audio S.A.
- Start date:** 01/12/2009 **Duration:** 4 months
Total amount: 3.000 €

Results

Industrial and intellectual property

- 1** **Title registered industrial property:** Aparato para el tratamiento con ultrasonidos
Inventors/authors/obtainers: Noe Jimenez; Francisco Camarena; Jose María Benlloch; Josep Rodríguez Sendra; Juan José Rodríguez García; Jesus Limens; Juan J. Garcia Garrigos; José Luis Alonso; Adrián Luis Arándiga
Entity holder of rights: Universidad Politécnica de Valencia
N° of application: P202430264
Country of inscription: Spain
Date of register: 09/04/2024

- 2** **Title registered industrial property:** Método de imagen elastográfica empleando vórtices acústicos y ondas transversales
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Noé Jiménez González; Francisco Camarena Femenía; Jose María Benlloch Baviera
Entity holder of rights: Consejo Superior de Investigaciones Científicas
N° of application: P201930675
Country of inscription: Spain
Date of register: 22/07/2019
Conferral date: 06/08/2021
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes

- 3** **Title registered industrial property:** Sistema y método de generación de haces acústicos confocales de vórtice con superposición espaciotemporal
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Noé Jiménez; Kestutis Staliunas; Francisco Camarena
Entity holder of rights: Consejo Superior de Investigaciones Científicas
N° of application: P202030766
Country of inscription: Spain
Date of register: 22/07/2020
Conferral date: 06/08/2021
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes

- 4** **Title registered industrial property:** Técnica de litotricia empleando vórtices acústicos
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Noé Jiménez; Francisco Camarena; Jose María Benlloch
Entity holder of rights: Consejo Superior de Investigaciones Científicas
N° of application: P202030757
Date of register: 20/07/2020
Conferral date: 15/04/2021
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes



- 5 Title registered industrial property:** Dispositivo para la palpación de próstata
Description of qualities: RI Medical
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Carlos M. Atienza; Francisco Camarena; César D. Vera; Noé Jiménez; Ramón Moraga
Entity holder of rights: Consejo Superior de Investigaciones Científicas, Fundación para la investigación del hospital la Fe Valencia, Universitat Politècnica de València, Instituto de Biomecánica de València
N° of application: P202130115
Country of inscription: Spain
Date of register: 15/02/2021
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes
Licences: Yes
- 6 Title registered industrial property:** Método de fabricación de una lente y dispositivo de ultrasonidos que comprende dicha lente
Type of industrial property: Patent of invention
Inventors/authors/obtainers: Noé Jiménez González; Francisco Camarena Femenía; Sergio Jiménez Gambín; Jose María Benlloch Baviera
Entity holder of rights: Consejo Superior de Investigaciones Científicas
N° of application: P201831022
Country of inscription: Spain
Date of register: 22/10/2018
Conferral date: 30/04/2020
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes **PCT patent:** Yes
Operating aut.region/region: Australia / Brazil / Canada / China / Colombia / Spain / United States of America
Creating an innovative enterprise: Yes

Technological results derived from specialized and transfer activities, not included in previous sections

- 1 Description:** Ultrasonic perforation and testing for the oil industry
Name of the principal Investigator (PI): Hans Petter Eng
Name of the Co-principal investigator (Co-PI): Francisco Camarena
Degree of contribution: Researcher
Results for improvement of products: Yes
Expert technologist: Yes
Collaborating entity or bodies:
qWave AS
Universidad Politécnica de Valencia **Type of entity:** University
City collaborating entity: Valencia, Valencian Community, Spain
Start date: 20/09/2017 **Duration:** 6 months
- 2 Description:** Double-panels based in metamaterials for soundproofing applications
Name of the principal Investigator (PI): Climent Lagarrigue
Degree of contribution: Researcher
Spin-off R&D companies: Yes
Results for improvement of products: Yes

**Collaborating entity or bodies:**

Centre national de la recherche scientifique (CNRS)

City collaborating entity: Le Mans, France

MetAcoustics

City collaborating entity: Le Mans, France**Start date:** 15/09/2016**Type of entity:** Public Research Body**Type of entity:** Business**Duration:** 1 year

Scientific and technological activities

Scientific production

- 1** **H index:** 26
Date of application: 17/12/2024
Source of H-Index: GOOGLE SCHOLAR
- 2** **H index:** 22
Date of application: 17/12/2024
Source of H-Index: SCOPUS

Publications, scientific and technical documents

- 1** Enrique González-Mateo; Francisco Camarena; Noé Jiménez. Real-time ultrasound shear wave elastography using a local phase gradient. Computer Methods and Programs in Biomedicine. 260, pp. 108529. Elsevier, 05/12/2024. ISSN 0169-2607
DOI: 10.1016/j.cmpb.2024.108529
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 3
Impact source: ISI
Impact index in year of publication: 4.9
Position of publication: 20
Format: Journal
Corresponding author: Yes
Category: Science Edition - COMPUTER SCIENCE, THEORY & METHODS
Journal in the top 25%: Yes
No. of journals in the cat.: 144
- 2** Nathalie Lamothe; Diana Andrés; Alicia Carrión; Francisco Camarena; José A. Pineda-Pardo; Noé Jiménez. Monitoring holograms for therapeutic ultrasound using passive cavitation beamforming. Applied Acoustics. 224, pp. 110144. Elsevier, 05/09/2024. ISSN 0003-682X
DOI: 10.1016/j.apacoust.2024.110144
Type of production: Scientific paper
Position of signature: 6
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 3.4
Position of publication: 6
Format: Journal
Corresponding author: Yes
Category: Science Edition - ACOUSTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 40



- 3** Irene Pi-Martín; Alejandro Cebrecos; Juan J. García-Garrigós; Noé Jiménez; Francisco Camarena. Spatial resolution and reconstructed size accuracy using advanced beamformers in linear array-based PAT systems. *Photoacoustics*. 34, pp. 100576. Elsevier, 10/12/2023.
DOI: 10.1016/j.pacs.2023.100576
Type of production: Scientific paper
- 4** D. Andrés; A. Carrión; F. Camarena; N. Jiménez. Methods to design and evaluate transcranial ultrasonic lenses using acoustic holography. *Physical Review Applied*. 20 - 4, pp. 044071. American Physical Society, 26/10/2023.
DOI: 10.1103/PhysRevApplied.20.044071
Type of production: Scientific paper
- 5** Gail ter Haar; Francisco Camarena; Noé Jiménez; Petros Mouratidis; Ian Rivens; Diana Andrés. Holographic Focused Ultrasound Hyperthermia System for Uniform Simultaneous Thermal Exposure of Multiple Tumor Spheroids. *Cancers*. 15 - 9, pp. 2540. 28/04/2023.
DOI: 10.3390/cancers15092540
Type of production: Scientific paper
- 6** A.O. Krushynska; D. Torrent; Noé Jiménez. Emerging topics in nanophonics and elastic, acoustic, and mechanical metamaterials: an overview. *Nanophotonics*. 12 - 4, pp. 659 - 686. De Gruyter, 27/01/2023. ISSN 2192-8614
DOI: 10.1515/nanoph-2022-0671
Type of production: Scientific paper
- 7** Diana Andrés; Noé Jiménez; José M. Benlloch; Francisco Camarena. Numerical Study of Acoustic Holograms for Deep-Brain Targeting through the Temporal Bone Window. *Ultrasound in Medicine and Biology*. 48 - 5, pp. 872 - 886. Elsevier, 01/05/2022.
DOI: 10.1016/j.ultrasmedbio.2022.01.010
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 8** Gabrielius Kontenis; Darius Gailevicius; Noé Jiménez; Kestutis Staliunas. Optical drills by dynamic high-order Bessel beam mixing. *Physical Review Applied*. 17, pp. 034059. APS, 25/03/2022. ISSN 0301-5629
DOI: 10.1103/PhysRevApplied.17.034059
Type of production: Scientific paper **Format:** Journal
- 9** Sergio Jimenez-Gambiá; Noé Jiménez; Antonios Pouliopoulos; Jose Maria Benlloch; Elisa E. Konofagou; Francisco Camarena. Acoustic holograms for bilateral blood-brain barrier opening in a mouse model. *IEEE Transactions on Biomedical Engineering*. 69 - 4, pp. 1359 - 1368. IEEE, 03/03/2022. ISSN 0018-9294
DOI: 10.1109/TBME.2021.3115553
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 6 **Corresponding author:** No
- 10** Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena. Thermal holographic patterns for ultrasound hyperthermia. *Applied Physics Letters*. 120 - 8, pp. 084102. AIP, 22/02/2022.
Type of production: Scientific paper **Format:** Journal
- 11** Laurianne Barguet; Vicente Romero-García; Noé Jiménez; Víctor J. Sánchez-Morcillo; Jean Philippe-Groby; Luis M. García-Raffi. Natural sonic crystal absorber constituted of seagrass (*Posidonia Oceanica*) fibrous spheres. *Scientific Reports*. 11, pp. 711-1 - 711-8. Nature Publishing Group, 01/12/2021. Available on-line at: <<https://doi.org/10.1038/s41598-019-56369-z>>. ISSN 2045-2322
DOI: 10.1038/s41598-020-79982-9
Type of production: Scientific paper **Format:** Journal

**Position of signature:** 3**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 4.22**Position of publication:** 10**Corresponding author:** Yes**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 64

- 12** Eric Ballester; Brian Hamilton; Noé Jiménez; Vicent Romero-García; Jean-Pilippe Groby; Haydar Aygün; Stephen Dance. Scattering Evaluation of Equivalent Surface Impedances of Acoustic Metamaterials in Large FDTD Volumes Using RLC Circuit Modelling. Applied Sciences-Bassel. 11 - 17, pp. 80842 -1 - 80842 -15. MDPI, 31/08/2021. ISSN 2076-3417

DOI: 10.3390/app11178084**Type of production:** Scientific paper**Position of signature:** 3**Impact source:** ISI**Impact index in year of publication:** 1.679**Position of publication:** 75**Format:** Journal**Category:** PHYSICS, APPLIED**Journal in the top 25%:** No**No. of journals in the cat.:** 148

- 13** Eric Ballester; Noé Jiménez; Jean-Philippe Groby; Haydar Aygün; Stephen Dance; Vicent Romero-García. Metadiffusers for quasi-perfect and broadband sound diffusion. Applied Physics Letters. 119 - 4, pp. 044101 -1 - 044101 -5. AIP Publishing, 26/07/2021. ISSN 0003-6951

DOI: <https://doi.org/10.1063/5.0053413>**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 3,495**Position of publication:** 29**Format:** Journal**Corresponding author:** No**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**No. of journals in the cat.:** 146

- 14** Noé Jiménez; Jean Philippe-Groby; Vicente Romero-García. Spiral sound-diffusing metasurfaces based on holographic vortices. Scientific Reports. 11, pp. 10217-1 - 10217-13. Nature Publishing Group, 13/05/2021. Available on-line at: <<https://doi.org/10.1038/s41598-021-89487-8>>. ISSN 2045-2322

DOI: 10.1038/s41598-021-89487-8**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 4.22**Position of publication:** 10**Format:** Journal**Corresponding author:** Yes**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 64

- 15** Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicent Romero-García. Subwavelength acoustic vortex beams using self-demodulation. Physical Review Applied. 15 - 5, pp. 054027-1 - 054027-14. American Physics Society, 13/05/2021. Available on-line at: <<https://doi.org/10.1103/PhysRevApplied.15.054027>>. ISSN 2331-7019

DOI: 10.1103/PhysRevApplied.15.054027**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 5**Impact source:** ISI**Format:** Journal**Corresponding author:** Yes**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES



Impact index in year of publication: 4,782
Position of publication: 10

Journal in the top 25%: Yes
No. of journals in the cat.: 64

- 16** Alejandro Cebrecos; Noé Jiménez; Miguel Company; Rafael Tarazona; José M Benlloch; Francisco Camarena. Characterization of viscoelastic media combining ultrasound and magnetic-force induced vibrations on an embedded soft magnetic sphere. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control. Accepted (04/2021), pp. -. IEEE, 01/04/2021. ISSN 0885-3010
DOI: <https://doi.org/10.1109/TUFFC.2021.3097883>
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Corresponding author: Yes
Impact source: ISI **Category:** Acoustics and Ultrasonics
Impact index in year of publication: 2,472 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 31
- 17** Alejandro Cebrecos; Juan José García-Garrigos; Andreu Descals; Noé Jiménez; Jose M. Benlloch; Francisco Camarena. Beamforming for large-area scan and improved SNR in array-based photoacoustic microscopy. Ultrasonics. 111, pp. 106317-1 - 106317-8. Elsevier, 01/03/2021. ISSN 0041-624X
DOI: [10.1016/j.ultras.2020.106317](https://doi.org/10.1016/j.ultras.2020.106317)
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
Total no. authors: 6
Impact source: ISI **Category:** ACOUSTICS
Impact index in year of publication: 2.327 **Journal in the top 25%:** No
Position of publication: 8 **No. of journals in the cat.:** 31
- 18** Josep Rodríguez-Sendra; Inés Torres; Noé Jiménez; Salvatore Sauro; Francisco Camarena. Ultrasonic monitoring of dentin demineralization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control. 68 - 3, pp. 570 - 578. IEEE, 01/03/2021. ISSN 1525-8955
DOI: <https://doi.org/10.1109/TUFFC.2020.3015668>
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 5 **Corresponding author:** No
- 19** Vicent Romero-García; Noé Jiménez; Jean-Philippe Groby; Aulerien Merkel; Vincent Tournat; Georgios Theocharis; Olivier Richoux; Vicent Pagneux. Perfect absorption in mirror-symmetric acoustic metascreens. Physical Review Applied. 14 - 5, pp. 054055-1 - 054055-9. American Physics Society, 21/11/2020. ISSN 2331-7019
DOI: [10.1103/PhysRevApplied.14.054055](https://doi.org/10.1103/PhysRevApplied.14.054055)
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 8 **Corresponding author:** No
Impact source: ISI **Category:** Science Edition - MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 4,782 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 64
- 20** Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. Transcranial focusing of ultrasonic vortices by acoustic holograms. Physical Review Applied. 14 - 5, pp. 1 - 10. American Physics Society, 05/10/2020. ISSN 2331-7019
DOI: [10.1103/PhysRevApplied.14.054070](https://doi.org/10.1103/PhysRevApplied.14.054070)
Type of production: Scientific paper **Format:** Journal

**Position of signature:** 2**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 4,782**Position of publication:** 10**Corresponding author:** Yes**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**No. of journals in the cat.:** 64

- 21** Vicente Romero-García; Noé Jiménez; Georgios Theocharis; Vassos Achilleos; Aurelien Merkel; Olivier Richoux; Vincent Tournat; Jean-Philippe Groby; Vincent Pagneux. Design of acoustic metamaterials made of Helmholtz resonators for perfect absorption by using the complex frequency plane. *Comptes Rendus Physique*. 21 - 7-8, pp. 713 - 749. Elsevier, 19/08/2020. ISSN 1631-0705

DOI: <https://doi.org/10.5802/crphys.32>**Type of production:** Scientific paper**Corresponding author:** No**Impact source:** ISI**Impact index in year of publication:** 2,646**Position of publication:** 16**Format:** Journal**Category:** Science Edition - PHYSICS, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 78

- 22** Sergio Jiménez-Gambín; Noé Jiménez; José M. Benlloch; Francisco Camarena. Generating Bessel beams with broad depth-of-field by using phase-only acoustic holograms. *Scientific Reports*. 9 - 1, pp. 20104-1 - 20104-12. Nature Publishing Group, 27/12/2019. Available on-line at: <<https://doi.org/10.1038/s41598-019-56369-z>>. ISSN 2045-2322

DOI: 10.1038/s41598-019-56369-z**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 4.22**Position of publication:** 10**Format:** Journal**Corresponding author:** Yes**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 64

- 23** Eric Ballester; Noé Jiménez; Jean-Philippe Groby; S. Dance; H. Aygun; Vicente Romero-García. Experimental validation of deep-subwavelength diffusion by metadiffusers. *Applied Physics Letters*. 115 - 8, pp. 081901-1 - 081901-6. AIP Publishing, 09/08/2019. ISSN 0003-6951

DOI: <https://doi.org/10.1063/1.5114877>**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 3,495**Position of publication:** 29**Format:** Journal**Corresponding author:** No**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**No. of journals in the cat.:** 146

- 24** Antonio A. Fernández-Marín; Noé Jiménez; Jean-Philippe Groby; José Sánchez-Dehesa; Vicente Romero-García. Aerogel-based metasurfaces for perfect acoustic energy absorption. *Applied Physics Letters*. 115 - 6, pp. 061901-1 - 061901-6. AIP Publishing, 01/07/2019. ISSN 0003-6951

Type of production: Scientific paper**Position of signature:** 2**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 3,495**Format:** Journal**Corresponding author:** No**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes

**Position of publication:** 29**No. of journals in the cat.:** 146

- 25** Josep Rodríguez-Sendra; Noé Jiménez; Rubén Picó; Joan Faus; Francisco Camarena. Monitoring the setting of calcium sulphate bone-graft substitute using ultrasonic backscattering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control. 66 - 10, pp. 1658 - 1666. IEEE, 02/05/2019. ISSN 0885-3010
DOI: <https://doi.org/10.1109/TUFFC.2019.2926827>
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Corresponding author: No
Impact source: ISI **Category:** Acoustics and Ultrasonics
Impact index in year of publication: 2,472 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 31
- 26** Sergio Jiménez-Gambín; Noé Jiménez; José M Benlloch; Francisco Camarena. Holograms to focus arbitrary ultrasonic fields through the skull. Physical Review Applied. 12 - 1, pp. 014016-1 - 014016-14. American Physics Society, 28/04/2019. ISSN 2045-2322
DOI: [10.1103/PhysRevApplied.12.014016](https://doi.org/10.1103/PhysRevApplied.12.014016)
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 4 **Corresponding author:** Yes
Impact source: ISI **Category:** MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 4.259 **Journal in the top 25%:** Yes
Position of publication: 10 **No. of journals in the cat.:** 64
- 27** Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby. Complex frequency analysis of the scattering matrix for the design of perfect absorbers in reflection and transmission problems. The Journal of the Acoustical Society of America. 144 - 3, pp. 1755 - 1755. 18/09/2018. ISSN 0001-4966
DOI: [10.1121/1.5067771](https://doi.org/10.1121/1.5067771)
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 4 **Corresponding author:** Yes
Impact source: ISI **Category:** ACOUSTICS
Impact index in year of publication: 1.845 **Journal in the top 25%:** No
- 28** Noé Jiménez; Vicent Romero-García; Lluís M García-Raffi; Francisco Camarena; Kestutis Staliunas. Strongly focused vortex beams by using flat Fresnel-spiral lenses. The Journal of the Acoustical Society of America. 144 - 3, pp. 1932 - 1932. 18/09/2018. ISSN 0001-4966
DOI: [10.1121/1.5068456](https://doi.org/10.1121/1.5068456)
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 5 **Corresponding author:** Yes
Impact source: ISI **Category:** ACOUSTICS
Impact index in year of publication: 1.845 **Journal in the top 25%:** No
- 29** Mónica Jiménez-Castro; Francisco Camarena; María Eugenia Cornide-Petronio; Noé Jiménez; José Gulfo; Ana I. Álvarez-Mercado; Jordi Gracia-Sancho; Carmen Peralta. Transport and preservation of liver in a revolutionary medical device. Transplantation. 102, pp. S789. 01/07/2018. ISSN 0041-1337
DOI: [10.1097/01.tp.0000543813.47820.78](https://doi.org/10.1097/01.tp.0000543813.47820.78)
Type of production: Scientific paper **Format:** Journal

**Position of signature:** 4**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 3,678**Position of publication:** 28**Corresponding author:** No**Category:** SURGERY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 197

- 30** Noé Jiménez; Vicent Romero-García; Jean-Philippe Groby. Perfect absorption of sound by rigidly-backed highly-porous materials. *Acta Acustica united with Acustica*. 104 - 3, pp. 396 - 409. S. Hirzel Verlag, 15/05/2018. ISSN 1861-9959

DOI: 10.3813/AAA.919183**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 1,119**Position of publication:** 19**Format:** Journal**Corresponding author:** Yes**Category:** Science Edition - ACOUSTICS**Journal in the top 25%:** No**No. of journals in the cat.:** 31

- 31** Noé Jiménez; Vicent Romero-García; Lluís Miquel Garcia-Raffi; Francisco Camarena; Kestutis Staliunas. Sharp acoustic vortex focusing by Fresnel-spiral zone plates. *Applied Physics Letters*. 112 - 20, pp. 204101. American Institute of Physics, 10/04/2018. ISSN 1077-3118

DOI: 10.1063/1.5029424**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 3,411**Position of publication:** 29**Format:** Journal**Corresponding author:** Yes**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**No. of journals in the cat.:** 148

- 32** Lluís M. García-Raffi; Luis J. Salmerón-Contreras; Iván Herrero-Durá; Javier Redondo; Víctor J. Sánchez-Morcillo; Alejandro Cebrecos; Noé Jiménez; Vicent Romero-García; Kestutis Staliunas; Nick J.E. Adkins. Broadband reduction of the specular reflections by using sonic crystals: a proof of concept for noise mitigation in aerospace applications. *Aerospace Science and Technology*. 73, pp. 300 - 308. Elsevier, 01/02/2018. ISSN 1270-9638

DOI: 10.1016/j.ast.2017.11.048**Type of production:** Scientific paper**Position of signature:** 7**Total no. authors:** 10**Impact source:** ISI**Impact index in year of publication:** 2.057**Position of publication:** 54**Corresponding author:** No**Category:** Aerospace Engineering**Journal in the top 25%:** Yes**No. of journals in the cat.:** 193

- 33** Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby. Rainbow-trapping absorbers: Broadband, perfect and asymmetric sound absorption by subwavelength panels with transmission. *Scientific Reports*. 7 - 1, pp. 13595. Nature Publishing Group, 29/09/2017. ISSN 2045-2322

DOI: <https://doi.org/10.1038/s41598-017-13706-4>**Type of production:** Scientific paper**Position of signature:** 1**Corresponding author:** Yes**Impact source:** ISI**Impact index in year of publication:** 4.259**Format:** Journal**Category:** MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes

**Position of publication:** 10**No. of journals in the cat.:** 64

- 34** Monica Bibiana Jimenez-Castro; Francisco Camarena; María Eugenia Cornide-Petronio; Noé Jiménez; Jordi Gracia-Sancho; Carmen Peralta. A new medical device in transplantation for liver transport and preservation. *Transplant international*. 30, pp. 572. 24/09/2017. ISSN 0934-0874

DOI: 10.1111/tri.13053**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 4**Total no. authors:** 6**Corresponding author:** No**Impact source:** ISI**Category:** Surgery**Impact index in year of publication:** 3.196**Journal in the top 25%:** Yes**Position of publication:** 38**No. of journals in the cat.:** 200

- 35** Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Jean-Philippe Groby. Metadiffusers: Deep-subwavelength sound diffusers. *Scientific Reports*. 7, pp. 5389. Nature Publishing Group, 14/07/2017. ISSN 2045-2322

DOI: 10.1038/s41598-017-05710-5**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Corresponding author:** Yes**Impact source:** ISI**Category:** MULTIDISCIPLINARY SCIENCES**Impact index in year of publication:** 4.259**Journal in the top 25%:** Yes**Position of publication:** 10**No. of journals in the cat.:** 64

- 36** Ahmed Mehrem; Noé Jiménez; Luis Salmerón-Contreras; Xavier García-Andrés; Lluís M. García-Raffi; Rubén Picó; Víctor J. Sánchez-Morcillo. Nonlinear dispersive waves in repulsive lattices. *Physical Review E*. 96 - 1, pp. 012208. 12/07/2017. ISSN 1539-3755

DOI: 10.1103/PhysRevE.96.012208**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Impact source:** ISI**Category:** PHYSICS, MATHEMATICAL**Impact index in year of publication:** 2.366**Journal in the top 25%:** Yes**Position of publication:** 6**No. of journals in the cat.:** 55

- 37** Vicente Romero-García; Noé Jiménez; Vincent Pagneux; Jean-Philippe Groby. Perfect and broadband acoustic absorption in deep sub-wavelength structures for the reflection and transmission problems. *The Journal of the Acoustical Society of America*. 141 - 5, pp. 3641 - 3641. 19/06/2017. ISSN 0001-4966

DOI: 10.1121/1.4987858**Type of production:** Scientific paper**Format:** Journal**Corresponding author:** No**Impact source:** ISI**Category:** ACOUSTICS**Impact index in year of publication:** 1.547**Journal in the top 25%:** No**Position of publication:** 16**No. of journals in the cat.:** 31

- 38** Noé Jiménez; Jean-Philippe Groby; Vincent Pagneux; Vicent Romero-García. Iridescent Perfect Absorption in Critically-Coupled Acoustic Metamaterials Using the Transfer Matrix Method. *Applied Sciences-Bassel*. 7 - 6, pp. 618. 14/06/2017. ISSN 2076-3417

DOI: 10.3390/app7060618**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 1.679

Position of publication: 75

Category: PHYSICS, APPLIED

Journal in the top 25%: No

No. of journals in the cat.: 148

- 39** Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby. Quasiperfect absorption by subwavelength acoustic panels in transmission using accumulation of resonances due to slow sound. *Physical Review B*. 95 - 1, pp. 014205. 01/01/2017. ISSN 2469-9950

DOI: 10.1103/PhysRevB.95.014205

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Corresponding author: Yes

Impact source: ISI

Category: PHYSICS, CONDENSED MATTER

Impact index in year of publication: 3.836

Journal in the top 25%: No

Position of publication: 18

No. of journals in the cat.: 67

- 40** N. Jiménez; F. Camarena; N. González-Salido. Dynamic nonlinear focal shift in amplitude modulated moderately focused acoustic beams. *Ultrasonics*. 75, pp. 106 - 114. 28/11/2016. ISSN 0041-624X

DOI: 10.1016/j.ultras.2016.11.021

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Impact source: ISI

Category: ACOUSTICS

Impact index in year of publication: 2.327

Journal in the top 25%: No

Position of publication: 8

No. of journals in the cat.: 31

- 41** A. Cebrecos; N. Jiménez; V. Romero-García; R. Picó; V. Sánchez-Morcillo; L.M. García-Raffi. Asymmetric propagation using enhanced self-demodulation in a chirped phononic crystal. *AIP Advances*. 6, pp. 121601. 23/11/2016. ISSN 2158-3226

DOI: 10.1063/1.4968612

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: PHYSICS, APPLIED

Impact index in year of publication: 1.568

Journal in the top 25%: No

Position of publication: 83

No. of journals in the cat.: 148

- 42** Noé Jiménez; Rubén Picó; Víctor José Sánchez Morcillo; Vicent Romero García; Lluís Miquel García Raffi; Kestutis Staliunas. Formation of high-order acoustic Bessel beams by spiral diffraction gratings. *Physical Review E*. 95 - 4, pp. 053004. 23/11/2016. ISSN 2470-0053

DOI: 10.1103/PhysRevE.94.053004

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Corresponding author: Yes

Impact source: ISI

Category: PHYSICS, MATHEMATICAL

Impact index in year of publication: 2.366

Journal in the top 25%: Yes

Position of publication: 6

No. of journals in the cat.: 55

- 43** N. Jiménez; V. Romero-García; A. Cebrecos; R. Picó; V. J. Sánchez-Morcillo; L.M. García-Raffi. Broadband quasi perfect absorption using chirped multi-layer porous materials. *AIP Advances*. 6, pp. 121605. 15/11/2016. Available on-line at: <<http://dx.doi.org/10.1063/1.4971274>>. ISSN 2158-3226

DOI: 10.1063/1.4971274



Type of production: Scientific paper
Position of signature: 1
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 1.568
Position of publication: 83

Format: Journal

Category: PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 148

- 44** N. Jiménez; W. Huang; V. Romero-García; V. Pagneux; J.-P. Groby. Ultra-thin metamaterial for perfect and quasi-omnidirectional sound absorption. *Applied Physics Letters*. 109 - 12, pp. 121902. 20/09/2016. ISSN 1077-3118
DOI: 10.1063/1.4962328

Type of production: Scientific paper
Position of signature: 1
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 3.411
Position of publication: 29

Format: Journal

Category: PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 148

- 45** Noé Jiménez; Francisco Camarena; Javier Redondo; Víctor Sánchez; Yi Hou; Elisa E. Konofagou. Time-domain simulation of ultrasound propagation in a tissue-like medium based on the resolution of the nonlinear acoustic constitutive relations. *Acta Acustica united with Acustica*. 102 - 5, pp. 876 - 892. 01/09/2016. ISSN 1610-1928
DOI: 10.3813/AAA.919002

Type of production: Scientific paper
Position of signature: 1
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 1.119
Position of publication: 19

Format: Journal

Category: ACOUSTICS
Journal in the top 25%: No
No. of journals in the cat.: 31

- 46** N. Jiménez; A. Mehrem; R. Picó; L.M. García-Raffi; V.J. Sánchez-Morcillo. Nonlinear propagation and control of acoustic waves in phononic superlattices. *Comptes Rendus Physique*. 17 - 5, pp. 543 - 554. 28/02/2016. ISSN 1631-0705
DOI: 10.1016/j.crhy.2016.02.004

Type of production: Scientific paper
Position of signature: 1
Corresponding author: Yes
Impact source: ISI
Impact index in year of publication: 2.048
Position of publication: 21

Format: Journal

Category: PHYSICS, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 79

- 47** Jennifer Chaline; Noé Jiménez; Ahmed Mehrem; Ayache Bouakaz; Serge Dos Santos; Víctor J. Sánchez-Morcillo. Macroscopic acousto-mechanical analogy of a microbubble. *The Journal of the Acoustical Society of America*. 138 - 6, pp. 3600 - 3606. 16/11/2015. ISSN 0001-4966
DOI: 10.1121/1.4936949

Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 1.547
Position of publication: 16

Format: Journal

Category: ACOUSTICS
Journal in the top 25%: No
No. of journals in the cat.: 31



- 48** Noé Jiménez; Vicent Romero-García; Rubén Picó; Lluís M. García-Raffi; K. Staliunas. Nonlinear focusing of ultrasonic waves by an axisymmetric diffraction grating embedded in water. *Applied Physics Letters*. 107 - 20, pp. 204103. 16/11/2015. ISSN 1077-3118
DOI: 10.1063/1.4935917
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Corresponding author: Yes
Impact source: ISI **Category:** PHYSICS, APPLIED
Impact index in year of publication: 3.411 **Journal in the top 25%:** Yes
Position of publication: 29 **No. of journals in the cat.:** 148
- 49** El Mokhtar El Mokhtar; Noé Jiménez González; Rubén Picó; Víctor Sánchez Morcillo; Luíís M García Raffi; Kestutis Staliunas. Nonlinear self-collimated sound beams in sonic crystals. *Physical Review B*. 92, pp. 054302. 06/08/2015. ISSN 2469-9969
DOI: 10.1103/PhysRevB.92.054302
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** PHYSICS, CONDENSED MATTER
Impact index in year of publication: 3.836 **Journal in the top 25%:** No
Position of publication: 18 **No. of journals in the cat.:** 67
- 50** Juan F.R. Archilla; Yuri Kosevich; Noe Jimenez; Víctor José Sánchez; Luis Miguel García. Ultradiscrete kinks with supersonic speed in a layered crystal with realistic potentials. *Physical Review E*. 91, pp. 22912 - 22924. 13/02/2015. ISSN 1539-3755
DOI: 10.1103/PhysRevE.91.022912
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** PHYSICS, MATHEMATICAL
Impact index in year of publication: 2.366 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 55
- 51** Noé Jiménez González; Vicent Romero García; Rubén Picó; Alejandro Cebrecos Ruiz; Víctor Sánchez Morcillo; Lluís Miquel Garcia Raffi; Juan Vicente Sánchez Pérez; Kestutis Staliunas. Acoustic Bessel-like beam formation by an axisymmetric grating. *Europhysics Letters*. 106 - 2, pp. 24005. 30/04/2014. ISSN 0295-5075
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Corresponding author: Yes
Impact source: ISI **Category:** PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 1.957 **Journal in the top 25%:** No
Position of publication: 23 **No. of journals in the cat.:** 79
- 52** Juan Francisco Rodriguez Archilla; Yuri Kosevich .; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. Moving excitations In cation lattices. *Ukrainian Journal of Physics*. 58, pp. 646 - 656. 01/01/2013. Available on-line at: <<http://ujp.bitp.kiev.ua/files/journals/58/7/580705p.pdf>>. ISSN 0503-1265
Type of production: Scientific paper **Format:** Journal
- 53** Francisco Camarena; Silvia Adrián; Noé Jiménez; Víctor José Sánchez. Nonlinear focal shift beyond the geometrical focus in moderately focused acoustic beams. *The Journal of the Acoustical Society of America*. 134 - 2, pp. 1463 - 1472. 01/01/2013. ISSN 0001-4966
DOI: 0.1121/1.4812865
Type of production: Scientific paper **Format:** Journal

**Impact source:** ISI**Impact index in year of publication:** 1.547**Position of publication:** 16**Category:** ACOUSTICS**Journal in the top 25%:** No**No. of journals in the cat.:** 31

- 54** Noe Jimenez; Rubén Picó; Francisco Camarena; Francisco Javier Redondo; Bernardino Roig. Ultrasonic evaluation of the hydration degree of the orange peel. *Postharvest Biology and Technology*. 67, pp. 130 - 137. 26/01/2012. ISSN 0925-5214

DOI: 10.1016/j.postharvbio.2011.12.020**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Corresponding author:** Yes**Impact source:** ISI**Category:** FOOD SCIENCE & TECHNOLOGY**Impact index in year of publication:** 3.248**Journal in the top 25%:** Yes**Position of publication:** 14**No. of journals in the cat.:** 130

- 55** Noé Jiménez González; Rubén Picó; J. Redondo. The Parpalló cave: a singular archaeological acoustic site. *Journal of the Acoustical Society of America*. 123 - 5, pp. 3608. 15/05/2008. ISSN 0001-4966

DOI: 10.1121/1.2934790**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Corresponding author:** Yes

- 56** I. Pi-Martín; C.M. Vidaurre-Agut; A. Cebrecos; J.J. García-Garrigós; N. Jiménez; P. Botella; F. Camarena. Imagen fotoacústica empleando nanopartículas de redes orgánicas covalentes (nCOFs) como agente de contraste. *Revista de Acústica*. 54 - 3-4, pp. 28 - 33. Sociedad Española de Acústica, 15/10/2023.

Type of production: Popular science article

- 57** E.M. González-Mateo; J. Rodríguez-Sendra; F. Camarena; N. Jiménez. Midiendo la elasticidad de tejidos biológicos empleando ultrasonidos. *Revista de Acústica*. 54 - 3-4, pp. 12 - 19. Sociedad Española de Acústica, 15/10/2023.

Type of production: Popular science article**Corresponding author:** Yes

- 58** Irene Pi-Martín; Juan José García-Garrigós; Alejandro Cebrecos; Noé Jiménez; Francisco Camarena. Evaluación del rendimiento de algoritmos de reconstrucción de imágenes para tomografía fotoacústica. *Revista de Acústica*. 53 - 1-2, pp. 15 - 21. Sociedad Española de Acústica, 03/04/2022. Available on-line at: <http://www.sea-acustica.es/fileadmin/publicaciones/02_25.pdf>. ISSN 0210-3680

Type of production: Popular science article**Format:** Journal**Position of signature:** 4**Total no. authors:** 5

- 59** Noé Jiménez. Hologramas acústicos para terapia en neurología. *Revista Española de Física*. 31 - 1, pp. 44 - 44. Real Sociedad Española de Física, 01/07/2021.

Type of production: Popular science article**Format:** Journal**Corresponding author:** Yes

- 60** Vicente Romero-García; Vincent Pagneux; Jean Philippe-Groby; Noé Jiménez; Eric Ballester. Metamateriaux pour l'acoustique audible : Absorption parfaite et diffusion sublongueur d'onde. *Acoustic & Techniques*. 94/95, pp. 33 - 39. 02/11/2020. ISSN 1263 - 8072

Type of production: Popular science article**Format:** Journal**Position of signature:** 4**Total no. authors:** 5



- 61** S Jiménez-Gambín; N Jiménez; F Camarena. Efecto del método de definición de las propiedades acústicas de cráneo humano en la propagación focalizada de ultrasonidos. *Revista de Acústica*. 50 - 1-2, pp. 22 - 25. 03/02/2019.
Type of production: Popular science article
- 62** Diana Andres-Bautista; Sergio Jlménez-Gambín; Noé Jiménez; Franscisco Camarena. Hologramas acústicos multifocales para el tratamiento con ultrasonidos de estructuras cerebrales profundas. *Revista de Acústica*. 25 - 1-2, pp. 17 - 25. Sociedad Española de Acústica, 03/02/2019.
Type of production: Popular science article
- 63** Noe Jimenez Gonzalez; Francisco Camarena Femenia; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila. Propagación no lineal de haces de ultrasonidos a través del cráneo para la apertura de la barrera hematoencefálica. *Revista de Acústica*. 1, pp. 3 - 8. 30/06/2012. ISSN 2173-6634
Type of production: Popular science article **Format:** Journal
Position of signature: 1
Corresponding author: Yes
- 64** Silvia Adrián Martínez; Noe Jimenez Gonzalez; Francisco Camarena Femenia; Víctor José Sánchez Morcillo; Yuri Makov. Caracterización del campo acustico generado por transductores focalizados. *Revista de Acústica*. 42, pp. 7 - 15. Sociedad Acústica Española, 30/06/2011. Available on-line at: <http://www.sea-acustica.es/fileadmin/publicaciones/revista_VOL42-12_03_01.pdf>. ISSN 2254-2396
Type of production: Popular science article **Format:** Journal
- 65** Vicent Romero-García; Noé Jiménez; Jean-Philippe Groby; Vincent Pagneux. Acoustic Metamaterials for Sub-wavelength, Broadband, and Perfect Absorption in Ventilated Problems. *Acoustic Metamaterials*. pp. 343 - 372. Cham(Switzerland): Springer Nature Switzerland, 17/11/2024. ISBN 978-3-031-60014-2
DOI: 10.1007/978-3-031-60015-9_13
Type of production: Book chapter **Format:** Book
Position of signature: 2
Total no. authors: 4
- 66** Noé Jiménez. Materials for Acoustic Wave Generation and Modulation. *Acoustic Technologies in Biology and Medicine*. Chapter 3, pp. 317 - 331. Wiley-VCH Verlag, 06/10/2023. ISBN 978-3-527-35062-9
DOI: 10.1002/9783527841325.ch3
Type of production: Book chapter
Corresponding author: Yes
- 67** Jean-Philippe Groby; Noé Jiménez; Vicent Romero-García. Acoustic Metamaterial Absorbers. *Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media*. 143, pp. 167 - 204. Springer International Publishing, 06/12/2021. ISBN 978-3-030-84299-4
DOI: https://doi.org/10.1007/978-3-030-84300-7_5
Type of production: Book chapter **Format:** Book
Degree of contribution: Author or co-author of chapter in book
Corresponding author: Yes
- 68** Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. The Transfer Matrix Method in Acoustics. *Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media*. 143, pp. 103 - 164. Springer International Publishing, 06/12/2021. ISBN 978-3-030-84299-4
DOI: https://doi.org/10.1007/978-3-030-84300-7_4
Type of production: Book chapter **Format:** Book
Degree of contribution: Author or co-author of chapter in book
Corresponding author: Yes



- 69** Jean-Philippe Groby; Noé Jiménez; Vicent Romero-García. Acoustic metamaterial absorbers. Fundamentals of acoustic waves propagation in periodic structures, metamaterials and porous media. pp. 15 - 42. Elsevier, 01/09/2019.
Type of production: Book chapter
Position of signature: 2
Format: Book
Degree of contribution: Author or co-author of chapter in book
- 70** Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. The transfer matrix method in acoustics Modelling one-dimensional acoustic systems, phononic crystals and acoustic metamaterials. Fundamentals of acoustic waves propagation in periodic structures, metamaterials and porous media. pp. 107 - 161. Elsevier, 01/09/2019.
Type of production: Book chapter
Position of signature: 2
Format: Book
Degree of contribution: Author or co-author of chapter in book
Corresponding author: Yes
- 71** Vicente Romero-García; Noé Jiménez; Jean Philippe-Groby. Slow Sound and Critical Coupling to Design Deep Subwavelength Acoustic Metamaterials for Perfect Absorption and Efficient Diffusion. Fundamentals and Applications of Acoustic Metamaterials: From Seismic to Radio Frequency. 1, pp. 47 - 72. Wiley Online Library, 06/08/2019. ISBN 978-1-78630-336-3
DOI: <https://doi.org/10.1002/9781119649182.ch3>
Type of production: Book chapter
Format: Book
- 72** A. Mehrem; L. Salmerón-Contreras; N. Jiménez; V.J. Sánchez-Morcillo; R. Picó; L.M. García-Raffi; J. F. R. Archilla; Y. A. Kosevich. Kinks in a lattice of repelling particles. Experimental study with a chain of coupled pendulums. Nonlinear Systems, Vol. 2. Nonlinear Phenomena in Biology, Optics and Condensed Matter. pp. 261 - 282. Springer, 22/12/2017. ISBN 978-3-319-72217-7
DOI: https://doi.org/10.1007/978-3-319-72218-4_11
Type of production: Book chapter
Format: Book
Corresponding author: No
- 73** Juan Francisco Rodriguez Archilla; Yuriy A. Kosevich; Noé Jiménez González; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. A supersonic crowdion in mica: ultradiscrete kinks with energy between 40K recoil and transmission sputtering. Quodons in Mica: Nonlinear Localized Travelling Excitations in Crystals. 221, pp. 69 - 99. Springer Series in Materials Science, 14/09/2015. ISBN 978-3-319-21044-5
DOI: [10.1007/978-3-319-21045-2](https://doi.org/10.1007/978-3-319-21045-2)
Type of production: Book chapter
Format: Book
- 74** Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Serge Dos Santos; Ayache Bouakaz; Jennifer Chaline. Spatio-temporal dynamics in a ring of coupled pedula: analogy with bubbles. Localized Excitations in Nonlinear Complex Systems. 13, pp. 251 - 262. Springer, 21/10/2013. ISBN 978-3-319-02056-3
DOI: [10.1007/978-3-319-02057-0_13](https://doi.org/10.1007/978-3-319-02057-0_13)
Type of production: Book chapter
Format: Book
- 75** Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Juan F.R. Archilla; Yuri Kosevich ; Luis Miguel García Raffi. Supersonic links in coulomb lattices. Localized Excitations in Nonlinear Complex Systems. 16, pp. 317 - 331. Springer, 21/10/2013. ISBN 978-3-319-02056-3
DOI: [10.1007/978-3-319-02057-0_16](https://doi.org/10.1007/978-3-319-02057-0_16)
Type of production: Book chapter
Format: Book
- 76** Noé Jiménez; Olga Umnova; Jean-Philippe Groby. Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media. 143, pp. 1 - 474. Springer International Publishing, 06/12/2021. ISBN 978-3-030-84299-4
DOI: <https://doi.org/10.1007/978-3-030-84300-7>



Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor
Corresponding author: Yes

- 77** Olga Umnova; Jean-Philippe Groby; Noé Jiménez. Fundamentals of acoustic waves propagation in periodic structures, metamaterials and porous media. Elsevier, 01/09/2019.

Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor
Corresponding author: Yes

- 78** Juan Francisco Rodriguez Archilla; Noé Jiménez González; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. Quodons in Mica: Nonlinear Localized Travelling Excitations in Crystals. 221, pp. 1 - 592. Springer Series in Materials Science, 14/09/2015. ISBN 978-3-319-21044-5

DOI: 10.1007/978-3-319-21045-2
Type of production: Scientific book or monograph **Format:** Book

Works submitted to national or international conferences

- 1** **Title of the work:** Acoustic vortices and phase gradient techniques for ultrasound elastography

Name of the conference: ITEC 2024: 18th International Tissue Elasticity Conference

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Lyon, France

Date of event: 21/10/2024

End date: 23/10/2024

Organising entity: INSERM, LabTAU. Institute of Cancer Research **Type of entity:** State agency

E González-Mateo; F Camarena; N Jiménez. "Conference proceedings". pp. 18 - 18.

- 2** **Title of the work:** Accurate synthesis of acoustic holograms using field matching

Name of the conference: 2024 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Taipei, Taiwan

Date of event: 22/09/2024

End date: 26/09/2024

Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups

N Jiménez; D Andrés; A Eroles-Simó; V Vegas-Luque; R Calpe-Fortea; JJ Rodríguez-García; F Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-7190-1

- 3** **Title of the work:** Enhanced Real-Time Ultrasound Elastography with Phase Gradient

Name of the conference: 2024 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Taipei, Taiwan

Date of event: 22/09/2024

End date: 26/09/2024

Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups

E M. González-Mateo; F Camarena; N Jiménez. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-7190-1



- 4** **Title of the work:** Shear-Wave Pulse-Compression Elastography Using a Modulated Acoustic Radiation Force Excitation
Name of the conference: 2024 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Taipei, Taiwan
Date of event: 22/09/2024
End date: 26/09/2024
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
E M. González-Mateo; J Rodríguez-Sendra; F Camarena; N Jiménez. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-7190-1
- 5** **Title of the work:** It's a match! Tutorial práctico para la creación de capas de adaptación para transductores terapéuticos
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica
Type of entity: Associations and Groups
JJ Rodríguez-García; J Rodríguez-Sendra; JL Alonso-Ramos; N Jiménez; A Cebrecos; N Jiménez; F Camarena. "Conference proceedings". pp. 625 - 636. ISBN 978-989-53387-1-9
- 6** **Title of the work:** Optimización del posicionamiento de transductores de ultrasonidos sobre la ventana del hueso temporal
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica
Type of entity: Associations and Groups
A Eroles-Simó; D Andrés; A Carrión; JJ Rodríguez-García; JL Alonso-Ramos; JA Pineda-Pardo; N Jiménez; F Camarena. "Conference proceedings". pp. 614 - 624. ISBN 978-989-53387-1-9
- 7** **Title of the work:** Single-detector photoacoustic tomography
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica
Type of entity: Associations and Groups
I Pi-Martín; A Cebrecos; JJ García-Garrigós; Jiménez. "Conference proceedings". pp. 637 - 645. ISBN 978-989-53387-1-9
- 8** **Title of the work:** Vórtices acústicos para medir la elasticidad de tejidos biológicos
Name of the conference: Tecniacústica 2024 - 55º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Faro, Portugal
Date of event: 11/09/2024
End date: 13/09/2024
Organising entity: Sociedad Portuguesa de Acústica
Type of entity: Associations and Groups



E M. González-Mateo; F Camarena; N Jiménez. "Conference proceedings". pp. 656 - 660. ISBN 978-989-53387-1-9

- 9** **Title of the work:** Design strategies for amplitude and phase acoustic holograms in biomedical ultrasound
Name of the conference: 18th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2023)
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Chania, Greece
Date of event: 09/09/2024
End date: 14/09/2024
Organising entity: Metamorphose IV **Type of entity:** Associations and Groups
N Jiménez; D Andrés; A Eroles-Simó; V Vegas-Luque; A Carrión; Vicente Romero-García; JL Alonso-Ramos; JJ Rodríguez-García; F Camarena. "Conference proceedings, Metamorphose ABLs, IEEE". IEEE, ISBN 979-8-3503-7349-3
DOI: 10.1109/Metamaterials62190.2024.10703234
- 10** **Title of the work:** Acoustic and Optic drills by dynamic high-order Bessel beam mixing
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - invited/keynote talk
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron **Type of entity:** Associations and Groups
K Staliunas; G Kontenis; N Jiménez. "Conference Proceedings". pp. 753 - 754. ISSN 2429-1390
- 11** **Title of the work:** Design strategies for amplitude and phase acoustic holograms in biomedical ultrasound
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron **Type of entity:** Associations and Groups
N Jiménez; D Andrés; A Eroles-Simó; A Carrión; F Camarena. "Conference Proceedings". pp. 698 - 699. ISSN 2429-1390
- 12** **Title of the work:** Diffusive Acoustic Metasurfaces for Single-element Photoacoustic Imaging
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - oral communication
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron **Type of entity:** Associations and Groups
A Cebrecos; I Pi-Martín; R Weeteling; JJ García-Garrigós; N Jiménez. "Conference Proceedings". pp. 734 - 735. ISSN 2429-1390



- 13** **Title of the work:** Ultrasonic Hologram for Bi-directional Diffusion by Phase Controlling the Scattering Coefficients
Name of the conference: 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2023)
Type of participation: Participatory - oral communication
City of event: Toyama, Japan
Date of event: 16/07/2024
End date: 19/07/2024
Organising entity: Hospital Universitario Vall d'Hebron
Type of entity: Associations and Groups
E Ballester; J Rodríguez-Sendra; J-P Groby; N Jiménez; V Romero-García. "Conference Proceedings". pp. 723 - 724. ISSN 2429-1390
- 14** **Title of the work:** Hologramas para focalizar ondas acústicas en el cerebro: de la cirugía a la administración de fármacos y neuromodulación
Name of the conference: 2 Ciclo de Conferencias FIA
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Online,
Date of event: 18/05/2024
End date: 18/05/2024
Organising entity: Federación Iberoamericana de Acústica
Type of entity: Associations and Groups
- 15** **Title of the work:** De la morfología a la función: técnicas avanzadas de imagen por ultrasonidos
Name of the conference: ISABE 2023: International Symposium on Acoustics in Biomedical Engineering
Type of participation: Participatory - Plenary session
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023
Organising entity: Sociedad Española de Acústica
Type of entity: Associations and Groups
N Jiménez. "Conference proceedings". pp. 896 - 899. ISBN 978-84-87985-33-1
- 16** **Title of the work:** Imagen fotoacústica empleando nanopartículas de redes orgánicas covalentes (nCOFs) como agente de contraste
Name of the conference: Tecniacústica 2023 - 54º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023
Organising entity: Sociedad Española de Acústica
Type of entity: Associations and Groups
F Camarena; I Pi-Martín; CM Agut; A Cebrecos; JJ García-Garrigós; N Jiménez; F Camarena; P Botella-Asunción. "Conference proceedings". pp. 917 - 920. ISBN 978-84-87985-33-1
- 17** **Title of the work:** Improving SNR and Bandwidth of Shear-Wave Displacements via Modulated Force Excitation
Name of the conference: Tecniacústica 2023 - 54º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023



Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
EM González-Mateo; F Camarena; N Jiménez. "Conference proceedings". pp. 896 - 899. ISBN
978-84-87985-33-1

- 18 Title of the work:** Reflectores helicoidales para la focalización de vórtices acústicos de alta intensidad
Name of the conference: Tecniacústica 2023 - 54º Congreso Español de Acústica y XIII Congreso Ibérico de Acústica
City of event: Cuenca, Spain
Date of event: 18/10/2023
End date: 20/10/2023
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
N Jiménez; EM González-Mateo; F Camarena. "Conference proceedings". pp. 921 - 926. ISBN
978-84-87985-33-1

- 19 Title of the work:** Bi-directional holographic lens for simultaneous control of reflected and transmitted ultrasonic fields
Name of the conference: Forum Acusticum 2023: 10th Convention of the European Acoustics Association
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Torino, Italy
Date of event: 11/09/2023
End date: 15/09/2023
Organising entity: European Acoustics Association **Type of entity:** Associations and Groups
E Ballesterio; J Rodríguez-Sendra; J-P Groby; V Romero-García; N Jiménez; G Ter Haar. "Proceeding of the Forum Acusticum 2023 1 (1)". pp. 5171 - 5175. ISBN 978-88-88942-67-4
DOI: 10.61782/fa.2023.0884

- 20 Title of the work:** Acoustic holograms for homogeneous hyperthermia over several tumor spheroids
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
D Andrés; I Rivens; P Mouratidis; N Jiménez; F Camarena; G Ter Haar. pp. 1 - 4. ISSN 1948-5727, ISBN
979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307873

- 21 Title of the work:** Fast Shear wavevector Estimator for real-Time Elasticity Map Reconstruction
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
E M. González-Mateo; F Camarena; N Jiménez. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307724



- 22** **Title of the work:** Generating Focused Vortex Beams Using Chiral Reflectors
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
N Jiménez; P Femenia-Ys; EM González-Mateo; F Camarena; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307724
- 23** **Title of the work:** Overestimation of the Spatial Resolution of Advanced Algorithms Using the PSF Method on PAT Systems
Name of the conference: 2023 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Montreal, Canada
Date of event: 03/09/2023
End date: 08/09/2023
Organising entity: Institute of Electrical and Electronics Engineers
Type of entity: Associations and Groups
Irene Pi-Martín; Alejandro Cebrecos; J.J. García-Garrigós; Noé Jiménez; José M. Benlloch; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 979-8-3503-4645-9
DOI: 10.1109/IUS51837.2023.10307724
- 24** **Title of the work:** Spinning optical drills by dynamic high-order Bessel beam mixing
Name of the conference: SPIE Optics and Optoelectronics. Holography: Advances and Modern Trends VIII
City of event: Prague, Czech Republic
Date of event: 31/05/2023
End date: 31/05/2023
Organising entity: Society of Photo-Optical Instrumentation Engineers (SPIE)
Gabrielius Kontenis; AA Padilla-Camargo; Darius Gailevičius; Noe Jimenez; Kęstutis Staliūnas. "Proc. SPIE 12574, pp. 1257407, SPIE Photonics Europe". ISBN 9781510662681
DOI: 10.1117/12.2665568
- 25** **Title of the work:** Acoustic drill beams: twisting wave intensity by the superposition of detuned vortices
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica
Type of entity: Associations and Groups
N Jiménez; EM González-Mateo; F Camarena; K Staliunas. "Conference proceedings". pp. 1141 - 1144. ISBN 978-84-87985-32-4
- 26** **Title of the work:** Análisis y evaluación de algoritmos de reconstrucción avanzados en un sistema experimental de tomografía fotoacústica
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain



Date of event: 02/11/2022

End date: 04/11/2022

Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
I Pi-Martín; A Cebrecos; JJ García-Garrigós; N Jiménez; Francisco Camarena. "Conference proceedings". pp. 1169 - 1176. ISBN 978-84-87985-32-4

- 27** **Title of the work:** Elastografía empleando una técnica híbrida magneto-ultrasónica
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
G Ruiz-Fermoso; A Cebrecos; EM González-Mateo; F Camarena. "Conference proceedings". pp. 1145 - 1150. ISBN 978-84-87985-32-4
- 28** **Title of the work:** Ex-vivo validation of a passive cavitation detection system for hologram-assisted blood-brain barrier opening in non-human primate
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
N Lamothe; D Andrés; A Carrión; JA Pineda-Pardo; N Jiménez; F Camarena. "Conference proceedings". pp. 1164 - 1168. ISBN 978-84-87985-32-4
- 29** **Title of the work:** Hologramas acústicos para la administración localizada de fármacos en el cerebro: Validación ex-vivo en primates
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
D Andrés; A Carrión; N Lamothe; JA Pineda-Pardo; N Jiménez; F Camarena. "Conference proceedings". pp. 1157 - 1163. ISBN 978-84-87985-32-4
- 30** **Title of the work:** Mapeado de la elasticidad de tejidos mediante un método rápido basado en gradiente de fase
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
EM González-Mateo; N Jiménez; F Camarena. "Conference proceedings". pp. 1127 - 1132. ISBN 978-84-87985-32-4



- 31** **Title of the work:** Singular value decomposition beamforming and pulse-coded excitation for lung ultrasound aberration correction
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
J Rodríguez-Sendra; Enrique M González-Mateo; Noé Jiménez; Francisco Camarena. "Conference proceedings". pp. 1151 - 1156. ISBN 978-84-87985-32-4
- 32** **Title of the work:** Técnicas de holografía acústica para la validación rápida de hologramas acústicos
Name of the conference: Tecniacústica 2022 - 53º Congreso Español de Acústica y XII Congreso Ibérico de Acústica. European Symposium on NVH in Electric Vehicles
Corresponding author: Yes
City of event: Elche, Spain
Date of event: 02/11/2022
End date: 04/11/2022
Organising entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
N Jiménez; A Carrión; D Andrés; E.M González-Mateo; C Hernández-López; F Camarena; F Camarena. "Conference proceedings". pp. 924 - 929. ISBN 978-84-87985-32-4
- 33** **Title of the work:** Engineering holographic metasurfaces for biomedical ultrasound applications
Name of the conference: SAM 2022: 3rd Symposium on Acoustic Metamaterials
Type of participation: Participatory - Plenary session
Corresponding author: Yes
City of event: Venice, Italy
Date of event: 19/10/2022
End date: 21/10/2022
Organising entity: Young Researchers in Acoustic **Type of entity:** Associations and Groups
Metamaterials
City organizing entity: Nimes, France
Noé Jiménez. pp. 1 - 4.
- 34** **Title of the work:** Design and Holographic Field Reconstruction of Ultrasonic Lenses for Drug Delivery in non-Human Primates
Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Venice, Italy
Date of event: 10/10/2022
End date: 13/10/2022
Organising entity: Institute of Electrical and **Type of entity:** Associations and Groups
Electronics Engineers
Diana Andrés; Alicia Carrión; Nathalie Lamothe; José A. Pineda-Pardo; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8
DOI: 10.1109/IUS54386.2022.9957745
- 35** **Title of the work:** Evaluation of lateral and axial resolution of pixel-based beamformers in photoacoustic tomography using a linear US probe
Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)



Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Irene Pi-Martín; Alejandro Cebrecos; Juan J. García-Garrigós; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9958843

36 Title of the work: Laser Diode Beam Shaping and Homogenization with a Multimode Fiber applied to Optical Resolution Photoacoustic Microscopy based on Linear Phased Array Ultrasound Probe

Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Juan J. García-Garrigós; Alejandro Cebrecos; Javier A. Navarro-Calvo; Noé Jiménez; José M. Benlloch; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9957264

37 Title of the work: Quasi-omnidirectional shear wave generation using acoustic vortices for elastography

Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Enrique M. González-Mateo; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9957369

38 Title of the work: Rotating acoustic drills by the interference of detuned vortices

Name of the conference: 2022 IEEE International Ultrasonics Symposium (IUS)

Type of participation: Participatory - oral communication

City of event: Venice, Italy

Date of event: 10/10/2022

End date: 13/10/2022

Organising entity: Institute of Electrical and Electronics Engineers

Type of entity: Associations and Groups

Noé Jiménez; Enrique M. González-Mateo; Francisco Camarena; Kestutis Staliunas. pp. 1 - 4. ISSN 1948-5727, ISBN 978-1-6654-6657-8

DOI: 10.1109/IUS54386.2022.9957960

39 Title of the work: Lung ultrasound aberration correction with singular value decomposition beamforming and pulse-coded excitation

Name of the conference: II Jornadas Científicas PTI + Salud Global

City of event: Valencia, Spain

Date of event: 05/10/2022



End date: 06/10/2022

Organising entity: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Josep Rodríguez-Sendra; Noé Jiménez. "Conference Proceedings".

- 40** **Title of the work:** Acoustic holograms for low-intensity ultrasound neuromodulation in non-human primates
Name of the conference: FUN 2022: Focused Ultrasound Neuromodulation
City of event: Mainz, Germany
Date of event: 26/09/2022
End date: 28/09/2022
Organising entity: International Transcranial Ultrasonic Stimulation Safety and Standards, ITRUSS
Diana Andrés; Alicia Carrión; Nathalie Lamothe; Jose A. Pineda-Pardo; Noé Jiménez; Francisco Camarena. "Conference Proceedings".
- 41** **Title of the work:** An in vitro system for focused ultrasound hyperthermia (and radiotherapy) studies using spheroids
Name of the conference: 34th Annual Meeting European Society for Hyperthermic Oncology (ESHO2022)
City of event: Gothenburg, Sweden
Date of event: 14/09/2022
End date: 17/09/2022
Organising entity: European Society for Hyperthermic Oncology
Ian Rivens; Petros Mouratidis; Diana Andres; Richard Symonds-Tayler; Noé Jiménez; Francisco Camarena; Gail ter Haar. "Conference Proceedings".
- 42** **Title of the work:** RLC modelling of sound scattering metamaterials in large 3D FDTD volumes
Name of the conference: 51st International Congress and Exposition on Noise Control Engineering (INTERNOISE 2022)
City of event: Glasgow, United Kingdom
Date of event: 21/08/2022
End date: 24/08/2022
Organising entity: International Institute of Noise Control Engineering
Eric Ballesteros; Brian Hamilton; Noé Jiménez; Vicent Romero-García; Jean-Philippe Groby; Haydar Aygun; Steven Dance. "Conference Proceedings".
- 43** **Title of the work:** Acoustic drills by dynamic high-order Bessel beam mixing
Name of the conference: 12th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2022)
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Torremolinos, Spain
Date of event: 19/07/2022
End date: 22/07/2022
Organising entity: Hospital Universitario Vall d'Hebron
Type of entity: Associations and Groups
Kestutis Staliunas; Gabrielius Kontenis; Noe Jimenez. "Conference Proceedings".
- 44** **Title of the work:** Sculpting thermal and acoustic fields by 3D-printed holograms
Name of the conference: 12th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2022)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Torremolinos, Spain



Date of event: 19/07/2022

End date: 22/07/2022

Organising entity: Hospital Universitario Vall d'Hebron

Type of entity: Associations and Groups

Noe Jimenez; Diana Andres; Sergio Jimenez-Gambin; Antonios Pouliopoulos; Elisa E. Konofagou; Jonathan Vappou; Jose M. Benlloch; Alicia Garcia-Carrion; Francisco Camarena. "Conference Proceedings".

45 Title of the work: 3D-printed acoustic holograms to generate thermal holographic patterns

Name of the conference: 22nd International Symposium on Nonlinear Acoustics

Type of participation: Participatory - oral communication

City of event: Oxford, United Kingdom

Date of event: 04/07/2022

End date: 08/07/2022

Organising entity: University of Oxford

Type of entity: University

D. Andrés; J. Vappou; N. Jiménez; F. Camarena. "Conference Proceedings".

46 Title of the work: A helicoidal parametric antenna for subwavelength vortex generation

Name of the conference: 22nd International Symposium on Nonlinear Acoustics

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Oxford, United Kingdom

Date of event: 04/07/2022

End date: 08/07/2022

Organising entity: University of Oxford

Type of entity: University

Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicent Romero-García. "Conference Proceedings".

47 Title of the work: Evaluation of lateral and axial resolution in photoacoustic tomography with linear US probe and pixel-based beamformers

Name of the conference: XXXVIII Reunión Bienal de la Real Sociedad Española de Física

Type of participation: Participatory - oral communication

City of event: Murcia, Spain

Date of event: 11/06/2022

End date: 15/06/2022

Organising entity: Real Sociedad Española de Física

Alejandro Cebrecos; Juan J. García-Garrigós; Noé Jiménez; Francisco Camarena. "Conference Proceedings".

48 Title of the work: Thermal patterns generated by ultrasound holograms

Name of the conference: XXXVIII Reunión Bienal de la Real Sociedad Española de Física

Type of participation: Participatory - oral communication

City of event: Murcia, Spain

Date of event: 11/06/2022

End date: 15/06/2022

Organising entity: Real Sociedad Española de Física

Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena. "Conference Proceedings".

49 Title of the work: A low-intensity ultrasound delivery system using acoustic holograms

Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound

Type of participation: Participatory - oral communication

Corresponding author: Yes



City of event: Toronto, Canada

Date of event: 07/06/2022

End date: 10/06/2022

Organising entity: International Society for Therapeutic Ultrasound

Diana Andrés; Alicia Carrión; Nathalie Lamothe; José Pineda; Noé Jiménez; Francisco Camarena. "Conference Proceedings".

- 50** **Title of the work:** Acoustic holograms for bilateral blood-brain barrier opening in mice
Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound
Type of participation: Participatory - oral communication
City of event: Toronto, Canada
Date of event: 07/06/2022
End date: 10/06/2022
Organising entity: International Society for Therapeutic Ultrasound
Sergio Jimenez-Gambin; Antonios N. Pouliopoulos; Noe Jimenez; José M. Benlloch; Elisa E. Konofagou; Francisco Camarena. "Conference Proceedings".
- 51** **Title of the work:** An exposure system for in-vitro 3D tumour HIFU studies
Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound
Type of participation: Participatory - oral communication
City of event: Toronto, Canada
Date of event: 07/06/2022
End date: 10/06/2022
Organising entity: International Society for Therapeutic Ultrasound
Ian Rivens; Petros Mouratidis; Diana Andres; Noé Jiménez; Francisco Camarena. "Conference Proceedings".
- 52** **Title of the work:** Reflectors for therapeutic vortex beam generation
Name of the conference: 21st Annual International Symposium on Therapeutic Ultrasound
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Toronto, Canada
Date of event: 07/06/2022
End date: 10/06/2022
Organising entity: International Society for Therapeutic Ultrasound
Noé Jiménez. "Conference Proceedings".
- 53** **Title of the work:** Synthesizing acoustic drill beams by the superposition of detuned vortices
Name of the conference: 182nd Meeting of the Acoustical Society of America
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Denver, United States of America
Date of event: 23/05/2022
End date: 27/05/2022
Organising entity: Acoustical Society of America
Noé Jiménez; Enrique González-Mateo; Francisco Camarena; Kestutis Staliunas. "Journal of the Acoustical Society of America". 151 - 4, pp. A121. Acoustical Society of America, ISSN 0001-4966
DOI: 10.1121/10.0010842



- 54** **Title of the work:** Shaping therapeutical acoustic images using acoustic holograms
Name of the conference: Euromech Colloquium - 610 Emerging topics in acoustic and mechanical metamaterials
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Benicasim, Spain
Date of event: 25/04/2022
End date: 27/04/2022
Organising entity: European Mechanics Society **Type of entity:** Associations and Groups
Noé Jiménez; Diana Andrés; Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; José M. Benlloch; Jonathan Vappou; Elisa E. Konofagou; A. Carrión-García; F. Camarena.
- 55** **Title of the work:** Thermal patterns generated by acoustic holographic lenses
Name of the conference: Euromech Colloquium - 610 Emerging topics in acoustic and mechanical metamaterials
Corresponding author: Yes
City of event: Benicasim, Spain
Date of event: 25/04/2022
End date: 27/04/2022
Organising entity: European Mechanics Society **Type of entity:** Associations and Groups
Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena.
- 56** **Title of the work:** Tortuous metamaterial for perfect sound absorption in transmission
Name of the conference: Euromech Colloquium - 610 Emerging topics in acoustic and mechanical metamaterials
Corresponding author: Yes
City of event: Benicasim, Spain
Date of event: 25/04/2022
End date: 27/04/2022
Organising entity: European Mechanics Society **Type of entity:** Associations and Groups
Enrique González-Mateo; Rodolfo Venegas; Francisco Camarena; Noé Jiménez.
- 57** **Title of the work:** Dynamic higher-order Bessel-Gauss beam interference generation of rotating beams
Name of the conference: SPIE Photonics Europe conference on Nanophotonics IX
City of event: Strasbourg, France
Date of event: 03/04/2022
End date: 07/04/2022
Organising entity: Society of Photo-Optical Instrumentation Engineers
Gabrielius Kontenis; Darius Gailevičius; Noe Jimenez; Kęstutis Staliūnas. "Proc. SPIE 12131, Nanophotonics IX, 121310F". ISBN 9781510651388
DOI: 10.1117/12.2621652
- 58** **Title of the work:** Research into non invasive brain surgery
Name of the conference: Hear for Tomorrow
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: London, United Kingdom
Date of event: 30/03/2022
End date: 30/03/2022
Organising entity: Hearing Conservation Association, Institute of Acoustics
Noé Jiménez. "Conference Proceedings".



- 59** **Title of the work:** Application of metamaterials to control noise scattering during space vehicle lift-off
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Mara Salut Escartí-Guillem; Pablo Barriuso Feijoo; Alejandro Cebrecos; Marcos Chimeno-Manguán; Pedro Cobo; Luis Miguel García-Raffi; Jean-Philippe Groby; Sergio Hoyas; Noé Jiménez; Mario Lázaro; Julien Leng; José Nieto Mocholí; Rubén Picó; José Manuel Requena-Plens; Elena Riobás; Vicente Romero-García; Víctor José Sánchez-Morcillo; Francisco Simon. pp. 1287 - 1296. ISBN 978-989-53387-0-2
- 60** **Title of the work:** From Quasi-Perfect to Broadband Sound Diffusion Using Metadiffusers
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Eric Ballesteros; Noé Jiménez; Jean Philippe-Groby; Haydar Aygün; Stephen Dance; Vicente Romero-García. pp. 1307 - 1311. ISBN 978-989-53387-0-2
- 61** **Title of the work:** Natural sonic crystal absorber constituted of Aegagropilae fiber network
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Laurianne Barguet; Vicente Romero-García; Noé Jiménez; Luis Miguel García-Raffi; Víctor José Sánchez-Morcillo; Jean-Philippe Groby. pp. 1430 - 1432. ISBN 978-989-53387-0-2
- 62** **Title of the work:** Parametric generation of subwavelength acoustic vortices
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicente Romero-García. pp. 316 - 320. ISBN 978-989-53387-0-2
- 63** **Title of the work:** Perfect acoustic absorption in reciprocal ventilated problems
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication



City of event: Madeira, Portugal

Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Vicente Romero-García; Noé Jiménez; Vincent Pagneux; Jean-Philippe Groby. pp. 1463 - 1469. ISBN 978-989-53387-0-2

- 64** **Title of the work:** Perfect broadband sound absorber metamaterial for noise reduction in a rocket launch
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
José Manuel Requena-Plens; Rubén Picó; Víctor José Sánchez-Morcillo; Noé Jiménez; Alejandro Cebrecos; Mara Salut Escartí-Guillem. pp. 1392 - 1400. ISBN 978-989-53387-0-2
- 65** **Title of the work:** Performance evaluation of image reconstruction algorithms for photoacoustic tomography
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Irene Pi Martín; Juan José García-Garrigos; Alejandro Cebrecos; Noé Jiménez; Francisco Camarena. pp. 901 - 910. ISBN 978-989-53387-0-2
- 66** **Title of the work:** Sharp and nonlinear cavitation mapping using synchronized sine-sweep imaging
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups
Enrique González-Mateo; Nathalie Lamothe; Noé Jiménez; Francisco Camarena. pp. 921 - 924. ISBN 978-989-53387-0-2
- 67** **Title of the work:** Sound diffusing metasurfaces based on elastic plates and membranes
Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Madeira, Portugal
Date of event: 27/10/2021
Organising entity: Sociedade Portuguesa de Acustica
Type of entity: Associations and Groups



José Manuel Requena-Plens; Jean Philippe-Groby; Vicente Romero-García; Noé Jiménez. pp. 1279 - 1286. ISBN 978-989-53387-0-2

68 Title of the work: Therapeutic ultrasound holograms to target thalamic nuclei through the temporal bone window.

Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)

Type of participation: Participatory - oral communication

City of event: Madeira, Portugal

Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Diana Andrés-Bautista; Irene Pi Martín; Noé Jiménez; Francisco Camarena. pp. 888 - 893. ISBN 978-989-53387-0-2

69 Title of the work: Twisting acoustic reflections by spiral sound diffusers

Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)

Type of participation: Participatory - oral communication

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Madeira, Portugal

Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Noé Jiménez; Jean-Philippe Groby; Vicent Romero-García. pp. 1271 - 1274. ISBN 978-989-53387-0-2

70 Title of the work: Ultrasonic holograms to enhance hyperthermia volumes

Name of the conference: European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)

Type of participation: Participatory - oral communication

City of event: Madeira, Portugal

Date of event: 27/10/2021

Organising entity: Sociedade Portuguesa de Acustica

Type of entity: Associations and Groups

Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. pp. 894 - 900. ISBN 978-989-53387-0-2

71 Title of the work: Hologramas ultrasónicos para tratamientos neurológicos

Name of the conference: X Reunión del Capítulo Nacional Español de la Sociedad Europea de Biomecánica

Type of participation: Participatory - oral communication

Reasons for participation: Upon invitation

City of event: Granada, Spain

Date of event: 26/10/2021

Organising entity: European Society of Biomechanics

Type of entity: Associations and Groups

Diana Andrés-Bautista; Sergio Jiménez-Gambín; Noe Jimenez; Francisco Camarena.

72 Title of the work: Monitorización ultrasónica de la desmineralización de la dentina

Name of the conference: X Reunión del Capítulo Nacional Español de la Sociedad Europea de Biomecánica

Reasons for participation: Upon invitation



Type of participation: Participatory - oral communication

City of event: Granada, Spain

Date of event: 26/10/2021

Organising entity: European Society of Biomechanics

Type of entity: Associations and Groups

Josep Rodríguez-Sendra; Alicia Carrión-García; Noé Jimenez; Joan Faus; Francisco Camarena.

73 Title of the work: Acoustic holograms for biomedical ultrasound applications

Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Online, United States of America

Date of event: 25/09/2021

Organising entity: Metamorphose IV

Type of entity: Associations and Groups

Sergio Jiménez-Gambín; Diana Andrés-Bautista; Noé Jiménez; Jose María Benlloch; Francisco Camarena; Vicente Romero-García. IEEE, ISBN 978-1-7281-5018-5

74 Title of the work: Deep sub-wavelength vortices by nonlinear mixing

Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)

Type of participation: Participatory - oral communication

City of event: Online, United States of America

Date of event: 25/09/2021

Organising entity: Metamorphose IV

Type of entity: Associations and Groups

Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Jean-Pilippe Groby; Vicente Romero-García. IEEE, ISBN 978-1-7281-5018-5

75 Title of the work: Natural sonic crystal absorber constituted of Aegagropilae fiber network

Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)

Type of participation: Participatory - oral communication

Reasons for participation: Upon invitation

City of event: Online, United States of America

Date of event: 25/09/2021

Organising entity: Metamorphose IV

Type of entity: Associations and Groups

Laurianne Barguet; Vicente Romero-García; Noé Jiménez; Luis Miguel García-Raffi; Víctor José Sánchez-Morcillo; Jean-Pilippe Groby. IEEE, ISBN 978-1-7281-5018-5

76 Title of the work: Sound diffusion by spiral acoustic metasurfaces based on holographic vortices

Name of the conference: 15th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials'2021)

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Online, United States of America

Date of event: 25/09/2021

Organising entity: Metamorphose IV

Type of entity: Associations and Groups

Noé Jiménez; Jean-Pilippe Groby; Vicente Romero-García. IEEE, ISBN 978-1-7281-5018-5



- 77** **Title of the work:** Acoustic holograms for low-cost biomedical ultrasound applications
Name of the conference: Interdisciplinary Symposium Micro, Nano, and Molecular Systems 2021
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Schloss Ringberg, Germany
Date of event: 18/09/2021
Organising entity: Max Planck Institute
Noé Jiménez. pp. 2 - 2.
- 78** **Title of the work:** Modeling of Intensity-Modulated Focused Ultrasound in Pediatric Brain Tumors Using Acoustic Holograms
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Zachary Englander; Noé Jiménez; Francisco Camarena; Elisa Konofagou; Stergios Zacharoulis; Cheng-Chia Wu. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
DOI: 978-0-7381-1209-1/21/
- 79** **Title of the work:** Sub-Diffractive Acoustic Vortices by Nonlinear Mixing
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
Noé Jiménez; Joao Ealo; Rubén D. Muelas-Hurtado; Aroune Duclos; Vicente Romero-García. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
DOI: 978-0-7381-1209-1/21/
- 80** **Title of the work:** Synchronized Sine-Sweep Imaging for Uncoupling Nonlinear Signatures During Pulse Compression
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
Type of participation: Participatory - oral communication
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
Nathalie Lamothe; Enrique González-Mateo; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
DOI: 978-0-7381-1209-1/21/
- 81** **Title of the work:** Transtemporal Ultrasound Holograms for Thalamic Therapy
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers



Diana Andrés-Bautista; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
DOI: 978-0-7381-1209-1/21/

- 82** **Title of the work:** Ultrasonic Holograms to Enhance Hyperthermia Volumes
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers
Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
DOI: 978-0-7381-1209-1/21/
- 83** **Title of the work:** Ultrasonic Monitoring of the Dentin Demineralization Dynamics
Name of the conference: 2021 IEEE International Ultrasonics Symposium (IUS)
City of event: Online, China
Date of event: 16/09/2021
Organising entity: Institute of Electrical and Electronics Engineers
Josep Rodríguez-Sendra; Alicia Carrión-García; Inés Torres; Noé Jiménez; Salvatore Sauro; Francisco Camarena. pp. 1 - 4. ISSN 1948-5727, ISBN 978-0-7381-1209-1
- 84** **Title of the work:** Ultrasound holograms to enhance deep-brain neuromodulation
Name of the conference: 2nd FUN Symposium
Type of participation: Participatory - oral communication
City of event: Online, United States of America
Date of event: 10/09/2021
End date: 10/09/2021
Organising entity: ITRUSST **Type of entity:** Associations and Groups
Diana Andrés-Bautista; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena; Jose María Benlloch. pp. 75 - 75.
- 85** **Title of the work:** Monitorización ultrasónica de la dinámica de desmineralización de la dentina con ácido fosfórico
Name of the conference: XLIX Reunión Anual del Centro de Estudios Odontostomatológicos de Valencia
Type of participation: Participatory - oral communication
City of event: Gandía, Spain
Date of event: 02/07/2021
End date: 02/07/2021
Organising entity: Centro de Estudios Odontostomatológicos de Valencia **Type of entity:** Associations and Groups
Josep Rodríguez-Sendra; Alicia Carrión-García; Inés Torres; Noé Jiménez; Salvatore Sauro; Joan Faus; Francisco Camarena. pp. 71 - 71.
- 86** **Title of the work:** Advanced control of sound reflections: from twisting to holograms and subwavelength resonances
Name of the conference: II Simposio de Acústica Arquitectónica (SAA 2021)
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
Date of event: 24/06/2021
Organising entity: Universidad Austral de Chile **Type of entity:** University
City organizing entity: Online, Chile



Noé Jiménez. "Conference Proceedings".

- 87** **Title of the work:** Acoustic holograms for thalamic focusing through the temporal-bone window
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - oral communication
City of event: Online, United States of America
Date of event: 10/06/2021
End date: 12/06/2021
Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups
Diana Andrés-Bautista; Noé Jiménez; Francisco Camarena. pp. 118 - 118. ISSN 1939-800X
DOI: <https://doi.org/10.1121/10.0004703>
- 88** **Title of the work:** Broad depth-of-field Bessel beams using acoustic holograms
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - oral communication
City of event: Online, United States of America
Date of event: 10/06/2021
End date: 12/06/2021
Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups
Sergio Jiménez-Gambín; Diana Andrés-Bautista; Noé Jiménez; Jose María Benlloch; Francisco Camarena. pp. 18 - 18. ISSN 1939-800X
DOI: <https://doi.org/10.1121/10.0004392>
- 89** **Title of the work:** Rapid Prototyping for Focused Ultrasound Sources
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Online, United States of America
Date of event: 10/06/2021
End date: 12/06/2021
Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups
Adam Maxwell; Timothy J. Hall; Thomas Gilles; Jeremy Brown; Kyle Morrison; Noé Jiménez; Sandy Cochran. pp. 137 - 137. ISSN 1939-800X
DOI: <https://doi.org/10.1121/10.0004391>
- 90** **Title of the work:** Reconstruction of arrays of acoustic vortices using holograms for multiple particle trapping
Name of the conference: 180th Meeting of the Acoustical Society of America
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Online, United States of America
Date of event: 10/06/2021
End date: 12/06/2021
Organising entity: Acoustical Society of America **Type of entity:** Associations and Groups
Noé Jiménez; Gabriela Sánchez-Rodríguez; Sergio Jiménez-Gambín; Diana Andrés-Bautista; Francisco Camarena. pp. 18 - 18. ISSN 1939-800X
DOI: <https://doi.org/10.1121/10.0004391>
- 91** **Title of the work:** Acoustic Holograms for Large-Volume Hyperthermia
Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)
Type of participation: Participatory - oral communication



City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Diana Andrés-Bautista; Jonathan Vappou; Noé Jiménez; Francisco Camarena. pp. 118 - 118.

92 **Title of the work:** Focusing Ultrasonic Vortices across the Human Skull by Acoustic Holograms
Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)

Type of participation: Participatory - oral communication

City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Noé Jiménez; Sergio Jiménez-Gambín; Jose María Benlloch; Francisco Camarena. pp. 202 - 202.

93 **Title of the work:** Holographic lenses to enhance thalamic therapy through the temporal bone window

Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)

Type of participation: Participatory - oral communication

City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Diana Andrés-Bautista; Noé Jiménez; Francisco Camarena. pp. 201 - 201.

94 **Title of the work:** Modeling Of Acoustic Holograms For Intensity-Modulated Ultrasound In Pediatric Brain Tumors

Name of the conference: 20th International Symposium for Therapeutic Ultrasound (ISTU 2021)

Type of participation: Participatory - oral communication

City of event: Gyeongju, Republic of Korea

Date of event: 09/06/2021

Organising entity: International Society for
Therapeutic Ultrasound

Type of entity: Associations and Groups

Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Zachary K. Englander; Noe Jimenez; Francisco Camarena; Elisa Konofagou; Stergios Zacharoulis; Cheng-Chia Wu. pp. 203 - 204.

95 **Title of the work:** Biomedical ultrasound applications of acoustics holograms

Name of the conference: Panoramic Half-Day on Acoustic Materials

Type of participation: Participatory - Plenary
session

Reasons for participation: Upon invitation

Corresponding author: No

City of event: Paris, France

Date of event: 10/05/2021

End date: 10/05/2021

Organising entity: Technical Committee on Acoustic Materials, European Acoustics Association
Noé Jiménez. "Conference proceedings".

96 **Title of the work:** Acoustic holograms for biomedical ultrasound applications

Name of the conference: Seminars of the Acoustics Research Centre

Type of participation: Participatory - Plenary
session

Reasons for participation: Upon invitation

Corresponding author: No

City of event: Salford, United Kingdom



Date of event: 21/04/2021
End date: 21/04/2021
Organising entity: University of Salford
Noé Jiménez. "Conference proceedings".

- 97** **Title of the work:** Natural sonic crystal absorber constituted of Aegagropilae fibernetwork
Name of the conference: 6th Symposium on the Acoustics of Poro-Elastic Materials
Corresponding author: No
City of event: West Lafayette, United States of America
Date of event: 02/04/2021
End date: 02/04/2021
Organising entity: Purdue University
L Barguet; V Romero-García; N Jiménez; LM García-Raffi; V Sánchez-Morcillo; J Groby. "Conference Proceedings". pp. 1 - 2.
- 98** **Title of the work:** Launch sound level characterisation and mitigation: numerical modelling framework and metamaterial proof of concept.
Name of the conference: 16th European Conference on Spacecraft structures, Materials & Environmental Testing (ECSSMET 2021)
Corresponding author: No
City of event: Online,
Date of event: 23/03/2021
End date: 25/03/2021
Organising entity: AGENCE SPATIALE EUROPEENE ESA - ESAC
Mara S. Escartí-Guillem; José Manuel Requena-Plens; Pablo Barriuso Feijoo; Alejandro Cebrecos; Marcos Chimeno-Manguán; Pedro Cobo-Parra; Luis Miguel García-Raffi; Jean-Philippe Groby; Sergio Hoyas; Noé Jiménez; Mario Lázaro; Julien Leng; José Nieto Mocholí; Elena Roibás Millán; Vicent Romero-García; Rubén Picó; Víctor Sánchez-Morcillo; Francisco Simon; Ivan C.S. Ngan. pp. 1 - 12.
- 99** **Title of the work:** Hologramas acústicos bilaterales para terapia transcraneal
Name of the conference: III Jornadas RSEF / IFIMED de Física Médica
Corresponding author: No
City of event: Valencia, Spain
Date of event: 05/12/2020
End date: 15/12/2020
Organising entity: Real Sociedad Española de Física
Diana Andrés; D Miguez; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. "Conference proceedings".
- 100** **Title of the work:** Bilateral blood-brain barrier opening in mice using acoustic holograms
Name of the conference: 7th International Symposium on Focused Ultrasound
Corresponding author: No
City of event: Charlottesville, Virginia, United States of America
Date of event: 09/11/2020
End date: 13/11/2020
Organising entity: Focused Ultrasound Foundation
Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Noé Jiménez; José M. Benlloch; Elisa E. Konofagou; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0
- 101** **Title of the work:** Conformation of ultrasonic vortex beams through the skull using acoustic holograms for particle trapping
Name of the conference: 7th International Symposium on Focused Ultrasound



Corresponding author: Yes

City of event: Charlottesville, Virginia, United States of America

Date of event: 09/11/2020

End date: 13/11/2020

Organising entity: Focused Ultrasound Foundation

Noé Jiménez; Sergio Jiménez-Gambín; Diana Andrés; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0

102 Title of the work: Experimental evidences of perfect acoustic absorption in deep sub-wavelength structures in ventilation problems

Name of the conference: 9th Forum Acusticum

Corresponding author: No

City of event: Lyon, France

Date of event: 09/11/2020

End date: 11/11/2020

Organising entity: European Acoustics Association

V. Romero-García; N. Jiménez; O. Richoux; G. Theocharis; J.-P. Groby; V. Pagneux. "Book of abstracts". ISBN 978-1-7281-5448-0

103 Title of the work: Natural sonic crystal constituted of Aegagropilae fiber network

Name of the conference: 9th Forum Acusticum

Corresponding author: No

City of event: Lyon, France

Date of event: 09/11/2020

End date: 11/11/2020

Organising entity: European Acoustics Association

J.-P. Groby; L. Barguet; V. Romero-García; N. Jiménez; L.M. García-Raffi; V.J. Sánchez-Morcillo. "Book of abstracts". ISBN 978-1-7281-5448-0

104 Title of the work: Nonlinear interaction of vortices to generated deep sub-wavelength acoustical vortex beams

Name of the conference: 9th Forum Acusticum

Corresponding author: Yes

City of event: Lyon, France

Date of event: 09/11/2020

End date: 11/11/2020

Organising entity: European Acoustics Association

V. Romero-García; J.L. Ealo-Cuello; R. Muelas-Hurtado; A. Duclos; N. Jiménez; V. Pagneux. "Book of abstracts". ISBN 978-1-7281-5448-0

105 Title of the work: Transcranial multifocal acoustic holograms

Name of the conference: 7th International Symposium on Focused Ultrasound

Corresponding author: No

City of event: Charlottesville, Virginia, United States of America

Date of event: 09/11/2020

End date: 13/11/2020

Organising entity: Focused Ultrasound Foundation

Diana Andrés; Noé Jiménez; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0



- 106 Title of the work:** A hybrid magnetic-ultrasonic technique for spectral viscoelastic characterization of soft solids
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Rafael Tarazona; Alejandro Cebrecos; Noé Jiménez; Francisco Camarena. "Conference proceedings".
- 107 Title of the work:** Acoustic field prediction during the launch of rockets
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Jose M. Requena-Plens; Noé Jiménez; Alejandro Cebrecos; Rubén Picó; Víctor J. Sánchez-Morcillo. "Conference proceedings".
- 108 Title of the work:** Arrays of vortices for particle trapping and patterning using single-beam acoustic holograms
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Gabriela Sánchez-Rodríguez; Noé Jiménez; Sergio Jiménez-Gambín; Francisco Camarena. "Conference proceedings".
- 109 Title of the work:** Beyond Schroeder diffusers using acoustic metasurfaces
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Noé Jiménez; Trevor J. Cox; José M. Requena-Plens; Eric Ballesteros; Jean-Philippe Groby; Vicente Romero-García. "Conference proceedings".
- 110 Title of the work:** Hologramas acústicos para la apertura bilateral de la barrera hematoencefálica en ratones in vivo
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020



End date: 23/10/2020

Organising entity: Sociedad Portuguesa de Acústica

Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Noé Jiménez; José M. Benlloch; Elisa E. Konofagou; Francisco Camarena. "Conference proceedings".

- 111 Title of the work:** Monitorización ultrasónica del proceso de desmineralización de la dentina
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Josep Rodríguez-Sendra; Noé Jiménez; Inés Torres; Salvatore Sauro; Francisco Camarena. "Conference proceedings".
- 112 Title of the work:** Multifocal acoustic holograms for ultrasound focusing at deep-brain structures
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Diana Andrés; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. "Conference proceedings".
- 113 Title of the work:** Sistema de microscopía fotoacústica empleando conformación de haz para escaneo de grandes superficies
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: No
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Alejandro Cebrecos; uan J. García-Garrigós; Andreu Descals; Noé Jiménez; José M. Benlloch; Francisco Camarena. "Conference proceedings".
- 114 Title of the work:** Towards quantitative cavitation mapping for transcranial ultrasound holographic therapy
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica
Corresponding author: Yes
City of event: Faro, Portugal
Date of event: 21/10/2020
End date: 23/10/2020
Organising entity: Sociedad Portuguesa de Acústica
Nathalie Lamothe; Noé Jiménez; Diego Miguez; Alejandro Cebrecos; Francisco Camarena. "Conference proceedings".
- 115 Title of the work:** Vortices for biomedical ultrasound applications
Name of the conference: Tecniacústica 2020 - 50º Congreso Español de Acústica y XI Congreso Ibérico de Acústica



Corresponding author: Yes

City of event: Faro, Portugal

Date of event: 21/10/2020

End date: 23/10/2020

Organising entity: Sociedad Portuguesa de Acústica

Noé Jiménez; Sergio Jiménez-Gambín; Diana Andrés; Francisco Camarena. "Conference proceedings".

- 116** **Title of the work:** Aplicaciones de los ultrasonidos en medicina
Name of the conference: Sede Universitaria de Villajoyosa
Type of event: Seminar
Type of participation: Participatory - Plenary session
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Villajoyosa, Spain
Date of event: 07/10/2020
End date: 07/10/2020
Organising entity: Universidad de Alicante
Type of entity: University
Noé Jiménez. "Book of abstracts".

- 117** **Title of the work:** A new elastographic technique using acoustic vortices
Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium
Corresponding author: Yes
City of event: Las Vegas, United States of America
Date of event: 07/09/2020
End date: 11/09/2020
Organising entity: Institute of Electrical and Electronics Engineers
Noé Jiménez; José M. Benlloch; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0

- 118** **Title of the work:** Dynamic beamforming for large area scan in array-based photoacoustic microscopy
Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium
Corresponding author: No
City of event: Las Vegas, United States of America
Date of event: 07/09/2020
End date: 11/09/2020
Organising entity: Institute of Electrical and Electronics Engineers
Alejandro Cebrecos; Juan José García-Garrigos; Andreu Descals; Noé Jiménez; José María Benlloch; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0

- 119** **Title of the work:** First in-vivo Demonstration of Bilateral Blood-Brain Barrier Opening Using Acoustic Holograms in Mice
Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium
Corresponding author: No
City of event: Las Vegas, United States of America
Date of event: 07/09/2020
End date: 11/09/2020
Organising entity: Institute of Electrical and Electronics Engineers
Sergio Jiménez-Gambín; Antonios N. Pouliopoulos; Noé Jiménez; Elisa E. Konofagou; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0



- 120** **Title of the work:** Multifocal acoustic holograms for deep-brain neuromodulation and BBB opening
Name of the conference: IUS 2020: IEEE International Ultrasonics Symposium
Corresponding author: Yes
City of event: Las Vegas, United States of America
Date of event: 07/09/2020
End date: 11/09/2020
Organising entity: Institute of Electrical and Electronics Engineers
Diana Andrés; Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena. "Conference proceedings". ISBN 978-1-7281-5448-0
- 121** **Title of the work:** How to design thin sound diffusers for room acoustics based on metasurfaces-metadiffusers
Name of the conference: 8th DENORMS CA15125 Workshop, Action Final event
Type of event: Workshop
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Coimbra, Portugal
Date of event: 21/02/2020
End date: 21/02/2020
Organising entity: Universidade de Coimbra **Type of entity:** University
Noé Jiménez. "Conference proceedings".
- 122** **Title of the work:** Experimental Validation of a 3D-Printed Quadratic Residue Metadiffuser
Name of the conference: SAM 2019 Symposium on Acoustic Metamaterials
Corresponding author: No
City of event: Ischia, Italy
Date of event: 09/10/2019
End date: 11/10/2019
Eric Ballester; Noé Jiménez; Jean-Philippe Groby; S Dance; H. Aygun; Vicente Romero-García. ISSN 0001-4966
- 123** **Title of the work:** Acoustic holograms allow the generation of complex fields inside the central nervous system
Name of the conference: IUS 2019 - 2019 IEEE International Ultrasonics Symposium (IUS)
Corresponding author: Yes
City of event: Glasgow, United Kingdom
Date of event: 06/10/2019
End date: 09/10/2019
Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch; Francisco Camarena.
- 124** **Title of the work:** Viscoelastic media characterization using magnetic force induced vibration on a ferromagnetic sphere
Name of the conference: IUS 2019 - 2019 IEEE International Ultrasonics Symposium (IUS)
Corresponding author: No
City of event: Glasgow, United Kingdom
Date of event: 06/10/2019
End date: 09/10/2019
Miguel Company; Noé Jiménez; Alejandro Cebrecos; José María Benlloch; Francisco Camarena.



- 125** **Title of the work:** Deep Sub-wavelength Metamaterials for Sound Absorption for the Reflection and Ventilation Problems
Name of the conference: Metamaterials'2019 - 13th International Congress on Artificial Materials for Novel Wave Phenomena
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: No
City of event: Rome, Italy
Date of event: 16/09/2019
End date: 21/09/2019
Vicente Romero-García; Noé Jiménez; Jean-Philippe Groby; Vincent Pagneux.
- 126** **Title of the work:** 3D Printed Quadratic Residue Metadiffuser – Design and Measurements of an Optimized Deep-Subwavelength Sound Diffuser
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Aachen, Germany
Date of event: 09/09/2019
End date: 13/09/2019
Eric Ballester; Vicente Romero García; Noé Jiménez; Jean Philippe Groby; Stephen Dance; Haydar Aygun.
- 127** **Title of the work:** Perfect acoustic absorption in deep sub-wavelength structures for the ventilation problems with degenerate resonators
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Aachen, Germany
Date of event: 09/09/2019
End date: 13/09/2019
Vicente Romero García; Noé Jiménez; Olivier Richoux; Georgios Theocharis; Jean Philippe Groby; Vincent Pagneux.
- 128** **Title of the work:** Transcranial focusing of arbitrary ultrasonic fields using acoustic holograms
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Aachen, Germany
Date of event: 09/09/2019
End date: 13/09/2019
Noé Jiménez; Sergio Jiménez-Gambín; Jose M. Benlloch; Francisco Camarena; Vincent Pagneux.
- 129** **Title of the work:** Beyond phase grating diffusers using locally-resonant metamaterials
Name of the conference: ICA 2019 - 23rd International Congress on Acoustics
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Aachen, Germany



Date of event: 09/09/2019

End date: 13/09/2019

Noé Jiménez; Trevor Cox; Jean-Philippe Groby; Vicent Romero García.

130 Title of the work: Calcium sulfate setting monitoring with ultrasonic backscattering analysis

Name of the conference: ICU 2019 - International Congress on Ultrasonics

City of event: Bruges, Belgium

Date of event: 03/09/2019

End date: 06/09/2019

Josep Rodriguez-Sendra; Noé Jiménez; Rubén Picó; Joan Faus; Francisco Camarena.

131 Title of the work: Magnetic force induced vibration on a ferromagnetic sphere for viscoelastic media characterization

Name of the conference: ICU 2019 - International Congress on Ultrasonics

City of event: Bruges, Belgium

Date of event: 03/09/2019

End date: 06/09/2019

Alejandro Cebrecos; Miguel Company; Noé Jiménez; José María Benlloch; Francisco Camarena.

132 Title of the work: Transcranial acoustic holograms for arbitrary fields generation using focused ultrasound into the brain

Name of the conference: ICU 2019 - International Congress on Ultrasonics

Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk

City of event: Bruges, Belgium

Date of event: 03/09/2019

End date: 06/09/2019

Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch; Francisco Camarena.

133 Title of the work: Deep Sub-wavelength Materials for Controlling Sound Diffusion: Experimental Validation of Metadiffusers

Name of the conference: META 2019 - 10th International Conference on Metamaterials, Photonic Crystals and Plasmonics

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Lisbon, Portugal

Date of event: 23/07/2019

End date: 26/07/2019

Eric Ballesteros; Noé Jiménez; Jean-Philippe Groby; S. Dance; Vicent Romero-García.

134 Title of the work: Focused ultrasound beyond phase-arrays: acoustic holographic lenses enable transcranial focusing of arbitrary fields at the central-nervous system

Name of the conference: XXXVII Reunión Bienal de la Real Sociedad Española de Física

Type of event: Conference

Type of participation: Participatory - Plenary session

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Zaragoza, Spain

Date of event: 15/07/2019

End date: 19/07/2019

Noé Jiménez; Sergio Jiménez; José M. Benlloch; Francisco Camarena.



- 135** **Title of the work:** Acoustic holograms for transcranial focusing of arbitrary ultrasonic fields into the brain
Name of the conference: ISTU 2019 - International Symposium of Therapeutic Ultrasound
Corresponding author: Yes
City of event: Barcelona, Spain
Date of event: 13/06/2019
End date: 15/06/2019
Sergio Jiménez-Gambín; Noé Jiménez; José María Benlloch; Francisco Camarena.
- 136** **Title of the work:** Optimal overlapping protocol and robustness assessment of blood-brain barrier opening in humans using a single-element focused ultrasound transducer
Name of the conference: ISTU 2019 - International Symposium of Therapeutic Ultrasound
Corresponding author: No
City of event: Barcelona, Spain
Date of event: 13/06/2019
End date: 15/06/2019
Sergio Jiménez-Gambín; Noé Jiménez; Andrei Marin; Francisco Camarena.
- 137** **Title of the work:** Study of the effect of cranial holes due to emissary veins and inhomogeneities in the thickness of the skull when focusing a transcranial ultrasound beam
Name of the conference: ISTU 2019 - International Symposium of Therapeutic Ultrasound
Corresponding author: No
City of event: Barcelona, Spain
Date of event: 13/06/2019
End date: 15/06/2019
María C. Dejoz-Díez; Sergio Jiménez-Gambín; Andrei Marin; Noé Jiménez; Francisco Camarena.
- 138** **Title of the work:** Nonlinear waves in phononic rotational lattices
Name of the conference: PHONONICS 2019 - 5th International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Topological Phononics
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: No
City of event: Tucson (AZ), United States of America
Date of event: 03/06/2019
End date: 07/06/2019
Vitaly Gusev; Noé Jiménez; Víctor J. Sánchez-Morcillo.
- 139** **Title of the work:** Slow sound based metamaterials: From perfect absorbers to metadiffusers
Name of the conference: PHONONICS 2019 - 5th International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Topological Phononics
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Tucson (AZ), United States of America
Date of event: 03/06/2019
End date: 07/06/2019
Noé Jiménez; Weichun Huang; Vicent Romero-García; Vincent Pagneux; Trevor Cox; Jean-Philippe Groby.
- 140** **Title of the work:** Ultrasonic Holograms in the Brain
Name of the conference: VI Mediterranean Thematic Workshop in Advanced Molecular Imaging (MEDAMI) - Imaging in Immunotherapy



Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Valencia, Spain

Date of event: 15/05/2019

End date: 17/05/2019

Sergio Jiménez-Gambín; Noé Jiménez; Francisco Camarena.

- 141** **Title of the work:** A new transport and preservation medical device for liver transplantation
Name of the conference: AEEH 2019 - 44th Meeting of the Spanish Association for the Study of the Liver
City of event: Madrid, Spain
Date of event: 01/02/2019
Organising entity: Spanish Association for the Study of the Liver
MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; C Peralta.
- 142** **Title of the work:** Perfect and broadband acoustic absorption by metasurfaces made of aerogel clamped plates
Name of the conference: SAM 2018 Symposium on Acoustic Metamaterials
Corresponding author: No
City of event: Xátiva, Spain
Date of event: 07/11/2018
End date: 10/11/2018
AA Fernández-Marín; Vicente Romero-García; Jean-Philippe Groby; Noé Jiménez; F Cervera; J Sánchez-Dehesa. ISSN 0001-4966
- 143** **Title of the work:** Use of Sonic Crystals for noise mitigation in the launch pad
Name of the conference: SAM 2018 Symposium on Acoustic Metamaterials
Corresponding author: No
City of event: Xátiva, Spain
Date of event: 07/11/2018
End date: 10/11/2018
I Herrero-Durá; A Cebrecos; V Romero-García; LM García-Raffi; N Jiménez; R Picó; V Sánchez-Morcillo. ISSN 0001-4966
- 144** **Title of the work:** Complex frequency analysis of the scattering matrix for the design of perfect absorbers in reflection and transmission problems
Name of the conference: 176th Meeting of the Acoustical Society of America
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Victoria, Canada
Date of event: 05/11/2018
End date: 09/11/2018
Noé Jiménez; Vicente Romero-García; Vincent Pagneux; Jean-Philippe Groby. ISSN 0001-4966
- 145** **Title of the work:** Strongly focused vortex beams by using flat Fresnel-spiral lenses
Name of the conference: 176th Meeting of the Acoustical Society of America
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Victoria, Canada
Date of event: 05/11/2018



End date: 09/11/2018

Noé Jiménez; Vicente Romero-García; Lluís M. García-Raffi; Francisco Camarena; Kestutis Staliunas. ISSN 0001-4966

- 146 Title of the work:** Difusores acústicos de vórtice
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Cádiz, Spain
Date of event: 26/10/2018
Noé Jiménez; Jean-Philippe Groby; Vincet Romero-García.
- 147 Title of the work:** Efectos del método de obtención de las propiedades acústicas de cráneo humano en la propagación focalizada de ultrasonidos
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
City of event: Cádiz, Spain
Date of event: 26/10/2018
Sergio Jiménez Gambín; Noé Jiménez; Francisco Camarena.
- 148 Title of the work:** Magnetismo y Acústica: caracterización viscoelástica mediante sistemas magnético-ultrasónicos
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Corresponding author: No
City of event: Cádiz, Spain
Date of event: 26/10/2018
Miguel Company Arnalte; Noé Jiménez; José María Benlloch; Francisco Camarena.
- 149 Title of the work:** Monitoring the setting of bone cements using ultrasonic backscattering
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Corresponding author: No
City of event: Cádiz, Spain
Date of event: 26/10/2018
Josep Rodríguez Sendra; Noé Jiménez; Rubén Picó; Joan Faus; Francisco Camarena.
- 150 Title of the work:** Vórtices acústicos altamente focalizados mediante espirales de Fresnel
Name of the conference: FIA 2018: XI Congreso Iberoamericano de Acústica. 49º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Cádiz, Spain
Date of event: 26/10/2018
Noé Jiménez; Vincet Romero-García; Lluís M. García Raffi; Francisco Camarena; Kestutis Staliunas.
- 151 Title of the work:** Perceptual evaluation of metamaterials as insulation partitions: A listening test within the COST action DENORMS (CA15125)
Name of the conference: ISMA 2018 - 28th International Conference on Noise and Vibration Engineering



Corresponding author: No

City of event: Leuven, Belgium

Date of event: 17/09/2018

End date: 30/09/2018

L Ryck; J Cuenca; K Jambrosic; C Glorieux; M Rychtarikova; V Romero-Garcia; A Cebrecos; N Jiménez; J Groby.

- 152** **Title of the work:** Kinks in a chain of magnetic coupled pendulums: Experimental and numerical study
Name of the conference: NOLTA 2018 - International Symposium on Nonlinear Theory and Its Applications
City of event: Tarragona, Spain
Date of event: 02/09/2018
End date: 06/09/2018
Lluís M. García-Raffi; Luis J. Salmerón-Contreras; Noé Jiménez; Ahmed Mehrem; Víctor J. Sánchez-Morcillo; Juan F.R. Archilla.
- 153** **Title of the work:** Vortex-sound diffusers using spiral metasurfaces
Name of the conference: Metamaterials'2018 - 12th International Congress on Artificial Materials for Novel Wave Phenomena
Corresponding author: Yes
City of event: Espoo, Finland
Date of event: 27/08/2018
End date: 31/08/2018
Noé Jiménez; Vicent Romero-García; Jean-Philippe Groby.
- 154** **Title of the work:** Thigmoimmunity: mechanical signals prime the quantitative disease resistance of plant
Name of the conference: IPB2018 - 9th International Plant Biomechanics
Reasons for participation: Upon invitation
Corresponding author: No
City of event: Montreal, Canada
Date of event: 09/08/2018
End date: 14/08/2018
F Garcia; O Léger; R Vincent; A Duclos; N Jiménez; E Badel; N Leblanc-Fournier; S Raffaele; A Barbacci.
ISSN 0001-4966
- 155** **Title of the work:** Modulated-nonlinearity in phononic crystals: from extremely linear to effective cubic nonlinear media
Name of the conference: ISNA 21 - 21st International Symposium on Nonlinear Acoustics, International Conference on Nonlinear Elasticity in Materials
Corresponding author: Yes
City of event: Santa Fe (NM), United States of America
Date of event: 09/07/2018
End date: 13/07/2018
Noé Jiménez; Vincent Tournat; Vicent Romero-García; Víctor Sánchez-Morcillo.
- 156** **Title of the work:** Nonlinear waves in a chain of magnetically coupled pendula
Name of the conference: ISNA 21 - 21st International Symposium on Nonlinear Acoustics, International Conference on Nonlinear Elasticity in Materials
City of event: Santa Fe (NM), United States of America
Date of event: 09/07/2018
End date: 13/07/2018
Lluís M García-Raffi; Luis J. Salmerón-Contreras; Noé Jiménez; Ahmed Mehrem; Víctor J. Sánchez-Morcillo; Rubén Picó; Juan F.R. Archilla.



- 157** **Title of the work:** Transport and preservation of liver in a revolutionary medical device
Name of the conference: TTS 2018 - 27th International Congress of The Transplantation Society
City of event: Madrid, Spain
Date of event: 05/07/2018
Organising entity: Transplantation Society
MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; J Gulfo; AI Alvarez-Mercado; C Peralta.
- 158** **Title of the work:** Modelización de cerámicas y transductores piezoeléctricos vibrando en espesor mediante matrices de transferencia
Name of the conference: VI Jornadas de Modelización Matemática
City of event: Valencia, Spain
Date of event: 25/06/2018
Noé Jiménez; Francisco Camarena. "Modelling in Science Education and Learning, (2018)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 159** **Title of the work:** Modelización de la dinámica de una esfera en el seno de un medio viscoelástico
Name of the conference: VI Jornadas de Modelización Matemática
City of event: Valencia, Spain
Date of event: 25/06/2018
Miguel Company; Noé Jiménez; Jose María Benlloch; Francisco Camarena. "Modelling in Science Education and Learning, (2018)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 160** **Title of the work:** Modelling ultrasonic signal backscattering in bone-cement
Name of the conference: VI Jornadas de Modelización Matemática
City of event: Valencia, Spain
Date of event: 25/06/2018
Josep Rodríguez-Sendra; Noé Jiménez; Rubén Picó; Joan Faus-López; Francisco Camarena. "Modelling in Science Education and Learning, (2018)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 161** **Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: Euronoise 2018, 11th European Congress and Exposition on Noise Control Engineering
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: No
City of event: Crete, Greece
Date of event: 27/05/2018
End date: 31/05/2018
Jean-Philippe Groby; Noé Jiménez; Vincent Pagneux; Vicent Romero-García. ISSN 2226-5147
- 162** **Title of the work:** Metadiffusers, deep subwavelength acoustic diffusers
Name of the conference: 14ème Congrès Français d'Acoustique
Corresponding author: Yes
City of event: Le Havre, France
Date of event: 23/04/2018
End date: 27/04/2018



Noé Jiménez; Trevor Cox; Vicent Romero-García; Jean-Philippe Groby.

- 163 Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: 14ème Congrès Français d'Acoustique
Corresponding author: No
City of event: Le Havre, France
Date of event: 23/04/2018
End date: 27/04/2018
Jean-Philippe Groby; Noé Jiménez; Vincent Pagneux; Vicent Romero-García.
- 164 Title of the work:** On the conditions for perfect absorption of sound by rigidly-backed layers of porous materials
Name of the conference: 5th Symposium on the Acoustics of Poro-Elastic Materials (SAPEM)
City of event: Le Mans, France
Date of event: 06/12/2017
N Jiménez; V Romero-García; V Pagneux; Jean-Philippe Groby. "Proceedings of the 5th SAPEM".
- 165 Title of the work:** Perfect absorption in acoustics metamaterials based on open lossy resonant building blocks
Name of the conference: 5th Symposium on the Acoustics of Poro-Elastic Materials (SAPEM)
City of event: Le Mans, France
Date of event: 06/12/2017
V Romero-García; N Jiménez; V Pagneux; Jean-Philippe Groby. "Proceedings of the 5th SAPEM".
- 166 Title of the work:** Perfect and broadband sound absorption based in rainbow trapping phenomena
Name of the conference: 5th Symposium on the Acoustics of Poro-Elastic Materials (SAPEM)
City of event: Le Mans, France
Date of event: 06/12/2017
N Jiménez; V Romero-García; V Pagneux; Jean-Philippe Groby. "Proceedings of the 5th SAPEM".
- 167 Title of the work:** Nonlinear localized waves in repulsive lattices
Name of the conference: ASME 2017 International Mechanical Engineering Congress and Exposition (IMECE)
City of event: Tampa, United States of America
Date of event: 07/11/2017
Organising entity: American Society of Mechanical Engineers
V́ctor J. Sánchez-Morcillo; Luis J. Salmerón-Contreras; Luis M. García-Raffi; Ruben Pico; Noé Jiménez; J. F. R. Archilla. "Proceedings of the ASME 2017 IMECE".
- 168 Title of the work:** A new medical device for the preservation and transport of livers that are going to be transplanted
Name of the conference: 26º Congress of the Spanish Hepatic Transplant Society (SETH)
City of event: Valencia, Spain
Date of event: 01/11/2017
Organising entity: Spanish Hepatic Transplant Society
MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; C Peralta.
- 169 Title of the work:** Absorción perfecta de baja frecuencia por paneles acústicos ultrafinos basados en metamateriales
Name of the conference: Tecniacústica 2017 - 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica



Corresponding author: Yes

City of event: La Coruña, Spain

Date of event: 04/10/2017

Noé Jiménez; Vincet Romero-García; Vincent Pagneux; Jean-Philippe Groby.

- 170 Title of the work:** Estudio numérico del protocolo de propagación transcraneal de ultrasonidos para la apertura de la barrera hematoencefálica en el hipocampo de humano
Name of the conference: Tecniacústica 2017 - 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica
Corresponding author: No
City of event: La Coruña, Spain
Date of event: 04/10/2017
S Jiménez-Gambín; N Jiménez; M Company; F Camarena. "Proceedings of the TECNIACUSTICA 2017. 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica".
- 171 Title of the work:** Metadifusores: difusores acústicos ultrafinos basados en metamateriales
Name of the conference: Tecniacústica 2017 - 48º Congreso Español de Acústica y Encuentro Ibérico de Acústica
City of event: La Coruña, Spain
Date of event: 04/10/2017
Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Jean-Philippe Groby.
- 172 Title of the work:** A new medical device in transplantation for liver transport and preservation
Name of the conference: ESOT 18th Congress of the European Society for Organ Transplantation
City of event: Barcelona, Spain
Date of event: 01/09/2017
Organising entity: European Society for Organ Transplantation
MB Jiménez-Castro; F Camarena; ME Cornide-Petronio; N Jiménez; J Gracia-Sancho; C Peralta.
- 173 Title of the work:** Rainbow trapping absorbers: Broadband and perfect absorption in subwavelength panels
Name of the conference: Industrial Applications of Acoustic Metamaterials, GdR META and COST Action DENORMS (CA15125)
City of event: Marseille, France
Date of event: 01/09/2017
Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby.
- 174 Title of the work:** Metadiffusers: sound diffusers with deep-subwavelength dimensions
Name of the conference: Metamaterials 2017, 11th International Congress on Engineered Material Platforms for Novel Wave Phenomena
City of event: Marseille, France
Date of event: 28/08/2017
Noé Jiménez; Trevor J. Cox; Vicent Romero-García; Jean-Philippe Groby.
- 175 Title of the work:** Nonlinear Waves in a Lattice of Magnetic Dipoles
Name of the conference: 13th International Conference on Theoretical and Computational Acoustics (ICTCA2017)
City of event: Vienna, Austria
Date of event: 30/07/2017
Luis Salmerón-Contreras; Noé Jiménez; Víctor J. Sánchez-Morcillo; Lluís M. García Raffi; Rubén Picó; J. F.R. Archilla.



- 176** **Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: 13th International Conference on Theoretical and Computational Acoustics (ICTCA2017)
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Vienna, Austria
Date of event: 30/07/2017
Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby.
- 177** **Title of the work:** Rainbow-trapping absorbers for transmission problems: Broadband and perfect sound absorbing panels
Name of the conference: 24th International Congress on Sound and Vibration (ICSV24)
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: London, United Kingdom
Date of event: 23/07/2017
Noé Jiménez; Vicent Romero-García; Vincent Pagneux; Jean-Philippe Groby.
- 178** **Title of the work:** Nonlinear Waves in Layered Ionic Crystals
Name of the conference: 13th International Conference on Theoretical and Computational Acoustics (ICTCA2017)
City of event: Vienna, Austria
Date of event: 30/06/2017
J. F. Archilla; Y. A. Kosevich; Y. O. Zolotaryuk; Víctor Sanchez-Morcillo; Noé Jiménez; Luis M. García-Raff.
- 179** **Title of the work:** Perfect and broadband acoustic absorption in deep sub-wavelength structures for the reflection and transmission problems
Name of the conference: Acoustics '17 Joint Meeting of the Acoustical Society of America and the European Acoustics Association
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Boston, United States of America
Date of event: 25/06/2017
Vicent Romero-García; Noé Jiménez; Vincent Pagneux; Jean-Phillipe GRoby.
- 180** **Title of the work:** From metaporous materials to subwavelength absorbers: some recipe to design perfect sound absorbers
Name of the conference: 61st IcETTRAN Conference
City of event: Kladovo, Serbia
Date of event: 05/06/2017
Jean-Philippe Groby; Noé Jiménez; L. Schwan; C. Lagarrigue; W. Huang; V. Romero-García; V. Tournat; V. Pagneux; O. Dazel; T. Weisser; Y. Aurégan; B. Nennig.
- 181** **Title of the work:** Subwavelength absorbers and metasurfaces
Name of the conference: DENORMS Workshop on Modelling of high performance acoustic structures Porous media, metamaterials and sonic crystals
Type of participation: Participatory - Plenary session **Reasons for participation:** Upon invitation
Corresponding author: Yes
City of event: Rome, Italy



Date of event: 23/01/2017
Noé Jiménez.

- 182 Title of the work:** Nonlinear waves in phononic rotational lattices
Name of the conference: IMECE International Mechanical Engineering Congress & Exposition
City of event: Phoenix, United States of America
Date of event: 15/11/2016
V. Sánchez-Morcillo; V. Gusev; N. Jiménez. ISBN 978-0-7918-5067-1
- 183 Title of the work:** Localized nonlinear modes in microbubbles under the action of ultrasound
Name of the conference: Ultrasonics Symposium (IUS), 2016 IEEE International
City of event: Tours, France
Date of event: 18/09/2016
Serge Dos Santos; Noé Jiménez; Víctor Sánchez-Morcillo. ISSN 1948-5727
DOI: 10.1109/ULTSYM.2016.7728853
- 184 Title of the work:** Design of sub-wavelength acoustic absorbing panels using accumulation of resonances due to slow sound
Name of the conference: Metamaterials 2016 - 10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics
City of event: Crete, Greece
Date of event: 17/09/2016
N. Jiménez; J-P. Groby; V. Romero-García; V. Pagneux. ISBN 978-1-5090-1803-1
DOI: 10.1109/MetaMaterials.2016.7746466
- 185 Title of the work:** Ultra thin acoustic metamaterial panels based on resonant bricks for perfect absorption
Name of the conference: Metamaterials 2016 - 10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics
City of event: Crete, Greece
Date of event: 17/09/2016
N. Jiménez; W. Huang; J-P. Groby; V. Pagneux; V. Romero-García. ISBN 978-1-5090-1803-1
DOI: 10.1109/MetaMaterials.2016.7746466
- 186 Title of the work:** Study of aberrations at the focus of an ultrasonic beam due to the propagation across different areas of the skull
Name of the conference: 5th International Symposium on Focused Ultrasound
City of event: Bethesda, Maryland, United States of America
Date of event: 01/09/2016
F. Camarena; S. Jiménez-Gambín; N. Jiménez; E. E. Konofagou.
- 187 Title of the work:** Gap solitons in acoustic layered media
Name of the conference: EAA EuroRegio 2016. Jointly with 9^o Iberian Congress and the 47th Spanish Congress on Acoustics TECNIACUSTICA 2016
City of event: Porto, Portugal
Date of event: 13/06/2016
End date: 15/06/2016
L. J. Salmerón-Contreras; L.M. García-Raffi; N. Jiménez; A. Meherem; R. Picó; V. Sánchez-Morcillo; K. Staliunas. ISBN 978-84-87985-27-0



- 188 Title of the work:** Second harmonic propagation in coupled oscillators
Name of the conference: EAA EuroRegio 2016. Jointly with 9^o Iberian Congress and the 47th Spanish Congress on Acoustics TECNIACUSTICA 2016
City of event: Porto, Portugal
Date of event: 13/06/2016
A. Mehrem; V. Sánchez-Morcillo; N. Jiménez; L. Salmerón-Contreras; X. García-Andres; R. Picó; L.M. García-Raffi. "Conferencias y Comunicaciones de EuroRegio 2016, 9^o Congreso Ibérico de Acústica y 47^o Congreso Español de Acústica -TECNIACUSTICA 2016". ISBN 978-84-87985-27-0
- 189 Title of the work:** Solitary waves in nonlinear phononic crystals
Name of the conference: EAA EuroRegio 2016. Jointly with 9^o Iberian Congress and the 47th Spanish Congress on Acoustics TECNIACUSTICA 2016
City of event: Porto, Portugal
Date of event: 13/06/2016
Ahmed Mehrem; Rubén Picó; Víctor J. Sánchez-Morcillo; Lluís M. García-Raffi; Luis J. Salmerón-Contreras; Noé Jiménez; Kestutis Staliunas. ISBN 978-84-87985-27-0
- 190 Title of the work:** Acoustic gap solitons in layered media
Name of the conference: NoLineal 2016: International Conference on Nonlinear Mathematics and Physics
City of event: Seville, Spain
Date of event: 09/06/2016
Luis Salmerón-Contreras; Lluís M. García-Raffi; Noé Jiménez; Ahmed Mehren; Rubén Picó; Víctor J. Sánchez-Morcillo; Kestutis Staliunas.
- 191 Title of the work:** Second harmonic generation in a chain of magnetic pendulums
Name of the conference: NoLineal 2016: International Conference on Nonlinear Mathematics and Physics
City of event: Seville, Spain
Date of event: 09/06/2016
Ahmed Mehren; Noé Jiménez; Luis Salmerón-Contreras; Xavier García-Andrés; Rubén Picó; Lluís M. García-Raffi; Víctor J. Sánchez-Morcillo.
- 192 Title of the work:** Absorption quasi-parfaite du son par un métamatériau acoustique suite à l'accumulation de résonances due à une propagation lente
Name of the conference: CFA/VISHNO 2016, Congres Français d'Acustique
City of event: Le Mans, France
Date of event: 15/04/2016
Noé Jiménez; Weichun Huang; Jean-Philippe Groby; Vicent Romero-García; Vincent Pagneux.
- 193 Title of the work:** Fentes minces chargées par des résonateurs de Helmholtz pour l'absorption du son dans l'audible
Name of the conference: CFA/VISHNO 2016, Congres Français d'Acustique
City of event: Le Mans, France
Date of event: 15/04/2016
Weichun Huang; Jean-Philippe Groby; Vicent Romero-García; Noé Jiménez.
- 194 Title of the work:** Surface acoustic waves for the characterization of fruit
Name of the conference: Fruit Structure 2015
Corresponding author: Yes
City of event: Angers, France
Date of event: 01/12/2015
Aroune Duclos; Noé Jiménez; Jean-Philippe Groby.



- 195** **Title of the work:** Ultrasonic evaluation of the hydration degree of the orange peel
Name of the conference: Fruit Structure 2015
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Angers, France
Date of event: 01/12/2015
Noé Jiménez; Francisco Camarena; Rubén Picó; Javier Redondo; Aroune Duclos; Jean-Philippe Groby.
- 196** **Title of the work:** Nonlinear waves in phononic lattices and superlattices
Name of the conference: IMECE 2015: International Mechanical Engineering Congress & Exposition
City of event: Huston, Texas, United States of America
Date of event: 13/11/2015
End date: 19/11/2015
Víctor J. Sánchez-Morcillo; Noé Jiménez; Ahmed Mehrem; Rubén Picó; Lluís M. García-Raffi. "Proceedings of the IMECE2015". ISBN 978-0-7918-5756-4
- 197** **Title of the work:** Time-domain simulation of constitutive relations for nonlinear acoustics including relaxation for frequency power law attenuation media modelling
Name of the conference: 20th International Symposium on Nonlinear Acoustics. Including the 2nd International Sonic Boom Forum
City of event: Lyon, France,
Date of event: 03/07/2015
Noé Jiménez González; Francisco Camarena Femenia; Víctor José Sánchez Morcillo; Francisco Javier Redondo Pastor; Elisa Konofagou. "AIP Conference Proceedings 1685, 070012 (2015)". pp. 101 - 105. ISBN 978-0-7354-1332-0
DOI: 10.1063/1.4934449
- 198** **Title of the work:** Diffusion of Sound Waves by Sonic Crystals
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
LUIS JOSÉ SALMERÓN CONTRERAS; Alejandro Cebrecos Ruiz; Noé Jiménez González; Luis Miguel García Raffi; Rubén Picó Vila; Francisco Javier Redondo Pastor; Vicente Romero García; Víctor José Sánchez Morcillo; KESTUTIS STALIUNAS. "Proceedings". pp. 196 - 197.
- 199** **Title of the work:** Efficient Second Harmonic Generation of Narrow Beams in 2D Sonic Crystals
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
El-Mokhtar Hamham; Noé Jiménez González; Rubén Picó Vila; Luis Miguel García Raffi; Víctor José Sánchez Morcillo; KESTUTIS STALIUNAS. "Proceedings". pp. 436 - 437.
- 200** **Title of the work:** Helical Bessel Beam Formation by an Archimedean Spiral Grating
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
Noé Jiménez González; Rubén Picó Vila; Luis Miguel García Raffi; Vicente Romero García; Víctor José Sánchez Morcillo; KESTUTIS STALIUNAS. "Proceedings". pp. 112 - 113.



- 201** **Title of the work:** Nonlinear Waves in Periodic Media: from Lattices to Superlattices and Phononic Crystals
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
V́ctor Joś Sánchez Morcillo; Noe Jimenez Gonzalez; AHMED MEHREM; Rubén Picó Vila; Luis Miguel García Raffi; Vicente Romero García; Vincent Tournat. "Proceedings". pp. 456 - 457.
- 202** **Title of the work:** Nonlinear Waves in a Discrete Magnetic Lattice
Name of the conference: 3rd International Conference on Phononic Crystals/Metamaterials, Phonon Transport and and Phonon Coupling (PHONONICS 2015)
City of event: Paris, France,
Date of event: 05/06/2015
AHMED MEHREM; Noe Jimenez Gonzalez; LUIS JOSÉ SALMERÓN CONTRERAS; Xavier García Andrés; Luis Miguel García Raffi; V́ctor Joś Sánchez Morcillo; Rubén Picó Vila. "Proceedings". pp. 438 - 439.
- 203** **Title of the work:** High-order acoustic Bessel beam generation by spiral gratings
Name of the conference: International Congress on Ultrasonics (ICU 2015)
City of event: Metz, France,
Date of event: 14/05/2015
Noe Jimenez Gonzalez; V́ctor Joś Sánchez Morcillo; Rubén Picó Vila; Luis Miguel García Raffi; Vicente Romero García; KESTUTIS STALIUNAS. "Physics Procedia 70 (2015) 245-248". pp. 262 - 262. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.08.146
- 204** **Title of the work:** Propagation of Intense Acoustic Waves in Sonic Crystals
Name of the conference: International Congress on Ultrasonics (ICU 2015)
City of event: Metz, France,
Date of event: 14/05/2015
V́ctor Joś Sánchez Morcillo; Noe Jimenez Gonzalez; AHMED MEHREM; El-Mokhtar Hamham; Luis Miguel García Raffi; Rubén Picó Vila. "Physics Procedia 70 (2015) 271-274". pp. 175 - 175. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.08.152
- 205** **Title of the work:** Nonlinear Acoustic Waves Periodic Media
Name of the conference: 7th Forum Acusticum 2014
City of event: Krakow, Poland,
Date of event: 12/09/2014
AHMED MEHREM; El Mokhtar Hamham; Noe Jimenez Gonzalez; Alejandro Cebrecos Ruiz; Rubén Picó Vila; V́ctor Joś Sánchez Morcillo; Luis Miguel García Raffi. "Proceedings of 7th Forum Acusticum". pp. 1 - 1. European Acoustics Association,
- 206** **Title of the work:** Lattice of nonlinear coupled oscillators: An acousto-mechanical analogy of gas microbubble
Name of the conference: 2014 IEEE International Ultrasonics Symposium (IUS)
City of event: Chicago, USA,
Date of event: 06/09/2014
Jennifer Chaline; Ayache Bouakaz; J. M. Escoffre; V́ctor Joś Sánchez Morcillo; Noe Jimenez Gonzalez; Serge Dos Santos. "Ultrasonics Symposium (IUS), 2014 IEEE International". pp. 1 - 4. IEEE, ISBN 978-1-4799-7049-0
DOI: 10.1109/ULTSYM.2014.0567



- 207** **Title of the work:** Analogie macroscopique et acousto-mécanique d'une microbulle d'agent de contraste
Name of the conference: 12ème Congrès Français d'Acoustique
City of event: Poitiers, France,
Date of event: 25/04/2014
Jennifer Chaline; Serge Dos Santos; Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Ayache Bouakaz. pp. 927 - 932.
- 208** **Title of the work:** Efficiency of parametric ultrasound generation in relaxing media for very shallow-water echo sounders
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Patricia Ordoñez Cebrian; Noe Jimenez Gonzalez; Víctor Espinosa Roselló; Vicente Puig Pons; Ester Soliveres González. pp. 1 - 6.
- 209** **Title of the work:** Nonlinear ultrasound simulations including complex frequency dependent attenuation
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Physics Procedia 63 (2015) 108-113". pp. 1 - 6. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.03.018
- 210** **Title of the work:** On the Nonlinear Effects in Focused Ultrasound Beams with Frequency Power Law Attenuation
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Víctor José Sánchez Morcillo; Pablo Cambor Iglesias; Francisco Camarena Femenia. "Physics Procedia 63 (2015) 47-53". pp. 1 - 6. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.03.008
- 211** **Title of the work:** Transcranial Propagation with an Ultrasonic Mono-Element Focused Transducer
Name of the conference: 43rd Annual Symposium of the Ultrasonic Industry Association
City of event: Madrid, Spain,
Date of event: 25/04/2014
Pablo Cambor Iglesias; Noe Jimenez Gonzalez; Elisa Konofagou; Francisco Camarena Femenia; Francisco Javier Redondo Pastor. "Physics Procedia 63 (2015) 103 - 107". pp. 1 - 6. Elsevier, ISSN 1875-3892
DOI: 10.1016/j.phpro.2015.03.017
- 212** **Title of the work:** Estimación del tiempo de reverberación a partir de respuestas impulsivas con baja relación señal-ruído
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Francisco Javier Redondo Pastor; Noe Jimenez Gonzalez; Pablo Cambor Iglesias. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1202 - 1208. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2



- 213 Title of the work:** Estudio paramétrico de la propagación transcraneal de un haz ultrasónico para la apertura de la barrera hematoencefálica
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Pablo Camblor Iglesias; Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Francisco Camarena Femenia. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1638 - 1645. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2
- 214 Title of the work:** Ondas acústicas de amplitud finita en medios con relajación: aplicación al modelado de tejidos biológicos
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Francisco Camarena Femenia; Víctor José Sánchez Morcillo. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1632 - 1637. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2
- 215 Title of the work:** Pantallas acústicas basadas en cristales de sonido
Name of the conference: TECNIACUSTICA 2013. 44º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and Noise Mapping.
City of event: Valladolid,
Date of event: 04/10/2013
Francisco Javier Redondo Pastor; Noe Jimenez Gonzalez; Juan Vicente Sánchez Pérez; Jose Miguel Fuster Fajardo; Juan Miguel Barrigón; Pedro Atanasio. "Conferencias y Comunicaciones del 44º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Europeo de Acústica Ambiental y Mapas de Ruido". pp. 1101 - 1108. Sociedad Española de Acústica (SEA), ISBN 978-84-87985-23-2
- 216 Title of the work:** A crowdion in mica. Between K40 recoil and transmission sputtering.
Name of the conference: Quodons in mica: nonlinear localized travelling excitations in crystals (QiM 2013)
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Altea, España,
Date of event: 21/09/2013
Noe Jimenez Gonzalez; Juan Francisco Rodriguez Archilla; Yuri Kosevich .; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. pp. 22 - 23.
- 217 Title of the work:** Vibration modes in a pendulums ring: analogy with gas microbubbles surface modes
Name of the conference: 2013 Joint UFFC, EFTF and PFM Symposium. Int Ultrasonics Symposium (IUS), Int. Symposium on the Applications of Ferroelectrics ? Piezoresponse Force Microscopy Workshop (ISAF? PFM), Int. Frequency Control Symposium ? European Frequency and Time Forum
City of event: Praga, República Checa,
Date of event: 25/07/2013
Jennifer Chaline; Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Ayache Bouakaz; Serge Dos Santos. pp. 1 - 6. IEEE, ISBN 978-1-4673-5686-2
DOI: 10.1109/ULTSYM.2013.0085



- 218 Title of the work:** Focalización de ondas acústicas mediante una lente formada por dispersores toroidales rígidos.
Name of the conference: XXXIV Reunión Bienal de la Real Sociedad Española de Física
City of event: Valencia,
Date of event: 19/07/2013
Daniel Tarrazo Serrano; Rubén Picó Vila; Vicente Romero García; Alejandro Cebrecos Ruiz; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi; Juan Vicente Sánchez Pérez. "XXXIV Reunión Bienal de la Real Sociedad Española de Física". pp. 4 - 6. Real Sociedad Española de Física,
- 219 Title of the work:** Interacción Coulombiana, estorninos y Angry Birds
Name of the conference: 23º Encuentro Ibérico de Enseñanza de la Física
City of event: Valencia, España,
Date of event: 19/07/2013
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi; Juan Francisco Rodriguez Archilla; Francisco Javier Redondo Pastor. "XXXIII Reunión Bienal de la Real Sociedad Española de Física. 23º Encuentro Ibérico de Enseñanza de la Física". pp. 1 - 1. Sociedad Española de Física,
- 220 Title of the work:** Parametric Study of transcranial focused ultrasound propagation for blood-brain barrier opening
Name of the conference: XXXIV Reunión Bienal de la Real Sociedad Española de Física
City of event: Valencia,
Date of event: 19/07/2013
Pablo Cambor Iglesias; Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Francisco Camarena Femenia. "XXXIV Reunión Bienal de la Real Sociedad Española de Física". pp. 774 - 775. Real Sociedad Española de Física,
- 221 Title of the work:** Simulación numérica con FDTD de una cerámica piezoeléctrica
Name of the conference: 23º Encuentro Ibérico de Enseñanza de la Física
City of event: Valencia, España,
Date of event: 19/07/2013
Pablo Cambor Iglesias; Noe Jimenez Gonzalez; Nuria González Salido; Marcelino Ferri García; Rubén Picó Vila; Bernardino Roig Sala; Francisco Javier Redondo Pastor; Francisco Camarena Femenia. "XXXIII Reunión Bienal de la Real Sociedad Española de Física. 23º Encuentro Ibérico de Enseñanza de la Física". pp. 1 - 1. Sociedad Española de Física,
- 222 Title of the work:** Parametric study of transcranial focused ultrasound propagation for blood?brain barrier opening
Name of the conference: 5th European Symposium on Ultrasonic Characterization of Bone (ESUCB 2013)
City of event: Granada,
Date of event: 10/05/2013
Noe Jimenez Gonzalez; Pablo Cambor Iglesias; Francisco Javier Redondo Pastor; Elisa Konofagou; Francisco Camarena Femenia. "Proceedings ESUCB 2013. European Symposium on Ultrasonic Characterization of Bone". pp. 38 - 39. University of Granada http://www.ugr.es/~grus/x/proceedings_esucb13.pdf,
- 223 Title of the work:** Effect of ZBL potential on kinks in repulsive lattices
Name of the conference: IV International Symposium on Strong Nonlinear Vibronic and Electronic Interactions in Solids
City of event: Tartu, Estonia,
Date of event: 03/05/2013
Juan Francisco Rodriguez Archilla; Yuri Kosevich .; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. "IV International Symposium on Strong Nonlinear Vibronic and Electronic Interactions in Solids. Book of Abstracts". pp. 26 - 26. University of Tartu,



- 224 Title of the work:** Supersonic solitons and kinks in repulsive lattices
Name of the conference: Workshop Lattice Solitons and Irradiation-induced Nonlinear Phenomena in Solids
City of event: Tartu, Estonia,
Date of event: 02/11/2012
Juan Francisco Rodriguez Archilla; Yuri Kosevich .; Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Luis Miguel García Raffi. pp. 1 - 1.
- 225 Title of the work:** Moving excitations in cation lattices
Name of the conference: International Conference Problems of Theoretical Physics
City of event: Kiev, Ukraine,
Date of event: 11/10/2012
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Yuri Kosevich .; Luis Miguel García Raffi; Juan Francisco Rodriguez Archilla. "International Conference Problems of Theoretical Physics. Program & Proceedings". pp. 58 - 58. University of Kyiv,
- 226 Title of the work:** Spatio-temporal dynamics in a ring of coupled pendula: analogy with bubbles
Name of the conference: 2nd Conference on Localized Excitations in Nonlinear Complex Systems (LENCOS'12)
City of event: Sevilla, España,
Date of event: 12/07/2012
Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; Jennifer Chaline; Ayache Bouakaz; Serge Dos Santos. "Proceedings". pp. 29 - 29. ISBN 978-3-319-02056-3
- 227 Title of the work:** Modeling acoustically driven microbubbles by macroscopic discrete-mechanical analogues
Name of the conference: III Jornadas de Modelización Matemática
City of event: Gandia,
Date of event: 08/06/2012
Víctor José Sánchez Morcillo; Noe Jimenez Gonzalez; Serge Dos Santos; Jennifer Chaline; Ayache Bouakaz; Nuria González Salido. "Modelling in Science Education and Learning, 6 (7), pp 75–87, (2013)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1985
- 228 Title of the work:** Simulación numérica de una cerámica piezoeléctrica
Name of the conference: III Jornadas de Modelización Matemática
City of event: Gandia,
Date of event: 08/06/2012
Nuria González Salido; Marcelino Ferri García; Noe Jimenez Gonzalez; Francisco Camarena Femenia; Rubén Picó Vila; Francisco Javier Redondo Pastor; Bernardino Roig Sala. "Modelling in Science Education and Learning, 6 (12), pp 131–143, (2013)". pp. 1 - 1. ISSN 1988-3145
DOI: 10.4995/msel.2013.1990
- 229 Title of the work:** Aplicaciones médicas de los ultrasonidos en el IGIC
Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable
City of event: Cáceres,
Date of event: 26/10/2011
Noe Jimenez Gonzalez; Francisco Sales Castells Ramón; Marcelino Ferri García; Pedro Alonso Jordá; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo;



Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 11 - 16. ISBN 978-84-87985-20-1

230 Title of the work: Efectos no lineales en la fuerza de radiación generada por haces focalizados de amplitud modulada

Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable

City of event: Cáceres,

Date of event: 26/10/2011

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 17 - 20. ISBN 978-84-87985-20-1

231 Title of the work: Estudio de la propagación no lineal de haces de ultrasonidos focalizados a través del cráneo para la apertura de la barrera hematoencefálica

Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable

City of event: Cáceres,

Date of event: 26/10/2011

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 3 - 12. SEA, ISBN 978-84-87985-20-1

232 Title of the work: Predicción numérica de ondas acústicas de amplitud finita bajo condiciones de contorno arbitrarias

Name of the conference: TECNIACÚSTICA 2011. 42º Congreso Español de Acústica. Encuentro Ibérico de Acústica. EAA European Symposium on Environmental Acoustics and on Buildings Acoustically Sustainable

City of event: Cáceres,

Date of event: 26/10/2011

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "Conferencias y comunicaciones de Tecniacustica 2011 -42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible". pp. 1 - 10. ISBN 978-84-87985-20-1

233 Title of the work: Modulational Instability and Localized Modes for Ultrasound Contrast Microbubbles Surface Oscillations

Name of the conference: 2011 IEEE International Ultrasonics Symposium

City of event: Orlando, Florida, USA,

Date of event: 18/10/2011

Noe Jimenez Gonzalez; Serge Dos Santos; Víctor José Sánchez Morcillo; Jennifer Chaline; Ayache Bouakaz. "Ultrasonics Symposium (IUS), 2011 IEEE International". pp. 648 - 651. ISBN 978-1-4577-1252-4

234 Title of the work: Modulational Instability of Microbubbles Surface Modes

Name of the conference: International Congress on Ultrasonics (ICU 2011)

City of event: Gdansk, Poland,

Date of event: 05/09/2011



Noe Jimenez Gonzalez; Víctor José Sánchez Morcillo; André-Pierre Abellard; Serge Dos Santos; Ayache Bouakaz. "Ultrasonics Symposium (IUS), 2011 IEEE International". pp. 311 - 314. ISBN 978-1-4577-1252-4
DOI: 10.1109/ULTSYM.2011.0157

235 Title of the work: Nonlinear Effects In The Radiation Force Generated By Amplitude-Modulated Focused Beams

Name of the conference: 11th International Symposium on Therapeutic Ultrasound

City of event: Marriott Marquis in New York,

Date of event: 11/04/2011

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Rubén Picó Vila; Víctor José Sánchez Morcillo; Francisco Camarena Femenia. "AIP Conf. Proc. 1481, 112 (2012)". pp. 15 - 22. ISBN 978-0-7354-1093-0

DOI: 10.1063/1.4757320

236 Title of the work: Numerical Study of Nonlinear, Transcranial Focused Ultrasound Wave Propagation for Blood-Brain Barrier (BBB) Opening

Name of the conference: 11th International Symposium on Therapeutic Ultrasound

City of event: Marriott Marquis in New York,

Date of event: 11/04/2011

Noe Jimenez Gonzalez; Bernardino Roig Sala; Francisco Javier Redondo Pastor; Rubén Picó Vila; Francisco Camarena Femenia. "AIP Conf. Proc. 1481, 155 (2012)". pp. 8 - 14. ISBN 978-0-7354-1093-0

DOI: 10.1063/1.4757327

237 Title of the work: Cálculo de campos acústicos no lineales mediante diferencias finitas en dominio temporal

Name of the conference: TECNIACUSTICA 2010. 41 ° Congreso Español de Acústica. 6º Congreso Ibérico de Acústica. EAA simposio europeo acústica ambiental y edificación acústicamente sostenible

City of event: León, España,

Date of event: 13/10/2010

Noe Jimenez Gonzalez; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Francisco Camarena Femenia; Adrián Fernández Martínez; Víctor José Sánchez Morcillo. "Conferencias y comunicaciones de Tecniacustica 2010 -41º Congreso Español de Acustica, 6º Congreso Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación acústicamente sostenible". pp. 803 - 819. S.E.A., ISBN 978-84-87985-19-5

238 Title of the work: Más allá del foco geométrico en haces focalizados de ultrasonidos

Name of the conference: TECNIACUSTICA 2010. 41 ° Congreso Español de Acústica. 6º Congreso Ibérico de Acústica. EAA simposio europeo acústica ambiental y edificación acústicamente sostenible

City of event: León, España,

Date of event: 13/10/2010

Noe Jimenez Gonzalez; Francisco Camarena Femenia; YURI MAKOV; Víctor José Sánchez Morcillo; Silvia Adrián Martínez. "Conferencias y comunicaciones de Tecniacustica 2010 -41º Congreso Español de Acustica, 6º Congreso Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación acústicamente sostenible". pp. 709 - 718. ISBN 978-84-87985-19-5

239 Title of the work: Simulación acústica de tejidos vegetales en coordenadas esféricas mediante FDTD

Name of the conference: TECNIACUSTICA 2010. 41 ° Congreso Español de Acústica. 6º Congreso Ibérico de Acústica. EAA simposio europeo acústica ambiental y edificación acústicamente sostenible

City of event: León, España,

Date of event: 13/10/2010

Noe Jimenez Gonzalez; Rubén Picó Vila; Francisco Camarena Femenia; Francisco Javier Redondo Pastor; Bernardino Roig Sala; Silvia Adrián Martínez. "Conferencias y comunicaciones de Tecniacustica 2010 -41º Congreso Español de Acustica, 6º Congreso Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación acústicamente sostenible". pp. 792 - 802. S.E.A., ISBN 978-84-87985-19-5



- 240** **Title of the work:** Modulational instability of microbubbles surface modes
Name of the conference: 2010 IEEE Internacional Ultrasonics Symposium (IUS)
City of event: San Diego EEUU,
Date of event: 11/10/2010
Francisco Camarena Femenia; YURI MAKOV; Víctor José Sánchez Morcillo; Silvia Adrián Martínez; Noe Jimenez Gonzalez. "Proceedings of Ultrasonics Symposium (IUS)". pp. 311 - 314. IEEE, ISSN 1948-5719
DOI: 10.1109/ULTSYM.2010.5935786
- 241** **Title of the work:** Beyond the geometrical focus in focused acoustic beams
Name of the conference: ICA 2010. 20th International Congress on Acoustics
City of event: Sidney, Australia,
Date of event: 23/08/2010
Francisco Camarena Femenia; Noe Jimenez Gonzalez; YURI MAKOV; Víctor José Sánchez Morcillo; Adrián Fernández Martínez. "Proceedings of 20th International Congress on Acoustics, ICA 2010". pp. 1 - 5. Commission for Acoustics, ISBN 978-0-646-54052-8
- 242** **Title of the work:** FDTD techniques applied to acoustic propagation in vegetable tissue: the elastodynamic behavior of the orange fruit
Name of the conference: ICA 2010. 20th International Congress on Acoustics
City of event: Sidney, Australia,
Date of event: 23/08/2010
Noe Jimenez Gonzalez; Rubén Picó Vila; Francisco Javier Redondo Pastor; Francisco Camarena Femenia; Bernardino Roig Sala. "Proceedings of 20th International Congress on Acoustics, ICA 2010". pp. 1 - 6. Commission for Acoustics, ISBN 978-0-646-54052-8
- 243** **Title of the work:** Estudio experimental y numérico de la propagación de ultrasonidos en medios heterogéneos
Name of the conference: TECNIACÚSTICA 2009. 40º Congreso Nacional de Acústica
City of event: Cádiz, España,
Date of event: 23/09/2009
Noe Jimenez Gonzalez; Rubén Picó Vila; Francisco Javier Redondo Pastor; Francisco Camarena Femenia; Bernardino Roig Sala. "Conferencias y comunicaciones de Tecniacústica 2009 -40º Congreso Español de Acústica, Encuentro Ibérico de Acústica y Simposio Iberoamericano y Europeo sobre Acústica Ambiental y Edificación acústicamente sostenible.". pp. 108 - 108. Comité organizador, ISBN 978-84-87985-18-8
- 244** **Title of the work:** The Parpallo Cave: A singular archaeological acoustic site
Name of the conference: ACOUSTICS'08 - EURONOISE
City of event: Paris, Francia,
Date of event: 29/06/2008
Noe Jimenez Gonzalez; Rubén Picó Vila; Francisco Javier Redondo Pastor. "Journal of the Acoustical Society of America, 123 (5), pp 3608". pp. 3608 - 3608. EAAA, ISBN 978-2-9521105-4-9
DOI: <http://dx.doi.org/10.1121/1.2934790>



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

- 1 Title of the work:** Metamaterials for therapeutic ultrasound applications
Name of the event: Isaac Newton Institute for Mathematical Sciences- MWSW04: Multiple scattering in engineering and applied sciences
Corresponding author: Yes
Date of event: 22/05/2023
End date: 26/05/2023
Organising entity: University of Cambridge
Noé Jiménez. Available on-line at: <<https://www.newton.ac.uk/seminar/38824/>>.
- 2 Title of the work:** Holographic metasurfaces for the new generation of biomedical ultrasound applications
Name of the event: Meta-Mat Seminars: Season 3
Corresponding author: Yes
City of event: London, United Kingdom
Date of event: 13/12/2022
End date: 13/12/2022
Organising entity: Imperial College London **Type of entity:** University
Noé Jiménez.
DOI: 10.52843/meta-mat.h6yyqy

Science Outreach activities

- 1 Title of the work:** Ultrasons - de la Natura a la Medicina
Name of the event: CosmoCaixa
Type of event: Fairs and exhibitions
City of event: Banyoles, Spain
Date of event: 20/09/2024
Organising entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Noé Jiménez.
- 2 Title of the work:** Ultrasons - de la Natura a la Medicina
Name of the event: CosmoCaixa
Type of event: Fairs and exhibitions
City of event: Barcelona, Spain
Date of event: 15/01/2024
Organising entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Noé Jiménez.
- 3 Title of the work:** Ultrasons - de la Natura a la Medicina
Name of the event: CosmoCaixa
Type of event: Fairs and exhibitions
City of event: Granollers, Spain
Date of event: 01/09/2023
Organising entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Noé Jiménez.



- 4** **Title of the work:** Ultrasons - de la Natura a la Medicina
Name of the event: CosmoCaixa
Type of event: Fairs and exhibitions
City of event: Barcelona, Spain
Date of event: 27/12/2021
Organising entity: Obra Social Fundación la Caixa **Type of entity:** Foundation
Noé Jiménez.
- 5** **Title of the work:** Metamaterials for audible regime
Name of the event: Acoustics and beyond exhibition
Type of event: Fairs and exhibitions
Corresponding author: Yes
City of event: Coimbra, Portugal
Date of event: 21/02/2020
Organising entity: Science Museum of the University of Coimbra **Type of entity:** University
N. Jiménez.
- 6** **Title of the work:** L'acoustique au Mans
Name of the event: Nuit Européenne des chercheurs 2017
Type of event: Fairs and exhibitions
City of event: Le Mans, France
Date of event: 29/09/2017
Organising entity: Université du Mans **Type of entity:** University
Noé Jiménez.
- 7** **Title of the work:** Les metamateriaux acoustiques
Name of the event: Nuit Européenne des chercheurs 2016
Type of event: Fairs and exhibitions
City of event: Le Mans, France
Date of event: 30/09/2016
Organising entity: Université du Mans **Type of entity:** University
Noé Jiménez.
- 8** **Title of the work:** Toy models for nonlinear acoustics
Name of the event: Invited speech at INSA Centre Val de Loire
Type of event: Conferences given
Corresponding author: Yes
City of event: Blois, France
Date of event: 25/02/2015
Organising entity: Université de Tours **Type of entity:** University
Noé Jiménez.
- 9** **Title of the work:** Audio 3D y acústica virtual
Name of the event: Semana de la ciencia 2012
Type of event: Fairs and exhibitions
City of event: Gandía, Valencian Community, Spain
Date of event: 15/05/2012
Organising entity: Universidad Politécnica de Valencia **Type of entity:** University
Noé Jiménez González.



- 10 Title of the work:** Taller de Acústica Virtual
Name of the event: Semana de la ciencia 2011
Type of event: Fairs and exhibitions
City of event: Gandía, Valencian Community, Spain
Date of event: 01/05/2011
Organising entity: Universidad Politécnica de Valencia
Noé Jiménez González. **Type of entity:** University

R&D management and participation in scientific committees

Organization of R&D activities

- 1 Title of the activity:** XIII Congreso Iberoamericano de Acústica: FIA 2024
Type of activity: Scientific Committee **Geographical area:** Non EU International
City of event: Santiago de Chile, Chile
Convening entity: Federación Iberoamericana de Acústica
Type of participation: Organiser
Start-End date: 02/12/2024 - 04/12/2024
- 2 Title of the activity:** 2024 IEEE International Ultrasonics Symposium
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Taipei, Taiwan
Convening entity: Institute of Electrical and Electronics Engineers (IEEE) **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 22/09/2024 - 26/09/2024
- 3 Title of the activity:** ACÚSTICA2024 55 Congreso Español de Acústica -Tecniacústica 2024 / XIII Congreso Ibérico de Acústica
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Faro, Portugal
Convening entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 11/09/2024 - 13/09/2024
- 4 Title of the activity:** 14th International Conference on Metamaterials, Photonic Crystals and Plasmonics
Type of activity: Organising Committee and Session Chair **Geographical area:** Non EU International
City of event: Toyama, Japan
Convening entity: META Conferences
Type of participation: Organiser
Nº assistants: 1.500
Start-End date: 18/07/2024 - 21/07/2024
- 5 Title of the activity:** 54 Congreso Español de Acústica -Tecniacústica 2023 / XIII Congreso Ibérico de Acústica
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Cuenca, Spain



Convening entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 18/10/2023 - 20/10/2023

6 **Title of the activity:** 2023 IEEE International Ultrasonics Symposium
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Montreal, Canada
Convening entity: Institute of Electrical and Electronics Engineers (IEEE) **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 03/09/2023 - 07/09/2023

7 **Title of the activity:** 13th International Conference on Metamaterials, Photonic Crystals and Plasmonics
Type of activity: Organising Committee and Session Chair **Geographical area:** Non EU International
City of event: Paris, France
Convening entity: META Conferences
Type of participation: Organiser
N° assistants: 1.500
Start-End date: 18/07/2023 - 21/07/2023

8 **Title of the activity:** 2022 IEEE International Ultrasonics Symposium
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Venice, Italy
Convening entity: Institute of Electrical and Electronics Engineers (IEEE) **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 10/10/2022 - 13/10/2022

9 **Title of the activity:** 53 Congreso Español de Acústica -Tecniacústica 2022 / XII Congreso Ibérico de Acústica
Type of activity: Organising Committee **Geographical area:** Non EU International
City of event: Elche, Spain
Convening entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
Type of participation: Organiser
Start-End date: 02/10/2022 - 04/10/2022

10 **Title of the activity:** 12th International Conference on Metamaterials, Photonic Crystals and Plasmonics
Type of activity: Organising Committee and Session Chair **Geographical area:** Non EU International
City of event: Torremolinos, Spain
Convening entity: META Conferences
Type of participation: Organiser
N° assistants: 1.500
Start-End date: 19/07/2022 - 22/07/2022

11 **Title of the activity:** European Congress and Exposition on Noise Control Engineering (EuroNoise 2021)
Type of activity: Organizing Committee (Special Session) **Geographical area:** European Union
City of event: Madeira, Portugal
Convening entity: Sociedade Portuguesa de Acústica **Type of entity:** Associations and Groups



Type of participation: Organiser
Start-End date: 25/10/2021 - 27/10/2021

- 12** **Title of the activity:** 21th International Symposium on Nonlinear Acoustics (ISNA)
Type of activity: Conference **Geographical area:** Non EU International
City of event: Santa Fe, United States of America
Convening entity: Acoustical Society of America **Type of entity:** Associations and Groups
Type of participation: Session chairman
N° assistants: 500
Start-End date: 09/07/2018 - 13/07/2018 **Duration:** 4 days
- 13** **Title of the activity:** 48 Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible
Type of activity: Conference **Geographical area:** Non EU International
City of event: La Coruña, Spain
Convening entity: Sociedad Española de Acústica **Type of entity:** Foundation
Type of participation: Session chairman
N° assistants: 300
Start-End date: 04/10/2017 - 06/10/2017 **Duration:** 3 days
- 14** **Title of the activity:** Quodons in mica: nonlinear localized travelling excitations in crystals
Type of activity: Congreso **Geographical area:** Non EU International
City of event: Altea, Spain
Convening entity: Universidad Politécnica de Valencia **Type of entity:** University
Type of participation: Organiser
N° assistants: 30
Start-End date: 18/09/2013 - 21/09/2013 **Duration:** 3 days
- 15** **Title of the activity:** Tecniacustica 2011 - 42º Congreso Español de Acustica, Encuentro Ibérico de Acústica y EAA Simposio Europeo sobre Acustica Ambiental y Edificación Acústicamente Sostenible
Type of activity: Congreso **Geographical area:** European Union
City of event: Cáceres, Spain
Convening entity: Sociedad Española de Acústica **Type of entity:** Foundation
Type of participation: Session chairman
N° assistants: 300
Start-End date: 26/10/2011 - 29/10/2011 **Duration:** 3 days

R&D management

Name of the activity: Principal Investigator
Type of management: Management of R&D&I actions and projects
Performed tasks: Principal Investigator of 11 funded projects
Entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Start date: 01/01/2018 **Duration:** 6 years



Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Guest editor
Performed tasks: Guest Editor at Frontiers In Mechanical Engineering (ISSN: 2095-0233)
Entity where activity was carried out: Frontiers Editorial
City of entity: Lausanne, Switzerland
Type of activity: Participation in editorial committees **Frequency of the activity:** 1
Start date: 01/05/2019
- 2** **Name of the activity:** Referee of research paper
Performed tasks: Referee at Frontiers in Materials (ISSN: 2296-8016)
Entity where activity was carried out: Frontiers Editorial
City of entity: Lausanne, Switzerland
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Start date: 01/02/2019
- 3** **Name of the activity:** Special Issue "Advanced Ultrasound Technology for Medical Application"
Performed tasks: Guest Editor at "Applied Sciences (Switzerland)" (ISSN 2076-3417) IF:1.86, Q2 (2017)
Entity where activity was carried out: MDPI Publishing **Type of entity:** Business
City of entity: Basel, Switzerland
Type of activity: Participation in editorial committees
Start date: 01/01/2019
- 4** **Name of the activity:** Special Issue "Recent Advances in Phononic Crystals and Metamaterials"
Performed tasks: Guest Editor at "Applied Sciences (Switzerland)" (ISSN 2076-3417) IF:1.86, Q2 (2017)
Entity where activity was carried out: MDPI Publishing **Type of entity:** Business
City of entity: Basel, Switzerland
Type of activity: Participation in editorial committees
Start date: 01/10/2018
- 5** **Performed tasks:** Referee of Applied Sciences (Switzerland) (ISSN 2076-3417)
Entity where activity was carried out: MDPI Publishing
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 2
Start date: 05/04/2018
- 6** **Performed tasks:** Referee of Ultrasonics (ISSN: 0041-624X)
Entity where activity was carried out: Elsevier
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Start date: 2018
- 7** **Performed tasks:** Referee of the Journal de the Acoustical Society of America (ISSN: 0001-4966)
Entity where activity was carried out: American Institute of Physics Publishing
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1



Start date: 2018

- 8 Performed tasks:** Referee of Acta Acustica united with Acustica (ISSN: 1861-9959)
Entity where activity was carried out: European Acoustics Association (EAA)
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2017
- 9 Performed tasks:** Referee of Applied Physics Letters (ISSN: 1077-3118)
Entity where activity was carried out: American Physics Society
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2017
- 10 Performed tasks:** Referee of Journal of Applied Physics (ISSN: 0021-8979)
Entity where activity was carried out: American Institute of Physics Publishing
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2017
- 11 Performed tasks:** Referee of Journal of Marine Science and Engineering (ISSN 2077-1312)
Entity where activity was carried out: MDPI editorial
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2017
- 12 Performed tasks:** Referee of Materials (ISSN 1996-1944)
Entity where activity was carried out: MDPI editorial
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2017
- 13 Performed tasks:** Referee of Results in Physics (ISSN: 2211-3797)
Entity where activity was carried out: Elsevier
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2017
- 14 Performed tasks:** Referee of Scientific Reports (ISSN: 2045-2322)
Entity where activity was carried out: Nature Publishing Group
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2017
- 15 Performed tasks:** Referee of IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (ISSN: 1525-8955)
Entity where activity was carried out: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2016



- 16** **Performed tasks:** Referee of Physics Letters A (ISSN: 0375-9601)
Entity where activity was carried out: Elsevier
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Start date: 2016
- 17** **Performed tasks:** Referee of Advances in Applied Acoustics (AIAAS) (ISSN: 2325-7032)
Entity where activity was carried out: Science and Engineering Publishing
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Start date: 2014

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Université du Maine **Type of entity:** University
Faculty, institute or centre: Laboratoire d'Acoustique de la Université du Mans
City of entity: Le Mans, France
Start-End date: 08/01/2019 - 13/04/2019 **Duration:** 3 months
Goals of the stay: Post-doctoral
Provable tasks: Structured acoustic media for biomedical applications
- 2** **Entity:** Université du Maine **Type of entity:** University
Faculty, institute or centre: Laboratoire d'Acoustique de la Université du Mans
City of entity: Le Mans, France
Start-End date: 01/12/2017 - 31/08/2017 **Duration:** 9 months
Goals of the stay: Post-doctoral
Provable tasks: Vortex metamaterials for biomedical applications
- 3** **Entity:** Centre National de la Recherche Scientifique (CNRS) **Type of entity:** State agency
Faculty, institute or centre: Laboratoire d'Acoustique de la Université du Maine (UMR6613 CNRS)
City of entity: Le Mans, France
Start-End date: 01/09/2015 - 31/08/2017 **Duration:** 24 months
Goals of the stay: Post-doctoral
Provable tasks: Acoustic Metamaterials in the Audible Range
- 4** **Entity:** University of Salford **Type of entity:** University
Faculty, institute or centre: Acoustic research group
City of entity: Manchester, Greater Manchester, United Kingdom
Start-End date: 01/10/2016 - 02/12/2016 **Duration:** 2 months
Goals of the stay: Post-doctoral
Provable tasks: Development of deep-subwavelength sound difusers
- 5** **Entity:** Université du Maine **Type of entity:** University
Faculty, institute or centre: Laboratoire d'Acoustique de l'Université du Maine
City of entity: Le Mans, France
Start-End date: 16/06/2014 - 18/06/2014 **Duration:** 3 days



Goals of the stay: Doctorate

Provable tasks: Nonlinear wave propagation in period media

- 6** **Entity:** Columbia University **Type of entity:** University
Faculty, institute or centre: Ultrasound and Elasticity Imaging Laboratory
City of entity: New York City, United States of America
Start-End date: 21/03/2012 - 22/06/2012 **Duration:** 3 months
Goals of the stay: Doctorate
Provable tasks: Part-time staff associate / Research collaborator

Obtained grants and scholarships

- 1** **Name of the grant:** Juan de La Cierva - Incorporación (IJC2018-037897-I)
Aims: Post-doctoral
Awarding entity: Spanish Ministry of Economy, Industry and Competitiveness **Type of entity:** State agency
Amount of the grant: 93.000 €
Conferral date: 02/09/2019 **Duration:** 3 years
End date: 31/12/2022
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas (CSIC)
Faculty, institute or centre: Instituto de Instrumentación para Imagen Molecular
- 2** **Name of the grant:** Subvenciones para la contratación de personal investigador en fase postdoctoral (APOSTD/2017/042)
City awarding entity: Valencia,
Aims: Post-doctoral
Awarding entity: Generalitat Valenciana **Type of entity:** State agency
Amount of the grant: 93.469 €
Conferral date: 16/09/2017 **Duration:** 2 years
End date: 16/09/2019
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas
Faculty, institute or centre: Instituto de Instrumentación para Imagen Molecular
- 3** **Name of the grant:** Juan de La Cierva - Formación (FJCI-2016-29430)
Aims: Post-doctoral
Awarding entity: Spanish Ministry of Economy, Industry and Competitiveness **Type of entity:** State agency
Amount of the grant: 50.000 €
Conferral date: 19/07/2017 **Duration:** 2 years
End date: 19/07/2018
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas (CSIC)
Faculty, institute or centre: Instituto de Instrumentación para Imagen Molecular
- 4** **Name of the grant:** STSM grant - COST Action DENORMS CA15125
Aims: Post-doctoral
Awarding entity: COST (European Cooperation in Science and Technology) **Type of entity:** Public Research Body
Amount of the grant: 5.000 €
Conferral date: 15/10/2016 **Duration:** 1 month - 45 days
End date: 01/12/2016



Entity where activity was carried out: University of Salford

5 Name of the grant: DENORMS Action Training on Sound waves in metamaterials and porous media

City awarding entity: Prague, Czech Republic

Aims: Post-doctoral

Awarding entity: COST (European Cooperation in Science and Technology)

Amount of the grant: 500 €

Conferral date: 26/09/2016

Duration: 4 days

End date: 30/09/2016

Entity where activity was carried out: Czech Technical University

6 Name of the grant: Formación de Personal Investigador (FPI-002-322)

Aims: Pre-doctoral

Awarding entity: Universidad Politécnica de Valencia

Type of entity: University

Amount of the grant: 20.000 €

Conferral date: 01/11/2011

Duration: 4 years

End date: 01/11/2015

7 Name of the grant: Travel Grant for Young European acoustician: Tecniacustica 13

Aims: Congreso

Awarding entity: Sociedad Española de Acústica

Type of entity: Associations and Groups

Amount of the grant: 500 €

Conferral date: 20/10/2013

Duration: 4 days

End date: 25/10/2013

8 Name of the grant: Acciones Especiales de I+D+i (PAID-08-11-002-232)

City awarding entity: New York City, NY, United States of America

Aims: Pre-doctoral

Awarding entity: Universidad Politécnica de Valencia

Type of entity: University

Amount of the grant: 10.000 €

Conferral date: 10/11/2011

Duration: 3 months

End date: 10/06/2012

9 Name of the grant: Beca de Excelencia (002-1169)

Aims: Pre-doctoral

Awarding entity: Universidad Politécnica de Valencia

Type of entity: University

Amount of the grant: 12.500 €

Conferral date: 01/01/2011

Duration: 1 year

End date: 24/12/2011

10 Name of the grant: Beca de Especialización (2010-0062)

Aims: Pre-doctoral

Awarding entity: Universidad Politécnica de Valencia

Type of entity: University

Amount of the grant: 8.500 €

Conferral date: 01/06/2010

Duration: 8 months

End date: 30/12/2010



- 11 Name of the grant:** Beca de Colaboración (2010-0032)
Aims: Pre-doctoral
Awarding entity: Universidad Politécnica de Valencia
Type of entity: University
Amount of the grant: 3.000 €
Conferral date: 01/02/2010
Duration: 4 months
End date: 31/05/2010
- 12 Name of the grant:** Beca de Colaboración (2008-1183)
Aims: Pre-doctoral
Awarding entity: Universidad Politécnica de Valencia
Type of entity: University
Amount of the grant: 7.500 €
Conferral date: 01/05/2009
Duration: 10 months
End date: 01/03/2010
- 13 Name of the grant:** Travel Grant for Young European acoustician: Tecniacustica 09
Aims: Congreso
Awarding entity: Sociedad Española de Acústica
Type of entity: Associations and Groups
Amount of the grant: 500 €
Conferral date: 20/09/2009
Duration: 3 days
End date: 25/09/2009
- 14 Name of the grant:** Ramón y Cajal (RYC2021-034920-I)
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia e Innovación
Type of entity: Estatal
Amount of the grant: 380.000 €
Conferral date: 07/07/2022
Duration: 5 years
Entity where activity was carried out: Universidad Politécnica de Valencia

Scientific societies and professional associations

- 1 Name of the society:** International Society for Therapeutic Ultrasound
Affiliation entity: International Society for Therapeutic Ultrasound
Type of entity: Associations and Groups
City affiliation entity: Seattle, United States of America
Start date: 04/07/2022
- 2 Name of the society:** IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
Affiliation entity: IEEE (Institute of Electrical and Electronics Engineers) Society
City affiliation entity: New York, United States of America
Start date: 12/03/2021
- 3 Name of the society:** Sociedad Española de Acústica
Affiliation entity: Sociedad Española de Acústica
Type of entity: Associations and Groups
City affiliation entity: Madrid, Spain
Start date: 26/02/2021



- 4** **Name of the society:** European Focused Ultrasound Charitable Society
Affiliation entity: European Focused Ultrasound Charitable Society **Type of entity:** Associations and Groups
City affiliation entity: Niedernhausen, Germany
Professional category: Member
Start date: 12/06/2019
- 5** **Name of the society:** Acoustical Society of America
Affiliation entity: Acoustical Society of America **Type of entity:** Associations and Groups
Professional category: Associate Member
Start date: 16/01/2017
- 6** **Name of the society:** COST action DENORMS (Designs for Noise Reducing Materials and Structures), CA5125
Affiliation entity: European Cooperation in Science and Technology **Type of entity:** Public Research Body
Professional category: Partner
Start date: 09/03/2016

Prizes, mentions and distinctions

- 1** **Description:** Luis de Camoens award (as PhD supervisor of Irene Pi-Martín)
Awarding entity: Universidad Carlos III de Madrid, Banco de Santander y Fundación Ramón Areces **Type of entity:** University Centres and Structures and Associated Bodies
City awarding entity: Madeira, Portugal
Conferral date: 27/10/2021
- 2** **Description:** Andrés Lara Award 2020. First prize, (as PhD advisor of Sergio Jiménez-Gambín and Diana Andrés)
Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
City awarding entity: Faro, Portugal
Conferral date: 26/10/2020
- 3** **Description:** Early career award. Young doctors category
Awarding entity: Real Sociedad Española de Física **Type of entity:** Associations and Groups
City awarding entity: Zaragoza, Spain
Conferral date: 20/06/2019
Recognition linked: The award was attributed for the work "Focused ultrasound beyond phased-arrays: acoustic holographic lenses enable transcranial focusing of arbitrary fields at the central nervous system"
- 4** **Description:** Luis de Camoens award (as PhD supervisor of Sergio Jiménez-Gambín)
Awarding entity: Universidad Carlos III de Madrid, Banco de Santander y Fundación Ramón Areces **Type of entity:** University Centres and Structures and Associated Bodies
City awarding entity: Cádiz, Spain
Conferral date: 24/10/2018
- 5** **Description:** 1st Place, Best Poster Award at Symposium of Acoustic and Poroelastic Materials (SAPEM 2017)
Awarding entity: Société Française d'Acoustique **Type of entity:** Associations and Groups
City awarding entity: Le Mans, France
Conferral date: 08/12/2017



Recognition linked: The award was attributed for the scientific quality, structure and organisation of the presentation entitled "On the conditions for perfect absorption of sound by rigidly backed layers of porous materials"

- 6** **Description:** Extraordinary PhD thesis award (Premio extraordinario de doctorado)
Awarding entity: Universidad Politécnica de Valencia **Type of entity:** University
City awarding entity: Valencia, Spain
Conferral date: 23/05/2017
Recognition linked: The extraordinary PhD thesis price is given to the best thesis in 2017, concerning the number of papers and the impact of the research on "Nonlinear acoustic waves in complex media"
- 7** **Description:** 1st Place, Phononics 2015 EPS Best Student Poster Presentation Award, at Third International Conference on Phononic Crystals/Metamaterials, Phonon Transport and Phonon Coupling (Phononics 2015)
Awarding entity: European Physical Society **Type of entity:** Associations and Groups
City awarding entity: Paris, France
Conferral date: 31/05/2015
Recognition linked: This recognition was attributed to the work entitled "Efficient Second Harmonic Generation of Narrow Beams in 2D Sonic Crystals"
- 8** **Description:** National Prize of Acoustics: Andrés Lara award 2011 for young researchers
Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
City awarding entity: Madrid, Community of Madrid, Spain
Conferral date: 10/10/2011
Recognition linked: This recognition was given by the Spanish Society of Acoustics to the best research work in 2011
- 9** **Description:** Excellence grant for the best graduate record
Awarding entity: Universitat Politècnica de València **Type of entity:** University
Conferral date: 01/01/2011
- 10** **Description:** Andrés Lara Award 2010 for young researchers. (Co-author with Silvia Adrian)
Awarding entity: Sociedad Española de Acústica **Type of entity:** Associations and Groups
City awarding entity: León, Spain
Conferral date: 13/10/2010

Obtained accreditations/recognitions

- 1** **Description:** 2 Quinquenios de Investigación reconocidos
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State Agency
N° of recognized periods: 2
Date of reception: 24/10/2024 **Date of recognition:** 24/10/2024
- 2** **Description:** Acreditación Cuerpo Profesor Titular de Universidad
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** State Agency
Date of recognition: 21/07/2023



3 **Description:** Acreditación i3 - Investigador distinguido (Programa de Incentivación de la Incorporación e Intensificación de la Actividad Investigadora)

Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Agencia Estatal de la Calidad y Acreditación

Date of recognition: 07/11/2022

4 **Description:** 2 Sexenios (Tramos) de Investigación reconocidos

Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Agencia Estatal de la Calidad y Acreditación

Nº of recognized periods: 2

Date of reception: 25/05/2022

Date of recognition: 24/05/2022