



Marcin Wojciech Balcerzyk -

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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.

1. Scientific contributions

Marcin has developed a career of more than thirty years in applied physics, neuroscience, and nuclear medicine, with over 95 indexed publications, an h-index of 29–30, and more than 3,200 citations. His contributions have generated knowledge in key areas such as: **New scintillating materials for PET**, notably the participation in discovery of LuAP:Ce, which improved detector efficiency and resolution. **Predictive methods in subarachnoid hemorrhage**, with an algorithm patented in the U.S. (2022) and Europe (2023), currently undergoing CE/FDA certification and with immediate clinical applicability. **Innovation in molecular imaging**, proposing the use of zinc isotopes in PET for the early detection of beta-amyloid oligomers. **International collaboration in BNCT**, together with BNCT Global GmbH and Prof. Luigi Panza, resulting in new glucose derivatives with BF₃ groups, evaluated in preclinical PET studies. Marcin has led research teams in reference institutions, supervised doctoral students and projects, and obtained competitive national and international funding (CaixaImpulse, ITEMAS, Marie Curie). His leadership has been reflected in methodology design, equipment validation, and technology transfer.

2. Contributions to society

Marcin's research has had a direct impact on technological innovation and transfer to the healthcare sector: Development of predictive software for patients with subarachnoid hemorrhage, with immediate clinical potential. Collaboration with industry in the validation of PET cameras and in the preparation of spin-offs aimed at commercializing medical solutions. Participation in technology transfer programs and leadership in innovation initiatives (CaixaImpulse Validate, ITEMAS). Scientific dissemination in international congresses and seminars, contributing to knowledge transfer in neuroscience, molecular imaging, and medical physics. Cooperation with public and private institutions in applied research projects, including hospitals and biomedical centers. Marcin Balcerzyk is a founder and owner of CT Provision SLU a company located in Murgia (VI), Spain with VAT/CIF B16386534.

3. Contributions to the training of young researchers

Marcin has co-supervised two doctoral theses and guided undergraduate and master's projects, with two additional doctoral theses currently in progress. He has taught at universities in Poland and Spain in subjects such as biophysics, medical physics, radiology, and biomedical instrumentation. He has built multidisciplinary research teams, integrating physicists, pharmacologists, and technicians, and promoted training in advanced imaging techniques (PET, CT, MRI, GATE, PMOD). He has also participated in project evaluation and editorial activities (including Q1 journal editor), contributing to the career development of young researchers and fostering new research lines and spin-off companies.

4. Other relevant contributions

Marcin has international experience in prestigious institutions such as the Weizmann Institute of Science and Boston University, enriching his interdisciplinary vision. He has



complemented his training with courses in technology transfer leadership (Universitat Pompeu Fabra, 2019) and applied programming (Xamarin, C#), integrating digital skills into biomedical research. His multilingual proficiency (Spanish, English, Polish, Russian, Hebrew, German, French) facilitates international collaboration and scientific dissemination. In addition, he actively participates in research networks and in the evaluation of national projects (ES, PL), strengthening the quality and competitiveness of Spanish science.



Leadership Merits

Brief presentation of the merits related to leadership activities of special relevance.

Marcin Balcerzyk is a founder and owner of CT Provision SLU a company located in Murgia (VI), Spain with VAT/CIF B16386534.



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.

37 years of research (since 1987) in Poland, USA, Israel, Spain 2 PhD students co-supervised, two still ongoing. Publications 101, Hirsch h index 29 WoK and 30 Scopus, citations 2710 WoK, 3226 Scopus, 13 articles in the first decile, 48 articles in the first quartile, 55 in the first tertile. 5 (WoK, 6 in Scopus) publications with more than 100 citations, the first with a maximum of 424 citations. (as of 2025-01-10). In the years 2020-2024 I had 148 citations per year on average.

**Marcin Wojciech Balcerzyk -**

Surname(s): **Balcerzyk -**
 Name: **Marcin Wojciech**
 ORCID: **0000-0001-6030-7416**
 ScopusID: **7003954124**
 ResearcherID: **H-4071-2011**
 Date of birth: **17/02/1964**
 Gender: **Male**
 Nationality: **Poland**
 Country of birth: **Poland**
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 Personal web page: **https://www.ikerbasque.net/es/marcin-balcerzyk**

Current professional situation

Employing entity: FUNDACION IKERBASQUE/IKERBASQUE FUNDAZIOA
Department: Bioaraba Health Research Institute, Bioaraba Health Research Institute
Professional category: Research Professor **Leadership and management (Y/N):** Yes
City employing entity: Vitoria-Gasteiz, País Vasco, Spain
Phone: (+34) 945007435 **Email:** marcinwojciech.balcerzyk@bio-araba.eus
Start date: 01/03/2023
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
Identify key words: Modelization; Fuentes de radiacion y detectores [eng; Nuclear medicine; physical instrumentation in biomedicine; Optical Image Processing; Physical applications to problems and biological systems; Drugs evaluation; Drug metabolism; Ageing (biology); Neurophysiology; Molecular mechanism of disease; Medical equipment; Sensors for biologic applications; Other photon receptor devices
Area of leadership and/or management activity: Public Research Body

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Sevilla	Profesor CDI	01/01/2020
2	Universidad de Sevilla	Titulado Superior, personal de investigación	18/01/2010
3	Univerisdad Complutense de Madrid	PDI, becario de Marie-Curie FP6	01/05/2007
4	Nencki Inst. for Exp. Biol. Warszawa PL	Research Associate	01/07/2003



	Employing entity	Professional category	Start date
5	Soltan Inst. for Nuclear Studies Swierk PL	Research Associate	01/09/1997
6	Weizmann Institute of Science Rehovot IL	Postdoctoral Fellow	29/11/2000
7	N.Copernicus University Torun Poland	Assistant	01/08/1987
8	Boston University Boston MA USA	Research Assistant	01/08/1992

- 1** **Employing entity:** Universidad de Sevilla **Type of entity:** University
Department: Departamento de Fisiología Medica y Biofisica, Facultad de Medicina Universidad de Sevilla
City employing entity: Sevilla, Andalucía, Spain
Professional category: Profesor CDI
Email: mbalcerzyk@us.es
Start-End date: 01/01/2020 - 28/02/2023 **Duration:** 3 years - 2 months
Type of contract: Permanent employment contract
Dedication regime: Full time
Primary (UNESCO code): 240000 - Life Science
- 2** **Employing entity:** Universidad de Sevilla **Type of entity:** University
Department: Centro Nacional de Aceleradores (CNA)
Professional category: Titulado Superior, personal de investigación
Start-End date: 18/01/2010 - 31/12/2019 **Duration:** 9 years - 11 months - 13 days
Type of contract: Temporary employment contract
Dedication regime: Full time
- 3** **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.
- 4** **Employing entity:** Nencki Inst. for Exp. Biol. Warszawa PL
Department: Laboratory of Neurobiology
City employing entity: Warsaw, Mazowieckie, Poland
Professional category: Research Associate **Leadership and management (Y/N):** Yes
Start-End date: 01/07/2003 - 30/11/2009
Type of contract: Temporary employment contract
Dedication regime: Full time
Area of leadership and/or 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.

- 5** **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 **Leadership and management (Y/N):** Yes
Start-End date: 01/09/1997 - 30/06/2005
Type of contract: Permanent employment contract
Area of leadership and/or 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.
- 6** **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.
- 7** **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 **Leadership and management (Y/N):** Yes
Start-End date: 01/08/1987 - 31/10/1996
Area of leadership and/or 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.
- 8** **Employing entity:** Boston University Boston MA **Type of entity:** University USA
Department: Department of Chemistry
City employing entity: Boston, United States of America
Professional category: Research Assistant **Leadership and management (Y/N):** 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.

Summary of professional activity

I received an MS and Ph.D. in physics, however, my scientific interest evolved into neuroscience and molecular imaging. My scientific work began in the 80's in Poland with semiconductor physics II-VI, working on blue electroluminescence of ZnSe diodes. Then, I studied scintillating compounds for PET detectors, where my semiconductor background was crucial. I discovered LuAP:Ce as a high-density, high-efficiency scintillator. Part of my PhD was done at Boston University, thanks to the Kosciuszko Foundation. During my postdoctoral stay at the Weizmann Institute of Science in Israel, I prepared high-surface gas detectors for visible light. During this stay, I became interested in biology again and worked in neuroscience at the Nencki Institute in Warsaw, Poland, under the direction of Prof. L Kaczmarek. I established the role of matrix-9 metalloproteinases in learning, using electrophysiology methods on brain slices from mice and rats. My current interest is molecular imaging. I evaluated and simulated the operation of the PET camera for small animals and mammography at the Complutense University of Madrid and the University of Seville. I proposed the use of CT equipment to monitor the cryopreservation of organs and tissues, and the use of zinc isotopes for PET in the early detection of soluble beta-amyloid oligomers. I have co-directed two doctoral theses and I have two more in progress.



Education

University education

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

University degree: Master of Science

Name of qualification: Magister (M. Sc.)

Degree awarding entity: Wydział Fizyki, Uniwersytet M. Kopernika, Torun, Polonia

Date of qualification: 01/07/1987

Average mark: Excellent

Foreign qualification: Magister fizyki, allows access to doctoral studies

Doctorates

- 1** **Doctorate programme:** Doktor habilitowany
Degree awarding entity: Faculty of Applied Physics and Mathematics, Gdansk University of Technology
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
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, Cataluña, Spain
Awarding entity: Universitat Pompeu Fabra, Barcelona 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 niepełnościami/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**General teaching experience****1 Type of teaching:** International teaching**Name of the course:** Micro and Nanodosimetry**Type of programme:** Master's degree**Type of subject:** Modular**University degree:** Master in biomedical engineering**Start date:** 20/04/2021**Type of teaching:** Virtual**End date:** 20/05/2021



Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: Gdansk University of Technology

Type of entity: University

Faculty, institute or centre: Faculty of Applied Physics and Mathematics

City of entity: Gdansk, Pomorskie, Poland

Subject language: English

2 Type of teaching: International teaching

Name of the course: Micro and Nanodosimetry - seminar

Type of programme: Master's degree

Type of teaching: Virtual

Type of subject: Modular

University degree: Master in biomedical engineering

Frequency of the activity: 2

Start date: 15/03/2021

End date: 20/05/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 15

Entity: Gdansk University of Technology

Type of entity: University

Faculty, institute or centre: Faculty of Applied Physics and Mathematics

City of entity: Gdansk, Pomorskie, Poland

Subject language: English

3 Type of teaching: International teaching

Name of the course: Lab of dosimetry of ionizing radiation

Type of programme: Engineering

Type of teaching: Practical work (classroom-problems)

University degree: Grade in biomedical engineering

Start date: 04/06/2020

End date: 20/05/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 12

Entity: Gdansk University of Technology

Type of entity: University

Faculty, institute or centre: Faculty of Applied Physics and Mathematics

City of entity: Gdansk, Pomorskie, Poland

Subject language: Polish

4 Type of teaching: Official teaching

Name of the course: various - Basic Physics, Lab 1, Lab 2.

Type of programme: Bachelor's degree

Type of subject: Obligatory

University degree: Master in Physics

Course given: 1-3

Frequency of the activity: 7

Start date: 16/08/1987

End date: 01/10/1996

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 210

Entity: Uniwersytet Mikołaja Kopernika

Type of entity: University

Faculty, institute or centre: Wydział Fizyki

City of entity: Torun, Kujawsko-Pomorskie, Poland

Subject language: Polish

5 Type of teaching: Official teaching

Name of the course: Fundamentos de Imagen e Instrumentación Médica

Type of programme: Master's degree

Type of subject: Optional



University degree: Máster Unv. en Investigación Médica: Clínica y Experimental

Start date: 01/10/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 4

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Escuela Internacional de Posgrado

Subject language: Spanish

6 Type of teaching: Official teaching

Name of the course: Biofísica

Type of subject: Obligatory

University degree: Grado en Bioquímica por la Universidad de Sevilla y Universidad de Málaga

Start date: 01/01/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 18

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Biología

Subject language: Spanish

7 Type of teaching: Official teaching

Name of the course: Física II

Type of subject: Obligatory

University degree: Grado en Ingeniería de la Salud por la Univ. de Málaga y la Univ. de Sevilla

Start date: 01/01/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 27

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Escuela de Ingeniería Informática

Subject language: Spanish

8 Type of teaching: Official teaching

Name of the course: Física Médica

Type of subject: Obligatory

University degree: Grado en Biomedicina Básica y Experimental

Start date: 01/01/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 41

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Medicina

Subject language: Spanish

9 Type of teaching: Official teaching

Name of the course: Física Médica

Type of subject: Optional

University degree: Grado en Medicina

Start date: 01/01/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 55

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Medicina

Subject language: Spanish



- 10** **Type of teaching:** Official teaching
Name of the course: Radiología
Type of subject: Obligatory
University degree: Grado en Odontología
Start date: 01/01/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Odontología
Subject language: Spanish
- 11** **Type of teaching:** Official teaching
Name of the course: Técnicas y Fundamentos de la Imagen Biomédica
Type of programme: Master's degree
Type of subject: Optional
University degree: Máster Universitario en Investigación Biomédica
Start date: 01/10/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Internacional de Posgrado
Subject language: Spanish

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** TFG: RADIOFÁRMACOS PARA EL DIAGNÓSTICO PRECOZ DE LA ENFERMEDAD DE ALZHEIMER
Type of project: End of course project
Co-director of thesis: Marcin Balcerzyk; Javier Vitorica Ferrandez
Entity: Facultad de Medicina, Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalucía, Spain
Student: Marta Garcia Yelo
Obtained qualification: 9,5
Date of reading: 08/06/2022
- 2** **Project title:** PERFUSION DE ORGANOS ASISTIDA MEDIANTE TOMOGRAFIA AXIAL COMPUTERIZADA PARA CRIOPRESERVACION
Type of project: Doctoral thesis
Co-director of thesis: Ramon Risco Delgado; Alberto Olmo; Marcin Balcerzyk
Entity: Departamento de Ingeniería Electronica, Escuela Técnica Superior de Ingeniería, Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalucía, Spain
Student: Pablo Barroso Rodriguez
Obtained qualification: sobresaliente cum laude
Identify key words: physical instrumentation in biomedicine; Bioinstrumentation; Electronics and electrical engineering
Date of reading: 03/06/2022



- 3** **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
- 4** **Project title:** Evaluación del impacto clínico de las reconstrucciones PET-CT sobre la planificación radioterápica para la estandarización intercentros
Type of project: Trabajo fin 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
- 5** **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, Andalucía, Spain
Student: Marta Freire López-Fando
Identify key words: Nuclear medicine; physical instrumentation in biomedicine
Date of reading: 12/07/2017
- 6** **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, Andalucía, Spain
Student: Pablo Acosta Merino
Obtained qualification: Ingeniero
Date of reading: 07/09/2015
- 7** **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 **Type of entity:** University
City of entity: Sevilla, Andalucía, Spain
Student: Ariadna Corral Sousa
Obtained qualification: Ingeniero químico
Identify key words: Industrial chemistry
Date of reading: 24/02/2014



European doctorate: No

Student tutorials

- 1 Name of the programme:** Improved performance
Entity: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalucía, Spain
Number of recognized hours/ECTS credits: 12 **Frequency of the activity:** 1
Number of tutored students: 1
- 2 Name of the programme:** Improved performance
Entity: Universidad de Sevilla **Type of entity:** University
City of entity: Sevilla, Andalucía, Spain
Number of recognized hours/ECTS credits: 600 **Frequency of the activity:** 1
Number of tutored students: 4

Courses and seminars given

- 1 Type of event:** Seminar
Name of the event: Small animal imagining 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:** Training Session
Name of the event: CURSO DE RADIOFARMACIA: RADIOFÁRMACOS PET
City organizing entity: Sevilla, Andalucía, 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

Participation in innovative teaching projects

- 1 Project title:** Desde la imagen preclínica a la clínica
Type of participation: Team member
Contribution to the project: Este proyecto pretende dar una solución docente a la situación impuesta por la pandemia de Covid-19. Se trata de desarrollar una actividad online relacionada con la visita guiada a las instalaciones de adquisición de imagen biomédica del Centro Nacional de Aceleradores (CNA) en Cartuja. Estas prácticas están dirigidas a alumnos de Medicina, Biomedicina, Ingeniería de la Salud y másteres asociados (unos 150 alumnos repartidos en 5 asignaturas de 3 grados diferentes), vinculados con las asignaturas de imagen correspondientes, y que vienen realizándose desde hace 10 años. Se ha preparado la practica en Centro Nacional de Aceleradores - el concepto de la práctica, parte de preparación del guion y participación en la grabación. El servicio de audio video



de la Universidad de Sevilla ha preparado la página web y montó los videos. EN: This project aims to provide a teaching solution to the situation imposed by the Covid-19 pandemic. It is about developing an online activity related to the guided tour of the biomedical image acquisition facilities of the CNA. These internships are aimed at students of Medicine, Biomedicine, Health Engineering and associated master's degrees (about 150 students divided into 5 subjects of 3 different degrees), linked to the corresponding image subjects, and which have been carried out for 10 years. We have prepared the practice at the CNA - the concept of the practice, part of script preparation and participation in the recording.

Start-End date: 01/01/2021 - 30/06/2021

2 Project title: Pasar prácticas de Radiología para Facultad de Odontología a videos de Youtube

Type of participation: Team member

Contribution to the project: TÍTULO: Radiología Intraoral: Uso del equipo y posicionado del detector ISBN: 978-84-17962-44-9 AUTORES: Francisco Sánchez Doblado Marcin Balcerzyk Juan Suarez Campos ENLACE: <https://youtu.be/08diqzxOhFI> TÍTULO: Bases y Aplicaciones de los equipos de Radiología Médica ISBN: 978-84-17962-61-6 AUTOR: Daniel Fernández Molina Agradecimientos (Grabación y premontaje): Marcin Balcerzyk VIDEO: <https://youtu.be/BYeLueXtCO4> Vídeo 3060 (58' 25") TÍTULO: Manipulación de Imágenes en Radiología Dental ISBN: 978-84-17962-60-9 AUTORES: Marcin Balcerzyk Francisco Sánchez Doblado ENLACE: https://youtu.be/XLo0Ka9_eHU Vídeo 6197-Romexis (57' 26")

Start-End date: 01/09/2020 - 31/01/2021

Other activities/achievements not included above

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

Other teaching merits

Clases en Polonia en años 1987-1996. 1470 horas en 7 cursos. Se adjunta el justificante del rector de la Universidad de Nicola Copernico en Polonia con traducción jurada.

Entidad de realización: Uniwersytet Mikolaja Kopernika

País entidad realización: Polonia

Curso que se imparte: 1-3

Titulación universitaria: Master in Physics

Nombre de la asignatura/curso: varios - Basic Physics, Lab 1, Lab 2.

Tipo de programa: Licenciatura

Nº de horas/créditos ECTS: 2100 horas

Frecuencia de la actividad: 7 años

Fecha de inicio: 16/08/1987

C. Autón./Reg. entidad realización: Kujawsko-Pomorskie

Ciudad entidad realización: Torun

Fecha de finalización: 01/10/1996

Tipo de docencia: Docencia oficial

Tipo de entidad: Universidad

Facultad, instituto, centro: Wydział Fizyki

Tipo de horas/créditos ECTS: Horas



Tipo de asignatura: Obligatoria
Idioma de la asignatura: Polaco

EN: Classes in Poland in the years 1987-1996. 1470 hours in 7 courses.

Producing entity:Uniwersytet Mikolaja Kopernika Country of the host country: Poland Course taught: 1-3 University degree: Master in Physics Name of the subject/course: various - Fundamentals of Physics, Laboratory 1, Laboratory 2.

Type of programme: Bachelor's degree Number of hours: 1470 hours Frequency of activity: 7 years Start date: 16/08/1987 Organisation city: Torun, Poland End date: 01/10/1996 Type of teaching: Official teaching Type of entity: University Faculty, institute, Type of subject: Compulsory Language of the subject: Polish

Plurality, interdisciplinarity and teaching complexity

Clases en Polonia en años 1987-1996. 1470 horas en 7 cursos. Se adjunta el justificante del rector de la Universidad de Nicola Copernico en Polonia con traduccion jurada.

Entidad de realización:Uniwersytet Mikolaja Kopernika

País entidad realización: Polonia

Curso que se imparte: 1-3

Titulación universitaria: Master in Physics

Nombre de la asignatura/curso:

varias - Fundamentos de Fisica, Laboratorio 1, Laboratorio 2.

Tipo de programa: Licenciatura

Nº de horas/créditos ECTS: 1470 horas

Frecuencia de la actividad: 7 años

Fecha de inicio: 16/08/1987

C. Autón./Reg. entidad realización: Kujawsko-Pomorskie

Ciudad entidad realización: Torun, Polonia

Fecha de finalización: 01/10/1996

Tipo de docencia: Docencia oficial

Tipo de entidad: Universidad

Facultad, instituto, centro: Facultad de Fisica

Tipo de horas/créditos ECTS: Horas

Tipo de asignatura: Obligatoria

Idioma de la asignatura: Polaco

EN: Classes in Poland in the years 1987-1996. 1470 hours in 7 courses.

Producing entity:Uniwersytet Mikolaja Kopernika Country of the host country: Poland Course taught: 1-3 University degree: Master in Physics Name of the subject/course: various - Fundamentals of Physics, Laboratory 1, Laboratory 2.



Type of programme: Bachelor's degree Number of hours/ECTS credits: 1470 hours Frequency of activity: 7 years Start date: 16/08/1987 C. Auton./Reg. entity realisation: Kujawsko-Pomorskie Organisation city: Torun, Poland End date: 01/10/1996 Type of teaching: Official teaching Type of entity: University Faculty, institute, centre: Facultad de Física Type of ECTS hours/credits: Hours Type of subject: Compulsory Language of the subject: Polish

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, Andalucía, Spain

Entity where project took place: SERVICIO ANDALUZ DE LA SALUD. CAN

City of entity: Sevilla, Andalucía, 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. Prognosis of the patient with severe subarachnoid hemorrhage from the CT-scan emergency room, multi-parameter bivariate model and its application website..

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, Andalucía, Spain

Affiliation entity: Universidad de Sevilla

Type of entity: University

Narrative explanation: Se ha desarrollado y patentado el metodo "Monitorización mediante TAC de procesos de preservación en frío y criopreservación de material biológico". Patente ES2529265B1 con fecha de prioridad 2013-07-18 EN: The method "CT monitoring of cold preservation processes and cryopreservation of biological material" has been developed and patented. Patent ES2529265B1 with priority date 2013-07-18

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: INNOVATIVE PET SYSTEM FOR PROTON THERAPY IMAGING AND RADIATION EVALUATION

Degree of contribution: Researcher

Entity where project took place: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): Gonzalez Martinez

Funding entity or bodies:

Generalitat Valenciana

Type of entity: Body, others

Start-End date: 01/10/2024 - 31/12/2026

Total amount: 249.946 €

2 Name of the project: Hemorrhage Outcome Predictor, a tool to save lives

Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services **Geographical area:** Regional

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

Entity where project took place: CT Provision SLU **Type of entity:** Business

City of entity: País Vasco, Spain

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

Nº of researchers: 1

Funding entity or bodies:

AGENCIA VASCA DE DESARROLLO EMPRESARIAL

Type of participation: Co-ordinator

Name of the programme: Ekintzaile

Code according to the funding entity: EK-00062-2024

Start-End date: 01/09/2024 - 28/02/2026

Duration: 18 months

Total amount: 30.000 €

Applicant's contribution: The "HOP" project in Ekintzaile program of Basque Government, led by Marcin Balcerzyk of CT Provision SLU, is a predictive tool designed to forecast vasospasm in patients with subarachnoid hemorrhage (SAH). This innovative solution aims to enhance patient prognosis and alleviate healthcare costs. With a budget of 30,000 euros and a two-year timeline, the project's algorithm calculates the probability of vasospasm and mortality based on patient data. Preliminary studies show promising results. The economic impact of vasospasm is significant, and the HOP tool could potentially be cost-effective by reducing the number of ICU days for SAH patients.

3 Name of the project: Predictor de resultado de hemorragia

Type of project: Demonstration, pilot projects, conceptual formulations and design of processes and services **Geographical area:** Regional

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

Entity where project took place: CT Provision SLU **Type of entity:** Business

City of entity: País Vasco, Spain

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

Nº of researchers: 1

**Funding entity or bodies:**

Diputación Foral de Álava

Type of entity: Provincial government**Type of participation:** Co-ordinator**Name of the programme:** Emprender en Álava**Code according to the funding entity:** 01024001-2025/00082**Start-End date:** 01/09/2024 - 15/12/2025**Duration:** 16 months**Total amount:** 18.250 €

Applicant's contribution: This project comprises a comprehensive business feasibility plan for an innovative AI-based medical tool designed to predict vasospasm and mortality outcomes in patients with subarachnoid hemorrhage, detailing its clinical need, technological development, market strategy, financial projections, risk analysis, and expected impact on healthcare efficiency and patient outcomes, with plans for CE certification and market entry in Europe and the US.

4 Name of the project: IAHSA - Development of an AI-based Deep Learning tool through training with CT images and clinical data that predicts the outcome of subarachnoid hemorrhage and intracranial hemorrhage

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

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

Entity where project took place: Instituto de Investigación Sanitaria Bioaraba

Type of entity: Public Research Body**City of entity:** Vitoria-Gasteiz, País Vasco, Spain**Name principal investigator (PI, Co-PI....):** Balcerzyk; Tejero Mogena**Nº of researchers:** 1**Funding entity or bodies:**

Fundación Vasca de Innovación e Investigación Sanitarias, BIOEF

Type of entity: Foundation**Type of participation:** Co-ordinator**Name of the programme:** Medtech**Code according to the funding entity:** MTVD24/BA/003**Start-End date:** 01/12/2024 - 31/03/2025**Total amount:** 8.951 €**Percentage as grant:** 100**Dedication regime:** Part time

5 Name of the project: Measurement of boron concentration in vivo for Boron Neutron Capture Therapy with compounds containing -BF_n moiety using F-19 signal of MRI

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

Degree of contribution: Scientific coordinator

Entity where project took place: CIC BiomaGUNE

Type of entity: R&D Centre**City of entity:** Donostia-San Sebastian, País Vasco, Spain**Name principal investigator (PI, Co-PI....):** Balcerzyk; Oadro; Ruiz Cabello**Nº of researchers:** 3**Funding entity or bodies:**

Singular Scientific-Technical Infrastructure (ICTS) Distributed Biomedical Imaging Network-ReDIB

Type of entity: R&D Centre**City funding entity:** Donostia-San Sebastian, Spain**Type of participation:** Principal investigator**Start-End date:** 01/12/2024 - 31/03/2025**Dedication regime:** Part time



- 6** **Name of the project:** HOP2Market
Entity where project took place: Bioaraba **Type of entity:** Administrative Body of the National Health System
Name principal investigator (PI, Co-PI....): Marcin Balcerzyk
Funding entity or bodies: Instituto de Salud Carlos III **Type of entity:** Public Research Body
Type of participation: Principal investigator
Name of the programme: ITEMAS
Code according to the funding entity: HOP2Market
Start-End date: 01/07/2023 - 31/12/2023
Total amount: 22.500 €
Applicant's contribution: <https://itemas.org/hop2market/>
- 7** **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, Andalucía, Spain
Name principal investigator (PI, Co-PI....): Manuel Ocaña Jurado; Ana Becerro
Nº 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
- 8** **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, Andalucía, Spain
Name principal investigator (PI, Co-PI....): Antonio Leal Plaza
Nº 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
- 9** **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, Cataluña, 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

10 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, Andalucía, 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

11 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, Andalucía, 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 €



- 12 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
- 13 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 Cientificas
Type of entity: State agency
City funding entity: Madrid, Madrid, Comunidad de, 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 €
- 14 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

- 15 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, Madrid, Comunidad de, 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 €
- 16 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 €
- 17 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, Madrid, Comunidad de, 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
- 18 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 €

19 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 €

20 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 €

21 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 Moszyński

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 €

22 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 Moszyński

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

23 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 Moszyński

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

24 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 €

25 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 Moszyński

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

26 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

N° 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

N° of researchers: 1

Funding entity or bodies:

Oncovision

Type of entity: Business

City funding entity: Valencia, Comunitat Valenciana, 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

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

City of entity: Otwock, Mazowieckie, Poland

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

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

City of entity: Otwock, Mazowieckie, Poland

Name principal investigator (PI, Co-PI....): MARCIN BALCERZYK; Marek Moszyński

Nº 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 AND SYSTEM FOR MEASURING AND/OR VERIFYING THE RADIATION DOSE RECEIVED BY A PATIENT AFTER PARTICLE THERAPY TREATMENT

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Marcin Balcerzyk; Marta Freire López-Fando; Antonio Javier González Martínez

Entity holder of rights: Gobierno Vasco

Nº of application: EP25382365

Country of inscription: Spain

Date of register: 08/04/2025

Relevant results: A novel method and system utilize PET imaging to measure and verify radiation doses received by patients after particle therapy, specifically proton and helium ion treatments, by detecting naturally produced fluorine-18 isotopes in tissues without the need for externally administered isotopes, enabling accurate, non-invasive dose mapping typically performed 60 to 150 minutes post-radiation to enhance treatment safety and efficacy.
- 2 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: SERVICIO ANDALUZ DE LA SALUD

Reference/registry code: EP3664027B1 **Nº of application:** PCT/ES2018/07053

Country of inscription: Spain

Date of register: 31/07/2017

Conferral date: 30/09/2022

Nº of patent: US11344260B2

Spanish patent: Yes **EU patent:** Yes

International non-EU patent: Yes **PCT patent:** Yes

Companies: Qmenta

Products: <https://catalog.qmenta.com/tool/subarachnoid-hemorrhage-outcome-prediction-sah-tool-fs>; web app <http://sahcna.us.es>

Identify key words: Clinical medicine; Medical equipment
- 3 Title registered industrial property:** CT monitoring of cold preservation and cryopreservation processes of biological material

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 **Nº of application:** ES2529265

Country of inscription: Spain, Andalucía

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 **Results:** Failure

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

Knowledge transfer and exchange

Para explotar los resultados de la patente "Método para predecir o pronosticar el riesgo de muerte o vasoespasmio en un paciente con hemorragia subaracnoidea" (US11344260B2 & EP3664027B1) Marcin ha constituido el 202-04-15 una empresa CT Provision S.L.U. (CIF B16386534) con sede en Álava (País Vasco).

EN: To exploit the results of the patent "Method to predict or prognosis the risk of death or vasospasm in a patient with subarachnoid hemorrhage" (US11344260B2 & EP3664027B1) Marcin has incorporated on 202-04-15 a

Scientific and technological activities

Scientific production

- 1 **H index:** 29
Date of application: 09/06/2025
Source of H-Index: WOS
- 2 **H index:** 33
Date of application: 09/06/2025
Source of H-Index: GOOGLE SCHOLAR
- 3 **H index:** 31
Date of application: 09/06/2025
Source of H-Index: SCOPUS

Publications, scientific and technical documents

- 1 Cortés-Ferre L; Gutiérrez-Naranjo MA; Egea-Guerrero JJ; Pérez-Sánchez S; Balcerzyk M. Deep Learning Applied to Intracranial Hemorrhage Detection. Journal of imaging. 9, Basel(Switzerland): MDPI, 2023. Available on-line at: <<http://doi.org/10.3390/jimaging9020037>>. ISSN 2313-433X
DOI: 10.3390/jimaging9020037
PMID: 36826956
Type of production: Scientific paper
Position of signature: 5

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

Corresponding author: Yes

Total no. authors: 5





Impact source: SCOPUS (SJR)
Impact index in year of publication: 5.9
Position of publication: 73

Category: Radiology, Nuclear Medicine and Imaging
Journal in the top 25%: No
No. of journals in the cat.: 333

Source of citations: SCOPUS

Citations: 24

Relevant results: The impact factor in the year of publication was 5.9 in the Radiology, Nuclear Medicine and Imaging category. The study, indexed in Scopus in the thematic category of "Imaging Science", has 17 citations, which is significantly higher than the average of about 2 citations that would normally be expected for publications in this category in 2023. Therefore, it triples the citation expectations in its field. The application of the Field-Weighted Citation Impact (FWCI) indicator, which contrasts the citations received with those expected, results in a FWCI of 2.86, thus evidencing the exceptional impact of the work in the area of "Object Detection; Deep learning; I will promissory note." He has achieved an outstanding 90th percentile in Scopus in the category of "Object Detection; Deep learning; IOU", which means that it is above 90% of publications in terms of citations, or in other words, in the 10% of the most cited publications in its area in the year of its publication. This underscores its significant impact in a highly specialized and competitive field. SciVal Theme Protagonist of "Object Detection; Deep learning; promissory note" is 99.998%. It is an indicator that shows the current moment of a topic. It is calculated by weighting 3 metrics for articles grouped into a topic: citation count, Scopus views, and average citation score.

Relevant publication: Yes

- 2** Jimenez-Ortega, Elisa; Aguera, Raquel; Ureba, Ana; Balcerzyk, Marcin; Wals-Zurita, Amadeo; Garcia-Gomez, Francisco Javier; Leal, Antonio. Implications of the Harmonization of [F-18]FDG-PET/CT Imaging for Response Assessment of Treatment in Radiotherapy Planning. TOMOGRAPHY. 8, pp. 1097 - 1112. GRAPHO PUBLICATIONS, 2022. ISSN 2379-1381

DOI: 10.3390/tomography8020090

PMID: 35448724

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 7

Impact source: WOS (JCR)

Impact index in year of publication: 3.358

Position of publication: 54

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: Radiology, Nuclear Medicine and Imaging

Journal in the top 25%: No

No. of journals in the cat.: 133

Citations: 1

Relevant results: Esta publicación muestra la influencia del uso de la reconstrucción PET en el estándar EARL en la planificación de la radioterapia gamma. Este artículo es una extensión de la tesis de maestría del segundo autor. En el año de publicación del trabajo, 2022, se encontraba en la posición 100 de 135, tercer cuartil (Q3), en la categoría Ciencia de la Imagen en el percentil 26,3%. El factor de impacto en el año de publicación fue de 1,9. EN: This publication shows the influence of the use of PET reconstruction in the EARL standard on the planning of gamma radiotherapy. This article is an extension of the second author's master's thesis. In the year of publication of the work, 2022, it was in position 100 out of 135, third quartile (Q3), in the Imaging Science category in the 26.3% percentile. The impact factor in the year of publication was 1.9.

Relevant publication: Yes

- 3** Confalonieri, Laura; Erhard, Alvaro; Fallarini, Silvia; Compostella, Federica; del Grosso, Erika; Panza, Luigi; Imperio, Daniela; Balcerzy, Marcin. Organotrifluoroborate Sugar Conjugates for a Guided Boron Neutron Capture Therapy: From Synthesis to Positron Emission Tomography. ACS OMEGA. 7, pp. 48340 - 48348. American Chemical Society, 2022. ISSN 2470-1343

DOI: 10.1021/acsomega.2c06551

PMID: 36591151

Type of production: Scientific paper

Position of signature: 7

Total no. authors: 8

Format: Journal

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

Corresponding author: Yes

Impact source: SCOPUS (SJR)
Impact index in year of publication: 5.9
Position of publication: 75

Source of citations: WOS

Category: General Chemical Engineering
Journal in the top 25%: No
No. of journals in the cat.: 272

Citations: 4

Relevant results: En esta publicación hemos demostrado que el análogo de glucosa que contiene la fracción -BF3 puede marcarse con F-18 y usarse en animales pequeños para la terapia de captura de neutrones de boro sin depositar F-18 libre. En el año de publicación del trabajo, 2020, se encontraba en la posición 69 de 178, segundo cuartil (Q2), en la categoría Química Multidisciplinaria en el percentil 61,5%. El factor de impacto en el año de publicación fue de 4,1. El artículo indexado en Scopus tiene 2 citas SciVal Tema Protagonismo de "Boro; Fuentes de Neutrones, Borocaptato" es del 95,355%. Es un indicador que muestra el momento actual de un tema. Se calcula ponderando 3 métricas para los artículos agrupados en un tema: recuento de citas, vistas de Scopus y puntuación media de citas.

Relevant publication: Yes

- 4 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: WOS (JCR)

Impact index in year of publication: 5.436

Position of publication: 5

Source of citations: SCOPUS

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.: 46

Citations: 19

Relevant results: La revista es de decil 1 con percentil 90,22%

Relevant publication: Yes

- 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: WOS (JCR)

Impact index in year of publication: 6.60

Position of publication: 53

Source of citations: SCOPUS

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

Citations: 9

Relevant results: En este trabajo examinamos cómo a partir de la misma tomografía por emisión de positrones se puede determinar la concentración de actividad de F-18 y B-10 en el tejido, lo cual es vital para la planificación exacta del tratamiento de radiación en la terapia de captura de neutrones de boro. En el año de publicación del trabajo, 2020, se encontraba en la posición 53 de 195, segundo cuartil (Q2), en la categoría Biología Celular en el percentil 73,08%. El factor de impacto en el año de publicación fue de 6,6. SciVal Tema Protagonismo de "Boro; Fuentes de



Neutrones, Borocaptato" es del 95,355%. Es un indicador que muestra el momento actual de un tema. Se calcula ponderando 3 métricas para los artículos agrupados en un tema: recuento de citas, vistas de Scopus y puntuación media de citas. EN: In this work we examine how from the same positron emission tomography the concentration of F-18 and B-10 activity in tissue can be determined, which is vital for the accurate planning of radiation treatment in boron neutron capture therapy. In the year of publication of the work, 2020, it was in position 53 out of 195, second quartile (Q2), in the Cell Biology category in the 73.08% percentile. The impact factor in the year of publication was 6.6. SciVal Theme Starring in "Boro; Neutron Sources, Borocaptate" is 95.355%.

Relevant publication: Yes

- 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

Position of signature: 7

Total no. authors: 8

Impact source: WOS (JCR)

Impact index in year of publication: 5.076

Position of publication: 35

Source of citations: SCOPUS

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, APPLIED

Journal in the top 25%: Yes

No. of journals in the cat.: 160

Citations: 12

Relevant results: This article describes the preparation and characterization of various types of nanoparticles for use in mixed medical and preclinical imaging, near-infrared luminescence, and CT modalities. This approach allows for bidirectional quantification of the applied nanoparticles: CT allows for density change and thus concentration quantification, while MRI and luminescence provide high probe sensitivity. In the year of publication of the work, 2020, it was in position 54 out of 171, second quartile (Q2), in the category of Applied Physics in the 68.71% percentile. The impact factor in the year of publication was 5.076. The article indexed in Scopus has 7 citations SciVal Theme Prominence of "Upconversion; Luminescence; Erbium" is 99.678%. It is an indicator that shows the current moment of a topic. It is calculated by weighting 3 metrics for articles grouped into a topic: citation count, Scopus views, and average citation score.

Relevant publication: Yes

- 7** D. González-Mancebo; A.I. Becerro; A. Corral; S. García-Embido; 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: 10.1016/j.jcis.2020.03.101

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 8

Impact source: WOS (JCR)

Impact index in year of publication: 8.128

Position of publication: 32

Source of citations: SCOPUS

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: 8

Relevant results: En este trabajo se describe la preparación y caracterización de varios tipos de nanopartículas para ser utilizadas en modalidades mixtas de imágenes médicas y preclínicas: TC y RMN. En el año de publicación del trabajo, 2020, se encontraba en la posición 32 de 162, primer cuartil (Q2), en la categoría Química Física en el percentil 80,56%. El factor de impacto en el año de publicación fue de 8.128. El artículo indexado en Scopus



tiene 7 citas SciVal Tema Prominencia de "Upconversion; Luminiscencia; Erblio" es del 99,678%. Es un indicador que muestra el momento actual de un tema. Se calcula ponderando 3 métricas para los artículos agrupados en un tema: recuento de citas, vistas de Scopus y puntuación media de citas. EN: This paper describes the preparation and characterization of several types of nanoparticles to be used in mixed medical and preclinical imaging modalities: CT and MRI. In the year of publication of the work, 2020, it was in position 32 out of 162, first quartile (Q2), in the Physical Chemistry category in the 80.56% percentile. The impact factor in the year of publication was 8,128. The article indexed in Scopus has 7 citations SciVal Theme Prominence of "Upconversion; Luminescence; Erbium" is 99.678%. It is an indicator that shows the current moment of a topic. It is calculated by weighting 3 metrics for articles grouped into a topic: citation count, Scopus views, and average citation score.

Relevant publication: Yes

- 8** 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: SCOPUS (SJR)

Impact index in year of publication: 5.2

Position of publication: 10

Source of citations: SCOPUS

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%: Yes

No. of journals in the cat.: 91

Citations: 6

Relevant results: En este trabajo examinamos cómo la inclusión de la PET/TC [F-18]FDG puede influir en la planificación del tratamiento con radiación gamma, especialmente si se utiliza la reconstrucción PET EARL armonizada. En el año de publicación del trabajo, 2019, se ubicó en la posición 27 de 71, segundo cuartil (Q2), en la categoría Ciencias Multidisciplinarias en el percentil 62,68%. El factor de impacto en el año de publicación fue de 2,74. El artículo indexado en Scopus tiene 5 citas SciVal Topic Prominencia de " Fluoromisonidazol; Hipoxemia; "Fluoroazomicina Abinósido" es del 94,955%. Es un indicador que muestra el momento actual de un tema. Se calcula ponderando 3 métricas para los artículos agrupados en un tema: recuento de citas, vistas de Scopus y puntuación media de citas. EN: In this paper, we examine how the inclusion of F-F-FDG PET/CT may influence gamma radiation treatment planning, especially if harmonized EARL PET reconstruction is used. In the year of publication of the work, 2019, it was ranked 27 out of 71, second quartile (Q2), in the Multidisciplinary Sciences category in the 62.68% percentile. The impact factor in the year of publication was 2.74. The article indexed in Scopus has 5 citations SciVal Topic Prominence of "Fluoromisonidazole; Hypoxemia; "Fluoroazomycin Abinoside" is 94.955%.

Relevant publication: Yes

- 9** 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

Impact source: SCOPUS (SJR)

Impact index in year of publication: 2.8

Position of publication: 126

Format: Journal

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

Corresponding author: No

Category: Radiology, Nuclear Medicine and Imaging

Journal in the top 25%: No

No. of journals in the cat.: 284

**Source of citations:** SCOPUS**Citations:** 11

Relevant results: En este trabajo hemos examinado el nuevo radiotrazador basado en F-18 para la detección de beta amiloide en el cerebro y su farmacocinética. SciVal Tema Protagonismo de " Florbetaben; Enfermedad de Alzheimer" es del 99,199%. Es un indicador que muestra el momento actual de un tema. Se calcula ponderando 3 métricas para los artículos agrupados en un tema: recuento de citas, vistas de Scopus y puntuación media de citas. EN: In this work we have examined the new F-18-based radiotracer for the detection of amyloid beta in the brain and its pharmacokinetics. SciVal Theme Starring in "Florbetaben; Alzheimer's disease" is 99.199%. It is an indicator that shows the current moment of a topic. It is calculated by weighting 3 metrics for articles grouped into a topic: citation count, Scopus views, and average citation score.

Relevant publication: Yes

- 10** 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:** WOS (JCR)**Impact index in year of publication:** 6.747**Position of publication:** 24**Source of citations:** SCOPUS**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:** 61

- 11** 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:** WOS (JCR)**Impact index in year of publication:** 7.453**Position of publication:** 15**Source of citations:** SCOPUS**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.:** 200**Citations:** 432

- 12** Dominika Skwierawska; José Antonio López-Valverde; Marcin Balcerzyk; Antonio Leal. Clinical Viability of Boron Neutron Capture Therapy for Personalized Radiation Treatment. Cancers. 14 - 12, MDPI, 2022. Available on-line at: <<https://www.mdpi.com/2072-6694/14/12/2865>>. ISSN 2072-6694

DOI: 10.3390/cancers14122865**Type of production:** Review**Position of signature:** 3**Total no. authors:** 4**Impact source:** SCOPUS (SJR)**Impact index in year of publication:** 7.4**Position of publication:** 90**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Oncology**Journal in the top 25%:** Yes**No. of journals in the cat.:** 366

Source of citations: SCOPUS

Citations: 30

Relevant results: In this publication we have reviewed the possibility of using Boron Neutron Capture Therapy in a personalized treatment. The publication was a modified and expanded version of the first author's Master's Thesis. In the year of publication of the work, 2022, it was ranked 72nd out of 241, second quartile (Q2), in the Oncology Category in the 70.3% percentile. The impact factor in the year of publication was 5.2. Despite its recent publication in 2022, our work is receiving great attention from the scientific community and the study, indexed in Scopus in the thematic category of "Oncology", has 13 citations. It has reached the 76th percentile in Scopus in the category of "Oncology", which means that it is above 76% of publications in terms of citations, or what is the same, in the 24% of the most cited publications in its area in the year of its publication. SciVal Theme Starring in "Boro; Neutron Sources, Borocaptate" is 95.355%. It is an indicator that shows the current moment of a topic. It is calculated by weighting 3 metrics for articles grouped into a topic: citation count, Scopus views, and average citation score.

Relevant publication: Yes

- 13** 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

Position of signature: 7

Total no. authors: 13

Impact source: WOS (JCR)

Impact index in year of publication: 3.253

Position of publication: 39

Format: Journal

Degree of contribution: Author or co-author of review

Corresponding author: No

Category: Science Edition - BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 94

Source of citations: SCOPUS

Citations: 48

Relevant results: In this work we have reviewed the theranostic aspects of Boron Neutron Capture Therapy where the use of the same molecule or particle is necessary in diagnosis (especially in PET) and in therapy. In the year of publication of the work, 2021, it was in position 39 out of 94, second quartile (Q2), in the Biology Category in the 59.04% percentile. The impact factor in the year of publication was 3,253. Despite its recent publication in 2021, our work is receiving great attention from the scientific community and the study, indexed in Scopus in the thematic category of "Oncology", has 32 citations. It has reached the 88th percentile in Scopus in the "Oncology" category, which means that it is above 88% of publications in terms of citations, or in other words, in the 12% of the most cited publications in its area in the year of its publication. SciVal Theme Starring in "Boro; Neutron Sources, Borocaptate" is 95.355%. It is an indicator that shows the current moment of a topic. It is calculated by weighting 3 metrics for articles grouped into a topic: citation count, Scopus views, and average citation score.

Relevant publication: Yes

- 14** Erhard, A.; Confalonieri, L.; Imperio, D.; Balcerzyk, M.; Panza, L.. Organotrifluoroborate sugar conjugates for a guided boron neutron capture therapy: radioisotopic exchange reactions for PET imaging. EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING. 50, pp. S424 - S424. SPRINGER, 2023. ISSN 1619-7070

Type of production: Scientific paper

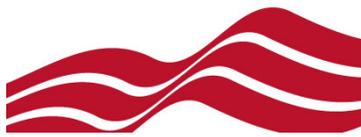
Total no. authors: 5

Source of citations: SCOPUS

Format: Journal

Citations: 4

Relevant results: En esta publicación hemos demostrado que el análogo de glucosa que contiene la fracción -BF3 puede marcarse con F-18 y usarse en animales pequeños para la terapia de captura de neutrones de boro sin depositar F-18 libre. En el año de publicación del trabajo, 2020, se encontraba en la posición 69 de 178, segundo cuartil (Q2), en la categoría Química Multidisciplinaria en el percentil 61,5%. El factor de impacto en el año de publicación fue de 4,1. El artículo indexado en Scopus tiene 2 citas SciVal Tema Protagonismo de "Boro; Fuentes de Neutrones, Borocaptato" es del 95,355%. Es un indicador que muestra el momento actual de un tema. EN: In this publication we have shown that the glucose analogue containing the -BF3 fraction can be labeled with F-18 and used in small animals for boron neutron capture therapy without depositing free F-18. In the year of publication of the work, 2020, it was ranked 69 out of 178, second quartile (Q2), in the Multidisciplinary Chemistry category in the 61.5% percentile. The impact factor in the year of publication was 4.1. The article indexed in Scopus has 2 citations SciVal Theme Protagonism of "Boro; Neutron Sources, Borocaptate" is 95.355%. It is an indicator that shows the



current moment of a topic. It is calculated by weighting 3 metrics for articles grouped into a topic: citation count, Scopus views, and average citation score.

- 15** González-Mancebo D; Becerro A.I.; Calderón-Olvera R.M.; Cantelar E.; Corral A.; Balcerzyk M; de la Fuente J.M; Ocaña M.. Neodymium doped lanthanide fluoride nanoparticles as contrast agents for luminescent bioimaging and X-ray computed tomography. Boletín de la Sociedad Española de Cerámica y Vidrio. 2021. ISSN 03663175

DOI: 10.1016/j.bsecv.2021.07.004

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 8

Impact source: WOS (JCR)

Impact index in year of publication: 3,483

Position of publication: 6

Source of citations: SCOPUS

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, CERAMICS

Journal in the top 25%: Yes

No. of journals in the cat.: 30

Citations: 5

- 16** Gómez-Camacho J; 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. ISSN 2190-5444

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

Type of production: Scientific paper

Position of signature: 10

Total no. authors: 11

Impact source: WOS (JCR)

Impact index in year of publication: 3.758

Position of publication: 30

Source of citations: SCOPUS

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.: 86

Citations: 15

- 17** 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: WOS (JCR)

Impact index in year of publication: 1.362

Position of publication: 22

Source of citations: SCOPUS

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

Citations: 3

- 18** 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: WOS (JCR)

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

- 19** 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 (SJR)

Impact index in year of publication: 2,54

Position of publication: 63

Impact source: WOS (JCR)

Impact index in year of publication: 2.584

Position of publication: 76

Source of citations: SCOPUS

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

Citations: 22

- 20** Gonzalez-Mancebo, Daniel; Isabel Becerro, Ana; Corral, Ariadna; Balcerzyk, Marcin; Ocana, Manuel. Luminescence and X-ray Absorption Properties of Uniform Eu³⁺:(H₃O)Lu₃F₁₀ Nanoprobes. 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: WOS (JCR)

Impact index in year of publication: 4.034

Position of publication: 71

Source of citations: SCOPUS

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

Citations: 6

- 21** 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

Format: Journal

Position of signature: 8

Total no. authors: 9

Impact source: WOS (JCR)

Impact index in year of publication: 6.361

Position of publication: 29

Source of citations: SCOPUS

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

Citations: 20

- 22** 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: WOS (JCR)

Impact index in year of publication: 2.93

Position of publication: 13

Source of citations: SCOPUS

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: 27

- 23** 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: WOS (JCR)

Impact index in year of publication: 2.299

Position of publication: 11

Source of citations: SCOPUS

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: 10

- 24** 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: WOS (JCR)

Impact index in year of publication: 2.141

Position of publication: 29

Source of citations: SCOPUS

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: 19



- 25** 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: WOS (JCR)
Impact index in year of publication: 6.361
Position of publication: 29
Source of citations: SCOPUS
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: 17
- 26** 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
Position of signature: 3
Total no. authors: 9
Impact source: WOS (JCR)
Impact index in year of publication: 1.343
Position of publication: 15
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 34
Citations: 8
- 27** 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%2fjcco%2fhyx189&partnerID=40&md5=070a90821b08f010a288b22b570ba3a9>>. ISSN 03682811
DOI: 10.1093/jjco/hyx189
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 4
Impact source: WOS (JCR)
Impact index in year of publication: 2.183
Position of publication: 171
Impact source: SCOPUS (SJR)
Impact index in year of publication: 2.37
Position of publication: 73
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
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
Citations: 5



- 28** 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
Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 2.507
Position of publication: 10
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - chemistry inorganic and
Journal in the top 25%: No
No. of journals in the cat.: 33
Citations: 6
- 29** 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
Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 1.336
Position of publication: 10
Source of citations: SCOPUS
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%: No
No. of journals in the cat.: 33
Citations: 4
- 30** 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
Total no. authors: 7
Impact source: WOS (JCR)
Impact index in year of publication: 1.92
Position of publication: 28
Impact source: WOS (JCR)
Impact index in year of publication: 1.92
Position of publication: 52
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - BIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 86
Category: Science Edition - PHYSIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 83
Citations: 19

- 31** 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
Total no. authors: 12
Impact source: WOS (JCR)
Impact index in year of publication: 5,578
Position of publication: 5
Source of citations: SCOPUS
- 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
Citations: 10
- 32** 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
Total no. authors: 4
Impact source: WOS (JCR)
Impact index in year of publication: 4.609
Position of publication: 52
Source of citations: SCOPUS
- 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
Citations: 46
- 33** 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
- 34** Anna Kiryk; Gabriela Mochol; Robert K. Filipkowski; Marcin Wawrzyniak; Victoria Lioudyno; 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
Total no. authors: 13
Impact source: WOS (JCR)
Impact index in year of publication: 3.953
Position of publication: 32
Source of citations: SCOPUS
- 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
Journal in the top 25%: Yes
No. of journals in the cat.: 192
Citations: 24



- 35** 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
- 36** Balcerzyk, Marcin; Kontaxakis, George; Delgado, Mercedes; Garcia-Garcia, Luis; Correcher, Carlos; Gonzalez, Antonio J.; Gonzalez, Aurora; Rubio, Jose L.; Benlloch, 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
Total no. authors: 10 **Corresponding author:** Yes
Impact source: WOS (JCR) **Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION
Impact index in year of publication: 1.317 **Journal in the top 25%:** No
Position of publication: 19 **No. of journals in the cat.:** 58
Impact source: WOS (JCR) **Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY
Impact index in year of publication: 1.317 **Journal in the top 25%:** No
Position of publication: 20 **No. of journals in the cat.:** 79
Source of citations: SCOPUS **Citations:** 31
- 37** 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
Total no. authors: 7 **Corresponding author:** No
Impact source: WOS (JCR) **Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION
Impact index in year of publication: 2.102 **Journal in the top 25%:** Yes
Position of publication: 7 **No. of journals in the cat.:** 58
Source of citations: SCOPUS **Citations:** 12
- 38** Moszynski, Marek; Klamra, Włodzimierz; Wolski, Dariusz; Czarnacki, Wiesław; 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
Position of signature: 6
Total no. authors: 6
Source of citations: SCOPUS **Citations:** 34



- 39** 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
Position of signature: 4
Total no. authors: 10
Impact source: WOS (JCR)
Impact index in year of publication: 1.259
Position of publication: 3
Impact source: WOS (JCR)
Impact index in year of publication: 1.259
Position of publication: 54
Source of citations: SCOPUS
- 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.: 32
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 208
Citations: 58
- 40** 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 1558-1578
- Type of production:** Scientific paper
Position of signature: 2
Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 1.259
Position of publication: 3
Impact source: WOS (JCR)
Impact index in year of publication: 1.259
Position of publication: 54
Source of citations: SCOPUS
- 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.: 32
Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC
Journal in the top 25%: No
No. of journals in the cat.: 208
Citations: 55
- 41** 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
Position of signature: 2
Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 1.224
Position of publication: 14
Impact source: WOS (JCR)
Impact index in year of publication: 1.224
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
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



Position of publication: 15

Impact source: WOS (JCR)

Impact index in year of publication: 1.224

Position of publication: 27

Impact source: WOS (JCR)

Impact index in year of publication: 1.224

Position of publication: 4

Source of citations: SCOPUS

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: 71

- 42** 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

DOI: 10.1109/TNS.2005.856744

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Impact source: WOS (JCR)

Impact index in year of publication: 1.259

Position of publication: 3

Impact source: WOS (JCR)

Impact index in year of publication: 1.259

Position of publication: 54

Source of citations: SCOPUS

Format: Journal

Corresponding author: Yes

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: 8

- 43** 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

- 44** 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

DOI: 10.1016/j.nima.2005.02.033

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 7

Impact source: WOS (JCR)

Impact index in year of publication: 1.224

Position of publication: 14

Impact source: WOS (JCR)

Impact index in year of publication: 1.224

Position of publication: 15

Format: Journal

Corresponding author: No

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



Impact source: WOS (JCR)
Impact index in year of publication: 1.224
Position of publication: 27

Impact source: WOS (JCR)
Impact index in year of publication: 1.224
Position of publication: 4

Source of citations: WOS

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: 32

- 45** 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

Position of signature: 1

Total no. authors: 3

Impact source: WOS (JCR)

Impact index in year of publication: 1.224
Position of publication: 4

Source of citations: WOS

Format: Journal

Corresponding author: Yes

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes
No. of journals in the cat.: 32

Citations: 55

- 46** 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

Position of signature: 2

Total no. authors: 9

Impact source: WOS (JCR)

Impact index in year of publication: 1.224
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.: 32

Citations: 58

- 47** M. Moszyński; M. Kapusta; D. Wolski; M. Balcerzyk; A. Syntfeld; C. Fontaine; P. Lavoute; P. Bascle; 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

Position of signature: 4

Total no. authors: 10

Impact source: WOS (JCR)

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



Impact index in year of publication: 1.259
Position of publication: 3
Source of citations: WOS

Journal in the top 25%: Yes
No. of journals in the cat.: 32
Citations: 3

- 48** M. Kapusta; P. Szupryczynski; 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: WOS (JCR)

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: 74

- 49** 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: WOS (JCR)

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

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

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

Citations: 52

- 50** 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: 7

Impact source: WOS (JCR)

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: 78



- 51** 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: 6
Impact source: WOS (JCR)
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: 29
- 52** 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
Position of signature: 1
Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 1,119
Position of publication: 5
Source of citations: WOS
Format: Journal
Corresponding author: Yes
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 33
Citations: 29
- 53** 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
Position of signature: 2
Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 1,119
Position of publication: 5
Source of citations: SCOPUS
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: 48
- 54** 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
Format: Journal



Total no. authors: 6

Impact source: WOS (JCR)

Impact index in year of publication: 1,166

Position of publication: 4

Source of citations: SCOPUS

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: 43

- 55** 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: 7

Impact source: WOS (JCR)

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: 26

- 56** 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: WOS (JCR)

Impact index in year of publication: 1,166

Position of publication: 4

Source of citations: SCOPUS

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: 49

- 57** 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: WOS (JCR)

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



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

Impact source: WOS (JCR)
Impact index in year of publication: 1.167
Position of publication: 22

Impact source: WOS (JCR)

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

Impact source: WOS (JCR)

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

Source of citations: WOS

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: 102

- 58** 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: 6

Impact source: WOS (JCR)

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

Impact source: WOS (JCR)

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

Impact source: WOS (JCR)

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

Impact source: WOS (JCR)

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

Source of citations: SCOPUS

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: 201

- 59** 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

Format: Journal



Position of signature: 3

Total no. authors: 8

Impact source: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 11

Impact source: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 22

Impact source: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 5

Impact source: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 9

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, 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: 12

- 60** 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: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 11

Impact source: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 22

Impact source: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 5

Impact source: WOS (JCR)

Impact index in year of publication: 1.167

Position of publication: 9

Source of citations: SCOPUS

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, 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: 43



- 61** 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: WOS (JCR)
Impact index in year of publication: 0.771
Position of publication: 75
Impact source: WOS (JCR)
Impact index in year of publication: 0.771
Position of publication: 9
Source of citations: SCOPUS
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
Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 33
Citations: 5
- 62** 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
Position of signature: 3
Total no. authors: 7
Impact source: WOS (JCR)
Impact index in year of publication: 0.771
Position of publication: 75
Impact source: WOS (JCR)
Impact index in year of publication: 0.771
Position of publication: 9
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
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: 55
- 63** 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: WOS (JCR)
Impact index in year of publication: 1.060
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

**Position of publication:** 4**No. of journals in the cat.:** 30**Source of citations:** WOS**Citations:** 15

- 64** 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**Format:** Journal**Position of signature:** 3**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 7**Corresponding author:** No**Impact source:** WOS (JCR)**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Impact index in year of publication:** 1.060**Position of publication:** 4**No. of journals in the cat.:** 30**Source of citations:** SCOPUS**Citations:** 44

- 65** 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**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:** 5**Corresponding author:** No**Impact source:** WOS (JCR)**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Impact index in year of publication:** 1.060**Position of publication:** 4**Journal in the top 25%:** Yes**No. of journals in the cat.:** 30**Source of citations:** SCOPUS**Citations:** 29

- 66** 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**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:** WOS (JCR)**Category:** Science Edition - NUCLEAR SCIENCE & TECHNOLOGY**Impact index in year of publication:** 1,060**Position of publication:** 4**Journal in the top 25%:** Yes**No. of journals in the cat.:** 30**Source of citations:** SCOPUS**Citations:** 20

- 67** 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: 6

Impact source: WOS (JCR)

Impact index in year of publication: 1.06

Position of publication: 4

Source of citations: SCOPUS

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: 158

- 68** 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

Total no. authors: 4

Impact source: WOS (JCR)

Impact index in year of publication: 1,101

Position of publication: 18

Source of citations: SCOPUS

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 57

Citations: 61

- 69** 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: WOS (JCR)

Impact index in year of publication: 0,966

Position of publication: 9

Source of citations: SCOPUS

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: 53

- 70** 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: WOS (JCR)

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



- 71** 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: WOS (JCR)
Impact index in year of publication: 1,219
Position of publication: 3
Source of citations: SCOPUS
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: 70
- 72** 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: WOS (JCR)
Impact index in year of publication: 0.921
Position of publication: 14
Impact source: WOS (JCR)
Impact index in year of publication: 0.921
Position of publication: 16
Impact source: WOS (JCR)
Impact index in year of publication: 0.921
Position of publication: 26
Impact source: WOS (JCR)
Impact index in year of publication: 0.921
Position of publication: 6
Source of citations: SCOPUS
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: 97
- 73** 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
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



Total no. authors: 5

Impact source: WOS (JCR)

Impact index in year of publication: 1,34

Position of publication: 3

Source of citations: SCOPUS

Corresponding author: No

Category: Science Edition - NUCLEAR SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 33

Citations: 41

- 74** 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

Impact source: WOS (JCR)

Impact index in year of publication: 0,897

Position of publication: 5

Source of citations: SCOPUS

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: 237

- 75** 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: WOS (JCR)

Impact index in year of publication: 1,183

Position of publication: 5

Source of citations: SCOPUS

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: 12

- 76** 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: WOS (JCR)

Impact index in year of publication: 3,187

Position of publication: 3

Source of citations: SCOPUS

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: 117



- 77** 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: WOS (JCR)
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
- 78** 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: WOS (JCR)
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
- 79** 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: WOS (JCR)
Impact index in year of publication: 0.592
Position of publication: 8
Source of citations: SCOPUS
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: 91
- 80** 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: WOS (JCR)
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes



Impact index in year of publication: 0.338
Position of publication: 44

Category: Science Edition - PHYSICS,
MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 51

- 81** 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: WOS (JCR)

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

- 82** 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

- 83** 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
Position of signature: 1

Format: Book

Degree of contribution: Author or co-author of chapter in book

Corresponding author: Yes

Total no. authors: 9

- 84** 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

Works submitted to national or international conferences

- 1** **Title of the work:** BGO-based PET Scanner for Dose Verification after Proton Therapy
Name of the conference: 2025 IEEE Nuclear Science Symposium (NSS), Medical Imaging Conference (MIC) and Room Temperature Semiconductor Detector Conference (RTSD)
Corresponding author: No
City of event: Yokohama, Japan
Date of event: 01/11/2025
End date: 08/11/2025



Organising entity: Nuclear & Plasma Sciences Society

Type of contribution: Scientific book or monograph

M. Freire; M. Balcerzyk; P. Piera; O. Pietrzyk; R. Smith; A. J. Gonzalez. "2025 IEEE Nuclear Science Symposium (NSS), Medical Imaging Conference (MIC) and Room Temperature Semiconductor Detector Conference (RTSD)". pp. 1 - 1. 2025.

DOI: 10.1109/NSS/MIC/RTSD57106.2025.11286572

2 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.

3 Title of the work: Synthesis, functionalization and properties of uniform Eu-doped Nala(XO₄)₂ (X=Mo,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 Nala(XO₄)₂ (X=Mo,W) probes for luminescent and CT images."

4 Title of the work: fluorination of BaGdF₅ 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

5 Title of the work: High intensity emitting Eu³⁺,Bi³⁺:LaF₃ 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 Eu³⁺, Bi³⁺:LaF₃ nanoparticles for luminescence bioimaging and X-ray computed tomography".

- 6** **Title of the work:** In vitro stability of Na[¹⁸F]-Tetrafluoroborate ([¹⁸F]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 GALLEGO; JOAQUIN COBOS SABATE.

- 7** **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, Cataluña, 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."

- 8** **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.

- 9** **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.

- 10** **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.

- 11** **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
- 12** **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
- 13** **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
- 14** **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
- 15** **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

- 16** **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
- 17** **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
- 18** **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
- 19** **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
- 20** **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

- 21 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
- 22 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; RANGLES, 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
- 23 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
- 24 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
- 25 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



- 26** **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
- 27** **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
- 28** **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
- 29** **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; Lefacheur, 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
- 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; Benlloch, 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
- 31** **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; Benlloch, 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

32 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

33 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

34 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

35 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

36 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

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

Title of the work: Dose verification in proton therapy: vivid-pro
Name of the event: Innovative Health Initiative Brokerage Event 2025
Type of event: Workshop
Reasons for participation: Speaker
City of event: Brussels, Belgium
Date of event: 04/11/2025
End date: 05/11/2025
Organising entity: Innovative Health Initiative
City organizing entity: Brussels, Belgium
With external admission assessment committee: Yes
Marcin Balcerzyk. "Dose verification in proton therapy: vivid-pro". Available on-line at: <[https://www.ih.europa.eu/sites/default/files/events/2025/Brokerage/13-%20Marcin%20Balcerzyk%20\(1\).pdf](https://www.ih.europa.eu/sites/default/files/events/2025/Brokerage/13-%20Marcin%20Balcerzyk%20(1).pdf)>.

Science Outreach activities

- 1** **Title of the work:** Bioaraba ficha al físico polaco Marcin Balcerzyk para investigar nuevos tratamientos del cáncer
Type of event: Media interviews
Corresponding author: No
City of event: Vitoria-Gasteiz, País Vasco, Spain
Date of event: 01/12/2023
Organising entity: Revista El Correo
Cancho. "Bioaraba ficha al físico polaco Marcin Balcerzyk para investigar nuevos tratamientos del cáncer". Available on-line at: <<https://www.elcorreo.com/alava/araba/bioaraba-ficha-fisico-polaco-marcin-balcerzyk-investigar-20231201004050-nt.html>>.
Relevant results: Artículo sobre incorporación de Profesor de Investigación Ikerbasque en Instituto de Investigación Sanitaria en Vitoria-Gasteiz
- 2** **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: Andalucía, Spain
Date of event: 05/06/2014
"www.historiasdeluz.es". Andalucía (Spain): Available on-line at: <<https://www.youtube.com/watch?v=cLZehE5oOZU#t=105>>.
- 3** **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, Andalucía, Spain
Date of event: 01/03/2012



Andalucía (Spain): Available on-line at: <<https://www.youtube.com/watch?v=hhw3dJAK7Mo>>.

R&D management and participation in scientific committees

R&D management

- 1 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:** 10 years - 2 months
Geographical area: Regional
Specific tasks: Gestión de estabulario de CNA
- 2 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:** 10 years - 2 months
Geographical area: Regional
Specific tasks: Gestión de servicio de imagen preclinica PET/TAC
- 3 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 activity: Review of articles in scientific or technological journals
Access system: With or without publicity for the decision
Start-End date: 2014 - 2014
Type of entity: Public Research Body
Frequency of the activity: 1
Geographical area: European Union
- 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
Access system: By public merit
Start-End date: 2000 - 2012
Frequency of the activity: 29
Geographical area: Non EU International
- 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: 01/09/2015
Frequency of the activity: 1
Geographical area: Non EU International



Start date: 2014

8 Name of the activity: Operational Programme Innovative Economy

Performed tasks: Evaluador

Entity where activity was carried out: Polska
Agencja Rozwoju Przedsiębiorczości

Type of entity: State agency

City of entity: Warszawa, Mazowieckie, Poland

Type of activity: Participation in panels

Frequency of the activity: 38

Access system: By competition

Geographical area: National

Start date: 01/08/2013

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, Madrid, Comunidad de, 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
Amount of the grant: 40.800 €
Conferral date: 11/2000
End date: 11/2002
Entity where activity was carried out: Particle Department, Weizmann Institute of Science
Type of entity: Public Research Body
Duration: 2 years
- 3** **Name of the grant:** Fellowship of Kosciuszko Foundation
City awarding entity: Boston, United States of America
Aims: Pre-doctoral
Awarding entity: Kosciuszko Foundation
Amount of the grant: 17.792 €
Conferral date: 08/1992
End date: 06/1993
Entity where activity was carried out: Boston University, Boston, USA
Faculty, institute or centre: Department of Chemistry
Type of entity: Foundation
Duration: 10 months

Scientific societies and professional associations

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

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
City awarding entity: Madrid, Madrid, Comunidad de, Spain
Conferral date: 2008
Recognition linked: Colaborador honorario de la Facultad de Medicina
Type of entity: University Department

Periods of research activity and knowledge transfer

Certifying entity: Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 31/07/2021
Type of entity: National



Obtained accreditations/recognitions

- 1** **Description:** Acreditación a Profesor Titular en Ciencias de Salud
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Agencia Estatal de la Calidad y Acreditación
City accrediting entity: Madrid, Spain
Date of reception: 04/04/2024 **Date of recognition:** 04/04/2024
- 2** **Description:** Sexenios
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** estatal
City accrediting entity: Spain
Nº of recognized periods: 5
Date of recognition: 31/07/2021
- 3** **Description:** Acreditación I3
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** nacional
City accrediting entity: Spain
Date of recognition: 26/08/2020
- 4** **Description:** Trienios
Accrediting entity: Universidad de Sevilla
City accrediting entity: Sevilla, Andalucía, Spain
Nº of recognized periods: 9
Date of reception: 09/03/2020 **Date of recognition:** 09/03/2020
- 5** **Description:** Acreditación a Profesor Contratado Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Estatal
City accrediting entity: Spain
Date of recognition: 19/11/2019
- 6** **Description:** Acreditación a Profesor Titular en Ciencias
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
- 7** **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
- 8** **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, Madrid, Comunidad de, Spain
Nº of recognized periods: 1



Date of reception: 18/01/2017

Date of recognition: 18/01/2017

9 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, Andalucía, Spain

Nº of recognized periods: 1

Date of reception: 02/06/2015

Date of recognition: 02/06/2015

10 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