



Europass Curriculum Vitae

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Personal information

First name(s) / Surname(s) **PAVELESCU, Emil Mihai**
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E-mail emil.pavelescu@imt.ro
Nationality Romanian
Date of birth 09.08.1971
Gender Male

Desired employment / Occupational field

Dates	09.09.2024 - present
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching, Research
Name and address of employer	National University of Science and Technology POLITEHNICA Bucuresti, Hyperion University, 169, Calea Calarasilor, 030615, Bucharest, Romania
Type of business or sector	Solid state physics, Physics of advanced electronic materials Materials for Electronics
Dates	01.03.2018 – 30.09.2024
Occupation or position held	Professor
Main activities and responsibilities	Teaching, research
Name and address of employer	Hyperion University, 169, Calea Calarasilor, 030615, Bucharest, Romania
Type of business or sector	Solid state physics, Physics of advanced electronic materials
Dates	15.02.2012 - present
Occupation or position held	Scientific Researcher grade I
Main activities and responsibilities	Research
Name and address of employer	IMT-Bucharest, 126A, Eroulancu Nicolae, 077190, Voluntari, Romania
Type of business or sector	Synthesis (molecular beam epitaxy) and characterization of semiconductor heterostructures and devices
Dates	05.09.2011–28.02.2018
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching, research
Name and address of employer	Hyperion University, 169, Calea Calarasilor, 030615, Bucharest, Romania
Type of business or sector	Solid state physics, Physics of advanced electronic materials
Dates	01.05.2011 – 15.02.2012
Occupation or position held	Scientific Researcher grade III
Main activities and responsibilities	Research
Name and address of employer	IMT-Bucharest, 126A, Eroulancu Nicolae, 077190, Voluntari, Romania
Type of business or sector	Characterization of semiconductor heterostructures and devices

Dates	20.10.2010 – 30.04.2011
Occupation or position held	Postdoctoral Scientific Researcher
Main activities and responsibilities	Research
Name and address of employer	IMT-Bucharest, 126A, Eroulancu Nicolae, 077190, Voluntari, Romania
Type of business or sector	Characterization of semiconductor heterostructures and devices
Dates	01.11.2006 – 31.10.2009
Occupation or position held	Senior Researcher (Wissenschaftlicher Assistant), Group Leader
Main activities and responsibilities	Research, Teaching
Name and address of employer	University of Kassel, 40, Heinrich-Plett-Str., 34132, Kassel, Germany
Type of business or sector	Growth (molecular-beam epitaxy) and characterization of III-V semiconductor heterostructures and devices
Dates	01.04.2001 – 30.06.2006
Occupation or position held	Researcher (Marie-Curie Fellow 01.04.2001-31.03.2002)
Main activities and responsibilities	Research
Name and address of employer	Optoelectronics Research Centre, Tampere University of Technology, 3, Korkeakoulunkatu, 33720, Tampere, Finland
Type of business or sector	Synthesis and characterization of III-V semiconductor heterostructures and devices
Dates	01.10.1997 – 30.09.2006
Occupation or position held	University Instructor (01.10.1997 - 28.02.2001) and University Assistant
Main activities and responsibilities	Teaching assistance
Name and address of employer	Valahia University, 18-24, B-dul Unirii, 130082, Targoviste, Romania
Type of business or sector	Physics

Education and training

Dates	01.08.2002 – 13.10.2004
Title of qualification awarded	Doctor of Technology
Principal subjects/occupational skills covered	Technological Physics/Physics and technology of compound III-V semiconductors
Name and type of organisation providing education and training	Tampere University of Technology, Tampere, Finland
Level in national or international classification	Excellent (highest degree)
Dates	1996 – 1997
Title of qualification awarded	Master of Science
Principal subjects/occupational skills covered	Technological Physics/Metrology
Name and type of organisation providing education and training	University of Bucharest, Bucharest, Romania
Level in national or international classification	9.5 (10 maximum)
Dates	1990 – 1995
Title of qualification awarded	Engineer in Physics
Principal subjects/occupational skills covered	Technological Physics
Name and type of organisation providing education and training	University of Bucharest, Bucharest, Romania
Level in national or international classification	9.83 (10 maximum)

Personal skills and competences

Mother tongue(s) Romanian

Other language(s) **1. English, 2. German**

Self-assessment

European level (*)

Language**Language**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
1.	B2	1.	C1	1.	B1	1.	B2	1.	C1
2.	A2	2.	A2	2.	A1	2.	A1	2.	A2

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences team spirit; very good ability to adapt to multicultural environments, gained by various work experiences abroad

Computer skills and competences Windows 11 and XPro, Origin, Microsoft Office.

Driving licence Category B

Additional information Married, 2 children**Annexes** List of projects as coordinator/principal investigator; List of European projects involvement abroad; List of awarded fellowships.

Relevant experience: 2016-2017 Member of the National Council of Scientific Research (CNCS), Head of the Physics Commission, over 10 years research experience abroad in various institutions (Japan, Germany, Finland, Greece), capacity of fund raising and initiate/coordinate research projects

Researcher ID:E-7512-2010: ORCID: <https://orcid.org/0000-0001-9698-6748>, 95 ISI publications gathering over 900 citations (excluding self-citations) having a Hirsch Index of: 20 according to the ISI WEB of Science, 19 according to Scopus, and 22 according to Google Scholar

Previous/current projects as project coordinator/principal investigator in Romania:

2024 – 2027 Project Partner (national project): “Enhanced proton acceleration in near critical density plasmas by engineering multi-layer targets and applications - HighProtonPLas” PNIV:P5.9/5.9.1(ELI-RO coordinator and INFLPR partner)

2022 – 2024 Project Coordinator (national project): “Innovative III-N alloys and structures for high EFFICIENCY solar cells on low cost Si platform – EFFICIENSi,” PN-III-P4-PCE-2021-1575.

2022 – 2024 Project Coordinator (national project): “Strain and bandgap engineered InGaN/BGaN superlattice solar cells,” PN-III-P2-2.1-PED-2021-3525 (INFLPR as partner).

2018-2020 Project partner co-coordinator (national project): “Technologic paradigms in synthesis and characterization of variable dimensionality systems,” <https://infim.ro/project/varдимtech/>.

2017-2019 Project Coordinator (national project): “Novel BInGaN semiconductor compounds for high efficiency solar cells,” PN-III-P4-ID-PCE-2016-0742, <http://www.imt.ro/BN-Cell>.

2015-2017 Project Coordinator (national project): “Novel III-N-Bi semiconductor compounds for high efficiency solar cells,” PN-II-RU-TE 2014, <http://www.imt.ro/N-BiCell>.

2014-2017 Project Coordinator (international project): “Engineered group III-N-(As) alloys and low-dimensional heterostructures for high efficiency intermediate band solar cells”, EEA-RO 2009-2014 Financial Mechanism, (Norwegian University of Science and Technology as partner), http://www.imt.ro/N-iBCell/index_en.php.

2010-2012 Principal Investigator (PI): “Development of advanced heterostructures containing III-N compound semiconductors used in high efficiency solar cells”, POSDRU/89/1.5/63700.

Involvement in European Projects abroad:

2008-2012 – FP7 **Delight** (Development of low-cost technologies for the fabrication of high-performance telecommunication lasers) (key investigator, Germany)

2006-2009 – FP6 **Brighter** (World WideWelfare: highBrightness semiconductor lasers for generic use)(project responsible, Germany)

2004-2008 - FP6 **FAST ACCESS** (Low-Cost 1.3 μm Sources for FAST ACCESS Technologies) (Finland)

2002-2006 - FP5 **MONOPLA** (MONolithic short Optical Pulse Laser sources for ultrahigh speed communications) (Finland)

Fellowships

2020 - Research Fellowship under the “FY2019 JSPS Invitation Fellowship Program for Research in Japan (Short-Term)”, 2 months to Toyohashi University (Prof. Akihiro Wakahara).

2006 - Research fellowship: “Dilute nitride antimonides as new gain media for long-wavelength lasers”, “Emil Aaltosen” Foundation, Finland.

2001-2002 - Research Fellowship: 1-year Marie Curie Fellowship at the Optoelectronics Research Centre/Tampere University of Technology.

1999-2000 - Research fellowship, Romanian Governmental Fellowship (6 months) to the Microelectronics Research Group of IESL/FORTH, Greece.

Date: 22.04.2026

Signature,



Dr. Pavelescu Emil Mihai