



Universidade do Minho

Escola de Ciências

Departamento de Física

CURRICULUM VITAE

José Filipe Vilela Vaz

February 2026

Summary

José Filipe Vilela Vaz graduated in Physics and Chemistry Teaching - from the University of Minho in 1992 with to Final Classification of 16 points. That same year he joined the Department of Physics at the University of Minho. In 1996 he presented his Pedagogical Aptitude and Scientific Capacity Tests, immediately beginning work leading to to Doctorate. He completed his PhD in May 2000 with the Thesis entitled "Preparation and Characterization of Ti_{1-x}Si_xNy Thin Films, grown by Reactive Magnetron Sputtering". After completing his doctorate, he began working at the Department of Physics as an Assistant Professor until August 2007, when he was promoted to the category of Associate Professor. In 2012 he took the aggregation exams, becoming Associate Professor with Aggregation.

In March 2018, he was awarded the title of Doctor Honoris Causa by the Transylvanian University of Brasov, Romania. He was awarded the Municipal Cultural Merit Medal, awarded by the Vila Nova de Famalicão City Council in July 2018.

After finishing his doctorate, he began creating his research group. The first phase concerns his work on developing decorative thin films based on transition metal oxynitrides. In addition to the various scientific publications he obtained, this work allowed the financing of several scientific projects, both by the Foundation for Science and Technology (FCT) and by European funds (including those of to bilateral nature). With this, it was possible to start the development of its laboratory, acquiring various equipment (1 thin film deposition chamber – we currently have 3; and various characterization equipment, software, etc.), either by hiring research fellows and post-doctoral, doctoral and master's students. The next phase corresponded to the work that began in collaboration with the University of Coimbra on the development of decorative plasmonic thin films, in close connection with the previous work on oxynitrides, which continued in parallel.

As to result of previous knowledge, this area has evolved into sensing, more specifically the detection of gaseous molecules and, more recently, into biosensing. Sensorization work now has to greater weight in the research group, having created another line of complementary research in physical sensing (pressure, temperature, vibration, humidity, magnetic). Requests in the biomedical area are increasing and we have opened to new line for the development of thin films for biomedical applications, which include intermetallic-based thin films, nitrides, oxides and transition metal oxynitrides, once again bridging the gap with the origin of the research group. The group's coherence is based on the development of thin film systems, but with to strong focus on sensing, be it physical, chemical or (bio)molecular.

Currently, the research group, which he created and leads, has 3 lines of investigation: 1. Plasmonic Thin Films; 2. Thin Films for Physical Sensors and; 3. Thin Films for Biomedical Applications. It has 3 senior researchers (leaders of each of the 3 lines of research), 5 doctoral students (1 foreigner in joint supervision); 2 master's students and 1 research fellow, in addition to the project students (5 completed their work in July).

Although fluctuating, the group varies between 15 and 20 researchers. In terms of approved competitive funding, the candidate was (is) responsible (PI or responsible at UMinho) for 31 research projects (general or at UMinho), corresponding to to total funding of almost €3 million for the University of Minho. In addition to these, he was (is) to member of the research team in 20 other projects, corresponding to total funding of almost €2.4 million for the University of Minho. His teaching activity is diverse, having taught several basic Curricular Units (Physics and Electromagnetism), but also more specific ones such as Atomic Physics, Atomic and Nuclear Physics, Physics Complements, Surfaces and Coatings, Materials Science, etc.

Throughout his career, he has also collaborated very actively in scientific dissemination and courses in which the School of Sciences is involved. Academic management has been to component in which he has been very active, highlighting his activity as to representative of the Director of the Physics Department at the Azurém Campus between 2003 and 2010, his participation in the Graduation Management Committee in Materials Engineering first, and then in the Integrated Master's in Materials Engineering and its participation in the organization of scientific meetings. He was Vice-President and President of the Pedagogical Council of the School of Sciences of the University of Minho between 2010 and 2013. He was Pro-Rector of the University of Minho for new Teaching projects from November 8, 2013, to November 27, 2017, and Pro-Rector of the University of Minho for Research and Projects from November 28, 2017 to November 28, 2021.

1. Generic characterization

1.1. Identification

Name: José Filipe Vilela Vaz.



Nationality: Portuguese.

Professional address: University of Minho, Physics Department, Campus de Azurém, 4800-058 Guimarães, Portugal.

Tel.: 252 992124;

Spoken languages: Portuguese, English, Spanish and French.

1.2. Academic qualifications

PhD – Physics, University of Minho, Portugal, 3 of May 2000. **Title** “*Preparation and Characterization of Ti1-xSixNy Thin Films grown by Reactive Magnetron Sputtering*”.

Graduation: Physics and Chemistry, University of Minho, June 1992.

1.3. Professional situation

Associated Professor with Habilitation – Physics Department, University of Minho, since 02/03/2012.

2. Scientific Performance

He created and leads to research group consisting of 3 lines of research: 1. Plasmonic Thin Films; 2. Thin Films for Physical Sensors and iii) Thin Films for Biomedical Applications. It has 3 senior researchers (leaders of each of the 3 lines of research), 5 doctoral students (1 foreigner in joint supervision); 2 master's students and 1 research fellow, in addition to the project students (5 completed their work in July). Although fluctuating, the group varies between 15 and 20 researchers. By the end of the year, 4 new researchers will be hired. The group currently leads 2 major projects: to PRR project (starting this year) and to European project (starting in December this year).

Scientific affiliations	Member of the Physics Centre of the University of Minho
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	Ciência ID: 651A-BC96-52A2

Web of Science	SCOPUS	Google Scholar
https://www.webofscience.com/wos/author/record/152152	https://www.scopus.com/authid/detail.uri?authorId=56488157400	https://scholar.google.pt/citations?user=vTZTFN4AAAAJ&hl=pt-PT
282 documents	267 documents	336 documents
H index = 42	H index = 45	H index = 52
6521 citations	7044 citations	9129 citations

SCIENTIFIC PRODUCTION

Books edition

“Metallic Oxynitride Thin Films by Reactive Sputtering and Related Deposition Methods: Process, Properties and Applications”.

Bentham Science Publishers.

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July 2013.

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[1]. F. Vaz, L. Rebouta, M. F. of theSilva e J. C. Soares, *“Thermal Oxidation of Ternary and Quaternary Nitrides of Titanium, Aluminium and Silicon”*, in *“Protective Coatings and Thin Films: Synthesis, Characterisation and Applications”*, ed. Y. Pauleau and P. Barna, NATO ASI Series Advanced Sciences Institutes Series, 3. High Technology – Vol. 21, Kluwer Acad. Publ., Dordrecht, (1996) 501-510.

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[5]. Manuela Proença, Marco S. Rodrigues, Joel Borges and Filipe Vaz, *“Gas Sensing with Nanoplasmonic Thin Films Composed of Nanoparticles (Au, Ag) Dispersed in to CuO Matrix”*, Coatings to Improve Optoelectronic Devices, Selected articles published by MDPI (Coatings), Pp. 91-101.

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- 166.** *“Properties of Tantalum Oxynitride Thin Films Produced by Magnetron Sputtering: The Influence of Processing Parameters”*, D. Cristea, D. Constantin, A. Crisan, C.S. Abreu, J. R. Gomes, M. F. Costa, C. Moura, F. Vaz, L. Cunha., 14th Joint Vacuum Conference, 12th European Vacuum Conference, 11th Annual Meeting of the German Vacuum Society, 19th Croatian - Slovenian Vacuum Meeting, 4-8 June 2012, Dubrovnik, Croatia. (Poster).
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267. "Thin Films for LSPR-based sensors", Joel Borges, Diana I. Meira, Diogo Costa, Manuela Proença, Marco S. Rodrigues, Filipe Vaz, RIVA 2022 – XII Iberian Vacuum and Applications Conference, Braga, Portugal, May 16-17, 2022. Poster.

- 268.** “*Nanoplasmonic strain sensing with thin films containing Au nanoparticles dispersed in an oxide matrix*”, Marco S. Rodrigues, Joel Borges, Filipe Vaz, EMRS Spring Meeting 2022, Virtual Conference, May 30-June 3, 2022. Poster.
- 269.** “*A novel wearable sensing device based on Ti-based nanostructured thin films for neuromuscular rehabilitation on elderly*”, Hugo Azevedo, Claudia Lopes, Nelson Azevedo, Juliana Cruz, Raul Figueiro, Filipe Vaz, EMRS Spring Meeting 2022, Virtual Conference, May 30-June 3, 2022. Oral.
- 270.** “*The influence of the nano-structured architecture type on the optical, electrical and thermal properties of TiN coatings*”, Ioana Borsan, C. Lopes, M.S. Rodrigues, F. Macedo, Camelia Gabor, Mihai-Alin Pop, Daniel Munteanu, Filipe Vaz, Nanotech France 2022, The 7th ed. of Nanotech France 2022 International Conference and Exhibition, June 15-17, 2022, Paris, France. Oral.
- 271.** “*Advanced Electron microscopy applied to the study of thin films with plasmonic properties*”, Lucian Roiban, Siddardha Koneti, Thierry Epicier, Philippe Steyer, Diogo Costa, Marco S. Rodrigues, Joel Borges, Filipe Vaz, 95th IUVESTA Workshop - Plasmonic Thin Films: Theory, Synthesis and Applications, Guimarães, Portugal, June 20-23, 2022. Oral.
- 272.** “*Plasmonic thin films for biosensing*”, Diana I. Meira, Patrícia Pereira-Silva, Joel Borges, Filipe Vaz, 95th IUVESTA Workshop - Plasmonic Thin Films: Theory, Synthesis and Applications, Guimarães, Portugal, June 20-23, 2022. Poster.
- 273.** “*Robust label-free LSPR sensing using thermally embedded Au nanoparticles in glass substrates*”, Nuno M. Figueiredo, Ricardo Serra, Diana I. Meira, Manuela Proença, Joel Borges, Filipe Vaz, Albano Cavaleiro, 95th IUVESTA Workshop - Plasmonic Thin Films: Theory, Synthesis and Applications, Guimarães, Portugal, June 20-23, 2022. Oral.
- 274.** “*Magnetron sputtered nanocomposite thin films towards LSPR-based optical transducers for biosensing*”, Costa D., Rodrigues M. S., Borges J., Roiban L., Steyer P., Minas G., Sampaio P., Vaz F., 95th IUVESTA Workshop - Plasmonic Thin Films: Theory, Synthesis and Applications, Guimarães, Portugal, June 20-23, 2022. Poster.
- 275.** “*Optimization of nanoplasmonic Au:CuO thin films for gas detection in to high-resolution LSPR spectroscopy system*”, Proença M., Rodrigues M. S., Borges J., Vaz F., 95th IUVESTA Workshop - Plasmonic Thin Films: Theory, Synthesis and Applications, Guimarães, Portugal, June 20-23, 2022. Poster.
- 276.** “*The influence of the nano-structured architecture type on the mechanical and tribological properties of TiN coatings*”, I. Borsan, C; Gabor, M-A. Pop, F. Vaz and D. Munteanu, Nanotech France 2022, The 7th ed. of Nanotech France 2022 International Conference and Exhibition, 15-17 June 2022, Paris, France. Oral.
- 277.** “*Au-ZnO thin films: Influence of gold concentration and annealing on the microstructure and plasmonic response*”, Patrícia Pereira-Silva, Joel Borges, Marco S. Rodrigues, Paula Sampaio, Albano Cavaleiro, Filipe Vaz, 5th International Conference on Application of Optics and Photonics, Guimarães, Portugal, July 18-22, 2022. Poster.
- 278.** “*Development of plasmonic thin films for new biodetection approaches*”, Diana I. Meira, Patrícia Pereira-Silva, Joel Borges, Filipe Vaz, 5th International Conference on Application of Optics and Photonics, Guimarães, Portugal, July 18-22, 2022. Poster.
- 279.** “*Gas detection with high-resolution LSPR spectroscopy*”, Manuela Proença, Marco S. Rodrigues, Joel Borges, Filipe Vaz, 5th International Conference on Application of Optics and Photonics, Guimarães, Portugal, July 18-22, 2022. Oral.
- 280.** “*Characterization of the tribological behaviour of magnetron sputtered Ti based thin films: to small scale in situ analysis*”. A. Sayilan, J. Ferreira, C. Goudin, D. Philippon, H. Veloso, J. Borges, C. Lopes,

F. Vaz, N. Mary, S. Descartes, P. Steyer. 7th World Tribology Congress WTC2022, Lyon, France, July 10-15, 2022. Poster.

281. *“Plasmonic gold nanoparticles embedded in oxide thin films deposited by reactive magnetron sputtering for LSPR sensing and Bio-Applications”*, Joel Borges, Marco S. Rodrigues, Manuela Proença, Diana I. Meira, Rui M.S. Pereira, Mikhail I. Vasilevskiy, Filipe Vaz, 3D-ICOMAS - International Conference on Materials Science, 26-28 October 2022, Verona, Italy. Oral.

282. *“Thin Films Manifesting Localized Surface Plasmon Resonances, for Sensing and Bio-Applications”*, Joel Borges, Diana I. Meira, Patrícia Pereria-Silva, Manuela Proença, Marco S. Rodrigues, Filipe Vaz, Future Materials 3rd International Conference on Materials Science & Nanotechnology, 03-07 October 2022, Rome, Italy. Oral.

283. *“Flexible Nanostructured Ti-Cu/Ag Thin Films for High-Sensing Biomedical Applications”*, C. Lopes, S.M. Marques, N. Azevedo, F. Vaz, Materiais 2023 – XXI Congresso of the Sociedade Portuguesa de Materiais and XII International Symposium on Materials, 3 to 6 April 2023, Guimarães, Portugal. Oral.

284. *“Trigeminal Nerve Stimulation and Balance – to Pilot Study”*, Nelson Azevedo, Cláudia Lopes, Joel Marouvo, José Filipe Vaz and Emanuel Matos, CNB 2023 - X Congresso of the Sociedade Portuguesa Biomecânica, 5 - 6 May 2023, Figueira of the Foz, Portugal. Oral.

285. *“Tribological behaviour of Ti-Ag thin coatings in the perspective of biosensors design”*, A. Sayilan, J. Borges, C. Lopes, F. Vaz, N. Mary, S. Descartes, Ph. Steyer, 48th Leeds-Lyon Symposium on Tribology: Tribology for to Sustainable and Resilient Future, 05-07 September 2023, University of Leeds, Leeds, UK. Oral.

286. *“Advanced microscopic characterization strategies to better understand dynamics of PVD nanostructured films”*, J. Borges, Diana I. Meira, Manuela Proença, F. Vaz, 19th International Conference on Thin Films - ICTF-2023, 26-29 September 2023, Burgos, Spain. Oral.

287. *“Thin films manifesting localized surface plasmon resonances for applications in sensing and photosynthetic mechanisms”*, P. Steyer, L. Roiban, S. Dassonneville, A. Borroto, J.F. Pierson, J. Borges, D. Costa, M.S. Rodrigues, F. Vaz, 19th International Conference on Thin Films - ICTF-2023, 26-29 September 2023, Burgos, Spain. Oral.

288. *“Design of Localized Surface Plasmon Resonance (LSPR) Biosensors using Gold Nanoparticles Embedded in Dielectric Thin Films”*, D.I. Meira, J. Borges, F. Vaz, INL Global – Local Photonic Meetup, Portugal 2023. Poster

289. *“Nanomaterial-Based Biosensor Development: Application of Plasmonic Thin Film for Optical Detection Purposes”*, D.I. Meira, J. Borges, F. Vaz, Materiais 2023 – Sustainability for to Future, Portugal 2023. poster

290. *“Development of nanoplasmonic thin films composed by Au nanoparticles embedded in dielectric matrixes for biosensing application”*, D.I. Meira, J. Borges, F. Vaz, Encontro of the Ciência -FCT, Portugal 2023. Poster

291. *“Plasmonic thin films for LSPR-based applications”*, D.I. Meira, P. Pereira-Silva, D. Costa M. Proença, M.S. Rodrigues, J. Borges, F. Vaz, Encontro of the Ciência -FCT, Portugal 2023. Poster

292. *“Niobium Oxide Thin Films Grown on Flexible ITO-Coated PET Substrates”*, Alice Marciel, Manuel Graça, Alexandre Bastos, Luiz Pereira, Jakka Suresh Kumar, Joel Borges, Filipe Vaz, Marco Peres, Katharina Lorenz, Rui Silva, FEMS EUROMAT 2023 (Materials Science and Technology in Europe), 3-7 September, 2023, Frankfurt am Main (Germany) & Online. Oral

- 293.** *"Plasmonic effect on the performance of microalgal cultures"*, Francisco Pereira, António A. Vicente, Filipe Vaz, Joel Borges, Pedro Geada, ECMB 2023 - European Congress of Marine Biotechnology, 22-24 November 2023, Malaga, Spain. Poster
- 294.** *"Ti-based thin films for enhanced biomedical sensing"*, C. Lopes, F. Vaz. ICMSNSA 2023, 23-24 março, Aurangabad, India. Oral
- 295.** *"Flexible nanostructured Ti-Cu/Ag thin films for high-sensing biomedical applications"*, C. Lopes, F. Vaz. E-MRS Spring Meetings, 29 maio – 2 junho de 2023, Strasbourg, França. Oral
- 296.** *"Corrosion Behavior of to Titanium Nanostructured Surface Fabricated by Glancing Angle Sputter Deposition"*, Matteo Bertapelle, Joel Borges, Julia Mirza-Rosca, Filipe Vaz. M&M 2024 - Microscopy & Microanalysis: <https://mmconference.microscopy.org/>, Cleveland, Ohio, United States, 28 Jul - 01 August, 2024. Oral
- 297.** *"Neuromotor rehabilitation through advanced thin film dry electrode biofeedback system"*, C. Lopes, A. Ferreira, D. Carvalho, N. Azevedo, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2024. Oral.
- 298.** *"The influence of Al content on the electrical, optical, thermal, mechanical and tribological response of (Ti,Al)N coatings"*, I. Borsan, C. Lopes, A. Ferreira, D. Muntenu, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2024. Oral.
- 299.** *"Enhanced gas and liquid sensing applications using plasmonic nanocomposite thin films"*, E. Cipi, J. Borges, D. Muntenu, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2024. Oral.
- 300.** *"Study of the corrosion behaviour of Ti-Cu electrodes for the diagnosis of musculoskeletal disorders and muscle rehabilitation"*, A. Camarinha, A. Alves, C. Lopes, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2022. Poster.
- 301.** *"Lifespan and performance of Ti-Ag Dry electrodes in remote biomedical applications"*, D. Carvalho, A. Ferreira, C. Lopes, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2024. Poster.
- 302.** *"ZnO-based thin films: to versatile approach to mitigating microbial transmission on common surfaces"*, P. Pereira-Silva, Joel Borges, P. Sampaio, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2024. Poster.
- 303.** *"Novel TiAg coating, to corrosion behaviour overview"*, M. Bertapelle, J.C. Mirza-Rosca, C. Lopes, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2024. Poster.
- 304.** *"Structural, magnetic, and thermomagnetic properties of Co₂FeAl/(W,Ti) thin films: The role of non-ferromagnetic metal thickness"*, G. Siqueira, C. Lopes, A. Ferreira, M. Correa, F. Vaz, BRAMAT 2024 - 13th International Conference on Materials Science & Engineering, Brasov, Romania, March 13-16, 2024. Poster.
- 305.** *"Tribological properties of antimicrobial surfaces for orthopaedics and oral rehabilitation: preliminary analyses"*, Jorge Veloso, Joel Borges, Filipe Vaz, Oscar Carvalho, Júlio C.M. Souza, José Ramos Gomes, Lubmat-Ibertrib-2024 - Lubricants, Tribology and Condition Monitoring - The closest encounter between science and industry, San Sebastián's Kursaal Conference Centre, Donostia - San Sebastián, Spain, June 18-20, 2024. Poster.
- 306.** *"Isotropic Thermoelectric Response of NiTa Thin Films : Exploring the Thermal Behavior"*, A. Ferreira, N. Afonso, C. Lopes, M. Correa, F. Vaz, E-MRS Spring Meeting, 27-31 maio de 2024, Strasbourg, França. Poster.

- 307.** "Localized Surface Plasmon Resonance (LSPR) Sensors based on Au-Ag NPs embedded in Oxide Thin Films", J. Borges, D. Meira, D. Costa, M. Proença, P. Pereira-Silva, F. Vaz, E-MRS Spring Meeting, 27-31 maio de 2024, Strasbourg, França. Poster.
- 308.** "Innovative Integration: Thin Film Dry-Electrodes for Personalized and Preventive Digital Healthcare", C. Lopes, A. Ferreira, D. Carvalho, N. Azevedo, F. Vaz, E-MRS Spring Meeting, 27-31 maio de 2024, Strasbourg, França. Poster.
- 309.** "The influence of composition and nanostructure design on the thermal behaviour of Ti thin films", F. Macedo, C. Lopes, A. Ferreira, J. Borges, I. Borsan, D. Munteanu, F. Vaz, E-MRS Spring Meeting, 27-31 maio de 2024, Strasbourg, França. Poster.
- 310.** "Unveiling the potential of ZnO-based thin films as antimicrobial coatings", P. Pereira-Silva, J. Borges, F. Vaz, P. Sampaio, E-MRS Spring Meeting, 27-31 maio de 2024, Strasbourg, França. Poster.
- 311.** "The influence of the nano-structured design on the mechanical and tribological properties of TiN coatings", I. Borsan, C.C.C. Gabor, F. Vaz, D. Munteanu, E-MRS Spring Meeting, 27-31 maio de 2024, Strasbourg, França. Oral.
- 312.** "Asymmetric Magnetoimpedance on NiFe/Ag multilayer for high-frequency sensor applications", M. Correa, A. Moraes, A. Ferreira, C. Lopes, F. Bohn, F. Vaz, E-MRS Spring Meeting, 27-31 maio de 2024, Strasbourg, França. Oral.
- 313.** "Efficient self-powered nanomaterial systems to map muscular micro-activity by harvesting and storing biomechanical energy", J. Grose, D. Holoman, A. Ferreira, F. Vaz, C. Lopes and Michael Cullinan, UT Austin Portugal Annual Conference - Técnico Oeiras, Taguspark, 29/10/2024.
- 314.** "Specially architected thin films for sensing applications", F. Vaz, F. Macedo, J. Borges, A. Ferreira, C. Lopes, N. Martin, Julia M. Rosca, E-MRS Spring Meeting, 26-30 maio de 2025, Strasbourg, França. Oral.
- 315.** "Corrosion behaviour of nanodesigned titanium thin films: the use of glancing angle geometry to tailor the films response", J.C. Mirza-Rosca, Matteo Bertapelle, J. Borges, F. Vaz, E-MRS Spring Meeting, 26-30 maio de 2025, Strasbourg, França. Oral.
- 316.** "A small-scale approach to characterize Ti-based thin films tribological behavior in operando conditions", P. Steyer, A. Sayilan, D. Philippon, C. Lopes, F. Vaz, N. Mary, S. Descartes, PLATHINIUM 2025 - PLASMA THIN film International Union Meeting, Antibes, France, September 22-26, 2025. Oral <https://www.plathinium.com/>
- 317.** "The influence of structural design on the properties of TiN coatings", D. Munteanu, I. Borsan, C. Gabor, M.A. Pop, C. Lopes, F. Macedo, M. Rodrigues, F. Vaz, PLATHINIUM 2025 - PLASMA THIN film International Union Meeting, Antibes, France, September 22-26, 2025. Oral. <https://www.plathinium.com/>
- 318.** "Magnetron-Sputtered Ti-Based Thin Films: to Versatile Platform for Biopotential Sensing and Neurorehabilitation", Claudia Lopes, Patrique Fiedler, Jean-Francois Pierson, Brigitte Vigolo, Nelson Azevedo, Michael Cullinan, Armando Ferreira, Filipe Vaz, 51st International Conference on Metallurgical Coatings and Thin Films (ICMCTF 2025), Town & Country Resort, San Diego, California, USA, from May 11-16, 2025. Oral. <https://icmctf2025.avs.org/>
- 319.** "The duality of Thermal and Magnetic Properties of Ni-Ta Thin Films: to New Generation of Sensing Devices", Armando Ferreira, Filipe Vaz, Claudia Lopes, 51st International Conference on Metallurgical Coatings and Thin Films (ICMCTF 2025), Town & Country Resort, San Diego, California, USA, from May 11-16, 2025. Poster. <https://icmctf2025.avs.org/>

320. "Corrosion Stability and Electrical Performance of Ti-Au Thin Film Electrodes for Biosignal Acquisition", Sara Inácio, Carolina Durães, Ana Camarinha, Armando Ferreira, Claudia Lopes, Filipe Vaz, 51st International Conference on Metallurgical Coatings and Thin Films (ICMCTF 2025), Town & Country Resort, San Diego, California, USA, from May 11-16, 2025. Poster.

<https://icmctf2025.avs.org/>

321. "Influencing the Properties of TiN and (Ti,Al)N Hard Coatings by Modifying their Composition and Structural Design", D. Munteanu, C. Lopes, I. Borsan, C. Gabor, M.S. Rodrigues, A. Ferreira, F. Macedo, E. Alves, N.P. Barradas, F. Vaz, PLATHINIUM 2025 - The PLASMA THIN film International Union Meeting, Antibes, France, from September 22-26, 2025. Oral.

https://www.plathinium.com/key4register/images/client/1822/files/Plathinium2025_Abstract-book.pdf

322. "Influx of Different Growth Geometries on Titanium Thin Film for Medical Applications", Matteo Bertapelle, Joel Borges, Julia Claudia Mirza Rosca, Filipe Vaz, ICMUSTED 2025- 2nd International Conference on Multidisciplinary Sciences and Technological Developments, Bayburt, Türkiye, from December 12-15, 2025. Oral.

<https://icmusted.com/>

323. "Electrical Characterization of Titanium-Gold Thin Films for Biopotential Monitoring Applications", A. Camarinha, M. A. Lopes, F. Vaz, C. Lopes, International Symposium on Modern Equipment and Technology (TISMEET 2025), Las Palmas de Gran Canaria, Spain, from November 2-10, 2025. Oral.

324. "Nanodesigned Thin Films for multifunctional applications", Matteo Bertapelle, Joel Borges, Julia Claudia Mirza Rosca, Filipe Vaz, International Symposium on Modern Equipment and Technology (TISMEET 2025), Las Palmas de Gran Canaria, Spain, from November 2-10, 2025. Oral.

325. "Experimental investigation and theoretical approaches for thermomagnetic properties of CoFe-based flexible amorphous ribbons", S.A. Oliveira, R.T. Doumbi, A. Morais, J. M. D. Neto, C. E. C. Souza, F. Bohn, Armando Ferreira, Filipe Vaz, Cláudia Lopes, G. V. Kurlyandskaya and M. A. Correa, XII Brazilian School of Magnetism, November 3–7, 2025, Natal, RN, Brazil. Poster.

Invited Talks

1. Seminar at Fraunhofer Institut für Werkstoffmechanik, Friburgo, Alemanha, 14 of June 1995.

Title: *Oxidation Resistance of Hard Wear Resistant (Ti,Zr,Al,Si)N Coatings.*

2. Seminar at Fraunhofer Institut für Werkstoffmechanik, Friburgo, Alemanha, outubro de 1998.

Title: *Preparation of Hard TiN based Films by PVD.*

3. Seminar at Fraunhofer Institut für Werkstoffmechanik, Friburgo, Alemanha, outubro de 1998.

Title: *Characterisation of Hard (Ti,Si)N Coatings by PVD: Effect of Deposition Parameters.*

4. Keynote Lecture at "BRAMAT 2003 - International Conference Materials Science & Engineering, Brasov, Romania, 13 e 14 of March 2003.

Title: *Hard Si-Based Nanocomposite Films.*

5. Keynote Lecture at "BRAMAT 2003 - International Conference Materials Science & Engineering, Brasov, Romania, 13 e 14 of March 2003.

Title: *Decorative Thin Films.*

6. Invited talk at "Ano Internacional of the Física 2005 e of the Semana of the Tecnologia e Gestão na Escola Superior de Tecnologia e de Gestão do Instituto Politécnico de Bragança", Bragança, Portugal, 19 of April 2005.

Title: *to Física no dia to dia: Filmes Finos Decorativos.*

- 7.** Seminar at Departamento de Matemática Para to Ciência e Tecnologia, Universidade do Minho, Guimarães, Portugal, 17 of March 2006.
Title: *Simulação Numérica em Física: Determinação do Tamanho Cristalino.*
- 8.** Keynote Lecture at “Aseva Summer School 2006 - WS-20: Optical and Decorative Coatings”, Salamanca Lecture, Spain, 27 of June 2006.
Title: *Hard decorative metal-oxynitride thin films prepared by PVD.*
- 9.** Keynote Lecture at “PSE 2006 - 10th International Conference Plasma Surface Engineering”, Garmisch-Partenkirchen, Alemanha, 10 to 15 of September 2006.
Title: *Zirconium oxynitride Decorative Thin Films: Relationship between Film's Characteristics and Properties.*
- 10.** Plenary Lecture at “BRAMAT 2007 - International Conference Materials Science & Engineering, Brasov, Romania, 21 to 24 of February 2007.
Title: *Decorative Thin Films: to general review.*
- 11.** Seminar at Ruhr University Bochum, Alemanha, 3 de July of 2007.
Title: *Zirconium oxynitride decorative thin films: relationship between film's characteristics and thermophysical properties.*
- 12.** Seminar at Institut Carnot de Bourgogne (ICB), UMR 5209 CNRS - Universite de Bourgogne, Dijon, França, 5 of September 2007.
Title: *Oxynitride decorative thin films: relationship between film's characteristics and properties.*
- 13.** Keynote Lecture at “36th International Conference On Metallurgical Coatings and Thin Films - ICMCTF 2009”, Town and Country Hotel, San Diego, California, EUA, 27 de abril to 1 of May 2009.
Title: *Influence of the Chemical Composition, Electronic Structure and Phase Evolution on the Electric and Optical Behavior of Zirconium Oxynitride Thin Films.*
- 14.** Plenary Lecture at “International Conference on Materials Science & Engineering - BRAMAT 2009”, Brasov, Romania, 26 to 28 of February 2009.
Title: *Development of new decorative coatings based on gold nanocrystals dispersed in to TiO₂ dielectric matrix*
- 15.** Seminar at Ruhr University Bochum, Alemanha, 7 de July of 2009.
Title: *Development of new functional coatings based on nanoclusters dispersed in an oxide dielectric matrix.*
- 16.** Seminar at “Encontros Científicos para os Investigadores – SIM”, LIMF (Laboratório Interdisciplinar de Materias Funcionais), Universidade do Minho, Guimarães, 21 of December 2011.
Title: *Desenvolvimento de filmes finos decorativos.*
- 17.** Plenary Lecture at “BRAMAT 2015 - International Conference Materials Science & Engineering, Brasov, Romania, 28 February – 2 March 2013.
Title: *Thin films composed of gold nanoclusters dispersed in to TiO₂ matrix for electrical and thermal devices applications.*
- 18.** Keynote Lecture at 13th European Vacuum Conference | 9th Iberian Vacuum Meeting | 7th European Topical Conference on Hard Coatings, Aveiro, Portugal, 8-12 September 2014
Title: *Thin Films Composed of Gold Nanoclusters Dispersed in to Dielectric Matrix.*
- 19.** Plenary Lecture at “BRAMAT 2015 - International Conference Materials Science & Engineering, Brasov, Romania, 5 to 7 of March 2015.
Title: *Thin films composed of noble metal clusters dispersed in to dielectric matrix: influence of composition and thermal annealing on the microstructure and physical response.*
- 20.** Keynote Lecture at “E-MRS 2015 - Spring Meeting, lille, França, 11 to 15 of May 2015.

Title: *Nanocomposite thin films resulting from Au nanoclusters dispersed in to dielectric matrix: evolution of the localized surface plasmon resonance with annealing temperature.*

21. Keynote Lecture at “43th International Conference On Metallurgical Coatings and Thin Films - ICMCTF 2016”, Town and Country Hotel, San Diego, California, EUA, 25 to 29 of April 2016.

Title: *Thin Films for Biomedical Applications: from Sensors to Electrodes.*

22. Plenary Lecture at “BRAMAT 2017 - International Conference Materials Science & Engineering, Brasov, Romania, 8 to 11 of March 2017.

Title: *Optimization of Au/TiO₂ Thin Films Towards Optical (Bio)Sensing.*

23. Keynote Lecture at “45th International Conference On Metallurgical Coatings and Thin Films - ICMCTF 2016”, Town and Country Hotel, San Diego, California, EUA, 23 to 27 of April 2018.

Title: *Hard Transition Metal Oxynitride Thin Films: From Synthesis to Applications.*

24. Seminar at Faculty of Materials Science and Engineering, Department of Materials Science, of the Transilvania University of Brasov - UniTBv, Brasov, Romania, 27 of February 2018.

Title: *Functional Thin Films: From decorative to Sensors and Electrodes applications.*

25. Seminar at Faculty of Technological Engineering and Industrial Management of the Transilvania University of Brasov - UniTBv, Brasov, Romania, 23 of October 2018.

Title: *Surface Engineering using thin films: The case of ultra-hard nanocomposites.*

26. Seminar at Materials Science and Engineering, Department of Materials Science, of the Transilvania University of Brasov - UniTBv, Brasov, Romania, 24 of October 2018.

Title: *Decorative thin films: to general review.*

27. Plenary Lecture at “BRAMAT 2019 - International Conference Materials Science & Engineering, Brasov, Romania, 13 to 16 of March 2019.

Title: *Thin films for sensing applications: from bioelectrodes to biosensors.*

28. Plenary Lecture at “BRAMAT 2022 - International Conference Materials Science & Engineering”, Brasov, Romania, 09 to 12 of March 2022.

Title: *Nanostructured Thin Films for Sensing Applications.*

29. Plenary Lecture at “RIVA 2022 - XII Iberian Vacuum and Applications Conference”, Braga, Portugal, 16 e 17 of May 2022.

Title: *Nanostructured Thin Films for Sensing Applications.*

30. Plenary Lecture at “International Conference on New Horizons in Materials Science and Nanotechnology (ICNHMSN-2022)”, Aurangabad –431112 (M.S.), India, 24-25 June 2022. Online conference.

Title: *Nanostructured Thin Films for Sensing Applications.*

31. Plenary Lecture at International Conference on New Horizons in Materials Science and Nanotechnology - ICNHMSN-2022, Yeshwantrao Chavan College of Arts, Commerce and Science, Sillod, Dist. Aurangabad –431112 (M.S.), India, June 24-25, 2022. Online conference.

Title: *Nanostructured Thin Films for Sensing Applications.*

32. Invited Lecture at IX Jornadas de Engenharia Física, 22 to 24 of February 2023, no Instituto Superior Técnico, Universidade de Lisboa.

Title: *Nanostructured Thin Films for Sensing Applications.*

33. Invited Seminar at XII Encuentro CyTeS (Cencia y Tecnologías de Superficies) – SocieMat: Sociedad Española de Materiales), 7 of November 2023. Por videoconferência (zoom).

Title: *Metallic Oxynitride Thin Films for Decorative Applications.*

34. Plenary Lecture at “BRAMAT 2024 - International Conference Materials Science & Engineering”, Brasov, Romania, 13 to 16 of March 2024.

Title: *Nanoarchitected thin films with tailored responses.*

35. Invited Lecture at “RSD 2024 - Reactive Sputter Deposition 2024: The International Symposium on Reactive Sputter Deposition”, “St-Peter's abbey”, Ghent., Bélgica, 11 to 14 of December 2024.

Title: *Specially architected thin films for sensing applications.*

<https://www.ugent.be/we/solidstatesciences/draft/en/rsd2024#Invitedspeakers>

36. Invited Lecture at “ICNBICT-2025 - International Conference on Nano-Bio-Info and Cogno-Technology for Societal Benefit”, Department of Physics, School of Basic and Applied Sciences, MGM University, Chhatrapati Sambhajinagar, (M.S.) India-431003, 24 e 25 of March 2025. Por videoconferência (zoom).

Title: *Nanostructured Thin Films: the change of response as to function of the growth designs.*

<https://icnbict.mqmu.ac.in/>

37. Invited Seminar at Institut Jean Lamour (IJL), Campus Artem, 2 allée André Guinier, BP 5084054011, Nancy, France. 23 de janeiro de 2026.

Title: *Specially architected thin films for sensing applications.*

<https://ijl.univ-lorraine.fr/en/agenda/seminar-specially-architected-thin-films-sensing-applications>

Conference organization

1. Member of the *organizing Committee* of the International Conference “*Advances in Materials and Processing Technologies AMPT’97*”, Universidade do Minho, Guimarães, Portugal, 22 to 26 of July 1997.

2. Member of the *Organizing Committee* of “*2^{as} Jornadas do Grupo de Revestimentos Funcionais*”, Braga, 17 of December 2001.

3. Member of the *organizing Committee* of the “*Encontros com to Ciência*”, inseridas no dia of the Física e Química, Briteiros, Guimarães, 17 of April 2002.

4. Member of the *Scientific and Technical comité* of the “*TTEs-2002 - 3^{as} Jornadas de Tratamentos Térmicos e Engenharia de Superfícies*”, Coimbra, 6 of December 2002.

5. Member of the *Organizing Committee* “*3^{as} Jornadas do Grupo de Revestimentos Funcionais*”, Guimarães, 11 of December 2002.

6. Member of the *Scientific Advisory Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2003*”, Brasov – Romania, 13 and 14 of March 2003.

7. Member of the *Organizing Committee* of “*4^{as} Jornadas do Grupo de Revestimentos Funcionais*”, Guimarães, 20 of November 2003.

8. Member of the *International Advisory Committee* of the “*ASEVA Summer School for Vacuum Science and Applications – 2004 - WS-15: Surface Engineering for Hard Coatings: Topic: Recent Advances in Thin Films and Hard Coatings*”, Ávila, Spain, 4 to 8 of July 2004.

9. Member of the *Scientific Advisory Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2005*”, Brasov, Romania, 24 to 26 of February 2005.

10. *Co-Chairman* of the “*International Conference on Materials Science & Engineering - BRAMAT 2005*”, Brasov, Romania, 24 to 26 of February 2005.

11. Member of the *Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2005*”, Brasov, Romania, 24 to 26 of February 2005.

- 12.** Member of the *organizing Committee* of the “*RIVA - 5th Iberian Vacuum Meeting, XI Spanish Vacuum Meeting, V Portuguese Vacuum Meeting*”, Guimarães, 18 to 21 of November 2005.
- 13.** *Chairman* in one of the sessions of the “*The 6th Iberian Vacuum Meeting, RIVA-6 & 4th European TOPICAL Conference on Hard Coatings, ETCHC-4*”, Salamanca, Spain, 27 of June 2006.
- 14.** Member of the *Scientific Advisory Committee e do Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2007*”, Brasov, Romania, 22 to 24 of February 2007.
- 15.** *Co-Chairman* of the “*International Conference on Materials Science & Engineering - BRAMAT 2007*”, Brasov, Romania, 22 to 24 of February 2007.
- 16.** Member of the *Scientific Committee* of the “*1st Portuguese Workshop on Functionally Graded Materials: an Integrated Approach*”, Universidade do Minho, Campus Azurém, Guimarães, 9 and 10 of October 2008.
- 17.** Member of the *Organizing Committee* of the “*1st Portuguese Workshop on Functionally Graded Materials: an Integrated Approach*”, Universidade do Minho, Azurém, Guimarães, 9 and 10 of October 2008.
- 18.** *Chairman* in one of the sessions do “*II Encontro Nacional de Estudantes de Materiais, II ENEM*”, Universidade do Minho, Guimarães, 5 to 7 of November 2008.
- 19.** Member of the *Scientific Committee* of the “*International Conference E-MRS 2009 Spring Meeting*”, Congress Center, Strasbourg, França, 8 to 12 of June 2009.
- 20.** *Chairman* in one of the sessions of the “*The E-MRS 2009 Spring Meeting – Symposium P: Protective coatings and Thin films’09*”, Congress Center, Strasbourg, França, 8 to 12 of June 2009.
- 21.** Member of the *Scientific Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2009*”, Brasov, Romania, 26 to 28 of February 2009.
- 22.** Member of the *Scientific Committee* do “*8^o Congresso Nacional de Mecânica Experimental 2010*”, Guimarães, 21 to 23 of April 2010.
- 23.** Member of the *International Advisory Board* of the “*International Ceramics Congress, CIMTEC 2010 - Symposium CG - Ceramic Thin Films and Coatings for Protective, Tribological and Multifunctional Applications*”, Montecatini Terme, Tuscany, Italy, 6 to 8 of June 2010.
- 24.** Member of the *Organizing Commission* dos “*Colóquios do Centro de Física of the Universidade do Minho 2009-2010 - to Ciência para tod@s... às quartas-feiras na UM*”, Ano letivo de 2009 -2010.
- 25.** Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2011*”, Brasov, Romania, 24 to 26 of February 2011.
- 26.** Member of the *International Advisory Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2011*”, Brasov, Romania, 24 to 26 of February 2011.
- 27.** Member of the *Organizing Committee* of the “*VI International Materials Symposium - Materiais 2011, XV meeting of SPM - Sociedade Portuguesa de Materiais*”, Guimarães, 18 to 20 of April 2011.
- 28.** *Chairman* em duas sessões of the “*VI International Materials Symposium - Materiais 2011, XV meeting of SPM - Sociedade Portuguesa de Materiais*”, Guimarães, 18 to 20 of April 2011.
- 29.** *Moderator of the round table* of “*II Jornadas de Bioquímica - Horizontes of the Bioquímica*”, Braga, 15 of April 2011.

30. Member of the *International Advisory Committee* of the “7th International Conference on Advanced Materials - ROCAM 2012”, Held under the auspices of the International Organization for Crystal Growth, Brasov, Romania, 28 to 31 of August 2012.
31. Member of the “*Section Organizers*” of the sessão “*Advances in Surface Science and Engineering*” of the 7th International Conference on Advanced Materials - ROCAM 2012, Held under the auspices of the International Organization for Crystal Growth, Brasov, Romania, 28 to 31 of August 2012.
32. *Chairman* in one of the sessions of the “13th International Conference on Plasma Surface Engineering – PSE 2012” Garmisch-Partenkirchen, Germany, 10 to 14 of September 2012.
33. Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2013*”, Brasov, Romania, 28 February to 2 March 2013.
34. Member of the *International Advisory Board* of the “13th International Ceramics Congress, CIMTEC 2014 - Symposium CI - Ceramic Thin Films and Coatings for Protective, Tribological and Multifunctional Applications”, Montecatini Terme, Tuscany, Italy, 8 to 13 of June 2014.
35. Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2015*”, Brasov, Romania, 5 to 7 of March 2015.
36. General Chairman e organizador of the 78th IUVSTA Workshop on “*New horizons in oxynitride thin films: from synthesis to applications*”, 5 to 9 of October 2015, Braga – Portugal.
37. Member of the *Scientific Committee* of the “*International Conference E-MRS 2016 Spring Meeting*”, Lille Grand Palais, França, 2 to 6 of May 2016.
38. Member of the *International Advisory Board* of the “15th International Conference on Plasma Surface Engineering – PSE 2016” Garmisch-Partenkirchen, Germany, 11 to 16 of September 2016.
39. Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2017*”, Brasov, Romania, 8 to 11 of March 2017.
40. Organizador do “*Symposium Q - Nano-engineering coatings and thin films*” of the “*International Conference E-MRS 2017 Spring Meeting*”, Convention Centre of Strasbourg (France), 22 to 26 of May 2017.
41. Member of the *International Advisory Board* of the “16th International Conference on Plasma Surface Engineering – PSE 2018” Garmisch-Partenkirchen, Germany, 17 to 21 of September 2018.
42. Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2019*”, Brasov, Romania, 13 to 16 March 2019.
43. Member of the *Scientific Committee* of the “*International Conference E-MRS 2019 Spring Meeting*”, Nice, France (Congress & Exhibition Centre Acropolis), 27 to 31 of May 2019.
44. Member of the *International Advisory Board* of the “17th International Conference on Plasma Surface Engineering – PSE 2020” Garmisch-Partenkirchen, Germany, 6 to 11 of September 2020.
45. Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2022*”, Brasov, Romania, 9 to 12 March 2022.
46. Member of the *International Advisory Board* of the “18th International Conference on Plasma Surface Engineering – PSE 2022” Garmisch-Partenkirchen, Germany, 12 to 15 of September 2022.
47. Co-Chairman e Member of the Organizing Committee of the 95th IUVSTA Workshop on “*Plasmonic Thin Films: Theory, Synthesis and Applications*”, 20 to 23 of June 2022, Guimarães – Portugal.

48. Member of the *Conference Advisory Committee* of the “*International Conference on Materials Science and Nanotechnology for Sustainable Applications - ICMSNSA 2023*”, Aurangabad, India, 23-24 March 2023.
49. Member of the *Organizing Committee* of the *Materiais 2023 – “XXI Congresso of the Sociedade Portuguesa de Materiais – MATERIAIS 2023, and the XII International Materials Symposium”*, 3 to 6 of April 2023, Guimarães – Portugal.
50. Organizador do “*Symposium I – Nano-engineered coatings and thin films: from fundamentals to applications*”, of the “*International Conference E-MRS 2024 Spring Meeting*”, Convention Centre of Strasbourg (France), 27 to 31 of May 2024. <https://www.european-mrs.com/nano-engineered-coatings-and-thin-films-fundamentals-applications-emrs>
51. Member of the *International Programme Committee* of the “*17th European Vacuum Conference (EVC-17) and 37th European Conference on Surface Science (ECOSS-37) - EVC-17/ECOSS-37*”, Harrogate, UK, 17 to 21 of June 2024. <https://iop.eventsair.com/evc17-ecoss37/committees>
52. Member of the *International Advisory Board* of the “*19th International Conference on Plasma Surface Engineering – PSE 2024*”, Erfurt, Germany, 2 to 5 of September 2024. <https://pse-conferences.net/home/committees/>
53. Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2024*”, Brasov, Romania, 13 to 16 March 2024.
54. Member of the *Scientific Committee* of the “*III Summer School Materials for energy transition*”, Sociedade Portuguesa de Materiais – SPM, 22 to 24 de July of 2024, Universidade de Aveiro, Portugal. <https://spmateriais.pt/site/3a-edicao-summer-school-materials-for-energy-transition/>
55. Member of the *International Scientific Committee* of the “*International Conference E-MRS 2025 Spring Meeting*”, Symposium T - *Eco-sustainable designing of thin films, nanostructures, nanohybrids and hydrogels for high-added value materials*, Strasbourg, France (Convention & Exhibition Centre of Strasbourg), 2025.), 26 to 30 of May 2025. <https://www.european-mrs.com/eco-sustainable-designing-thin-films-nanostructures-nanohybrids-and-hydrogels-high-added-value-0>
56. Member of the *Scientific Committee* of the *38th European Conference on Surface Science (ECOSS-38) - ECOSS-38*, Braga, Portugal, 24 to 29 of August 2025. <https://www.ecoss38.pt/committees>
57. Member of the *Conference Steering Committee* of the “*International Conference on Materials Science & Engineering - BRAMAT 2026*”, Brasov, Romania, 4 to 6 March 2026. <https://www.bramat.ro/committees.html>
58. Member of the *International Scientific Committee* of the “*International Conference E-MRS 2026 Spring Meeting*”, Symposium B - *Nano-engineered coatings and thin films: from design to applications*, Strasbourg, France (Convention & Exhibition Centre of Strasbourg), 2026), 25 to 29 of May 2026. <https://www.european-mrs.com/sites/default/files/symposium/pdf/flyer-emrs2026-folded-v7-final-1.pdf>

Paper reviewer

Thin Solid Films (ELSEVIER)
Vacuum (ELSEVIER)
Surface & Coatings Technology (ELSEVIER)
Materials Science and Engineering B (ELSEVIER)
Revisor para o Journal of Materials Processing Technology (ELSEVIER)
Journal of Alloys and Compounds (ELSEVIER)
Applied Surface Science (ELSEVIER)
Surfaces and Interfaces (ELSEVIER)
Plasma Processes & Polymers (Wiley-VCH)
Journal of Applied Physics (AIP)

Journal of Vacuum Science and Technology to (AIP)
 Journal of Vacuum Science and Technology B (AIP)
 Journal of Physics D: Applied Physics (IOP publishing)
 Materials Letters (ELSEVIER)
 Scripta Materialia (ELSEVIER)
 Materials Chemistry and Physics (ELSEVIER)
 Nanotechnology (IOP publishing)
 Revisor para o Bulletin of the Transilvania University of Brasov
 Electrochimica Acta (ELSEVIER)
 Chemical Physics Letters (ELSEVIER)
 International Journal of Materials and Product Technology (Inderscience Publishers)
 Materials Science Forum (Trans Tech Publications Ltd.)
 Functional Materials Letters (World Scientific Publishing Co)
 Optical Materials (ELSEVIER)
 Nanoscale Research Letters (Springer)
 Physica status solidi (a): Applications and Materials Science (Wiley-VCH)
 Wear (ELSEVIER)
 Journal of Materials Science (ELSEVIER)
 Photonics and Nanostructures - Fundamentals and Applications (ELSEVIER)
 Coatings (Open Access Journal by MDPI)
 Journal of Nanomaterials (Hindawi)
 Plasma (Open Access Journal by MDPI)
 Solid State Sciences (ELSEVIER)
 Nanomaterials (Open Access Journal by MDPI)
 Applied Materials Today (ELSEVIER)

Research projects

In terms of competitive financing of Research projects, the candidate was responsible (generally or at UMinho) for 31 projects, corresponding to total funding of almost €3 million for the University of Minho. In addition to these, he was (is) to member of the research team in 20 other projects, corresponding to total funding of almost €2.4 million for the University of Minho. The table below summarizes the distribution of projects and financing by type.

EUROPEAN

Project nº: 1	
Nível Participação:	PI
Designação do Projeto:	<i>“European cooperative network for to hyper-optimised science-industry synergy in the surface treatment <u>setor</u> (C.H.E.S.S.)”</i> . Project: SO2/1.3/E47
Programa Financiador:	Project submetido à Comunidade Europeia - “INICIATIVA COMUNITÁRIA INTERREG III-B PROGRAMA OPERATIVO ESPAÇO Sudoeste 2000-2006”.
Orçamento da UMinho:	124.000,00 €
Duração:	1/01/07 to 30/06/08
Project nº: 2	
Nível Participação:	PI
Designação do Projeto:	<i>“Network for the diffusion of plasma-based advanced surface treatments amongst the industries of the Euro-Atlantic area (PLASMANET)”</i> Project: 026 - PLASMANET.

Programa Financiador:	Projectsubmetido à Comunidade Europeia - "INICIATIVA COMUNITÁRIA INTERREG III-B PROGRAMA OPERATIVO ESPAÇO ATLÂNTICO 2000-2006".
Orçamento da UMinho:	120.000,00 €
Duração:	1/06/03 to 31/05/06

Project nº: 3

Nível Participação:	PI
Designação do Projeto:	<i>"Development of novel hard decorative coatings based on transition metal oxynitrides - Acronym: HARDECOAT".</i> Project: NMP3-CT-2003 505948.
Programa Financiador:	Projectsubmetido à Comunidade Europeia no âmbito do programa - Specific Targeted Research Projects (STREP) – inserido no 6º Programa quadro.
Orçamento da UMinho:	224.823,00 €
Duração:	1/02/2004 to 31/01/07

Project nº: 4

Nível Participação:	PI
Designação do Projeto:	<i>"Design and develop to new generation of color PVD coatings for creative demands applications. - Acronym: Nano4Color".</i>
	Research for SME'S FP7-SME-2012 - Grant agreement no: 315286.
Programa Financiador:	Projectsubmetido à Comunidade Europeia no âmbito do programa - SME-2012-1, Research for SMEs.
Orçamento da UMinho:	90.000,00 €
Duração:	1/05/2013 to 30/04/2015

Project nº: 5

Nível Participação:	PI
Designação do Projeto:	POSI – Programa Operacional Sociedade da Informação <i>"HARD SURFACE (associado ao Hardecoat)"</i> Project: Medida 1.3 "Investigação e Desenvolvimento" do Eixo 1 "Desenvolver Competências".
Programa Financiador:	FCT
Orçamento da UMinho:	15.000,00 €
Duração:	Sem Definição

Project nº: 6

Nível Participação:	Member of Research Team
Designação do Projeto:	<i>"Nanocomposites with High Colouration Efficiency for Electrochromic Smart Plastic Devices"</i> Project: "NANOEFFECT"
Programa Financiador:	Projectsubmetido à Comunidade Europeia no âmbito do programa - Specific Targeted Research Projects (STREP).
Orçamento da UM:	125.000,00 €
Duração:	1/01/04 to 31/12/06

Project nº: 7

Nível Participação:	PI
Designação do Projeto:	Project: FP6-019521 (FisicUM – MYPhysics)
Programa Financiador:	Comissão Europeia
Orçamento da UMinho:	10.000,00 € destinados à organização de Workshops na UM
Duração:	Ação realizada em novembro de 2005.

Project nº: 8

Nível Participação:	Member of Research Team
Designação do Projeto:	Project: “SensEcoMed” - “Sensor- und Messtechnologien für eine nachhaltig rohstoff- und materialeffiziente Medizintechnik - SensEcoMed”
Programa Financiador:	Landesentwicklungsgesellschaft Thüringen mbH (LEG Thüringen) / European Regional Development Funds (EFRE)
Orçamento:	296.588,00 € Destinados aos parceiros Alemães
Duração:	1/01/2012 to 31/12/2013

Project nº: 9

Nível Participação:	Member of the External Advisory Board (http://cordis.europa.eu/project/rcn/109927_en.html)
Designação do Projeto:	ANDREA - Active Nanocoated DRY-electrode for EEG Applications (http://www.andreaproject.eu/)
Programa Financiador:	Comissão Europeia - FP7-PEOPLE Marie Curie Industry-Academia Partnership and Pathways (IAPP), Funding scheme: Industry-Academia Partnerships and Pathways (IAPP)
Orçamento:	€ 1.595.310,46 for all project (Traveling and leaving expenses for each participation meeting para to UMinho payed by coordinator)
Duração:	1/01/2014 to 31/12/2017

Project nº: 10

Nível Participação:	Member of the External Advisory Board (https://cordis.europa.eu/project/rcn/217947/en)
Designação do Projeto:	INFANS - Integrating Functional Assessment measures for Neonatal Safeguard (https://www.tu-ilmeneau.de/en/infans/)
Programa Financiador:	Comissão Europeia - H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers - MARIE SKŁODOWSKA-CURIE ACTIONS MSCA-ITN-2018 - Innovative Training Networks (ITN) Call: H2020-MSCA-ITN-2018 - Grant agreement ID: 813483
Orçamento:	€ 3.950.394,84 for all project (Traveling and leaving expenses for each participation meeting para to UMinho payed by coordinator)
Duração:	1/01/2019 to 31/12/2022

Project nº: 11

Nível Participação:	Co-PI
Designação do Projeto:	“NeMoRehab - Multimodal closed-loop biofeedback system for neuro-motor rehabilitation”
Programa Financiador:	Project approved by Comunidade Europeia no âmbito do programa – Eureka-Eurostars
Orçamento da UMinho:	256.941,32 €
Duração:	01/12/23 to 30/11/26

Project nº: 12

Nível Participação:	Member of Research Team
Designação do Projeto:	“BioimpACE+ - Impulso de la bioimpresión y los microrreactores en medicina regenerativa - 0140_BIOIMP_ ACE_MAS_6_E”
Programa Financiador:	Projecto financiado pelo Fundo Europeu de Desenvolvimento Regional (FEDER), pelo Programa de Cooperação Transfronteiriça Interreg Espanha-Portugal (POCTEP) 2021-2027
Orçamento da UMinho:	221 378,80 €
Duração:	01/07/23 to 30/06/26

Project nº: 13

Nível Participação:	PI
Designação do Projeto:	“BRAINET - Networked Distributed Neural Interfaces for Interference-Based Brain Stimulation”
Programa Financiador:	MARIE SKŁODOWSKA-CURIE ACTIONS - HORIZON-TMA-MSCA-DN, Doctoral Networks (DN). Call: HORIZON-MSCA-2024-DN-01-01, Proposal number: 101225775
Orçamento da UMinho:	558 890,64 €
Duração:	01/01/2026 to 31/12/2029

National**Project nº: 1**

Nível Participação:	Member of the Resaerch Team
Designação do Projeto:	“Produção e caracterização de revestimentos nanoestruturados em multicamadas de TiN/Mo e ZrN/TiN”
Programa Financiador:	JNICT/FCT - Projectnº: PBICT/C/CTM - 1962/95
Orçamento Total:	32.671,26 €
Duração:	1/01/96 to 31/12/98

Project nº: 2

Nível Participação:	Member of the Resaerch Team
Designação do Projeto:	“Effect of Si Additions on Physical and Mechanical Properties of TiN and (Ti,Al)N Coatings”.
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” – POCTI/CTM/32670/00
Orçamento Total:	39.903,83 €
Duração:	1/01/01 to 31/12/03

Project nº: 3

Nível Participação:	PI
Designação do Projeto:	“Filmes Finos Coloridos de MeN _x O _y e MeC _x O _y , com Me = Ti, Cr, Zr e Al”.
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” POCTI/CTM/38086/2001

Orçamento Total: 52.104,00 €
Duração: 01/06/03 to 31/05/06

Project nº: 4

Nível Participação: **Member of the Resaerch Team.**
Designação do Projeto: *"PVDCOAT - Revestimentos compósitos e multicamada protetores para sistemas eficientes de energia".*
Programa Financiador: "Fundação para to Ciência e to Tecnologia FCT" POCTI/CTM/39316/2001
Orçamento Total: 50.000,00 €
Duração: 01/01/03 to 31/12/05

Project nº: 5

Nível Participação: **Member of the Resaerch Team.**
Designação do Projeto: *"Deposição de revestimentos de titânia fotocatalíticos e autolimpantes em superfícies vidradas".*
Programa Financiador: "Fundação para to Ciência e to Tecnologia FCT" POCTI/FIS/58240/2004
Orçamento Total: 99.060,00 €
Duração: 01/01/05 to 31/12/07

Project nº: 6

Nível Participação: **PI**
Designação do Projeto: *"POLIFILM – Filmes finos multifuncionais para aplicações flexíveis e em materiais plásticos".*
Programa Financiador: "Fundação para to Ciência e to Tecnologia FCT" PTDC/CTM/69362/2006
Orçamento Total: 108.000,00 €
Duração: 01/01/08 to 31/12/10

Project nº: 7

Nível Participação: **PI**
Designação do Projeto: *"DecoMat - Desenvolvimento de revestimentos decorativos com estrutura nanocompósita de "clusters" de metal dispersos numa matriz dielétrica".*
Programa Financiador: "Fundação para to Ciência e to Tecnologia FCT" PTDC/CTM/70037/2006
Orçamento Total: 46.368,00 € para to UM (Projecttotal: 150.000,00 €)
Duração: 01/01/08 to 31/12/10

Project nº: 8

Nível Participação: **Member of the Resaerch Team.**
Designação do Projeto: *"Modificação superficial vs. mecanismos de tribocorrosão e citotoxicidade de Ti e ligas de Ti para aplicações dentárias".*
Programa Financiador: "Fundação para to Ciência e to Tecnologia FCT" PTDC/CTM/68160/2006
Orçamento Total: 120.000,00 €
Duração: 02/01/08 to 01/01/11

Project nº: 9

Nível Participação:	Member of the Resaerch Team.
Designação do Projeto:	<i>“ANTIMICROBOCOAT- Desenvolvimento de revestimentos multifuncionais com propriedades antimicrobianas para implantes ortopédicos”.</i>
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” PTDC/CTM/102853/2008
Orçamento Total:	119.500,00 €
Duração:	01/03/10 to 28/02/13

Project nº: 10

Nível Participação:	PI
Designação do Projeto:	<i>“PROTSENSOR – Um novo sistema de sensores em rede para medidas de pressão estática e dinâmica. Aplicação no mapeamento de pressões exercidas em membros amputados/próteses”.</i>
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” PTDC/CTM-NAN/112574/2009
Orçamento Total:	132.344 €
Duração:	01/05/11 to 30/04/14

Project nº: 11

Nível Participação:	PI
Designação do Projeto:	<i>“WICKEEG - to Novel Polymer Wick Based Elecrode for EEG Monitoring: From Materials Development to IN-VIVO Testing”.</i>
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” PTDC/SAU-ENB/116850/2010
Orçamento Total:	53.040,00 € para to UM (Projecttotal: 112.560,00 €)
Duração:	01/01/12 to 31/12/15

Project nº: 12

Nível Participação:	PI
Designação do Projeto:	<i>“NANOSENSING - Semiconductor nanocomposite thin films composed of noble metal nanoparticles dispersed in reactive metaloxide matrixes for LSPR gas sensing applications”.</i>
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” PTDC/FISNAN/1154/2014 - Projetos de IC&DT – código: 04/SAICT/2015
Orçamento Total:	180.408,00€ (85.584,00 para to UMinho)
Duração:	01/07/16 to 30/06/19

Project nº: 13

Nível Participação:	PI
Designação do Projeto:	<i>“PLASCOAT – Metalização inovadora e ecológica de plásticos por PVD e CVD assistido por plasma”.</i>
Programa Financiador:	SISTEMA DE INCENTIVOS À INVESTIGAÇÃO E DESENVOLVIMENTO TECNOLÓGICO (SI I&DT) - PROJETOS EM CO-PROMOÇÃO Portugal 2020
Orçamento Total:	236.436,91€ para to UMinho
Duração:	01/01/16 to 31/12/18

Project nº: 14

Nível Participação:	PI
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Designação do Projeto:	<i>“Smart Active Mould (SAM) - Otimização do desempenho térmico da moldação por injeção”.</i>
Programa Financiador:	SISTEMA DE INCENTIVOS À INVESTIGAÇÃO E DESENVOLVIMENTO TECNOLÓGICO (SI I&DT) - PROJETOS EM CO-PROMOÇÃO Portugal 2020 – Project nº 33/SI/2015 POCI-01-0247-FEDER-017620
Orçamento Total:	893 165.05€ (157.062,56 € para to UMinho)
Duração:	01/10/16 to 31/09/19

Project nº: 15

Nível Participação:	PI
Designação do Projeto:	<i>“On-SURF - Mobilizar Competências Tecnológicas em Engenharias de Superfícies”.</i>
Programa Financiador:	SISTEMA DE INCENTIVOS À INVESTIGAÇÃO E DESENVOLVIMENTO TECNOLÓGICO (SI I&DT) - PROJETOS MOBILIZADORES Portugal 2020 – Project nº 10/SI/2016 Código da Operação: POCI-01-0247-FEDER-024521 Referência: Mobilizador 24521 On-Surf
Orçamento Total:	345.859,66€ para to UMinho (dividido por 2 investigadores – FVaz e SCarvalho)
Duração:	01/01/18 to 31/12/21

Project nº: 16

Nível Participação:	PI
Designação do Projeto:	<i>“NANO4BIO - Plasmonic nanoparticles for bio-detection”.</i>
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” POCI-01-0145-FEDER-032299 and PTDC/FIS-MAC/32299/2017
Orçamento Total:	230.083,05 € (Budget UMINHO: 117.558,20 €)
Duração:	01/07/2018 to 30/06/2022

Project nº: 17

Nível Participação:	PI
Designação do Projeto:	<i>“NanoStim - Nanomaterials for wearable-based integrated biostimulation”.</i>
Programa Financiador:	Sistema de Incentivos à Investigação e Desenvolvimento Tecnológico (SI I&DT), suportado pelo(s) orçamento(s) do(s) programa(s) COMPETE - Programa Operacional Competitividade e Internacionalização (COMPETE 2020) POCI-01-0247-FEDER-045908
Orçamento Total:	249.027,33 € (para UMinho)
Duração:	01/04/2020 to 31/03/2023

Project nº: 18

Nível Participação:	PI
Designação do Projeto:	<i>“NanoID - Nanomateriais aplicados na reabilitação muscular de IDosos com recurso à Inteligência Artificial”.</i>
Programa Financiador:	Sistema de Incentivos à Investigação e Desenvolvimento Tecnológico (SI I&DT), suportado pelo(s) orçamento(s) do(s) programa(s) COMPETE - Programa Operacional Competitividade e Internacionalização (COMPETE 2020) NORTE-01-0247-FEDER-046985
Orçamento Total:	523.991,03€ (para UMinho)
Duração:	01/07/2021 to 30/06/2023

Project nº: 19

Nível Participação:	Member of the Resaerch Team
Designação do Projeto:	<i>“CO2PLASMON - Plasmon-Enhanced Photosynthetic Microalgae Growth for CO₂ Bio-Mitigation”.</i>
Programa Financiador:	“Fundação para to Ciência e to Tecnologia FCT” - EXPL/CTM-REF/0750/2021
Orçamento Total:	49.994,99 €
Duração:	01/01/2022 to 30/06/2023

Project nº: 20

Nível Participação:	Co-PI
Designação do Projeto:	<i>Projectn.º 23 - “2022-C05i0101-02 - Agendas para to Inovação Empresarial” PRR - “AGENDA DRIVOLUTION - Transição para to Fábrica do Futuro”.</i>
Programa Financiador:	Lider: VOLKSWAGEN AUTOEUROPA, LDA Agência financiadora: “UE - IAPMEI” Código da Candidatura: C644913740-00000022
Orçamento Total:	1.311.020,54 €
Duração:	01/01/2023 to 31/12/2025

Project nº: 21

Nível Participação:	Member of the Resaerch Team
Designação do Projeto:	Metalização de polímeros auxiliada por “machine learning” para to indústria automóvel Project aproved by FCT - Concurso de Projetos Exploratórios no âmbito do Programa MIT Portugal - 2022. Ref.ª - 2022.15750.MIT
Programa Financiador:	
Orçamento Total:	49.990,49 €
Duração:	01/10/2023 to 30/09/2024

Project nº: 22

Nível Participação:	Co-PI
Designação do Projeto:	Multimodal closed-loop biofeedback system for neuro-motor rehabilitation (NeMoRehab) Eureka (Eurostars 3 – Call 4)
Programa Financiador:	Funded by National Agency for Innovation (ANI), Projetos e I&D Industrial à Escala Europeia no âmbito do Portugal 2030 Ref.ª - Project3431
Orçamento Total:	256 945,00 €
Duração:	01/12/2023 to 30/11/2026

Project nº: 23

Nível Participação:	Co-PI
Designação do Projeto:	Sistemas eficientes de nanomateriais auto-alimentados para mapear to microatividade muscular através da colheita e armazenamento de energia biomecânica (NanoPower)
Programa Financiador:	Exploratory Project from Programa UT Austin – Portugal 2022 Ref.ª - 2022.15686.UTA Financiado pela FCT - Fundação para to Ciência e Tecnologia
Orçamento Total:	311 569,60 €

Duração: 15/05/2024 to 14/04/2025

Project nº: 24

Nível Participação: PI

Designação do Projeto: PostureCare - Sistema Inovador de Correção Postural e prevenção de dor de costas em Crianças e Jovens

Programa Financiador: Agência Nacional de Inovação (ANI): Portugal 2030 - Programa Inovação e Transição Digital | Compete 2030 - SIID – I&D Empresarial – Operações em Copromoção

Financiado pela FCT - Fundação para a Ciência e Tecnologia

Orçamento Total: 49.803,80 €

Duração: 01/12/2025 to 30/11/2027