

c v n CURRÍCULUM VITAE NORMALIZADO



Marcin Balcerzyk

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Date of document: 01/07/2021

v 1.4.3

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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.

I received an M.S. and PhD in physics, yet my scientific interest evolved toward neuroscience and molecular imaging.

My scientific work started in the late 1980s in Poland (N Copernicus University) with physics of II-VI semiconductors where I worked on **blue electroluminescence** of ZnSe diodes. With the following years, blue LED and lasers were achieved in GaN.

Then I started to study scintillating compounds for Positron Emission Tomography (PET) detectors, where my semiconductors' experience was very important. In this application, there is a need for a high amount of electric carriers generated and consequently the amount of light (photons) per unit energy of the incoming radiation. In short time scales of picoseconds, the scintillating dielectric behaves like a semiconductor where the electron-hole pairs generated by radiation are moving and are trapped by the luminescent centres. Additionally, due to geometrical factors, the scintillator for PET has to have high density and high Z element present to stop gamma radiation effectively. Moreover, the scintillation has to be proportional resulting energy resolution of the scintillator). The projects that I participated in and directed resulted in the discovery of LuAP:Ce (lutetium aluminium perovskite) as an extremely **high density, proportional and relatively high light output scintillator**. I have proposed several other scintillators for high-resolution detectors. It was a subject of my PhD thesis and subsequent Polish government-funded project. Part of my PhD thesis was done at Boston University, USA thanks to Kosciuszko Foundation fellowship. The work was done in Soltan Institute for Nuclear Studies in Poland.

At my postdoctoral stay in world-renowned Weizmann Institute of Science in Israel, I have prepared a **hybrid of gas detector working at atmospheric pressure with bialkali photocathode sensitive to visible light** of about 80 cm². While staying in this institute I turned my interest in biology.

I started to work in neuroscience in a renowned laboratory of L Kaczmarek in Nencki Institute in Warsaw, Poland. There I concentrated in molecular mechanisms of memory and learning. Working in the projects directed by Prof. Kaczmarek, I established the **role of matrix metalloproteinase – 9 in learning**. This protease cleaves the structure of synaptic cleft leading to its remodelling and potentiation of inter-neuronal signals. The studies were done in ex-vivo brain slices of mice and rats using electrophysiology methods. Using this method, I have supported several behavioural studies in mice models of **Alzheimer's' disease**.



Molecular imaging is my principal and current scientific interest. It started with evaluation and simulation of the performance of PET camera for small animals and mammography in Universidad Complutense de Madrid and then in CNA in Universidad de Sevilla both in Spain. I proposed the use of CT equipment in monitorization of cryopreservation of organs and tissues for dimethyl sulfoxide cryoprotecting agent, which resulted in **patent** ES2529265. I proposed also the use of zinc isotopes for **PET in early detection** of soluble oligomers of amyloid beta which initiate **Alzheimer's disease**. I developed with a medical doctor a -patent pending WO2019025656 "Method to predict or forecast the risk of death or Vasospasm in a patient with subarachnoid haemorrhage" accessible at <https://sahcna.us.es> for evaluation.



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.

Years in investigation 32 (since 1987) in Poland, the USA, Israel, Spain
2 Ph.D. students co-advised (albeit none formally endorsed), one doing a thesis, endorsed.
Publications 93 in which refereed ones 55, Hirsch h index 28 WoK, 28 Scopus, citations 2348 WoK, 2515 Scopus, 13 articles in the first decile, 48 articles in the first quartile, 55 in first tercile. 4 publications with more than 100 citations, first wit the maximum of 305 citations. (as of 2019-10-16). In the years 2014-8 I had 107.2 citations per year on average.

**Marcin Balcerzyk**

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 Name: **Marcin**
 ORCID: **0000-0001-6030-7416**
 ScopusID: **7003954124**
 ResearcherID: **H-4071-2011**
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Current professional situation

Employing entity: Universidad de Sevilla **Type of entity:** University

Department: Fisiología Medica y Biofisica, Facultad de Medicina

Professional category: Profesor CDI

Start date: 18/01/2010

Type of contract: Permanent employment contract

Dedication regime: Full time

Primary (UNESCO code): 240000 - Life Science

Secondary (UNESCO code): 249000 - Neurosciences; 320910 - Radiopharmaceuticals

Tertiary (UNESCO code): 220806 - Particle detectora; 221113 - Interaction of radiation with solids; 221124 - Optical properties

Performed tasks: a.. Performing of own research and work as a service centre.Fund rising. b. Subject of research: Molecular imaging of tumors in mice and rats, tumor progression characterization and treatment monitoring. Preparation and giving of one day course with practices "Small Animal Imaging" for PMOD Zurich, Switzerland. Publication review. c. Technologies used: Positron Emission Tomography (microPET – Philips Mosaic for rats, mice and monkeys). X-ray Computed Tomography for mice and rats (Bioscan NanoSPECT/CT). PMOD Biomedical Image Quantification software for image analysis, image coregistration among different modalities, kinetic and pixelwise modelling of tracer uptake.

Identify key words: Modelization; Fuentes de radiacion y detectores [eng; Nuclear medicine; physical instrumentation in biomedicine; Optical Image Processing; Physical aplications to problems and biological systems; Drugs evaluation; Drug metabolism; Ageing (biology); Neurophysiology; Molecular mechanism of disease; Tissue preservation; Medical equipment; Gas sensors; Sensors for biologic applications; Dielectrics; Photodiodes pin and avalanche; Other photon receptor devices; Other technologies

Previous positions and activities

	Employing entity	Professional category	Start date
1	Univerisdad Complutense de Madrid	PDI, becario de Marie-Curie FP6	01/05/2007
2	Nencki Inst. for Exp. Biol. Warszawa PL	Research Associate	01/07/2003
3	Soltan Inst. for Nuclear Studies Swierk PL	Research Associate	01/09/1997
4	Weizmann Institute of Science Rehovot IL	Postdoctoral Fellow	29/11/2000
5	N.Copernicus University Torun Poland	Assistant	01/08/1987

	Employing entity	Professional category	Start date
6	Boston University Boston MA USA	Research Assistant	01/08/1992

- 1** **Employing entity:** Univerisdad Complutense de Madrid **Type of entity:** University
Department: Instituto Pluridisciplinar
Professional category: PDI, becario de Marie-Curie FP6
Start-End date: 01/05/2007 - 15/01/2010
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: a. Post details: Marie-Curie senior fellowship. For internal projects: supervision of 3 people (two pharmacologists and a technician). b. Subject of research: Molecular imaging of epilepsy and ischemia. Kinetic modelling of radiotracer consumption. Publication writing. Validation of small animal camera with its Monte Carlo simulation. Developments of new PET isotope and tracers for early detection of Alzheimer disease. Publication review. c. Technologies used: PET, CT and MRI (Magnetic Resonance) image analysis using PMOD Biomedical Image Quantification software – kinetic and pixelwise analysis. GATE program for simulation of data acquisition in PET cameras. Autoradiography. Advanced statistical analysis of biological data.
- 2** **Employing entity:** Nencki Inst. for Exp. Biol. Warszawa PL
Department: Laboratory of Neurobiology
City employing entity: Warsaw, Mazowieckie, Poland
Professional category: Research Associate **Educational Management (Yes/No):** Yes
Start-End date: 01/07/2003 - 30/11/2009
Type of contract: Temporary employment contract
Dedication regime: Full time
Field of management activity: Public Research Body
Applicability in teaching and/or research: a. Post details: Research Associate. For projects supervision of ad-hoc groups of 1-3 people. Fund rising and project budgeting. b. Subject of research: Neuroscience: Molecular mechanisms of learning and memory. The role of matrix metalloproteinase – 9 in these processes. Electrophysiological correlates of genetic modification in Amyloid Precursor Protein (protein involved in development of Alzheimer disease). c. Technologies used: Electrophysiology in acute brain slices of mice and rats in hippocampus and amygdala. Advanced data analysis of these experiments. Analysis of data of behavioral experiments and their design. Publication review.
- 3** **Employing entity:** Soltan Inst. for Nuclear Studies Swierk PL **Type of entity:** Public Research Body
Department: Department of Nuclear Electronics
City employing entity: Swierk-Otwock, Mazowieckie, Poland
Professional category: Research Associate **Educational Management (Yes/No):** Yes
Start-End date: 01/09/1997 - 30/06/2005
Type of contract: Permanent employment contract
Field of management activity: Public Research Body
Applicability in teaching and/or research: a. Post details: Research Associate. For projects supervision of ad-hoc groups of 2-5 people. Fund rising and project budgeting. Polish Government grant. b. Subject of research: Fundamental limits of energy resolution of scintillating crystals for PET detectors. Design of new crystals for scintillation detectors. Avalanche photodiodes as scintillation light detectors. Publication writing. c. Technologies used: Counters of nuclear radiation, NIM equipment, radiation detectors, avalanche photodiodes evaluation in detectors.

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Employing entity: Weizmann Institute of Science Rehovot IL

Department: Department of Particle Physics

City employing entity: Rehovot, Israel

Professional category: Postdoctoral Fellow

Start-End date: 29/11/2000 - 29/11/2002

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Applicability in teaching and/or research: a. Post details: Feinberg Graduate School post/doc fellowship. b. Subject of research: Gas detectors for visible light – design and development of a combination of photomultiplier and large area gas detector. c. Technologies used: Ultra high vacuum deposition of photocathodes on glass and vacuum-soldering of device. High vacuum deposition of metal films on glass. Device testing with NIM equipment.

5 **Employing entity:** N.Copernicus University Torun **Type of entity:** University
Poland

Department: Faculty of Physics

City employing entity: Torun, Kujawsko-Pomorskie, Poland

Professional category: Assistant

Educational Management (Yes/No): Yes

Start-End date: 01/08/1987 - 31/10/1996

Field of management activity: Public Research Body

Applicability in teaching and/or research: a. Post details: Research Assistant. b. Subject of research: Blue light emitting diodes and lasers. Physics of solid state semiconductors. c. Technologies used: High temperature II-VI semiconducting crystals growth.

6 **Employing entity:** Boston University Boston MA **Type of entity:** University
USA

Department: Departmen of Chemistry

City employing entity: Boston, United States of America

Professional category: Research Assistant

Educational Management (Yes/No): No

Start-End date: 01/08/1992 - 31/08/1994

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Dedication regime: Full time

Applicability in teaching and/or research: a. Post details: Kosciuszko Foundation fellowship, than Alem Associates and Boston University funding. b. Subject of research: Fundamental properties of scintillation detectors for Positron Emission Tomography and accelerator detectors. Search for high light output and high density scintillator. c. Technologies used: Luminescence and absorption spectroscopy of crystals at variable temperatures (35-600 K), scintillation energy spectra, photon counting. Advanced analysis of physical data.



Education

University education

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

- 1** **University degree:** magister
Name of qualification: Magister
Degree awarding entity: N. Copernicus University **Type of entity:** University
Date of qualification: 04/07/1987
- 2** **University degree:** Master of Science
Name of qualification: Magister (M. Sc.)
Degree awarding entity: Wydział Fizyki, Uniwersytet M. Kopernika, Torun, Polonia **Type of entity:** University
Date of qualification: 01/07/1987

Doctorates

- 1** **Doctorate programme:** Doktor habilitowany
Degree awarding entity: Faculty of Applied Physics and Mathematics, Gdansk University of Technology **Type of entity:** University
City degree awarding entity: Gdansk, Pomorskie, Poland
Date of degree: 15/12/2017
DEA awarding entity: http://prk.men.gov.pl/wp-content/uploads/2018/01/ulotka_dl_v02_en.pdf
Thesis title: Energy resolution of scintillators
Obtained qualification: Dr.Sc./doktor habilitowany
Standardised degree: Yes
- 2** **Doctorate programme:** Doktor nauk fizycznych
Degree awarding entity: Soltan Institute for Nuclear Studies, Warsaw, Poland **Type of entity:** Public Research Body
City degree awarding entity: Warsaw, Mazowieckie, Poland
Date of degree: 28/04/1998
Thesis title: New scintillating materials for gamma-ray spectroscopy and detection
Thesis director: Marek Moszynski
Standardised degree: Yes **Date of standardisation:** 21/05/2013



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

- 1** **Type of training:** Course
Training title: Tech Transfer Leadership in Life Sciences
City awarding entity: Barcelona, Catalonia, Spain
Awarding entity: Universitat Pompeu Fabra, Barcelona **Type of entity:** University School of Management
Aims of the entity: Barcelona School of Management
End date: 08/11/2019 **Duration in hours:** 66 hours
- 2** **Type of training:** Course
Training title: Introducción a Xamarin (curso online 6 meses)
City awarding entity: Pontevedra, Galicia, Spain
Awarding entity: Krasis Consulting S.L. **Type of entity:** Business
Training manager: José Manuel Alarcón
End date: 30/06/2017 **Duration in hours:** 80 hours
- 3** **Type of training:** Course
Training title: C# Fundamentals for Absolute Beginners (online)
City awarding entity: United States of America
Awarding entity: Microsoft Virtual Academy **Type of entity:** Business
Training manager: Alison Cunard
End date: 15/05/2017 **Duration in hours:** 8 hours
- 4** **Type of training:** Course
Training title: Zasady przekazywania informacji o projekcie i rekrutowania uczestników/Rules for communicating project information and recruiting participants
City awarding entity: Warszawa, Poland
Awarding entity: Ministry of Infrastructure Republic of Poland **Type of entity:** State agency
Aims of the entity: FEDER/European Regional Development Fund and European Social Fund
End date: 25/01/2017 **Duration in hours:** 4 hours
- 5** **Type of training:** Course
Training title: Zasady realizacji projektów partnerskich w PO WER/Principles of realization of partner projects in OP Knowledge Education Development
City awarding entity: Warszawa, Poland
Awarding entity: Ministry of Infrastructure Republic of Poland **Type of entity:** State agency
Aims of the entity: FEDER/European Regional Development Fund and European Social Fund
End date: 13/01/2017 **Duration in hours:** 4 hours
- 6** **Type of training:** Course
Training title: Zasady oceniania wniosków o dofinansowanie w ramach PO WER/Rules of evaluation of applications in the Operational Programme Knowledge Education and Growth
City awarding entity: Warszawa, Poland
Awarding entity: Ministry of Infrastructure Republic of Poland **Type of entity:** State agency
Aims of the entity: FEDER/European Regional Development Fund and European Social Fund

**End date:** 25/08/2016**Duration in hours:** 4 hours**7 Type of training:** Course**Training title:** Zarządzanie i realizacja projektów z udziałem środków EFS/Management and implementation of projects involving ESF funds**City awarding entity:** Warszawa, Poland**Awarding entity:** Ministry of Infrastructure Republic of Poland **Type of entity:** State agency**Aims of the entity:** FEDER/European Regional Development Fund and European Social Fund**End date:** 23/08/2016**Duration in hours:** 4 hours**8 Type of training:** Course**Training title:** Dostępność projektu dla osób z niepełnosprawnościami/Project availability for people with disabilities**City awarding entity:** Warszawa, Poland**Awarding entity:** Ministry of Infrastructure Republic of Poland **Type of entity:** State agency**Aims of the entity:** FEDER/European Regional Development Fund and European Social Fund**End date:** 18/08/2016**Duration in hours:** 4 hours**9 Type of training:** Course**Training title:** Ocena projektów - Wytyczne w zakresie trybów wyborów projektów na lata 2014-2020 Kwalifikowalność wydatków/Evaluation of projects Eligibility of costs**City awarding entity:** Poland**Awarding entity:** Ministry of Infrastructure Republic of Poland **Type of entity:** State agency**Aims of the entity:** FEDER/European Regional Development Fund and European Social Fund**End date:** 13/01/2016**Duration in hours:** 4 hours**10 Type of training:** Postdoctoral studies**Training title:** Postdoctoral Study**City awarding entity:** Rehovot, Israel**Awarding entity:** Weizmann Institute of Science **Type of entity:** Public Research Body**Aims of the entity:** Public research institution**Training manager:** Amos Breskin**End date:** 29/11/2002**Language skills**

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	A1	A1	A1	A1	A1
German	A1	A1	A1	A1	A1
Hebrew	A1	A1	A1	A1	A1
Russian	B1	B1	B1	B1	B1
Spanish	C1	C1	C1	C1	C1
English	C2	C2	C2	C2	C2
Polish	C2	C2	C2	C2	C2



Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Diseño y aplicación de técnicas de vitrificación en equilibrio para la criopreservación de corazón y encéfalo de Mus musculus
Type of project: Trabajo fin de Grado
Co-director of thesis: Ramon Risco Delgado; Marcin Balcerzyk
Entity: Universitat de Vic **Type of entity:** University
Student: Beatriz Albiol Tortosa
Obtained qualification: 9.1
Identify key words: Tissue preservation
Date of reading: 09/09/2019
- 2 Project title:** Evaluación del impacto clínico de las reconstrucciones PET-CT sobre la planificación radioterápica para la estandarización intercentros
Type of project: Trabajo fir de Master
Co-director of thesis: Antonio Leal Plaza; Marcin Wojciech Balcerzyk
Entity: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla,
Student: Raquel Agüera Rodríguez
Obtained qualification: 9.3
Identify key words: Physics - Medical physics
Date of reading: 17/07/2019
- 3 Project title:** ESTUDIO DE ADQUISICIÓN Y RECONSTRUCCIÓN DE IMÁGENES PET/CT CON GATING RESPIRATORIO
Type of project: End of course project
Entity: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalusia, Spain
Student: Marta Freire López-Fando
Identify key words: Nuclear medicine; physical instrumentation in biomedicine
Date of reading: 12/07/2017
- 4 Project title:** FRACTURAS EN SOLUCIONES VITRIFICANTES ANALIZADAS MEDIANTE TOMOGRAFÍA AXIAL COMPUTERIZADA, PARA OPTIMIZACIÓN DE PROTOCOLOS DE CRIOPRESERVACIÓN
Type of project: End of course project
Co-director of thesis: Marcin Balcerzyk
Entity: Departamento de Física Aplicada III, Escuela Técnica Superior de Ingeniería, Universidad de Sevilla
City of entity: Sevilla, Andalusia, Spain
Student: Pablo Acosta Merino
Obtained qualification: Ingeniero
Date of reading: 07/09/2015
- 5 Project title:** X-Ray Computed Tomography as a method of cryoprotectant concentration measurement and ice detection. Application to organ cryopreservation
Type of project: Doctoral thesis
Co-director of thesis: 1



Entity: Departamento de Ingeniería Química y Ambiental, Escuela Técnica Superior de Ingeniería, Universidad de Sevilla

City of entity: Sevilla, Andalusia, Spain

Student: Ariadna Corral Sousa

Obtained qualification: Ingeniero químico

Identify key words: Industrial chemistry

Date of reading: 24/02/2014

European doctorate: No

Type of entity: University

6 Project title: PERFUSION DE ORGANOS ASISTIDA MEDIANTE TOMOGRAFIA AXIAL COMPUTERIZADA PARA CRIOPRESERVACION, en curso

Type of project: Doctoral thesis

Co-director of thesis: 1

Entity: Departamento de Ingeniería Electronica, Escuela Técnica Superior de Ingeniería, Universidad de Sevilla

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Student: Pablo Barroso Rodriguez

Identify key words: physical instrumentation in biomedicine; Bioinstrumentation; Electronics and electrical engineering

Student tutorials

1 Name of the programme: Improved performance

Entity: Universidad de Sevilla

City of entity: Sevilla, Andalusia, Spain

Number of recognized hours/ECTS credits: 12

Number of tutored students: 1

Type of entity: University

Frequency of the activity: 1

2 Name of the programme: Improved performance

Entity: Universidad de Sevilla

City of entity: Sevilla, Andalusia, Spain

Number of recognized hours/ECTS credits: 600

Number of tutored students: 1

Type of entity: University

Frequency of the activity: 1

Teaching experience in courses and seminars for university teacher training

1 Type of event: Seminar

Name of the event: Small animal imaging with Albira scanner

City organizing entity: Warszawa, Mazowieckie, Poland

Organising entity: Faculty of Chemistry of Warsaw University Poland

Type of entity: University Department

Aims of the course: Impart the method of microPET studies and image processing

Target group profile: microPET/CT/SPECT scanner users

Hours of teaching: 35

Teaching language: Polish

Teaching date: 11/2013

Type of participation: Organizational - Scientific and organizing committee



- 2** **Type of event:** Workshop
Name of the event: CURSO DE RADIOFARMACIA: RADIOFÁRMACOS PET
City organizing entity: Sevilla, Andalusia, Spain
Organising entity: Sociedad Andaluza de Medicina Nuclear, Centro Nacional de Aceleradores e IBA Molecular
Target group profile: radiopharmacy
Hours of teaching: 1 **Teaching language:** Spanish
Teaching date: 03/11/2011
Type of participation: Participatory - oral communication

Other activities/achievements not included above

- 1** **Description of the activity:** Seminar for Micro- and Nanodosimetry lecture, 15 h
Identify key words: Dosimetric; General interest material and subjects noncovered in other parts
City of activity: Gdansk, Pomorskie, Poland
Organising entity: Gdansk University of Technology, **Type of entity:** University
Faculty of Applied Physics and Mathematics
End date: 25/10/2019
- 2** **Description of the activity:** Small Animal Imaging Course
Identify key words: Biomedicine; Dataprocessing
City of activity: Zurich, Switzerland
Organising entity: PMOD Technologies **Type of entity:** Business
End date: 18/09/2010

Healthcare experience

Courses and seminars given to healthcare professionals focused on improving medical care

Name of the course: Pronóstico del paciente con hemorragia subaracnoidea grave de la sala de emergencia CT-scan, modelo bivariado multi-parámetro y su sitio web de aplicación.
City organizing entity: Sevilla, Andalusia, Spain
Entity where project took place: SERVICIO ANDALUZ DE LA SALUD. CAN
City of entity: Sevilla, Andalusia, Spain
Pronóstico del paciente con hemorragia subaracnoidea grave de la sala de emergencia CT-scan, modelo bivariado multi-parámetro y su sitio web de aplicación..
Start date: 21/11/2019



Scientific and technological experience

Research and development groups/teams

Name of the group: CRYOBIOTECH: CRIOPRESERVACION DE TEJIDOS Y ORGANOS

Aims of the group: Long term cryopreservation of organs and tissues

Name of principal investigator: Ramon Risco Delgado **Number of members in the group:** 18

Standardised code: BIO289

Type of collaboration: Co-authorship of projects and their development

City of group: Sevilla, Andalusia, Spain

Affiliation entity: Universidad de Sevilla

Type of entity: University

Relevant results: Patents

Identify key words: Reproduction (physiology); Bioinstrumentation; Tissue preservation; Medical equipment

Start date: 21/10/2002

Scientific or technological activities

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

1 Name of the project: Multifunctional nanoparticles for luminescent, magnetic resonance and X-ray computed tomography bioimaging (MULTINABIO)

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

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Manuel Ocaña Jurado; Ana Becerro

N° of researchers: 6

Type of participation: Team member

Name of the programme: Programa Estatal de I+D+i Orientada a los Retos de la Sociedad

Code according to the funding entity: RTI2018-094426-B-I00

Start-End date: 01/01/2019 - 31/12/2021

Duration: 3 years

Total amount: 200.000 €

Dedication regime: Part time

2 Name of the project: Personalized radiotherapy approach based on the use of nanoparticles as theranostics agent for hypofractionated treatments under oxidative stress conditions

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

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Sevilla

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Antonio Leal Plaza

N° of researchers: 8



Type of participation: Team member

Name of the programme: Programa Estatal de I+D+i Orientada a los Retos de la Sociedad

Code according to the funding entity: RTI2018-098656-B-I00

Start-End date: 01/01/2019 - 31/12/2021

Duration: 3 years

Total amount: 130.000 €

Dedication regime: Part time

3 Name of the project: Haemorrhage outcome predictor

Type of project: Research and development, including transfer

Geographical area: European Union

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

Entity where project took place: Universidad de Sevilla

Type of entity: University

Name principal investigator (PI, Co-PI....): Marcin Balcerzyk

N° of researchers: 3

Funding entity or bodies:

Obra Social Fundación la Caixa

Type of entity: Foundation

City funding entity: Barcelona, Catalonia, Spain

Type of participation: Principal investigator

Name of the programme: CaixaImpulse Validate

Code according to the funding entity: C119-00068

Start-End date: 08/07/2019 - 31/03/2021

Duration: 21 months

Participating entity/entities: Servicio Andaluz de Salud

Total amount: 70.000 €

Dedication regime: Part time

4 Name of the project: Integración de la imagen PET/CT en una planificación radioterápica de precisión y adaptativa.

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

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad de Sevilla

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Antonio Leal Plaza; Marcin Balcerzyk; Laura Fernandez Maza

N° of researchers: 5

Type of participation: Team member

Code according to the funding entity: CTS 2482

Start-End date: 01/01/2014 - 31/07/2019

Duration: 4 years

Total amount: 130.244 €

Dedication regime: Part time

5 Name of the project: Microlab-en-chip para producción de radiofármacos para diagnóstico PET

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 de Sevilla

Type of entity: University

Name principal investigator (PI, Co-PI....): José Quero Reboul; Marcin Balcerzyk; Laura Fernandez Maza

N° of researchers: 13

**Funding entity or bodies:**

Junta de Andalucía

Type of entity: CONSEJERÍA DE ECONOMÍA,
INNOVACIÓN, CIENCIA Y EMPLEO**City funding entity:** Sevilla, Andalusia, Spain**Type of participation:** Team member**Code according to the funding entity:** TIC 2296**Start-End date:** 01/01/2014 - 31/07/2019**Duration:** 4 years**Total amount:** 180.369 €

6 Name of the project: Automatismo para la vitrificación en dispositivo cerrado para gametos y embriones de interés en Medicina Reproductiva: alta seguridad biológica y reproducibilidad de los resultados

Identify key words: Tissue preservation; Medical equipment; Human fertility**Type of project:** Demonstration, pilot projects,
conceptual formulations and design of processes and
services**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** CLINICAS
GINEMED S.L.P.**Type of entity:** Business**City of entity:** Spain**Name principal investigator (PI, Co-PI...):** Fernando Sanchez**Funding entity or bodies:**CENTRO DE ACUSTICA APLICADA Y
EVALUACION NO DESTRUCTIVA**Type of entity:** Associations and Groups**Type of participation:** Team member**Name of the programme:** Programa Estatal de Investigación, Desarrollo e Innovación Orientada a los
Retos de la Sociedad**Code according to the funding entity:** RTC-2016-4733-1**Start-End date:** 01/01/2016 - 31/12/2018**Duration:** 4 years**Total amount:** 598.894 €**Sub-project amount:** 598.894 €**Dedication regime:** Part time

7 Name of the project: Diagnostico precoz de Alzheimer mediante técnicas de imagen PET(dipalpet)

Type of project: Basic research (including
archaeological digs, etc)**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** Centro Nacional
de Aceleradores (CNA)**Type of entity:** University Centres and Structures
and Associated Bodies**Name principal investigator (PI, Co-PI...):** Joaquin Gomez Camacho; Marcin Balcerzyk; Laura Fernandez
Maza**Nº of researchers:** 6**Nª people/year:** 6**Funding entity or bodies:**

Consejo Superior de Investigaciones Científicas

Type of entity: State agency**City funding entity:** Madrid, Community of Madrid, Spain**Type of participation:** Team member**Name of the programme:** CSIC**Code according to the funding entity:** i-LINK0965**Start-End date:** 01/01/2015 - 31/12/2016**Duration:** 2 years**Total amount:** 15.000 €



- 8** **Name of the project:** Vitrificación de Ovocitos y Embriones Bovinos Producidos In Vitro en Bajas Concentraciones De Crioprotector
Type of project: Basic research (including archaeological digs, etc)
Degree of contribution: Researcher
Entity where project took place: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
Name principal investigator (PI, Co-PI....): Marcin Balcerzyk; Julio de la Fuente Martinez; Ramon Risco
Nº of researchers: 5 **Nª people/year:** 5
Type of participation: Team member
Code according to the funding entity: RTA2012-00026-00
Start-End date: 01/01/2013 - 31/12/2015 **Duration:** 3 years
Participating entity/entities: Centro Nacional de Aceleradores (CNA); INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA); Universidad de Sevilla
Total amount: 75.000 €
Dedication regime: Full time
Applicant's contribution: Patent application in 2013
- 9** **Name of the project:** Multiparametric imaging of vascularization. MULTIMAG
Type of project: Basic research (including archaeological digs, etc)
Degree of contribution: Researcher
Entity where project took place: Universidad Complutense de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Miguel Pozo; Marcin Balcerzyk
Nº of researchers: 5
Type of participation: Team member
Code according to the funding entity: S-BIO-0170-2006
Start-End date: 01/01/2006 - 31/12/2009 **Duration:** 4 years
Total amount: 600.000 €
- 10** **Name of the project:** NovelTune Novelty Tuning: behavioural, electrophysiological and molecular mechanisms of novelty detection.
Type of project: Basic research (including archaeological digs, etc)
Degree of contribution: Researcher
Entity where project took place: Nencki Institute of Experimental Biology **Type of entity:** Public Research Body
City of entity: Warszawa, Mazowieckie, Poland
Name principal investigator (PI, Co-PI....): Leszek Kaczmarek; Marcin Balcerzyk
Type of participation: Team member
Code according to the funding entity: 6 PR UE PL 037378
Start-End date: 01/01/2006 - 31/12/2009 **Duration:** 4 years
Total amount: 2.400.000 € **Sub-project amount:** 337.000 €
- 11** **Name of the project:** ZINC MOLECULAR IMAGING
Type of project: Research and development, including transfer **Geographical area:** European Union
Degree of contribution: Researcher
Entity where project took place: Universidad Complutense de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Marcin Balcerzyk; Miguel Pozo
Nº of researchers: 1 **Nª people/year:** 2



Type of participation: Principal investigator

Name of the programme: ACCIONES MARIE CURIE, COMISIÓN EUROPEA

Code according to the funding entity: MEIF-CT-2006-41482

Start-End date: 01/05/2007 - 30/04/2009

Duration: 2 years

Total amount: 195.173 €

Dedication regime: Full time

- 12 Name of the project:** Regulation of expression of metallo-proteinase MMP-9 (matrix metallo-proteinase-9) on mRNA level in rat hippocampus

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

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Nencki Institute of Experimental Biology, Polish Academy of Sciences

City of entity: Warszawa, Mazowieckie, Poland

Name principal investigator (PI, Co-PI....): Leszek Kaczmarek; Marcin Balcerzyk

Funding entity or bodies:

Ministry of Science and Informatics

City funding entity: Warszawa, Mazowieckie, Poland

Type of participation: Team member

Start-End date: 2005 - 2008

Total amount: 100.000 €

- 13 Name of the project:** Inducible gene expression system in transgenic rat model. The influence of matrix metalloprotease 9 (MMP-9) and its endogenic inhibitor TIMP-1

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Nencki Institute of Experimental Biology, Polish Academy of Sciences

City of entity: Warszawa, Mazowieckie, Poland

Name principal investigator (PI, Co-PI....): Leszek Kaczmarek; Marcin Balcerzyk

Funding entity or bodies:

Ministry of Science and Informatics

Type of entity: State agency

City funding entity: Warszawa, Mazowieckie, Poland

Type of participation: Team member

Code according to the funding entity: PBZ-MIN-005/PO4/2002

Start-End date: 2004 - 2007

Total amount: 2.400.000 €

- 14 Name of the project:** Molecular Imaging for Biologically Optimized Cancer Therapy – BIOCARE

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

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Soltan Institute for Nuclear Studies

Type of entity: Public Research Body

City of entity: Otwock, Mazowieckie, Poland

Name principal investigator (PI, Co-PI....): Marcin Balcerzyk; Marek Moszyński; Anders Brahme

Funding entity or bodies:

Union Europea

Type of entity: Framework Programme 6

Type of participation: Team member

Code according to the funding entity: 505785

Start-End date: 2004 - 2005



Total amount: 6.000.000 €

- 15** **Name of the project:** Study of energy resolution of scintillation detectors of nuclear radiation
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Soltan Institute for Nuclear Studies **Type of entity:** Public Research Body
City of entity: Otwock, Mazowieckie, Poland
Name principal investigator (PI, Co-PI...): Marcin Balcerzyk; Marek Moszy?ski
Funding entity or bodies:
Polish Committee for Scientific Research **Type of entity:** State agency
City funding entity: Warszawa, Mazowieckie, Poland
Type of participation: Team member
Code according to the funding entity: 3 T10C 010 26
Start-End date: 2004 - 2005
Total amount: 100.000 €
- 16** **Name of the project:** Comparative study of new scintillation materials in application to the border monitoring equipment
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services **Geographical area:** Non EU International
Degree of contribution: Researcher
Entity where project took place: Soltan Institute for Nuclear Studies
City of entity: Otwock, Mazowieckie, Poland
Name principal investigator (PI, Co-PI...): Marcin Balcerzyk; Marek Moszy?ski
Funding entity or bodies:
International Atomic Energy Agency **Type of entity:** Agency of United Nations
City funding entity: Vienna, Austria
Type of participation: Team member
Name of the programme: Nuclear Security Multi-donors Fund
Code according to the funding entity: 12596
Start-End date: 2003 - 2005
- 17** **Name of the project:** Avalanche photodiodes in liquid nitrogen temperature for scintillation detection of nuclear radiation in physics
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Soltan Institute for Nuclear Studies **Type of entity:** Public Research Body
City of entity: Otwock, Mazowieckie, Poland
Name principal investigator (PI, Co-PI...): Marcin Balcerzyk; Marek Moszy?ski
Funding entity or bodies:
Polish Committee for Scientific Research **Type of entity:** State agency
City funding entity: Warszawa, Mazowieckie, Poland
Type of participation: Team member
Code according to the funding entity: 8 T10C 002 20
Start-End date: 2001 - 2003



- 18** **Name of the project:** NEW HIGH LIGHT YIELD SCINTILLATORS FOR GAMMA RAY DETECTION, COMPUTER TOMOGRAPHY AND DIGITAL DENTAL RADIOGRAPHY
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Non EU International
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Soltan Institute for Nuclear Studies **Type of entity:** Public Research Body
City of entity: Otwock, Mazowieckie, Poland
Name principal investigator (PI, Co-PI....): MARCIN BALCERZYK
Nº of researchers: 5 **Nª people/year:** 5
Type of participation: Principal investigator
Name of the programme: OTROS PROGRAMAS DEL PLAN NACIONAL I+D, MINISTERIO DE CIENCIA Y TECNOLOGÍA
Code according to the funding entity: 8 T11E 025 15
Start-End date: 01/09/1998 - 30/11/2000 **Duration:** 2 years - 3 months
Total amount: 70.000 €
- 19** **Name of the project:** New scintillation techniques for nuclear radiation spectroscopy in physics and nuclear medicine.
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Soltan Institute for Nuclear Studies **Type of entity:** Public Research Body
City of entity: Otwock, Mazowieckie, Poland
Name principal investigator (PI, Co-PI....): Marcin Balcerzyk; Marek Moszy?ski
Funding entity or bodies: Polish Committee for Scientific Research **Type of entity:** State agency
City funding entity: Warszawa, Mazowieckie, Poland
Type of participation: Team member
Code according to the funding entity: 8 T10C 005 15
Start-End date: 1998 - 2000
- 20** **Name of the project:** Scintillation Materials For Medical Applications
Degree of contribution: Researcher
Entity where project took place: Department of Chemistry, Boston University **Type of entity:** University Department
City of entity: Boston, United States of America
Name principal investigator (PI, Co-PI....): Marcin Balcerzyk; Andrzej Wojtowicz; Alex Lempicki
Nº of researchers: 4
Funding entity or bodies: Department of Energy **Type of entity:** State agency
City funding entity: Washington, DC, United States of America
Type of participation: Team member
Code according to the funding entity: DE-FG02-90ER61033
Start-End date: 1991 - 1992

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

- 1** **Name of the project:** SIMULATION OF PET SYSTEMS USING GATE PROGRAM
Identify key words: Medical equipment
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI...): MARCIN BALCERZYK
Nº of researchers: 1
Funding entity or bodies:
Oncovision **Type of entity:** Business
City funding entity: Valencia, Valencian Community, Spain
Type of project: Cooperation
Code according to the funding entity: GATE
Start date: 01/07/2009 **Duration:** 106 days
Total amount: 2.800 €
Relevant results: FOR ONCOVISION, SPANISH PRODUCER OF POSITRON EMISSION TOMOGRAPH, I SIMULATED THE FUTURE TOMOGRAPH AND ITS DETECTION PARAMETERS
- 2** **Name of the project:** Organization of electrophysiology lab
Identify key words: Electrophysiology
Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services
Entity where project took place: Institute of Physiology and Biophysics, University of Aarhus, Building 1160, DK-8000 Aarhus C, Denmark
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Institute of Physiology and Biophysics, University of Aarhus, Building 1160, DK-8000 Aarhus C, Denmark
Type of entity: University Department
City of entity: Aarhus, Denmark
Name principal investigator (PI, Co-PI...): Marcin Balcerzyk; Kimmo Jensen
Nº of researchers: 3 **Nª people/year:** 1
Type of project: Coordination
Start date: 03/10/2006 **Duration:** 3 months
Total amount: 1.600 €
Relevant results: Setup of electrophysiology rig from preparation of equipment list through mounting and first experiments in rat brain slices
- 3** **Name of the project:** Exploration of CdWO4 (CWO) as a Possible Scintillator for Handheld Digital Isotope Identifiers
Type of project: Industrial research
Entity where project took place: Soltan Institute for Nuclear Studies
Degree of contribution: Researcher
Entity where project took place: Soltan Institute for Nuclear Studies
City of entity: Otwock, Mazowieckie, Poland
Name principal investigator (PI, Co-PI...): Marcin Balcerzyk; Marek Moszy?ki
Nº of researchers: 2
Funding entity or bodies:
Target Systemelectronic GmbH
Start date: 01/01/2004 **Duration:** 1 year - 6 months



Total amount: 30.000 €

4 Name of the project: THE ANALYSIS AND EVALUATION OF EXCLUSIVE MATERIALS AS SCINTILLATOR CRYSTALS

Type of project: Research and development, including transfer

Entity where project took place: Soltan Institute for Nuclear Studies

Degree of contribution: Scientific coordinator

Entity where project took place: Soltan Institute for Nuclear Studies

City of entity: Otwock, Mazowieckie, Poland

Name principal investigator (PI, Co-PI...): MARCIN BALCERZYK; Marek Moszy?ski

N° of researchers: 2

Funding entity or bodies:

Photonic Materials

City funding entity: Glasgow, South Western Scotland, United Kingdom

Code according to the funding entity: LUAP-LSO

Start date: 01/09/2003

Duration: 6 months

Total amount: 20.000 €

Relevant results: PROGRAMA DE DESAROLLO DE NUEVOS CENTELLEADORES LUAP Y LSO PARA DETECTORES TEP (PET) OPTIMISADOS. THE ANALYSIS AND EVALUATION OF EXCLUSIVE MATERIALS AS SCINTILLATOR CRYSTALS OR MATERIALS, INCLUDING BUT NOT LIMITED TO RARE-EARTH SILICATES (SUCH AS LSO AND L

Results

Industrial and intellectual property

1 Title registered industrial property: Method to predict or forecast the risk of death or Vasospasm in a patient with subarachnoid haemorrhage

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Juan Jose Egea Guerrero; Marcin Balcerzyk

Entity holder of rights: Fundacion de los Hospitales de Sevilla & Universidad de Sevilla

Reference/registry code: WO2019025656

N° of application: PCT/ES2018/07053

Country of inscription: Spain

Date of register: 31/07/2017

Spanish patent: Yes

PCT patent: Yes

Companies: Qmenta

Products: web app <https://sahcna.us.es>

Identify key words: Clinical medicine; Medical equipment

2 Title registered industrial property: Monitorización mediante tac de procesos de preservación en frío y criopreservación de material biológico

Description of qualities: <https://www.lens.org/lens/patent/159-062-778-288-544>

Type of industrial property: Patent of invention

Author's rights: Yes

Inventors/authors/obtainers: Ariadna Corral Sousa; Alberto Olmo Fernandez; Marcin Balcerzyk; David Regalado Lamprea; Joaquin Cobos Sabaté; Ramón Risco Delgado

Entity holder of rights: Universidad de Sevilla

Reference/registry code: ES2529265 B1

N° of application: ES2529265

Country of inscription: Spain, Andalusia



Date of register: 18/07/2013

Conferral date: 30/09/2015

N° of patent: ES2529265 B1

Spanish patent: Yes

PCT patent: Yes

Operating aut.region/region: Spain

Companies: CryoBiomed

Creating an innovative enterprise: Yes

Relevant results: Monitoring of cryopreservation of tissue or organ with CT to monitor cryoprotectant density in the vitrification or slow freezing.

Identify key words: Tissue preservation; Medical equipment

Scientific and technological activities

Scientific production

H index: 29

Date of application: 02/02/2021

Fuente de Índice H: WOS

Publications, scientific and technical documents

- 1** Knapska, Ewelina; Liudyno, Victoria; Kiryk, Anna; Mikosz, Marta; Gorkiewicz, Tomasz; Michaluk, Piotr; Gawlak, Maciej; Chaturvedi, Mayank; Mochol, Gabriela; Balcerzyk, Marcin; Wojcik, Daniel K.; Wilczynski, Grzegorz M.; Kaczmarek, Leszek. Reward Learning Requires Activity of Matrix Metalloproteinase-9 in the Central Amygdala. JOURNAL OF NEUROSCIENCE. 33 - 36, pp. 14591 - 14600. SOC NEUROSCIENCE, 04/09/2013. ISSN 0270-6474

DOI: 10.1523/JNEUROSCI.5239-12.2013

Type of production: Scientific paper

Position of signature: 10

Total no. authors: 13

Impact source: ISI

Impact index in year of publication: 6.747

Position of publication: 24

Source of citations: WOS

Relevant publication: Yes

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NEUROSCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 252

Citations: 31

- 2** Nagy, V; Bozdagi, O; Matynia, A; Balcerzyk, M; Okulski, P; Dzwonek, J; Costa, RM; Silva, AJ; Kaczmarek, L; Huntley, GW. Matrix metalloproteinase-9 is required for hippocampal late-phase long-term potentiation and memory. JOURNAL OF NEUROSCIENCE. 26 - 7, pp. 1923 - 1934. SOC NEUROSCIENCE, 15/02/2006. ISSN 0270-6474

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 10

Impact source: ISI

Impact index in year of publication: 7.453

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NEUROSCIENCES

Journal in the top 25%: Yes



Position of publication: 15

Source of citations: WOS

Relevant publication: Yes

No. of journals in the cat.: 200

Citations: 291

- 3** Elisabet Gomez Gonzalez; Nuria Nunez; Maria Garcia Martin; Yilian Fernandez Alfonso; Jesus de la Fuente; Marcin; Manuel. Dysprosium and Holmium Vanadate Nanoprobes as High-Performance Contrast Agents for High-Field Magnetic Resonance and Computed Tomography Imaging. Inorganic chemistry. 60, pp. 152 - 160. 2021. ISSN 1520-510X

DOI: 10.1021/acs.inorgchem.0c02601

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 5.165

Position of publication: 5

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - CHEMISTRY, INORGANIC & NUCLEAR

Journal in the top 25%: Yes

No. of journals in the cat.: 45

Citations: 1

- 4** 0000-0003-0925-5037; García López J.; Guerrero C.; López Gutiérrez J.M.; García-Tenorio R.; Santos-Arévalo F.J.; Chamizo E.; Ferrer F.J.; Jiménez-Ramos M.C.; Balcerzyk M.; Fernández B.. Research facilities and highlights at the Centro Nacional de Aceleradores (CNA). European Physical Journal Plus. 136, 2021.

DOI: 10.1140/epjp/s13360-021-01253-x

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.911

Position of publication: 20

Format: Journal

Category: Science Edition - PHYSICS, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 85

- 5** M. Balcerzyk; M. De-Miguel; C. Guerrero; B. Fernandez. Quantification of Boron Compound Concentration for BNCT Using Positron Emission Tomography. Cells. 9 - 9, pp. 2084. MDPI, 12/09/2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091052254&doi=10.3390%2fcells9092084&partnerID=40&md5=011e09cff8ee436381e62f52a568835a>>. ISSN 2073-4409

DOI: 10.3390/cells9092084

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 6.60

Position of publication: 53

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Category: Science Edition - CELL BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 195

- 6** Nuria O Nuñez; Fernando Cussó; Eugenio Cantelar; Beatriz Martin Gracia; Jesús M de la Fuente; Ariadna Corral; Marcin Balcerzyk; Manuel Ocaña. Bimodal Nd-Doped LuVO₄ Nanoprobes Functionalized with Polyacrylic Acid for X-Ray Computed Tomography and NIR Luminescent Imaging. Nanomaterials (Basel, Switzerland). 10 - 1, pp. 149 - 13. (Switzerland); MDPI, 14/01/2020. ISSN 2079-4991

DOI: 10.3390/nano10010149

Type of production: Scientific paper

Format: Journal



Position of signature: 7

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 5.076

Position of publication: 35

Source of citations: WOS

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: Yes

No. of journals in the cat.: 160

Citations: 2

- 7** D. González-Mancebo; A.I. Becerro; A. Corral; S. García-Embid; M. Balcerzyk; M.L. Garcia-Martin; J.M. de la Fuente; M. Ocaña. Design of a nanoprobe for high field magnetic resonance imaging, dual energy X-ray computed tomography and luminescent imaging. *Journal of Colloid and Interface Science*. 573, pp. 278 - 286. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082878788&doi=10.1016%2fj.jcis.2020.03.101&partnerID=40&md5=6e6cda7447d78a0e4923b28554fe4687>>. ISSN 00219797

DOI: 0.1016/j.jcis.2020.03.101

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 8.128

Position of publication: 32

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 162

Citations: 3

- 8** Ariadna Corral; Reyes López; Marcin Balcerzyk; Ángel Parrado-Gallego; Isabel Fernández-Gómez; Alberto Olmo; Ramón Risco. Use of X-Ray Computed Tomography for Ice Detection Applied to Organ Cryopreservation. *Biopreservation and Biobanking*. 17 - 2, pp. 119 - 128. 08/04/2019. Available on-line at: <<https://doi.org/10.1089/bio.2018.0092>>. ISSN 1947-5543

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 1.362

Position of publication: 22

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - MEDICAL LABORATORY TECHNOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 29

- 9** Rodríguez PB; Fernández AO; Corral A; Balcerzyk M; Risco R. Simulation of Hypothermic Perfusion of Rabbit Livers for Cryopreservation Applications. *Cryo letters*. 40, pp. 45 - 50. (United Kingdom): ROYAL VETERINARY COLLEGE, 01/01/2019. Available on-line at: <<https://www.ingentaconnect.com/content/cryo/cryo/2019/00000040/00000001/art00007>>. ISSN 0143-2044

PMID: 30955030

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0.694

Position of publication: 73

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 87

- 10** Jimenez-Ortega, Elisa; Ureba, Ana; Antonio Baeza, Jose; Rita Barbeiro, Ana; Balcerzyk, Marcin; Parrado-Gallego, Angel; Wals-Zurita, Amadeo; Javier Garcia-Gomez, Francisco; Leal, Antonio. Accurate, robust and harmonized implementation of morpho-functional imaging in treatment planning for personalized radiotherapy. PLOS ONE. 14, pp. e0210549. 2019. ISSN 1932-6203
DOI: 10.1371/journal.pone.0210549
PMID: 30625230
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 9
Impact source: ISI
Impact index in year of publication: 2.766
Position of publication: 24
Impact source: SCOPUS
Impact index in year of publication: 3.01
Position of publication: 16
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Multidisciplinary
Journal in the top 25%: No
No. of journals in the cat.: 69
Category: General Agricultural and Biological Sciences
Journal in the top 25%: Yes
No. of journals in the cat.: 177
- 11** González Mancebo D.; Becerro A.; Corral A.; Moros M.; Balcerzyk M.; Fuente J.; Ocaña M.. Enhancing Luminescence and X-ray Absorption Capacity of Eu³⁺:LaF₃ Nanoparticles by Bi³⁺ Codoping. ACS Omega. 4, pp. 765 - 774. 2019. ISSN 24701343
DOI: 10.1021/acsomega.8b03160
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 7
Impact source: SCOPUS
Impact index in year of publication: 2,54
Position of publication: 63
Impact source: ISI
Impact index in year of publication: 2.584
Position of publication: 76
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: general chemical engineering
Journal in the top 25%: Yes
No. of journals in the cat.: 270
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 172
- 12** Gonzalez-Mancebo, Daniel; Isabel Becerro, Ana; Corral, Ariadna; Balcerzyk, Marcin; Ocana, Manuel. Luminescence and X-ray Absorption Properties of Uniform Eu³⁺:(H₃O)Lu₃F₁₀ Nanoprobos. NANOMATERIALS. 9, pp. 1153. Multidisciplinary Digital Publishing Institute, 2019. Available on-line at: <<https://doi.org/10.3390/nano9081153>>. ISSN 2079-4991
DOI: 10.3390/nano9081153
PMID: 31408936
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 4.034
Position of publication: 71
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 293



- 13** Laguna, Mariano; Nunez, Nuria O.; Becerro, Ana, I; Lozano, Gabriel; Moros, Maria; de la Fuente, Jesus M.; Corral, Ariadna; Balcerzyk, Marcin; Ocana, Manuel. Synthesis, functionalization and properties of uniform europium-doped sodium lanthanum tungstate and molybdate (NaLa(XO₄)₂, X = Mo,W) probes for luminescent and X-ray computed tomography bioimaging. JOURNAL OF COLLOID AND INTERFACE SCIENCE. 554, pp. 520 - 530. Elsevier, 2019. Available on-line at: <<https://doi.org/10.1016/j.jcis.2019.07.031>>. ISSN 0021-9797
DOI: 10.1016/j.jcis.2019.07.031
PMID: 31330425
Type of production: Scientific paper
Position of signature: 8
Total no. authors: 9
Impact source: ISI
Impact index in year of publication: 6.361
Position of publication: 29
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 148
- 14** Rivera-Marrero S; Fernández-Maza L; León-Chaviano S; Sablón-Carrazana M; Bencomo-Martínez A; Perera-Pintado A; Prats-Capote A; Zoppolo F; Kreimerman I; Pardo T; Reyes L; Balcerzyk M; Dubed-Bandomo G; Mercerón-Martínez D; Espinosa-Rodríguez LA; Engler H; Savio E; Rodríguez-Tanty C. [¹⁸F]Amylovis as a Potential PET Probe for β -Amyloid Plaque: Synthesis, In Silico, In vitro and In vivo Evaluations. Current radiopharmaceuticals. 12, pp. 58 - 71. 2019. ISSN 1874-4710
DOI: 10.2174/1874471012666190102165053
PMID: 30605068
Type of production: Scientific paper
Position of signature: 12
Total no. authors: 18
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 15** Miguel Gallardo; Fernanda Paulini; Ariadna Corral; Marcin Balcerzyk; CM Luccini; j Ambroise; M M Dolmans; Ramon Risco; Christiani A Amorim. Evaluation of a new freezing protocol containing 20% DMSO concentration to cryopreserve human ovarian tissue. Reproductive BioMedicine Online. (Holland): Elsevier, 04/09/2018. ISSN 1472-6483
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 9
Impact source: ISI
Impact index in year of publication: 2.93
Position of publication: 13
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Obstetrics & Gynecology
Journal in the top 25%: Yes
No. of journals in the cat.: 83
Citations: 1
- 16** Ariadna Corral; Marcin Balcerzyk; Miguel Gllardo; Christiani A Amorim; Angel Parrado Gallego; Ramon Risco. An optimized controlled rate slow cooling protocol for bovine ovarian tissue cryopreservation by means of X-ray computed tomography. Theriogenology. Elsevier, 29/06/2018. ISSN 0093-691X
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 2.299
Position of publication: 11
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - VETERINARY SCIENCES
Journal in the top 25%: Yes
No. of journals in the cat.: 141
Citations: 2



- 17** Ariadna Corral; Macarena Clavero; Miguel Gallardo Molina; Marcin Balcerzyk; Christiani Amorim; Angel Parrado Gallego; Marie-Madeleine Dolmans; Fernanda Paulini; John Morris; Ramon Risco. Ovarian tissue cryopreservation by stepped vitrification and monitored by X-ray computed tomography. *Cryobiology*. Elsevier, 05/03/2018. ISSN 0011-2240
- Type of production:** Scientific paper
Position of signature: 4
- Total no. authors:** 10
Impact source: ISI
Impact index in year of publication: 2.141
Position of publication: 29
Source of citations: WOS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Category:** Biology
Journal in the top 25%: No
No. of journals in the cat.: 87
Citations: 3
- 18** Daniel Gonzalez Mancebo; Ana I Becerro; Teresa Rojas; Andres Olivencia; Ariadna Corral; Marcin Balcerzyk; Eugenio Cantelar; Fernando Cussó; Manuel Ocaña. Room Temperature Synthesis of Water-dispersible Ln³⁺:CeF₃ (Ln= Nd, Tb) Nanoparticles with Different Morphology as Bimodal Probes for Fluorescence and CT Imaging. *Journal of Colloid and Interface Science*. Elsevier, 02/03/2018.
- DOI:** 10.1016/j.jcis.2018.03.007
- Type of production:** Scientific paper
Position of signature: 6
- Total no. authors:** 9
Impact source: ISI
Impact index in year of publication: 6.361
Position of publication: 29
Source of citations: WOS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Category:** Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 148
Citations: 1
- 19** Laura Fernandez-Maza; Juan Jose Egea-Guerrero; Marcin Balcerzyk; Gemma Civantos-Jubera; Elena Gordillo-Escobar; Angel Vilches-Arenas; Isabel Fernandez-Gomez; Angel Parrado-Gallego; Francisco Murillo-Cabezas. Rapid and simplified synthesis of [18F]Fluoromisonidazole and its use in PET imaging in an experimental model of subarachnoid hemorrhage. *Applied Radiation and Isotopes*. 132, pp. 79 - 84. 01/02/2018. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S096980431730386X>>. ISSN 0969-8043
- DOI:** 10.1016/j.apradiso.2017.09.035
- Type of production:** Scientific paper
Corresponding author: No
- Impact source:** ISI
Impact index in year of publication: 1.343
Position of publication: 15
Source of citations: WOS
- Format:** Journal
Category: NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 34
Citations: 1
- 20** M. Balcerzyk; L. Fernandez-Maza; J.J. Mínguez; M. De-Miguel. Preclinical [18F]tetrafluoroborate-PET/CT imaging of pituitary gland hyperplasia. *Japanese Journal of Clinical Oncology*. 48 - 2, pp. 200 - 201. Oxford University Press, 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042915025&doi=10.1093%2Fjjco%2Fhyx189&partnerID=40&md5=070a90821b08f010a288b22b570ba3a9>>. ISSN 03682811
- Type of production:** Scientific paper
Position of signature: 1
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 2.183

Position of publication: 171

Impact source: SCOPUS

Impact index in year of publication: 2.37

Position of publication: 73

Category: Oncology

Journal in the top 25%: No

No. of journals in the cat.: 230

Category: Medicine - Radiology Nuclear Medicine and Imaging

Journal in the top 25%: No

No. of journals in the cat.: 270

- 21** Mariano Laguna; Nuria O Nuñez; Francisco J García; Ariadna Corral; Angel Parrado-Gallego; Marcin Balcerzyk; Ana I Nieto; Manuel Ocaña. Microemulsion mediated synthesis and properties of uniform Ln:CaWO₄ (Ln = Eu, Dy) nanophosphors with multicolor luminescence for optical and CT imaging. *European Journal of Inorganic Chemistry*, 44, pp. 5158 - 5168. 08/09/2017. Available on-line at: <<http://dx.doi.org/10.1002/ejic.201700650>>. ISSN 1099-0682

Type of production: Scientific paper

Position of signature: 6

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 2.507

Position of publication: 10

Category: Science Edition - chemistry inorganic and

Journal in the top 25%: No

No. of journals in the cat.: 33

- 22** M. Balcerzyk; R. Fernández-López; Á. Parrado-Gallego; V.M. Pachón-Garrudo; J. Chavero -Royan; J. Hevilla; E. Jiménez-Ortega; A. Leal. Application of EARL (ResEARCh 4 Life®) protocols for [18F]FDG-PET/CT clinical and research studies. A roadmap towards exact recovery coefficient. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 873, pp. 39 - 42. Elsevier, 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020626529&doi=10.1016%2fj.nima.2017.04.035&partnerID=40&md5=45cf305c7906ff16bbb53e6604f3348e>>. ISSN 0168-9002

Type of production: Scientific paper

Position of signature: 1

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1.336

Position of publication: 10

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 33

Source of citations: WOS

Citations: 1

- 23** Corral, Ariadna; Balcerzyk, Marcin; Parrado-Gallego, Angel; Fernandez-Gomez, Isabel; Lamprea, David R.; Olmo, Alberto; Risco, Ramon. Assessment of the cryoprotectant concentration inside a bulky organ for cryopreservation using X-ray computed tomography. *CRYOBIOLOGY*, 71 - 3, pp. 419 - 431. ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/12/2015. ISSN 0011-2240

DOI: 10.1016/j.cryobiol.2015.09.007

Type of production: Scientific paper

Position of signature: 2

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 1.92

Position of publication: 28

Category: Science Edition - BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 86



Impact source: ISI
Impact index in year of publication: 1.92
Position of publication: 52
Source of citations: WOS

Category: Science Edition - PHYSIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 83
Citations: 6

- 24** Juan Martin Rodriguez; Jose Muñoz Bravo; Alejandro Ibañez Costa; Laura Fernandez Maza; Marcin Balcerzyk; Rocio Leal Campanario; Raul Luque; Justo Castaño; Eva Venegas Moreno; Alfonso Soto Moreno; Alfonso Leal Cero; David Cano. Molecular Characterization of Growth Hormone-producing Tumors in the GC Rat Model of Acromegaly (accepted with minor changes 2015). Scientific Reports. 5, pp. 16298. Nature Publishing Group, 01/06/2015. ISSN 2045-2322

Type of production: Scientific paper
Position of signature: 5

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 56

Total no. authors: 12

Impact source: ISI

Impact index in year of publication: 5,578

Position of publication: 5

- 25** Gorkiewicz, Tomasz; Balcerzyk, Marcin; Kaczmarek, Leszek; Knapska, Ewelina. Matrix metalloproteinase 9 (MMP-9) is indispensable for long term potentiation in the central and basal but not in the lateral nucleus of the amygdala. FRONTIERS IN CELLULAR NEUROSCIENCE. 9, FRONTIERS RESEARCH FOUNDATION, 11/03/2015. ISSN 1662-5102

DOI: 10.1016/j.cryobiol.2015.09.007

Type of production: Scientific paper

Position of signature: 2

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NEUROSCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 256

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 4.609

Position of publication: 52

Source of citations: SCOPUS

Citations: 10

- 26** M. Balcerzyk; I. Fernandez-Gomez; L. Fernandez-Maza; A. Parrado-Gallego; J. Minguez-Molina; M. Illanes; M. de Miguel; J. Cobos-Sabate. {Characterization of Thyroid and Non-Thyroid Tumors with a Novel PET Tracer $[^{18}\text{F}]$ tetrafluoroborate in a Rat Model}. EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING. 39 - 2, pp. S555 - S555. 10/2012. ISSN 1619-7070

Type of production: Scientific paper

Format: Journal

- 27** Anna Kiryk; Gabriela Mochol; Robert K. Filipkowski; Marcin Wawrzyniak; Victoria Liudyno; Ewelina Knapska; Tomasz Gorkiewicz; Marcin Balcerzyk; Szymon Leski; Fred Van Leuven; Hans-Peter Lipp; Daniel K. Wojcik; Leszek Kaczmarek. Cognitive Abilities of Alzheimer's Disease Transgenic Mice are Modulated by Social Context and Circadian Rhythm. CURRENT ALZHEIMER RESEARCH. 8 - 8, pp. 883 - 892. BENTHAM SCIENCE PUBL LTD, 12/2011. ISSN 1567-2050

DOI: 10.2174/156720511798192745

Type of production: Scientific paper

Position of signature: 8

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - CLINICAL NEUROLOGY

Total no. authors: 13

Impact source: ISI



Impact index in year of publication: 3.953
Position of publication: 32

Source of citations: WOS

Journal in the top 25%: Yes
No. of journals in the cat.: 192

Citations: 10

- 28** Agata Klejman; Katarzyna Bieganska; Marcin Wawrzyniak; Dorota Owczarek; Marcin Balcerzyk; Michal Dabrowski; Pawel Lisowski; Leszek Kaczmarek. Neuronal overexpression of ICER in transgenic rat model; the impact on seizure susceptibility and glucose metabolism. TRANSGENIC RESEARCH. 20 - 5, pp. 1166 - 1166. 10/2011. ISSN 0962-8819

Type of production: Scientific paper

Format: Journal

- 29** Balcerzyk, Marcin; Kontaxakis, George; Delgado, Mercedes; Garcia-Garcia, Luis; Correcher, Carlos; Gonzalez, Antonio J.; Gonzalez, Aurora; Rubio, Jose L.; Benloch, Jose M.; Pozo, Miguel A.. Initial performance evaluation of a high resolution Albira small animal positron emission tomography scanner with monolithic crystals and depth-of-interaction encoding from a user's perspective. MEASUREMENT SCIENCE & TECHNOLOGY. 20 - 10, IOP PUBLISHING LTD, 01/10/2009. ISSN 0957-0233

DOI: 10.1088/0957-0233/20/10/104011

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Total no. authors: 10

Impact source: ISI

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Impact index in year of publication: 1.317

Position of publication: 19

Journal in the top 25%: No

No. of journals in the cat.: 58

Impact source: ISI

Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY

Impact index in year of publication: 1.317

Position of publication: 20

Journal in the top 25%: No

No. of journals in the cat.: 79

Source of citations: WOS

Citations: 20

- 30** Klamra, W.; Balcerzyk, M.; Czarnacki, W.; Kozlov, V.; Moszynski, M.; Syntfeld-Kazuch, A.; Szczesniak, T.. Light yield non-proportionality of undoped YAP scintillator. JOURNAL OF INSTRUMENTATION. 4, pp. P05006. IOP PUBLISHING LTD, 01/05/2009. ISSN 1748-0221

DOI: 10.1088/1748-0221/4/05/p05006

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Total no. authors: 5

Impact source: ISI

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Impact index in year of publication: 2.102

Position of publication: 7

Journal in the top 25%: Yes

No. of journals in the cat.: 58

Source of citations: WOS

Citations: 7

- 31** Moszynski, Marek; Klamra, Wlodzimierz; Wolski, Dariusz; Czarnacki, Wieslaw; Kapusta, Maciej; Balcerzyk, Marcin. Comparative study of PP0275C hybrid photodetector and XP2020Q photomultiplier in scintillation detection. JOURNAL OF INSTRUMENTATION. 1, IOP PUBLISHING LTD, 01/05/2006. ISSN 1748-0221

Type of production: Scientific paper

Format: Journal

Source of citations: WOS

Citations: 3

- 32** Syntfeld, A; Moszynski, M; Arlt, R; Balcerzyk, M; Kapusta, M; Majorov, M; Marcinkowski, R; Schotanus, P; Swoboda, M; Wolski, D. (6)Li(Eu) in neutron and gamma-ray spectrometry - A highly sensitive thermal neutron detector. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 52 - 6, pp. 3151 - 3156. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/12/2005. ISSN 0018-9499
- Type of production:** Scientific paper
Impact source: ISI
- Impact index in year of publication:** 1.259
Position of publication: 3
- Impact source:** ISI
- Impact index in year of publication:** 1.259
Position of publication: 54
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 32
- Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 208
- Citations:** 31
- 33** Moszynski, M; Balcerzyk, M; Kapusta, M; Syntfeld, A; Wolski, D; Pausch, G; Stein, J; Schotanus, P. CdWO₄ crystal in gamma-ray spectrometry. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 52 - 6, pp. 3124 - 3128. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/12/2005. ISSN 0018-9499, ISSN 1558-1578
- Type of production:** Scientific paper
Impact source: ISI
- Impact index in year of publication:** 1.259
Position of publication: 3
- Impact source:** ISI
- Impact index in year of publication:** 1.259
Position of publication: 54
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 32
- Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 208
- Citations:** 24
- 34** Moszynski, M; Balcerzyk, M; Czarnacki, W; Nassalski, A; Szczesniak, T; Kraus, H; Mikhailik, VB; Solskii, IM. Characterization of CaWO₄ scintillator at room and liquid nitrogen temperatures. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 553 - 3, pp. 578 - 591. ELSEVIER SCIENCE BV, 21/11/2005. ISSN 0168-9002
- Type of production:** Scientific paper
Impact source: ISI
- Impact index in year of publication:** 1.224
Position of publication: 14
- Impact source:** ISI
- Impact index in year of publication:** 1.224
Position of publication: 15
- Impact source:** ISI
- Impact index in year of publication:** 1.224
Position of publication: 27
- Impact source:** ISI
- Format:** Journal
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: No
No. of journals in the cat.: 52
- Category:** Science Edition - PHYSICS, PARTICLES & FIELDS
Journal in the top 25%: No
No. of journals in the cat.: 21
- Category:** Science Edition - SPECTROSCOPY
Journal in the top 25%: No
No. of journals in the cat.: 41



Impact index in year of publication: 1.224

Position of publication: 4

Source of citations: WOS

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 32

Citations: 56

- 35** Balcerzyk, M; Moszynski, M; Galazka, Z; Kapusta, M; Syntfeld, A; Lefaucheur, JL. Perspectives for high resolution and high light output LuAP : Ce crystals. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 52 - 5, pp. 1823 - 1829. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/10/2005. ISSN 0018-9499

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 1.259

Position of publication: 3

Impact source: ISI

Impact index in year of publication: 1.259

Position of publication: 54

Source of citations: WOS

Format: Journal

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 32

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No

No. of journals in the cat.: 208

Citations: 4

- 36** M Balcerzyk; P Okulski; L Kaczmarek. Matrix metalloprotease-9 is required for long term potentiation in mice. JOURNAL OF NEUROCHEMISTRY. 94 - 2, pp. 38 - 38. 08/2005. ISSN 0022-3042

Type of production: Scientific paper

Format: Journal

- 37** Mikhailik, VB; Kraus, H; Balcerzyk, M; Czarnacki, W; Moszynski, M; Mykhaylyk, MS; Wahl, D. Low-temperature spectroscopic and scintillation characterisation of Ti-doped Al₂O₃. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 546 - 3, pp. 523 - 534. ELSEVIER SCIENCE BV, 11/07/2005. ISSN 0168-9002

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 1.224

Position of publication: 14

Impact source: ISI

Impact index in year of publication: 1.224

Position of publication: 15

Impact source: ISI

Impact index in year of publication: 1.224

Position of publication: 27

Impact source: ISI

Impact index in year of publication: 1.224

Position of publication: 4

Source of citations: WOS

Format: Journal

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Journal in the top 25%: No

No. of journals in the cat.: 52

Category: Science Edition - PHYSICS, PARTICLES & FIELDS

Journal in the top 25%: No

No. of journals in the cat.: 21

Category: Science Edition - SPECTROSCOPY

Journal in the top 25%: No

No. of journals in the cat.: 41

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 32

Citations: 25

- 38** M Balcerzyk; M Moszynski; M Kapusta. Comparison of LaCl₃ : Ce and NaI(Tl) scintillators in gamma-ray spectrometry. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 537 - 1-2, pp. 50 - 56. (Holland): 01/2005. ISSN 0168-9002
DOI: 10.1016/j.nima.2004.07.233
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 3
Impact source: ISI **Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Impact index in year of publication: 1.224 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 32
Source of citations: WOS **Citations:** 42
- 39** M Moszynski; M Balcerzyk; W Czarnacki; M Kapusta; W Klamra; P Schotanus; A Syntfeld; M Szawlowski; V Kozlov. Energy resolution and non-proportionality of the light yield of pure CsI at liquid nitrogen temperatures. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 537 - 1-2, pp. 357 - 362. (Holland): 01/2005. ISSN 0168-9002
DOI: 10.1016/j.nima.2004.08.043
Type of production: Scientific paper **Format:** Journal
Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5 **Corresponding author:** No
Impact source: ISI **Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Impact index in year of publication: 1.224 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 32
Source of citations: WOS **Citations:** 42
- 40** M. Moszyński; M. Kapusta; D. Wolski; M. Balcerzyk; A. Syntfeld; C. Fontaine; P. Lavoute; P. Basclé; C. Moussant; S.O. Flyckt. Evaluation of new Photonis XP1472 nine-channel photomultiplier. IEEE Transactions on Nuclear Science. 52 - 4, pp. 1027 - 1032. 2005. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-27644516082&partnerID=40&md5=6cceb81f3ab7b23c188520f55e0ecdf4>>. ISSN 0018-9499
DOI: 10.1109/tns.2005.0852733
Type of production: Scientific paper **Format:** Journal
Position of signature: 4 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 10 **Corresponding author:** No
Impact source: ISI **Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Impact index in year of publication: 1.259 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 32
Source of citations: WOS **Citations:** 3
- 41** M. Kapusta; P. Szupryczyński; C.L. Melcher; M. Moszyński; M. Balcerzyk; A.A. Carey; W. Czarnacki; M.A. Spurrier; A. Syntfeld. Non-proportionality and thermoluminescence of LSO:Ce. IEEE Transactions on Nuclear Science. 52 - 4, pp. 1098 - 1104. (United States of America): 2005. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-27644521662&partnerID=40&md5=530e28efce86843e70eb8938b9cc9bd9>>. ISSN 0018-9499

DOI: 10.1106/tns.2005.0852731

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 9

Impact source: ISI

Impact index in year of publication: 2005

Position of publication: 3

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 32

Citations: 68

- 42** M Moszynski; M Kapusta; D Wolski; M Balcerzyk; SO Flyckt; P Lavoute; C Marmonier; H Mach. New fast photomultipliers with a screening grid at the anode. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 51 - 4, 1, pp. 1701 - 1706. (United States of America): 08/2004. ISSN 0018-9499

DOI: 10.1109/tns.2004.832322

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1.737

Position of publication: 3

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 31

Citations: 44

- 43** Moszynski, M; Balcerzyk, M; Czarnacki, W; Kapusta, M; Klamra, W; Syntfeld, A; Szawlowski, M. Intrinsic energy resolution and light yield nonproportionality of BGO. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 51, pp. 1074 - 1079. (United States of America): IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 2004. ISSN 0018-9499

DOI: 10.1109/TNS.2004.829491

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 1.737

Position of publication: 5

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 33

Citations: 68

- 44** A Breskin; M Balcerzyk; R Chechik; GP Guedes; J Maia; D Mormann. Recent advances in gaseous imaging photomultipliers. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 513 - 1-2, pp. 250 - 255. 11/2003. ISSN 0168-9002

DOI: 10.1016/j.nima.2003.08.041

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

**Impact source:** ISI**Impact index in year of publication:** 1,166**Position of publication:** 4**Source of citations:** WOS**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 33**Citations:** 25

- 45** M Balcerzyk; D Mormann; A Breskin; BK Singh; EDC Freitas; R Chechik; M Klin; M Rappaport. Methods of preparation and performance of sealed gas photomultipliers for visible light. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 50 - 4, 1, pp. 847 - 854. 08/2003. ISSN 0018-9499

DOI: 10.1109/tns.2003.815142**Type of production:** Scientific paper**Corresponding author:** Yes**Impact source:** ISI**Impact index in year of publication:** 1,119**Position of publication:** 5**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 33**Citations:** 28

- 46** M Moszynski; M Balcerzyk; W Czarnacki; M Kapusta; W Klamra; P Schotanus; A Syntfeld; M Szawlowski. Study of pure NaI at room and liquid nitrogen temperatures. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 50 - 4, 1, pp. 767 - 773. 08/2003. ISSN 0018-9499

DOI: 10.1109/tns.2003.815176**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 1,119**Position of publication:** 5**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 33**Citations:** 39

- 47** D Mormann; M Balcerzyk; A Breskin; R Chechik; BK Singh; A Buzulutskov. GEM-based gaseous photomultipliers for UV and visible photon imaging. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 504 - 1-3, pp. 93 - 98. (Holland): 05/2003. ISSN 0168-9002

DOI: 10.1016/s0168-9002(03)00760-5**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 1,166**Position of publication:** 4**Source of citations:** WOS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 33**Citations:** 41

- 48** R Chechik; M Balcerzyk; A Breskin; A Buzulutskov; GP Guedes; D Mormann; BK Singh. Progress in GEM-based gaseous photomultipliers. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 502 - 1, pp. 195 - 199. (Holland): 04/2003. ISSN 0168-9002



DOI: 10.1016/s0168-9002(03)00273-0

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 1.166

Position of publication: 4

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 33

Citations: 25

- 49** M Moszynski; M Szawlowski; M Kapusta; M Balcerzyk. Avalanche photodiodes in scintillation detection. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 497 - 1, pp. 226 - 233. (Holland): 01/2003. ISSN 0168-9002

DOI: 10.1016/s0168-9002(02)01916-2

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 1,166

Position of publication: 4

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 33

Citations: 38

- 50** Moszynski, M; Szawlowski, M; Kapusta, M; Balcerzyk, M. Large area avalanche photodiodes in scintillation and X-rays detection. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 485 - 3, pp. 504 - 521. Noord-Holland(Holland): ELSEVIER SCIENCE BV, 11/06/2002. ISSN 0168-9002

DOI: 10.1016/s0168-9002(01)02117-9

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 1.167

Position of publication: 11

Impact source: ISI

Impact index in year of publication: 1.167

Position of publication: 22

Impact source: ISI

Impact index in year of publication: 1.167

Position of publication: 5

Impact source: ISI

Impact index in year of publication: 1.167

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - PHYSICS, PARTICLES & FIELDS

Journal in the top 25%: No

No. of journals in the cat.: 19

Category: Science Edition - SPECTROSCOPY

Journal in the top 25%: No

No. of journals in the cat.: 38

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 33

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Journal in the top 25%: Yes

**Position of publication:** 9**Source of citations:** WOS**No. of journals in the cat.:** 52**Citations:** 91

- 51** Moszynski, M; Zalipska, J; Balcerzyk, M; Kapusta, M; Mengesha, W; Valentine, JD. Intrinsic energy resolution of NaI(Tl). NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 484 - 1-3, pp. 259 - 269. Noord-Holland(Holland): ELSEVIER SCIENCE BV, 21/05/2002. ISSN 0168-9002

Type of production: Scientific paper**Position of signature:** 3**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 1.167**Position of publication:** 11**Impact source:** ISI**Impact index in year of publication:** 1.167**Position of publication:** 22**Impact source:** ISI**Impact index in year of publication:** 1.167**Position of publication:** 5**Impact source:** ISI**Impact index in year of publication:** 1.167**Position of publication:** 9**Source of citations:** WOS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - PHYSICS, PARTICLES & FIELDS**Journal in the top 25%:** No**No. of journals in the cat.:** 19**Category:** Science Edition - SPECTROSCOPY**Journal in the top 25%:** No**No. of journals in the cat.:** 38**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 33**Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION**Journal in the top 25%:** Yes**No. of journals in the cat.:** 52**Citations:** 146

- 52** Klamra, W; Balcerzyk, M; Kapusta, M; Kerek, A; Moszynski, M; Norlin, LO; Novak, D; Possnert, G. Studies of scintillation light nonproportionality of ZnSe(Te), CsI(Tl) and YAP(Ce) crystals using heavy ions. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 484 - 1-3, pp. 327 - 332. (Holland): ELSEVIER SCIENCE BV, 21/05/2002. ISSN 0168-9002

DOI: 10.1016/s0168-9002(01)01993-3**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 1.167**Position of publication:** 11**Impact source:** ISI**Impact index in year of publication:** 1.167**Position of publication:** 22**Impact source:** ISI**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - PHYSICS, PARTICLES & FIELDS**Journal in the top 25%:** No**No. of journals in the cat.:** 19**Category:** Science Edition - SPECTROSCOPY**Journal in the top 25%:** No**No. of journals in the cat.:** 38**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY



Impact index in year of publication: 1.167
Position of publication: 5

Impact source: ISI

Impact index in year of publication: 1.167
Position of publication: 9

Source of citations: WOS

Journal in the top 25%: Yes
No. of journals in the cat.: 33

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Journal in the top 25%: Yes
No. of journals in the cat.: 52

Citations: 11

- 53** Balcerzyk, M; Klamra, W; Moszynski, M; Kapusta, M; Szawlowski, M. Energy resolution and light yield non-proportionality of ZnSe: Te scintillator studied by large area avalanche photodiodes and photomultipliers. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 482 - 3, pp. 720 - 727. (Holland): ELSEVIER SCIENCE BV, 21/04/2002. ISSN 0168-9002

DOI: 10.1016/S0168-9002(01)01915-5

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 1.167
Position of publication: 11

Impact source: ISI

Impact index in year of publication: 1.167
Position of publication: 22

Impact source: ISI

Impact index in year of publication: 1.167
Position of publication: 5

Impact source: ISI

Impact index in year of publication: 1.167
Position of publication: 9

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - PHYSICS, PARTICLES & FIELDS

Journal in the top 25%: No
No. of journals in the cat.: 19

Category: Science Edition - SPECTROSCOPY

Journal in the top 25%: No
No. of journals in the cat.: 38

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes
No. of journals in the cat.: 33

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Journal in the top 25%: Yes
No. of journals in the cat.: 52

Citations: 34

- 54** Balcerzyk, M; Moszynski, M; Kapusta, M; Szawlowski, M. Timing properties of LuAP : Ce studied with large-area avalanche photodiodes. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 48 - 6, pp. 2344 - 2347. (United States of America): IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/12/2001. ISSN 0018-9499

DOI: 10.1109/23.983265

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 0.771
Position of publication: 75

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No
No. of journals in the cat.: 200



Impact source: ISI

Impact index in year of publication: 0.771

Position of publication: 9

Source of citations: WOS

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 33

Citations: 4

- 55** Moszynski, M; Kapusta, M; Balcerzyk, M; Szawlowski, M; Wolski, D; Wegrzecka, I; Wegrzecki, M. Comparative study of avalanche photodiodes with different structures in scintillation detection. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 48 - 4, pp. 1205 - 1210. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/08/2001. ISSN 0018-9499

DOI: 10.1109/23.958751

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 0.771

Position of publication: 75

Impact source: ISI

Impact index in year of publication: 0.771

Position of publication: 9

Source of citations: WOS

Format: Journal

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No

No. of journals in the cat.: 200

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 33

Citations: 41

- 56** M Kapusta; M Moszynski; M Balcerzyk; K Lesniewski; M Szawlowski. Avalanche photodiodes in scintillation detection for high resolution PET. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 47 - 6, 2, pp. 2029 - 2033. (United States of America): 12/2000. ISSN 0018-9499

DOI: 10.1109/23.903841

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 1.060

Position of publication: 4

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 30

Citations: 15

- 57** M Kapusta; M Moszynski; M Balcerzyk; J Braziewicz; D Wolski; J Pawelke; W Klamra. Comparison of the scintillation properties of LSO : Ce manufactured by different laboratories and of LGSO : Ce. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 47 - 4, 1, pp. 1341 - 1345. 08/2000. ISSN 0018-9499

DOI: 10.1109/23.872975

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 1.060

Position of publication: 4

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

No. of journals in the cat.: 30

**Source of citations:** WOS**Citations:** 39

- 58** M Moszynski; M Szawlowski; M Kapusta; M Balcerzyk; D Wolski. Large area avalanche photodiodes in X-rays and light detection. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 47 - 4, 1, pp. 1297 - 1302. 08/2000. ISSN 0018-9499
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 1.060
Position of publication: 4
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 30
Citations: 22
- 59** M Moszynski; M Balcerzyk; M Kapusta; D Wolski; CL Melcher. Large size LSO : Ce and YSO : Ce scintillators for 50 MeV range gamma-ray detector. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 47 - 4, 1, pp. 1324 - 1328. 08/2000. ISSN 0018-9499
DOI: 10.1109/23.872972
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 1,060
Position of publication: 4
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 30
Citations: 14
- 60** M Balcerzyk; M Moszynski; M Kapusta; D Wolski; J Pawelke; CL Melcher. YSO, LSO, GSO and LGSO. A study of energy resolution and nonproportionality. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 47 - 4, 1, pp. 1319 - 1323. 08/2000. ISSN 0018-9499
DOI: 10.1109/23.872971
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 1.06
Position of publication: 4
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 30
Citations: 122
- 61** M Balcerzyk; Z Gontarz; M Moszynski; M Kapusta. Future hosts for fast and high light output cerium-doped scintillator. JOURNAL OF LUMINESCENCE. 87-9, pp. 963 - 966. (Holland): 05/2000. ISSN 0022-2313
DOI: 10.1016/S0022-2313(99)00492-5
Type of production: Scientific paper
Position of signature: 1
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 1,101
Position of publication: 18
Source of citations: WOS

Corresponding author: Yes
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 57
Citations: 51

62 M Moszynski; M Kapusta; M Balcerzyk; M Szawlowski; D Wolski. Large Area Avalanche Photodiodes in X-rays and scintillation detection. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 442 - 1-3, pp. 230 - 237. (Holland): 03/2000. ISSN 0168-9002

DOI: 10.1016/S0168-9002(99)01226-7

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0,966

Position of publication: 9

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 52

Citations: 42

63 M Kapusta; M Moszynski; M Balcerzyk; J Pawelke. Comparison of the scintillation properties of LSO : Ce and YSO : Ce as the detectors for high resolution PET. ACTA PHYSICA POLONICA B. 31 - 1, pp. 101 - 106. (Poland): 01/2000. ISSN 0587-4254

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 0,479

Position of publication: 46

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - PHYSICS, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 69

64 M Moszynski; M Kapusta; J Zalipska; M Balcerzyk; D Wolski; M Szawlowski; W Klamra. Low energy gamma-rays scintillation detection with large area avalanche photodiodes. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 46 - 4, 1, pp. 880 - 885. 08/1999. ISSN 0018-9499

DOI: 10.1109/23.790697

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 1,219

Position of publication: 3

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 30

Citations: 59

- 65** Kapusta, M; Balcerzyk, M; Moszynski, M; Pawelke, J. A high-energy resolution observed from a YAP : Ce scintillator. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 421 - 3, pp. 610 - 613. 01/02/1999. ISSN 0168-9002
DOI: 10.1016/s0168-9002(98)01232-7
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 0.921
Position of publication: 14
Impact source: ISI
Impact index in year of publication: 0.921
Position of publication: 16
Impact source: ISI
Impact index in year of publication: 0.921
Position of publication: 26
Impact source: ISI
Impact index in year of publication: 0.921
Position of publication: 6
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - PHYSICS, PARTICLES & FIELDS
Journal in the top 25%: No
No. of journals in the cat.: 18
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: No
No. of journals in the cat.: 52
Category: Science Edition - SPECTROSCOPY
Journal in the top 25%: No
No. of journals in the cat.: 34
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 30
Citations: 83
- 66** Wojtowicz, AJ; Lempicki, A; Wisniewski, D; Balcerzyk, M; Brecher, C. The carrier capture and recombination processes in Ln(3+)-activated scintillators. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 43 - 3, pp. 2168 - 2173. (United States of America): IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/06/1996. ISSN 0018-9499
DOI: 10.1109/23.502312
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 1,34
Position of publication: 3
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 33
Citations: 27
- 67** A LEMPICKI; MH RANGLES; D WISNIEWSKI; M BALCERZYK; C BRECHER; AJ WOJTOWICZ. LUALO3-CE AND OTHER ALUMINATE SCINTILLATORS. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 42 - 4, 1, pp. 280 - 284. (United States of America): 08/1995. ISSN 0018-9499
DOI: 10.1109/23.467836
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 6
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No



Impact source: ISI

Impact index in year of publication: 0,897

Position of publication: 5

Source of citations: WOS

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 33

Citations: 192

- 68** AJ WOJTOWICZ; M BALCERZYK; D WISNIEWSKI; A LEMPICKI; CL WOODY; PW LEVY; JA KIERSTEAD; S STOLL. SCINTILLATION LIGHT TRAPPING AND RADIATION-DAMAGE IN CEF(3). IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 41 - 4, 1, pp. 713 - 718. (United States of America): 08/1994. ISSN 0018-9499

DOI: 10.1109/23.322794

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1,183

Position of publication: 5

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 34

Citations: 11

- 69** WOJTOWICZ, AJ; BALCERZYK, M; BERMAN, E; LEMPICKI, A. OPTICAL SPECTROSCOPY AND SCINTILLATION MECHANISMS OF CE(X)LA(1-X)F3. PHYSICAL REVIEW B. 49 - 21, pp. 14880 - 14895. (United States of America): AMERICAN PHYSICAL SOC, 01/06/1994. ISSN 0163-1829

DOI: 10.1103/PhysRevB.49.14880

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 3,187

Position of publication: 3

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - PHYSICS, CONDENSED MATTER

Journal in the top 25%: Yes

No. of journals in the cat.: 37

Citations: 88

- 70** AJ WOJTOWICZ; M BALCERZYK; A LEMPICKI. THE SCINTILLATION PROPERTIES OF CEXLA1-XF3. JOURNAL OF LUMINESCENCE. 60-1, pp. 987 - 990. (Holland): 04/1994. ISSN 0022-2313

DOI: 10.1016/0022-2313(94)90328-x

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 1,173

Position of publication: 12

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 35

- 71** AJ WOJTOWICZ; M BALCERZYK; A LEMPICKI. LUMINESCENCE AND SCINTILLATION PROPERTIES OF CEXLA1-XF3 MONOCRYSTALS. ACTA PHYSICA POLONICA A. 84 - 5, pp. 963 - 968. (Poland): 11/1993. ISSN 0587-4246



DOI: 10.12693/APhysPolA.84.963

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 0.333

Position of publication: 44

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - PHYSICS, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 61

Citations: 1

- 72** A LEMPICKI; E BERMAN; AJ WOJTOWICZ; M BALCERZYK; LA BOATNER. CERIUM-DOPED ORTHOPHOSPHATES - NEW PROMISING SCINTILLATORS. IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 40 - 4, 1, pp. 384 - 387. (United States of America): 08/1993. ISSN 0018-9499

DOI: 10.1109/23.256585

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 0.592

Position of publication: 8

Source of citations: WOS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 35

Citations: 68

- 73** M BALCERZYK; M GRINBERG; J SZATKOWSKI. INFLUENCE OF TWINNING ON LOCAL ELECTRONIC-PROPERTIES OF ZNSE. ACTA PHYSICA POLONICA A. 82 - 5, pp. 890 - 892. (Poland): 11/1992. ISSN 0587-4246

DOI: 10.12693/APhysPolA.82.890

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 0.338

Position of publication: 44

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Category: Science Edition - PHYSICS, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 51

- 74** M BALCERZYK; F FIRSZT; H MECZYNSKA. OPTICAL AND ELECTRICAL-PROPERTIES OF IODINE DOPED N-TYPE ZNSE CRYSTALS. ACTA PHYSICA POLONICA A. 79 - 2-3, pp. 299 - 302. (Poland): 02/1991. ISSN 0587-4246

DOI: 10.12693/APhysPolA.79.299

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 0.343

Position of publication: 47

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Category: Science Edition - PHYSICS, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 60



- 75** Marcin Balcerzyk. Positron emission tomography of small animals inspected from biologist, radiochemist and engineer points of view. What each of them does not understand in other's domain?. Medical Physics. pp. 177 - 194. New York(United States of America): Nova Publishers, 2013. ISBN 978-1-62257-611-1
Type of production: Book chapter **Format:** Book
Degree of contribution: Author or co-author of chapter in book
- 76** Marcin Balcerzyk; Luis Caballero; Carlos Correcher; Antonio Gonzalez; Carlos Vazquez; Jose Luis Rubio; Giorgios Kontaxakis; Miguel Angel Pozo; José Maria Benlloch. Virtual PET Scanner – From Simulation in GATE to a Final Multiring Albira PET/SPECT/CT Camera, Positron Emission Tomography. Current Clinical and Research Aspects. pp. 1 - 24. Rijeka(Croatia): InTech, 2012. Available on-line at: <<http://www.intechopen.com/articles/show/title/virtual-pet-scanner-from-simulation-in-gate-to-a-final-multiring-albira-pet-spect-ct-camera>>. ISBN 978-953-307-824-3
DOI: 10.5772/30429
Collection: Research Collection
Type of production: Book chapter **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 9 **Corresponding author:** Yes
- 77** Marcin Balcerzyk. Medical Physics. Medical Physics. ISBN: 978-1-62257-59, New York(United States of America): Nova Publishers, 2013. ISBN 978-1-62257-590-9
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Editor or co-editor
- 78** Wolfgang Sauerwein; Lucie Sansey; Evamarie Hey-Hawkins; Martin Kellert; Luigi Panza; Daniela Imperio; Marcin Balcerzyk; Giovanna Rizzo; Elisa Scalco; Ken Herrmann; PierLuigi Mauri; Antonella De Palma; Andrea Wittig. Theranostics in Boron Neutron Capture Therapy. Life. 11 - 4, pp. 330 - 21. MDPI, 10/04/2021. ISSN 2075-1729
DOI: 10.3390/life11040330
Type of production: Review **Format:** Journal
Position of signature: 7 **Degree of contribution:** Author or co-author of review
Total no. authors: 13 **Corresponding author:** No
Impact source: ISI **Category:** Science Edition - BIOLOGY
Impact index in year of publication: 3.817
Position of publication: 27 **No. of journals in the cat.:** 93

Works submitted to national or international conferences

- 1** **Title of the work:** Bimodal luminescent and computed tomography nanoprobe based on Eu³⁺:(H₃O)Lu₃F₁₀
Name of the conference: 10th International Colloids Conference
Type of event: Conference
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
Corresponding author: No
Date of event: 06/12/2020
End date: 09/12/2020
City organizing entity: Online,
 Ana Isabel Becerro; Daniel Gonzalez Mancebo; Ariadna Corral; Marcin Balcerzyk; Manuel Ocaña.



- 2** **Title of the work:** Synthesis, functionalization and properties of uniform Eu-doped $\text{Nala}(\text{XO}_4)_2$ ($\text{X}=\text{Mo},\text{W}$) probes for luminescent and CT images.
Name of the conference: 2nd International Conference on Nanomaterials Applied to Life Sciences
Type of event: Conference
Corresponding author: No
City of event: Madrid, Spain
Date of event: 29/01/2020
End date: 31/01/2020
Organising entity: Instituto Imdea Nanociencia
M Laguna; N Núñez; A Becerro; G Lozano; M Moros; J M de la Fuente; A Corral; M Balcerzyk; M Ocaña. "Synthesis, functionalization and properties of uniform Eu-doped $\text{Nala}(\text{XO}_4)_2$ ($\text{X}=\text{Mo},\text{W}$) probes for luminescent and CT images."
- 3** **Title of the work:** fluorination of BaGdF_5 nanoparticles for multimodal imaging and PET/CT biodistribution in mouse.
Name of the conference: 23rd International Symposium on Radiopharmaceutical Sciences
Type of event: Conference
Corresponding author: No
City of event: Bejin, China
Date of event: 25/05/2019
End date: 28/05/2019
Organising entity: Society of Radiopharmaceutical Sciences
Laura Fernandez Maza; Ariadna Corral; Ana Becerro; Daniel Gonzalez; Angel Parrado; Marcin Balcerzyk; Manuel Ocaña. En: JOURNAL OF LABELLED COMPOUNDS & RADIOPHARMACEUTICALS. 62, pp. S166 - S168. ISSN 0362-4803
- 4** **Title of the work:** High intensity emitting $\text{Eu}^{3+},\text{Bi}^{3+}:\text{LaF}_3$ nanoparticles for luminescence bioimaging and X-ray computed tomography
Name of the conference: NanoMedicine International Conference and Exhibition 2018
Type of event: Conference
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Venice, Italy
Date of event: 23/10/2018
End date: 25/10/2018
Organising entity: SETCOR
City organizing entity: Dubai, United Arab Emirates
Ana Isabel Becerro; Daniel Gonzalez Mancebo; Ariadna Corral; Marcin Balcerzyk; Manuel Ocaña. "High intensity emitting $\text{Eu}^{3+},\text{Bi}^{3+}:\text{LaF}_3$ nanoparticles for luminescence bioimaging and X-ray computed tomography".
- 5** **Title of the work:** In vitro stability of Na^{18}F -Tetrafluoroborate (^{18}F TFB) at 10 hours
Name of the conference: 16th European Symposium on Radiopharmacy and Radiopharmaceuticals
Type of event: Conference
City of event: Nantes, Francia,
Date of event: 26/04/2012
End date: 29/04/2012
LAURA FERNÁNDEZ MAZA; MANUEL DE MIGUEL RODRÍGUEZ; MARCIN BALCERZYK; ISABEL FERNANDEZ GOMEZ; ANGEL LUIS PARRADO GALLEGU; JOAQUIN COBOS SABATE.



- 6** **Title of the work:** Multimodal imaging of GL261 glioma in mice in vivo using PET/MRI/CT.
Name of the conference: XXVth International Symposium on Cerebral Blood Flow, Metabolism and Function and Xth International Conference on Quantification of Brain Function with PET
City of event: Barcelona, Catalonia, Spain
Date of event: 2011
Organising entity: International Society for Cerebral Blood Flow and Metabolism
Marcin Balcerzyk; Angel Parrado Gallego; Isabel Fernandez Gomez; Segundo Garcia Arguello; Laura Fernandez Maza; Joaquin Cobos Sabate; A Guisado; A Villaran; Juan Minguez Molina; Malgorzata Sielska; Konrad Gabrusiewicz; Bozena Kaminska. "Multimodal imaging of GL261 glioma in mice in vivo using PET/MRI/CT."
- 7** **Title of the work:** APLICACIÓN DE MICROPET/TAC EN EL SEGUIMIENTO DE TERAPIAS ANTITUMORALES
Name of the conference: 9ª JORNADAS ANDALUZAS SALUD INVESTIGA (
Type of event: Conference **Geographical area:** Regional
City of event: CADIZ,
Date of event: 2010
JOAQUIN COBOS SABATE; MANUEL DE MIGUEL RODRÍGUEZ; MARCIN BALCERZYK; SEGUNDO FRANCISCO GARCÍA ARGÜELLO; ANGEL LUIS PARRADO GALLEGO. "APLICACIÓN DE MICROPET/TAC EN EL SEGUIMIENTO DE TERAPIAS ANTITUMORALES". En: 9ª JORNADAS ANDALUZAS SALUD INVESTIGA. 1, pp. 151 - 151.
- 8** **Title of the work:** MICROPET/CT IMAGING AT CENTRO NACIONAL DE ACELERADORES
Name of the conference: INTERNATIONAL WORKSHOP ON BIO-MEDICAL APPLICATIONS OF MICRO-PET (1) (1.2010.SEVILLA)
Type of event: Conference **Geographical area:** Non EU International
City of event: SEVILLA,
Date of event: 2010
MARCIN BALCERZYK; JOAQUIN COBOS SABATE; ARIADNA CORRAL SOUSA; MANUEL DE MIGUEL RODRÍGUEZ; SEGUNDO FRANCISCO GARCÍA ARGÜELLO; ANGEL LUIS PARRADO GALLEGO; RAMON RISCO DELGADO.
- 9** **Title of the work:** PRODUCTION OF PET RADIOTRACERS AT CENTRO NACIONAL DE ACELERADORES
Name of the conference: INTERNATIONAL WORKSHOP ON BIO-MEDICAL APPLICATIONS OF MICRO-PET (1) (1.2010.SEVILLA)
Type of event: Conference **Geographical area:** Non EU International
City of event: SEVILLA,
Date of event: 2010
SEGUNDO FRANCISCO GARCÍA ARGÜELLO; MARCIN BALCERZYK; JOAQUIN COBOS SABATE; ANGEL LUIS PARRADO GALLEGO.
- 10** **Title of the work:** 18F Labeling of a new naphthalene derivative as potential Alzheimer Disease PET imaging agent. Synthesis and preclinical studies.
Name of the conference: 28th Annual Congress of the European-Association-of-Nuclear-Medicine (EANM)
City of event: Hamburg,
Organising entity: European Assoc Nucl Med
Type of contribution: Scientific paper
Fernandez-Maza, L.; Rivera-Marrero, S.; Balcerzyk, M.; Fernandez-Gomez, I.; Parrado-Gallego, A.; Sablon-Carrazana, M.; Perez-Perera, R.; Diaz-Garcia, O.; Perera-Pintado, A.; Prats-Capote, A.; Rodriguez-Tanty, C."EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING". 42, pp. S282 - S282. 01/10/2015. ISSN 1619-7070, ISSN 1619-7089



- 11 Title of the work:** CEF3 SCINTILLATOR - THE STATE-OF-THE-ART
Name of the conference: Nuclear Science Symposium and Medical Imaging Conference (NSS-MIC 93)
City of event: SAN FRANCISCO,
Organising entity: IEEE
Type of contribution: Scientific paper
WOJTOWICZ, AJ; BALCERZYK, M; WISNIEWSKI, D; LEMPICKI, A. "NUCLEAR SCIENCE SYMPOSIUM & MEDICAL IMAGING CONFERENCE, VOLS 1-3". pp. 655 - 660. 01/01/1993. ISBN 0-7803-1487-5
- 12 Title of the work:** CERIUM-DOPED ORTHOPHOSPHATES - NEW PROMISING SCINTILLATORS
Name of the conference: 1992 IEEE NUCLEAR SCIENCE SYMP / MEDICAL IMAGING CONF (NSS/MIC)
City of event: ORLANDO,
Organising entity: IEEE, NUCL & PLASMA SCI SOC; ARGONNE NATL LAB; CONTINUOUS ELECTRON BEAM ACCELERATOR FACIL; ELECT POWER RES INST; FERMI NATL ACCELERATOR LAB; IEEE, POWER ENGN SOC; LAWRENCE BERKELEY LAB; LAWRENCE LIVER
Type of contribution: Scientific paper
LEMPICKI, A; BERMAN, E; WOJTOWICZ, AJ; BALCERZYK, M; BOATNER, LA. "CONFERENCE RECORD OF THE 1992 IEEE NUCLEAR SCIENCE SYMPOSIUM AND MEDICAL IMAGING CONFERENCE, VOLS 1 AND 2". pp. 141 - 143. 01/01/1992. ISBN 0-7803-0883-2
- 13 Title of the work:** CdWO4 crystal in gamma-ray spectrometry
Name of the conference: Nuclear Science Symposium/Medical Imaging Conference
City of event: Rome,
Organising entity: IEEE Commun Soc; Nucl & Plasma Sci Soc
Type of contribution: Scientific paper
Moszynski, M; Balcerzyk, M; Kapusta, M; Syntfeld, A; Wolski, D; Pausch, G; Stein, J; Schotanus, P. "2004 IEEE NUCLEAR SCIENCE SYMPOSIUM CONFERENCE RECORD, VOLS 1-7". En: IEEE Nuclear Science Symposium Conference Record. pp. 798 - 803. 01/01/2004. ISSN 1082-3654, ISBN 0-7803-8700-7
- 14 Title of the work:** Characterization of Thyroid and Non-Thyroid Tumors with a Novel PET Tracer [18F]tetrafluoroborate in a Rat Model
Name of the conference: 25th Annual Congress of the European-Association-of-Nuclear-Medicine (EANM)
City of event: Milan,
Organising entity: European Assoc Nucl Med (EANM)
Type of contribution: Scientific paper
Balcerzyk, M.; Fernandez-Gomez, I.; Fernandez-Maza, L.; Parrado-Gallego, A.; Minguez-Molina, J.; Illanes, M.; de Miguel, M.; Cobos-Sabate, J."EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING". 39, pp. S555 - S555. 01/10/2012. ISSN 1619-7070
- 15 Title of the work:** Comparative study of PP0275C hybrid photodetector and XP2020Q photomultiplier in scintillation detection
Name of the conference: IEEE Nuclear Science Symposium/Medical Imaging Conference
City of event: Portland,
Organising entity: IEEE; Nucl & Plasma Sci Soc
Type of contribution: Scientific paper
Moszynski, M; Klamra, W; Wolski, D; Czarnacki, W; Kapusta, M; Balcerzyk, M. "2003 IEEE NUCLEAR SCIENCE SYMPOSIUM, CONFERENCE RECORD, VOLS 1-5". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 1363 - 1368. 01/01/2004. ISSN 1082-3654, ISBN 0-7803-8257-9
- 16 Title of the work:** Comparison of the scintillation properties of LSO : Ce manufactured by different laboratories and of LGSO : Ce
Name of the conference: 1999 IEEE Nuclear Science Symposium and Medical Imaging Conference



City of event: SEATTLE,

Organising entity: IEEE, Nucl & Plasma Sci Soc; Argonne Natl Labs; Bicron Inc; Brookhaven Natl Lab; CTI PET Syst Inc; Ernest Orlando Lawrence Berkeley Natl Lab; Fermi Natl Accelerator Lab; GE Med Syst; INFN Sezione Ferr

Type of contribution: Scientific paper

Kapusta, M; Moszynski, M; Balcerzyk, M; Braziewicz, J; Wolski, D; Pawelke, J; Klamra, W. "1999 IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD, VOLS 1-3". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 704 - 708. 01/01/1999. ISSN 1082-3654, ISBN 0-7803-5697-7

17 Title of the work: Evaluation of new Photonis XP1472 nine-channel photomultiplier
Name of the conference: Nuclear Science Symposium/Medical Imaging Conference

City of event: Rome,

Organising entity: IEEE Commun Soc; Nucl & Plasma Sci Soc

Type of contribution: Scientific paper

Moszynski, M; Wolski, D; Kapusta, M; Balcerzyk, M; Syntfeld, A; Fontaine, C; Lavoute, P; Bascle, P; Moussant, C; Flyckt, SO. "2004 IEEE Nuclear Science Symposium Conference Record, Vols 1-7". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 1615 - 1620. 01/01/2004. ISSN 1082-3654, ISBN 0-7803-8700-7

18 Title of the work: Intrinsic energy resolution and light yield non-proportionality of BGO
Name of the conference: IEEE Nuclear Science Symposium/Medical Imaging Conference

City of event: Portland,

Organising entity: IEEE; Nucl & Plasma Sci Soc

Type of contribution: Scientific paper

Moszynski, M; Balcerzyk, M; Czarnacki, W; Kapusta, M; Klamra, V; Syntfeld, A; Szawlowski, M. "2003 IEEE NUCLEAR SCIENCE SYMPOSIUM, CONFERENCE RECORD, VOLS 1-5". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 92 - 96. 01/01/2004. ISSN 1082-3654, ISBN 0-7803-8257-9

19 Title of the work: Large Area Avalanche Photodiodes in X-rays and light detection
Name of the conference: 1999 IEEE Nuclear Science Symposium and Medical Imaging Conference

City of event: SEATTLE,

Organising entity: IEEE, Nucl & Plasma Sci Soc; Argonne Natl Labs; Bicron Inc; Brookhaven Natl Lab; CTI PET Syst Inc; Ernest Orlando Lawrence Berkeley Natl Lab; Fermi Natl Accelerator Lab; GE Med Syst; INFN Sezione Ferr

Type of contribution: Scientific paper

Moszynski, M; Szawlowski, M; Kapusta, M; Balcerzyk, M; Wolski, D. "1999 IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD, VOLS 1-3". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 46 - 51. 01/01/1999. ISSN 1082-3654, ISBN 0-7803-5697-7

20 Title of the work: Large size LSO : Ce and YSO : Ce scintillators for 50 MeV range gamma-ray detector
Name of the conference: 1999 IEEE Nuclear Science Symposium and Medical Imaging Conference

City of event: SEATTLE,

Organising entity: IEEE, Nucl & Plasma Sci Soc; Argonne Natl Labs; Bicron Inc; Brookhaven Natl Lab; CTI PET Syst Inc; Ernest Orlando Lawrence Berkeley Natl Lab; Fermi Natl Accelerator Lab; GE Med Syst; INFN Sezione Ferr

Type of contribution: Scientific paper

Moszynski, M; Balcerzyk, M; Kapusta, M; Wolski, D; Melcher, CL. "1999 IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD, VOLS 1-3". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 677 - 681. 01/01/1999. ISSN 1082-3654, ISBN 0-7803-5697-7



- 21** **Title of the work:** LuAlO₃:Ce and other aluminate scintillators
Name of the conference: 1994 Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)
City of event: NORFOLK,
Organising entity: IEEE
Type of contribution: Scientific paper
LEMPICKI, A; RANDLES, MH; WISNIEWSKI, D; BALCERZYK, M; BRECHER, C; WOJTOWICZ, AJ.
"NUCLEAR SCIENCE SYMPOSIUM & MEDICAL IMAGING CONFERENCE - 1994 IEEE CONFERENCE RECORD, VOLS 1-4". pp. 307 - 311. 01/01/1994. ISBN 0-7803-2544-3
- 22** **Title of the work:** Matrix metalloprotease-9 is required for long term potentiation in mice
Name of the conference: 20th Biennial Meeting of the International-Society-for-Neurochemistry/European-Society-for-Neurochemistry
City of event: Innsbruck,
Organising entity: Int Soc Neurochem; European Soc Neurochem
Type of contribution: Scientific paper
Balcerzyk, M; Okulski, P; Kaczmarek, L. "JOURNAL OF NEUROCHEMISTRY". 94, pp. 38 - 38. 01/08/2005. ISSN 0022-3042
- 23** **Title of the work:** Methods of preparation and results of sealed gas photomultipliers for visible light
Name of the conference: IEEE Nuclear Science Symposium/Medical Imaging Conference (NSS/MIC)
City of event: NORFOLK,
Organising entity: IEEE; Nucl & Plasma Sci Soc
Type of contribution: Scientific paper
Balcerzyk, M; Mormann, D; Breskin, A; Singh, BK; Freitas, EDC; Chechik, R; Klin, M; Rappaport, M. "2002 IEEE NUCLEAR SCIENCE SYMPOSIUM, CONFERENCE RECORD, VOLS 1-3". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 302 - 307. 01/01/2003. ISSN 1082-3654, ISBN 0-7803-7636-6
- 24** **Title of the work:** Neuronal overexpression of ICER in transgenic rat model; the impact on seizure susceptibility and glucose metabolism
Type of contribution: Scientific paper
Klejman, Agata; Bieganska, Katarzyna; Wawrzyniak, Marcin; Owczarek, Dorota; Balcerzyk, Marcin; Dabrowski, Michal; Lisowski, Pawel; Kaczmarek, Leszek. "TRANSGENIC RESEARCH". 20 - 5, pp. 1166 - 1166. 01/10/2011. ISSN 0962-8819
- 25** **Title of the work:** New fast photomultipliers with a screening grid at the anode
Name of the conference: IEEE Nuclear Science Symposium/Medical Imaging Conference
City of event: Portland,
Organising entity: IEEE; Nucl & Plasma Sci Soc
Type of contribution: Scientific paper
Moszynski, M; Kapusta, M; Wolska, D; Balcerzyk, M; Flyckt, SO; Lavoute, P; Marmonier, C; Mach, H. "2003 IEEE NUCLEAR SCIENCE SYMPOSIUM, CONFERENCE RECORD, VOLS 1-5". En: IEEE Nuclear Science Symposium Conference Record. pp. 1378 - 1383. 01/01/2004. ISSN 1082-3654, ISBN 0-7803-8257-9
- 26** **Title of the work:** Non-proportionality and thermoluminescence of LSO : Ce
Name of the conference: Nuclear Science Symposium/Medical Imaging Conference
City of event: Rome,
Organising entity: IEEE Commun Soc; Nucl & Plasma Sci Soc
Type of contribution: Scientific paper
Kapusta, M; Szupryczynski, P; Melcher, CL; Moszynski, M; Balcerzyk, M; Carey, AA; Czarnacki, W; Spurrier, MA; Syntfeld, A. "2004 IEEE NUCLEAR SCIENCE SYMPOSIUM CONFERENCE RECORD,



VOLS 1-7". En: IEEE Nuclear Science Symposium Conference Record. pp. 822 - 828. 01/01/2004. ISSN 1082-3654, ISBN 0-7803-8700-7

- 27** **Title of the work:** PHOTOLUMINESCENCE OF ZNSE SINGLE-CRYSTALS DOPED WITH IODINE
Name of the conference: 20TH INTERNATIONAL CONF ON THE PHYSICS OF SEMICONDUCTORS
City of event: THESSALONIKI,
Organising entity: INT UNION PURE & APPL PHYS; ARISTOTLE UNIV; COMMISS EUROPEAN COMMUNITIES; MINIST CULTURE GREECE; MINIST IND ENERGY & TECHNOL GREECE; MINIST MACEDONIA THRACE GREECE; GREEK NATL TOURISM ORG; IBM; MACEDO
Type of contribution: Scientific paper
BALCERZYK, M; FIRSZT, F; MECZYNSKA, H. "20TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF SEMICONDUCTORS, VOLS 1-3". pp. 1887 - 1890. 01/01/1990. ISBN 981-02-0539-2
- 28** **Title of the work:** Perspectives for high resolution and high light output LuAP : Ce crystals
Name of the conference: Nuclear Science Symposium/Medical Imaging Conference
City of event: Rome,
Organising entity: IEEE Commun Soc; Nucl & Plasma Sci Soc
Type of contribution: Scientific paper
Balcerzyk, M; Moszynski, M; Galazka, Z; Kapusta, M; Syntfeld, A; Lefaucheur, JL. "2004 IEEE Nuclear Science Symposium Conference Record, Vols 1-7". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 986 - 992. 01/01/2004. ISSN 1082-3654, ISBN 0-7803-8700-7
- 29** **Title of the work:** Preliminary performance evaluation of a high resolution small animal PET scanner with monolithic crystals and depth-of-interaction encoding
Name of the conference: 8th IEEE International Conference on Bioinformatics and Bioengineering
City of event: Athens,
Organising entity: IEEE Syst, Man & Cybernet Soc
Type of contribution: Scientific paper
Balcerzyk, Marcin; Kontaxakis, George; Delgado, Mercedes; Garcia, Luis; Benloch, Jose M.; Pozo, Miguel A. "8TH IEEE INTERNATIONAL CONFERENCE ON BIOINFORMATICS AND BIOENGINEERING, VOLS 1 AND 2". pp. 944 - 947. 01/01/2008. ISBN 978-1-4244-2844-1
- 30** **Title of the work:** Preliminary performance evaluation of a high resolution small animal PET scanner with monolithic crystals and depth-of-interaction encoding
Name of the conference: 8th IEEE International Conference on Bioinformatics and Bioengineering
City of event: Athens,
Organising entity: IEEE Syst, Man & Cybernet Soc
Type of contribution: Scientific paper
Balcerzyk, Marcin; Kontaxakis, George; Delgado, Mercedes; Garcia, Luis; Benloch, Jose M.; Pozo, Miguel A. "8TH IEEE INTERNATIONAL CONFERENCE ON BIOINFORMATICS AND BIOENGINEERING, VOLS 1 AND 2". En: IEEE International Conference on Bioinformatics and Bioengineering. pp. 944 - +. 01/01/2008. ISSN 2471-7819, ISBN 978-1-4244-2844-1
- 31** **Title of the work:** Rapid and simplified synthesis of [18F]MISO and its use in subarachnoidal hemorrhage PET imaging
Name of the conference: Annual Congress of the European-Association-of-Nuclear-Medicine (EANM)
City of event: Gothenburg,
Organising entity: European Assoc Nucl Med
Type of contribution: Scientific paper
Fernandez-Maza, L.; Balcerzyk, M.; Egea-Guerrero, J.; Fernandez-Gomez, I.; Parrado-Gallego, A.; Iglesias-Jerez, R.; Murillo-Cabeza, F. "EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING". 41, pp. S425 - S425. 01/10/2014. ISSN 1619-7070, ISSN 1619-7089



- 32** **Title of the work:** Recent advances in gaseous imaging photomultipliers
Name of the conference: 6th International Conference on Position Sensitive Detectors
City of event: LEICESTER,
Type of contribution: Scientific paper
Breskin, A; Balcerzyk, M; Chechik, R; Guedes, GP; Maia, J; Mormann, D. "NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT". 513 - 1-2, pp. 250 - 255. 01/11/2003. ISSN 0168-9002
- 33** **Title of the work:** Study of pure NaI at room and liquid nitrogen temperatures
Name of the conference: IEEE Nuclear Science Symposium/Medical Imaging Conference (NSS/MIC)
City of event: NORFOLK,
Organising entity: IEEE; Nucl & Plasma Sci Soc
Type of contribution: Scientific paper
Moszynski, M; Balcerzyk, M; Czarnacki, W; Kapusta, M; Klamra, W; Schotanus, P; Syntfeld, A; Szawlowski, M. "2002 IEEE NUCLEAR SCIENCE SYMPOSIUM, CONFERENCE RECORD, VOLS 1-3". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 346 - 351. 01/01/2003. ISSN 1082-3654, ISBN 0-7803-7636-6
- 34** **Title of the work:** The role of charge transfer states in Ln(3+) - Activated scintillators
Name of the conference: 1994 Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)
City of event: NORFOLK,
Organising entity: IEEE
Type of contribution: Scientific paper
WOJTOWICZ, AJ; LEMPICKI, A; WISNIEWSKI, D; BALCERZYK, M; BRECHER, C. "NUCLEAR SCIENCE SYMPOSIUM & MEDICAL IMAGING CONFERENCE - 1994 IEEE CONFERENCE RECORD, VOLS 1-4". pp. 134 - 138. 01/01/1994. ISBN 0-7803-2544-3
- 35** **Title of the work:** YSO, LSO, GSO and LGSO. A study of energy resolution and nonproportionality
Name of the conference: 1999 IEEE Nuclear Science Symposium and Medical Imaging Conference
City of event: SEATTLE,
Organising entity: IEEE, Nucl & Plasma Sci Soc; Argonne Natl Labs; Bicron Inc; Brookhaven Natl Lab; CTI PET Syst Inc; Ernest Orlando Lawrence Berkeley Natl Lab; Fermi Natl Accelerator Lab; GE Med Syst; INFN Sezione Ferr
Type of contribution: Scientific paper
Balcerzyk, M; Moszynski, M; Kapusta, M; Wolski, D; Pawelke, J; Melcher, CL. "1999 IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD, VOLS 1-3". En: IEEE NUCLEAR SCIENCE SYMPOSIUM - CONFERENCE RECORD. pp. 157 - 161. 01/01/1999. ISSN 1082-3654, ISBN 0-7803-5697-7

Other dissemination activities

- 1** **Title of the work:** HDL Banco de trasplantes: una quimera científica, más cerca gracias a investigadores andaluces
Name of the event: Historia del día
Type of event: Media interviews **Geographical area:** National
Reasons for participation: Upon invitation
City of event: Andalusia, Spain
Date of event: 05/06/2014
"www.historiasdeluz.es". Andalusia (Spain): Available on-line at:
<<https://www.youtube.com/watch?v=cLZehE5oOZU#t=105>>.



- 2** **Title of the work:** investigadores europeos en el CNA
Name of the event: Europa Abierta
Type of event: Media interviews **Geographical area:** National
Reasons for participation: Upon invitation
City of event: Sevilla, Andalusia, Spain
Date of event: 01/03/2012
 Andalusia (Spain): Available on-line at: <<https://www.youtube.com/watch?v=hhw3dJAK7Mo>>.

R&D management and participation in scientific committees

R&D management

Name of the activity: Gestión I+D+i en CENTRO NACIONAL DE ACELERADORES, UNIVERSIDAD DE SEVILLA (SEVILLA, ESPAÑA)
Type of management: Management of organised events
Performed tasks: Otros
City of entity: SEVILLA, ESPAÑA,
Entity: CENTRO NACIONAL DE ACELERADORES, **Type of entity:** Public Research Body
 UNIVERSIDAD DE SEVILLA
Start date: 18/01/2010 **Duration:** 3 months
Geographical area: Non EU International

Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Evaluation
Performed tasks: Evaluation of research projects
Entity where activity was carried out: Alzheimer Association **Type of entity:** Associations and Groups
City of entity: Chicago, United States of America
Type of activity: Participation in panels **Frequency of the activity:** 8
Geographical area: Non EU International
Start-End date: 01/04/2011 - 30/06/2015
- 2** **Name of the activity:** Reviewer
Performed tasks: Reviewer
Entity where activity was carried out: Acta Neurobiologiae Experimentalis - journal **Type of entity:** Public Research Body
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Access system: With or without publicity for the decision **Geographical area:** European Union
Start-End date: 2014 - 2014
- 3** **Name of the activity:** Reviewer
Performed tasks: Reviewer
Entity where activity was carried out: IEEE Transactions of Nuclear Science
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 29
Access system: By public merit **Geographical area:** Non EU International

Start-End date: 2000 - 2012

4 Name of the activity: Reviewer of scientific papers

Performed tasks: Reviewer

Entity where activity was carried out:

Neuroscience - journal

Type of activity: Review of articles in scientific or technological journals

Access system: With or without publicity for the decision

Start-End date: 2010 - 2010

Type of entity: Business

Frequency of the activity: 1

Geographical area: Non EU International

5 Name of the activity: Expert

Performed tasks: Evaluation of applied science projects for 1.3 M€

Entity where activity was carried out: Foundation for Polish Science

City of entity: Warsaw, Mazowieckie, Poland

Type of activity: Participation in panels

Access system: By competition

Start date: 22/01/2019

Type of entity: Foundation

Geographical area: National

6 Performed tasks: Reviewer of the projects

Entity where activity was carried out: Agencia Nacional de Evaluación y Prospectiva

City of entity: Madrid, Spain

Type of activity: Evaluation of projects

Geographical area: National

Start date: 01/09/2015

Type of entity: Evaluation agency

Frequency of the activity: 1

7 Name of the activity: Reviewer of scientific publications

Performed tasks: Reviewer

Entity where activity was carried out: Alzheimer's & Dementia - journal

Type of activity: Review of articles in scientific or technological journals

Access system: With or without publicity for the decision

Start date: 2014

Frequency of the activity: 1

Geographical area: Non EU International

8 Name of the activity: Operational Programme Innovative Economy

Performed tasks: Evaluador

Entity where activity was carried out: Polska Agencja Rozwoju Przedsiębiorczości

City of entity: Warszawa, Mazowieckie, Poland

Type of activity: Participation in panels

Access system: By competition

Start date: 01/08/2013

Type of entity: State agency

Frequency of the activity: 38

Geographical area: National



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Institute of Physiology National Ukrainian Academy of Sciences **Type of entity:** Public Research Body
City of entity: Kiev, Ukraine
Start-End date: 01/02/2006 - 30/04/2006
Goals of the stay: Guest
- 2** **Entity:** Weizmann Institute of Science **Type of entity:** Public Research Body
Faculty, institute or centre: Department of Particle Physics
City of entity: Rehovot, Israel
Start-End date: 29/11/2000 - 30/11/2002
Funding entity: Feinberg Graduate School
Name of programme: Postdoc
Goals of the stay: Post-doctoral
- 3** **Entity:** Boston University **Type of entity:** University
Faculty, institute or centre: Department of Chemistry
City of entity: Boston, United States of America
Start-End date: 01/08/1992 - 31/08/1994
Funding entity: Kosciuszko Foundation
City funding entity: New York, United States of America
Goals of the stay: Doctorate

Obtained grants and scholarships

- 1** **Name of the grant:** Marie-Curie Fellowship, Programa Marco 6
City awarding entity: Madrid, Community of Madrid, Spain
Identify key words: Psychoneuropharmacology; Neurophysiology; Medical equipment
Aims: Post-doctoral
Awarding entity: European Union, Marie-Curie Programme
Amount of the grant: 195.173 €
Conferral date: 01/05/2007 **Duration:** 2 years
End date: 30/04/2009
Entity where activity was carried out: Universidad Complutense de Madrid
Faculty, institute or centre: Instituto Pluridisciplinar
- 2** **Name of the grant:** Postdoctoral Fellowship
City awarding entity: Rehovot, Israel
Aims: Post-doctoral
Awarding entity: Feinberg Graduate School, Weizmann Institute of Science **Type of entity:** Public Research Body
Amount of the grant: 40.800 €
Conferral date: 11/2000 **Duration:** 2 years
End date: 11/2002



Entity where activity was carried out: Particle Department, Weizmann Institute of Science

- 3** **Name of the grant:** Fellowship of Kosciuszko Foundation
City awarding entity: Boston, United States of America
Aims: Pre-doctoral
Awarding entity: Kosciuszko Foundation **Type of entity:** Foundation
Amount of the grant: 17.792 €
Conferral date: 08/1992 **Duration:** 10 months
End date: 06/1993
Entity where activity was carried out: Boston University, Boston, USA
Faculty, institute or centre: Department of Chemistry

Scientific societies and professional associations

Name of the society: Nuclear and Plasma Society
Affiliation entity: Institute of Electrical and Electronics Engineers **Type of entity:** Associations and Groups
Start-End date: 1998 - 2000

Prizes, mentions and distinctions

Description: Colaborador honorario de la Facultad de Medicina, Universidad Complutense de Madrid
Awarding entity: Facultad de Medicina, Universidad Complutense de Madrid **Type of entity:** University Department
City awarding entity: Madrid, Community of Madrid, Spain
Conferral date: 2008
Recognition linked: Colaborador honorario de la Facultad de Medicina

Obtained accreditations/recognitions

- 1** **Description:** Acreditación a Profesor Titular
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Agencia Estatal
City accrediting entity: Madrid, Spain
Date of reception: 14/11/2019 **Date of recognition:** 07/11/2019
- 2** **Description:** Habilitation
Accrediting entity: Gdansk University of Technology, Faculty of Applied Physics and Mathematics
City accrediting entity: Gdansk, Pomorskie, Poland
Date of recognition: 15/12/2017
- 3** **Description:** Cuidado en situ de animales de experimentación (funcion E)
Accrediting entity: Consejería de Medio Ambiente y Ordenación del Territorio **Type of entity:** EL DIRECTOR GENERAL DE AGRICULTURA Y GANADERÍA
City accrediting entity: Madrid, Community of Madrid, Spain
Nº of recognized periods: 1
Date of reception: 18/01/2017 **Date of recognition:** 18/01/2017



4 **Description:** Certificado de competencia de bienestar animal en animales utilizados para experimentación y otros fines científicos (categoría C).

Accrediting entity: CONSEJERIA DE AGRICULTURA, PESCA Y DESARROLLO RURAL, Junta de Andalucía

City accrediting entity: Sevilla, Andalusia, Spain

Nº of recognized periods: 1

Date of reception: 02/06/2015

Date of recognition: 02/06/2015

5 **Description:** Licencia de Supervisor de instalacion radiactiva

Accrediting entity: Consejo de Seguridad Nuclear **Type of entity:** Seguridad

City accrediting entity: Madrid, Spain

Nº of recognized periods: 2

Date of reception: 14/03/2011

Date of recognition: 14/03/2011