europass Curriculum Vitae

PERSONAL INFORMATION

VIZUREANU PETRICĂ



peviz2002@yahoo.com

Website: http://www.afir.org.ro/peviz/

https://simtit.ro/

Nationality Romanian

POSITION WITHIN THE GRANT/PROJECT

Leader of theme

WORK EXPERIENCE

Higher Education

Didactic – 30 years experience

01 March 2012 – present
Director of Departament of Technologies and Equipment for Materials Processing
Professor - Higher education, teaching professional, research & development
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.
University management activities. Responsibilities: initiating projects with national and international funding; quality assurance in the educational process; courses, projects, didactic laboratories.

2021 – present
Associate member
Academy of Technical Sciences from Romania, Materials Science and Engineering Section

2009 – present
University professor at the Faculty of Materials Science and Engineering
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.
Type or sector of activity: Higher education - University management – R&D.

01 March 2008 – 01 March 2012
Vice-dean
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.
University management activities. Responsibilities: collaborating with other universities and research entities in the country and abroad, initiating projects with national and international funding, organizing. scientific events.
Type or sector of activity: Higher education - University management.

23 April 2010 – present
Forensic investigator
Ministry of Justice, Str. Apolodor, no. 27, Bucharest, Romania.
Technical expertise in the field of Technological Equipment.
Type or sector of activity: Research / Justice

2002 – 2009
Associated Profesor at the Faculty of Materials Science and Engineering
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.

1999 – 2002
Lecturer at the Faculty of Materials Science and Engineering
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.

1996 – 1999
Asistent Profesor at the Faculty of Materials Science and Engineering
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.

1993 – 1996
University preparator at the Faculty of Materials Science and Engineering
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.

EDUCATION AND TRAINING

01 April 1994 – 18 December 1999
Ph.D. Degree, Materials Science and Engineering / Heating Equipment Assisted by Computer
"Gheorghe Asachi" Technical University of Iasi, Faculty of Materials Science & Engineering, Dimitrie Mangeron, no. 63, 700050, Iași, România.

15 September 1987 – 15 June 1992
Engineer Diploma, Specialization Mechanical Engineering
"Gheorghe Asachi" Technical University of Iasi, FACULTY OF MECHANICS , Dimitrie Mangeron, no. 63, 700050, Iași, România.

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2
German	B2	C1	B1	B1	B2
Italian	B2	B2	B2	B1	A2
Spanish/Castilian	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills

Ability to adapt to multicultural environments, gained through work experience abroad in the context of various international contacts in research programs; Very good communication skills within the teams I have been or have been lead; Team spirit.

Organisational / managerial skills

Leadership - currently responsible for a team of 15 people; Organizational spirit (experience in logistics); Very rich experience in the field of project management; Decision-making capacity.

Job-related skills / Research activities

1. **Research Projects (48 projects):** Director / Responsible in 3 international projects; Director / Responsible in 7 national projects; Member in 38 /internationalnational projects

- **Project Director – 2024-2027: "**A new generation of metallic biomaterials as health solution for a sustainable life**",** Project ERA-MIN Joint Transnational Call 2023, Cool&SMartTit Project
- **Project Responsible – 2023-2026: „**Harnessing complementary curricular preparedness via sustainable management in response to civil and military pollution on the coastline, tributaries and lagoons in Black Sea's North,West,South zone", Call: EMFAF-2023-PIA-FLAGSHIP, Type of action: EMFAF-PJG, Proposal number: 101124670, Black Sea SIERRA
- **Project Director – 2022-2024:** „Environmental footprint reduction though eco-friendly technologies of mine tailings recycling" Project, COFUND-ERAMIN-3-RecMine.
- **Project Director** for Internal Grant GI / P6 / 2021, Project to support publishing capacity - PUBLICATIONS, competition organized within TUIASI.
- **Project Director** for Internal Grant GI / MedTech_ 8 /2022, competition organized within TUIASI
- **Project Director** with IUCN Order no. 397 / 27.05.2019, with the title: "Study of structure and properties of novel functional biomaterial by neutron scattering and complementary methods", contract no. 4860-4-19 / 20 theme code 04-4-1121-2015 / 2020
- **Project Director** with IUCN Order no. 395 / 27.05.2019, entitled "Ti-based alloys as a new biomaterials used in medical applications", theme code 04-4-1121-2015 / 2020
- **Project Director for Component 2, Contract** PN-III-P1-1.2-PCCDI-2017-0239 – **2018-2021**:**"Aliaje biocompatibile pe bază de titan pentru protetica medicala din sisteme complexe microaliate – BioTIT"** of the Complex Project - OBȚINEREA ȘI EXPERTIZAREA UNOR NOI MATERIALE BIOCOMPATIBILE PENTRU APLICAȚII MEDICALE".
- **Project Director - 2007-2010: Interdisciplinary researches on the determination of the potential limits of solar energy in solid bodies on the heating-melting range, the National Program for Research and Development-Innovation II, the IDEI Program,** Contract nr. 105/01.10.2007.
- **Project Manager - 2006-2008: Expert Systems for Control of Thermal Systems**, National Excellence Research Program CEEX 2006, Contract no. 171 / 20.07.2006.
- **Project manager - 2008-2011: Research on the development of a new class of alloys (Al-Cu-Mn) and the achievement of a thermomechanical fatigue standard for shape memory alloys**, the Partnership Program, contract no. 72-161 / 01.10.2008.
- **Scientific Coordinator - 2008-2011: Precipitation technologies disperse in a solid state at nanometric level using thermal fields with alternating stationary and transient cycles**, Partnership Program, contract no. 72-163 / 01.10.2008.
- **Member** of 37 other national projects (1996 – 2021 period)

Publication Published work summary

- More than 200 Web of Science indexed papers
- 9 International books, 20 International book chapters, 13 National books, 3 Didactic manuals / Monographs, 3 Laboratory guidance, 9 Books / chapters as editor
- 16 national and international patents
- Citations: 2300 (Source: Web of Science); 2717 (Source: Google Scholar)
- H-index: 27 (Source: Web of Science); 23 (Source: Google Scholar)

Researcher activities

1. **Professor invited** for lectures at prestigious universities: National Taiwan University of Science and Technology – 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018; Universiti Perlis Malaysia – 2015, 2016. 2017, 2018, 2022-2024.
2. **Editor in Chief** of European Journal Materials Science Engineering – www.ejmse.tuiasi.ro.

3. **Chairman** of International Conference on Innovative Research ICIR EUROINVENT 2015-2022, http://www.euroinvent.org/events-2/icir-conference/
4. **Member of journal editorial teams**: member of the Editorial board of the International Journal on Heat and Mass Transfer - Theory and Applications; ATTIS Magazine; International Journal of Conservation Science; **International** Journal of Mining Science; American Journal of Bioengineering and Biotechnology, ICIR Euroinvent 2015 – 2022.
5. **Member of national / international scientific committees** / program (at congresses, conferences, etc.): MODTECh 2014; ICAMET 2014; Euroinvent 2014-2022; Ugalmat 2014 Galati; Afases 2014 Brasov, Romat 2016-2020, Bramat 2015-2022
6. **Member of expert assessment** (evaluation) teams of the educational process (ARACIS, EUA, etc.)
7. **Organizer of national / international scientific events** / invited sessions: EUROINVENT 2012-2017; ICIR 2015-2018, ICAMET 2014; MODTECH 2014.
8. **National and international scientific / scientific adviser** (for magazines, congresses, etc.): 01 iiis2011.org; **Modtech**; IJMPT; Ireheat; PCM; ASTR; ASER; JERR; ERMM; BRAMAT; AJAS; Materials & Design; IJCS; SECM; JOL; ROMAT; AMCE; IRJMSE; RRM; RMET; Ultrasonics; Coatings; JALCOM; Materials Research; Energies.
9. **Activities with the students:** Leading students in scientific competitions , Preparing for professional competitions, Leading graduation works2), bachelor's degree, dissertation, doctorate (including cotutela, members in the team of tutors), organizing study tours, presenting the offer university education in high schools; Activities with ERASMUS students.
10. **Reviewer** (over 415 verified reviews: https://www.webofscience.com/wos/author/record/E-5108-2010: Materials; **Materials** & Design; Journal of Building Engineering; Polymers; Metals; Coatings; Archives of Metallurgy and Materials; Technium; Materials Chemistry and Physics; World Multi Conference on Systemics; Cybernetics and Informatic; Asian Journal of Applied Sciences; Crystals; Sustainability; Materials Letters; Dentistry Journal; Applied Surface Science Advances; Materials Science and Engineering; Nanomaterials; Aerospace; Colloids and Surfaces B; Energies; International Journal of Sediment Research; Journal of Engineering and Applied Science(Cairo University); Journal of Materials Research and Technology; Applied Sciences; Computation; International Research Journal of Materials Science and Engineering; Journal of Alloys and Compounds; Machines; Materialia; Materials Research; Microstructures; Processes; Scientific Reports; Ultrasonics; Archives of Civil Engineering; Corrosion Science; Corrosion and Materials Degradation; E-Polymers; Energy Harvesting and Systems; International Conference and Applied Informatics; International Conference on Artificial Intelligence; Micromachines; International Multi-Conferences on Society, Cybernetics and Informatics; Journal of Zhejiang University Science A; Optik-International Journal for Light and Electron Optics; Rare Metals; Proceedings of the World Multi-conference.
11. **Guest Editor (MDPI)**

- Guest Editor for Special Issue in Coatings: ***„Surface Treatment of Metals"***
- Guest Editor for Special Issue in Materials: ***„Advanced Surface Treatment Technologies for Metallic Alloys"***
- Guest Editor for Topical Collection in Coatings: ***„Feature Paper Collection (5) of Topic Editors"***
- Guest Editor for Special Issue in Magnetochemistry: ***„In-Depth Assessment of Highly Specialised Materials"***
- Guest Editor for Special Issue in Materials: ***„Future Trends in Advanced Materials and Processes"***
- Guest Editor for Special Issue in Micromachines: ***„Implantable Biocompatible Alloys Devices and Application"***
- Guest Editor for Special Issue in Coatings: ***„Surface Treatment of Metals II"***
- Guest Editor for Special Issue in Materials: ***„New Geopolymers Used in Civil Engineering"***
- Guest Editor for Special Issue in Coatings: ***„Application, Processing and Testing of Modern Biomaterials"***
- Guest Editor for Special Issue in Applied Sciences: ***„Modern Biomaterials: Latest Advances and Prospects "***
- Guest Editor for Special Issue in Crystals: ***„Advances in New Functional Biomaterials for Medical Applications"***
- Guest Editor for Special Issue in Magnetochemistry: ***In-Depth Assessment of New Magnetic Materials***
- Guest Editor for Special Issue in Bioengineering: ***Recent Prospects on Functional Biomaterials***
- Guest Editor for Special Issue in Metals: ***Future Trends in Metallic Biomaterials***
- Topic Editor (MDPI), Topics: ***„Cutting-Edge Research Trends in (Non)Metallic Materials: Design, Testing and Application"***

Technical skills and competences

• Competences: Expert evaluator for EU Comission Pathfinder competitions (2023-2025) Expert evaluator Czech Science Foundation (2022), Expert evaluator NCN Poland (2019-2025), Expert evaluator of Innovation Fund Denmark projects (2022), Expert evaluator of RESEARCH GRANTS COUNCIL projects, Hong Kong (2020-2024), Expert evaluator of Grantova Agentura Czech projects (2021), Expert evaluator projects Estonia (2022), Expert evaluator of Innovation Fund Large Scale Projects projects – European Commission (2021-2022), Expert evaluator Latvian Council of Science, Latvia (2021), Expert evaluator of Eureka Association projects – Eurostars (2015-2022), Permanent expert AMCSIT Bucharest (2004-2010), www.amcsit.ro; Expert CNCSIS Romania (2004-2009), www.cncsis.ro; Expert CNMP Romania (2007-2008), www.cnmp.ro; National Expert Science Fund - Bulgaria (2008-2009), www.nsfb.net, ARACIS accredited Assessor, CNATDCU member, Materials Engineering Commission
• Technical skills

• Concerns concretized and highlighted within the list of works in fields of competence: Biomaterials: material characterization, testing and expertise; medical devices; surface properties; tissue-implant interaction phenomena, Materials science, Unconventional energies, Refractory materials, Computer-aided design; Occupational health and safety, Management and commercial engineering.

Digital competence

Concerns concretized and highlighted in the list of papers in areas of competence: Biomaterials: characterization, testing and material expertise; medical devices; surface properties; tissue-implant interaction phenomena, materials science, unconventional energy, refractory materials, computer aided design; Safety and Health at Work, Management and Commercial Engineering. Skills to use Microsoft Office (Word, Excel, PowerPoint); Visual Basic, Delphi, Windows Autodesk products.

Driver's license

Driving license category B

ADDITIONAL INFORMATION

- List of papers
- Participation at many international invention salons (IWA Week, INOVA CROATIA, Euroinvent, Euroinvent Book Salon, Pi-Envex, iCAN, ICE-USV, INVENTCOR, ISIF, Thailand Inventors Day, 1 IDEA 1 WORLD (1I1W), BIIS etc.): 22 Gold Medals, 5 Silver Medals, 2 Bronze Medals, 5 Special Prizes

Date:
12.01.2026

Professor Eng. **Petrica VIZUREANU**, Ph.D.