



Curriculum vitae Europass



Personal information

Name/ Surname CURECHERIU LAVINIA-PETRONELA
Adress Str. HAN-TATAR, nr. 2, bl. 360, sc. C, et.5, ap.14
Phone 0232-201102/2406
Fax 0232-201205
E-mail lavinia.curecheriu@uaic.ro; lavinia_curecheriu@stoner.phys.uaic.ro ;
Nationality Romana
Birth of date 13/04/1981
Sex F

Work experience

Dates 2018-present
Position Lecturer
Principal subjects/occupational skills covered Cours and practical works: Physics and Technolgy of Polarisation medium, Physics and Technolgy of nanocomposite materials , Technologic transfer; Seminars and practical work Physics Dielectrics
Institution Departament of Physics University „Alexandru Ioan Cuza” , Iași
Activity type Teaching

Dates 2020-2022
Position Manager project PN-III-P1-1.1-TE-2019-1689
Principal subjects/occupational skills covered Research
Institution Departament of Physics University „Alexandru Ioan Cuza” , Iași
Activity type Fundamental research

Dates 2018-2020
Position Manager project PN-III-P1-1.1-TE-2016-1951
Principal subjects/occupational skills covered Research
Institution Departament of Physics University „Alexandru Ioan Cuza” , Iași
Activity type Fundamental research

Dates 2013 → 2018

	Position	Assistant professor
Principal subjects/occupational skills covered		Seminaries and practical work : Physics and Technolgy of Polarisation medium; Physics Dielectrics; Electrical and Magnetic Phenomena, Classical mechanics
	Institution	Departament of Physics University „Alexandru Ioan Cuza” , Iași
	Activity type	Teaching
	Dates	2015-2017
Principal subjects/occupational skills covered	Position	Postdoc in PN-II-RU-TE-2014-4-1494 project
		Research
	Institution	Departament of Physics University „Alexandru Ioan Cuza” , Iași
	Activity type	Fundamental research
	Dates	2013-2016
Principal subjects/occupational skills covered	Position	Manager project PN-II-RU-TE-2012-3-0150
		Research
	Institution	Departament of Physics University „Alexandru Ioan Cuza” , Iași
	Activity type	Fundamental research
	Dates	2011-2016
Principal subjects/occupational skills covered	Position	Researcher in PN-II-ID-PCE-2011-3-0745 and PN-II-PT-PCCA-2013-3-1119 projects
		Research
	Institution	Departament of Physics University „Alexandru Ioan Cuza” , Iași
	Activity type	Fundamental research
	Dates	2010-2013
Principal subjects/occupational skills covered	Position	Postdoc in POSDRU/89/1.5/S/49944 project
		Research
	Institution	Departament of Physics University „Alexandru Ioan Cuza” , Iași
	Activity type	Fundamental research
	Dates	2009-2013
Principal subjects/occupational skills covered	Position	Assistant professor
		Seminaries and practical work : Physics and Technolgy of Polarisation medium; Physics Dielectrics; Electrical and Magnetic Phenomena
	Institution	Departament of Physics University „Alexandru Ioan Cuza” , Iași
	Activity type	Teaching
	Dates	2007-2009
Principal subjects/occupational skills covered	Position	Assistant researcher
		Research
	Institution	Departament of Physics University „Alexandru Ioan Cuza” , Iași
	Activity type	Fundamental research

Education and training

Dates	2020
Title of qualification awarded	Habilitation
Dates	2006-2009
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Physics
Institution	University „Alexandru Ioan Cuza”, Iași
National level	Suma cum laudae
Dates	2004-2006
Title of qualification awarded	Master Degree
Principal subjects/occupational skills covered	Applied Physics
Institution	Universitaty „Alexandru Ioan Cuza”, Iași
National level	First in class (average grade 100% ; thesis grade: 100%)
Dates	2000-2004
Title of qualification awarded	Bachelor degree in Physics
Principal subjects/occupational skills covered	Physics, Biology
Institution	University „Alexandru Ioan Cuza”, Iași
National level	Average grade 97.1% ; thesis grade: 88.9%

Personal skills and competences

Mother tongue(s) **Romanian**

Other languages(s) **English, Franch, Italian, Spanish**

Other languages(s)

Self-assessment <i>European level</i> (*)	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spokenproduction	
English	C2	C2	C1	C1	C1
Franch	C2	C2	B2	B1	B1
Italian	C2	C2	C2	C2	C1
Spanish	B1	B1	B2	B1	A2

(*)*Common European Framework of Reference (CEF) level*

Fields of expertise Polar dielectrics for microwave tunable applications.
Composites materials with core-shell structure: preparation and functional properties.
Polymer composites for flexible electronics.

Social skills and competences Ability to establish and maintain good working relations

Organisational skills and competences	<ul style="list-style-type: none"> • Experience in management of national grants: CNCSIS - Ministry of Education and Research of Romania – Young researcher Team- PN-III-P1-1.1-TE-2019-1689 (2020-2022), PN-III-P1-1.1-TE-2016-1951 (2018-2020), , PN-II-RU-TE-2012-3-0150 (2013-2016), L'Oreal-UNESCO (fellowship 2017) Grant type BD - The individual research grants for the PhD Students (2007-2009); Grant of CNCSIS - Ministry of Education and Research of Romania, Grant type TD – Young Research Grant (2007-2009), Grant type TE- Young Research Teams (2013-2016)
Technical skills and competences	Well skilled for laboratory activities: <ul style="list-style-type: none"> - Physics laboratory: measurements of electric properties of ferroelectric ceramics at low and high frequency; high field measurements of ferroelectric ceramics.
Computer skills and competences	<ul style="list-style-type: none"> - Good command of Office tools - Good command of Origin - Basic command of Maple

Other informations

Scientific activity 108 papers, 73 ISI papers, ISI individual score **30.54**
I=8.65, P=21.682, C=158.924, as CNATDCU standard
871 citations without selfcitation
 Hirsch **19 (WOS), 20 (Scopus), 21 (Google)**
 More than 150 presentation to international conferences (1 Tutorial talk, 13 Invited, 66 Oral presentation)

- Research project
- **Principal investigator in 7 national project:**
 - PN-III-P1-1.1-TE-2019-1689 - Exploring critical conditions as a new tool for enhancing electrocaloric properties of Ba-based lead free ceramics, CritEC,2020-2022, 431.900 RON (CNCSIS)
 - PN-III-P1-1.1-TE-2016-1951-Scale dependence properties in lead-free piezoelectric ceramics, ProLEAF, 2018-2020, 450.000 RON (CNCSIS)
 - L'OREAL- UNESCO fellowship FOR WOMEN IN SCIENCE, Physics Section, 2017 - Engineered polymeric composites for flexible electronics, 42.000 RON
 - GI-2014-03, Study of nonlinear properties in lead free relaxor, 2014-2015, 20.000 RON (UAIC)
 - PNII-RU-TE-2012-3-0150, Investigation of the mesoscopic polar order and size effects in driving polarization mechanisms of tunability in perovskites (IMPOTUN), 2013-2015, 645.833 RON (UEFISCDI)- evaluated A+ at final report;
 - PNII-RU-TD 212/2007, Contribution to the study of non-linear phenomena in ferroelectric ceramics, 2007-2009, 41.000 RON (CNCSIS);
 - BD- 71/2007 Contribution to the study of non-linear phenomena in ferroelectric ceramics, 2007-2009, 48.000 RON (CNCSIS).
 - **1 international project in Management Committee:**
 - COST ACTION MP1308 - Towards oxide-based electronics, 2014-2018
 - **Member in 1 international project**
 - Polycom - Engineered polymeric composites with high energy density (ICMATE-Genoa, ISMAC Genoa, UAIC Iasi), 2016-2018
 - **Member in 15 national projects:**
 - ✓ PN-III-P4-ID-PCE-2020-1988 (dir.CSII dr. Cristina Ciomaga)- Engineering of lead-free porous ceramic materials for piezo-, pyroelectric sensors with energy harvesting applications (2021-2024)
 - ✓ PN-III-P1-1.1-TE-2019-1929 (dir.lect.dr. Leontin Padurariu)- A new material paradigm in electroceramics: charged defects engineering (2020-2022)

Research project

- ✓ PN-III-P3-3.1-PM-RO-FR-2019-0069 (dir. Prof.univ. Liliana Mitoseriu)- multiscale investigations and modeling of novel ferroelectric oxides (2019-2020) PN-III-P4-ID PCCF-2016-0175 (dir.conf.univ.dr. Aurelian Rotaru)-High-k Nanoparticle Multilayer Dielectrics for Nanoelectronics and Energy Storage Applications (Highkdevice) 2018-2022
- ✓ PN-II-RU-TE-2014-4-1494 (dir. dr. Leontin Padurariu)- "Exploatarea porozitatii in materiale feroelectrice prin controlul câmpului local pentru îmbunătățirea proprietăților funcționale (EXPOFER)" 2015-2017
- ✓ PN-II-PT-PCCA-2013-4-1119 (dir. proiect prof. dr. Liliana Mitoseriu)- Magnetolectric composites with emergent properties for wireless and sensing applications (MECOMAP), 2014-2016
- ✓ PNII-PCCE-2-2011-0006 (dir.proiect CS I dr. Lucian Pintilie)- Efectul interfetelor asupra transportului de sarcina in heterostructuri feroice/multiferoice", 2012-2016
- ✓ PN-II-ID-PCE-2011-3-0745 (dir. proiect prof.dr. Liliana Mitoseriu) -Design de material, preparare, proprietati si modelare de structuri multifunctionale oxidice pentru microelectronica si noi aplicatii in stocare de energie (MULTIFOX), 2011-2016
- ✓ PN-II-ID-PCE-2011-3-0668 (dir proiect prof.dr. Adelina Ianculescu)-Size effects, formation mechanisms and properties in micro- and nanostructured perovskite ferroic systems prepared by alternative methods, 2011-2016
- ✓ Bilateral project România-Italy (dir. proiect prof. dr. Liliana Mitoseriu): Searching for new BaO-TiO-FeO multiferroics: from material design to magnetolectric applications (MULTIFER), 2013-2014
- ✓ Bilateral project Romania-Slovenia (dir. proiect prof. dr. Liliana. Mitoseriu)- Dielectric spectroscopy and tunability of low-temperature processed complex perovskites (DISTUNAB), 2012-2013
- ✓ PN II –RU TE 187 (Dir. proiect: Dr. Cristina Ciomaga) - Investigarea efectelor de volum, interfață și de percolație în materialele compozite multifuncționale cu geometrie controlată și metamateriale (IMECOMP), 2010-2013
- ✓ Grantul de cercetare de tip A(dir.proiect prof.dr. Alexandru Stancu) - Studiul relaxarii magnetice si a comutarii in sisteme nanoparticulate (RELSWITCH), 2006-2008
- ✓ CEEEX-FEROCER (Dir. proiect: prof.dr. Adelina Ianculescu) Dezvoltarea integrata de noi concepte si tehnologii in sinteza, caracterizarea modelarea si aplicatii ale ceramicilor micro- si nanostructurate, 2006-2008

Patents

Adelina Carmen Ianculescu, Liliana Mitoseriu , Lavinia Petronela Curecheriu, Florin Mihai Tufescu, Florin Tufescu, Method for measuring tunability of ceramic materials, involves using circuit having high voltage source controlled by function generator and applying high voltage to assay-sample through protection resistor, Patent Number(s): RO125567-A0 (ISI index)

Lavinia Petronela Curecheriu, Adelina Carmen Ianculescu , Liliana Mitoseriu, Florin Tufescu , Florin Mihai Tufescu, BST ceramic material, method for measuring tunability and BST ceramic device for measuring high voltage by galvanic separation, Patent Number(s): RO125528-A2; RO125566-A0 (ISI index)

Award

• International awards:

- ✓ Lavinia Curecheriu- IAAM Scientist Medal 2019
- ✓ Leontin Padurariu, Lavinia Curecheriu, Vincenzo Buscaglia, Liliana Mitoseriu, Modeling the size effects on the dielectric properties in nanostructured ferroelectric ceramics, COST MP0904 Action Showcase, Bucharest, Romania, 16-20 June 2014 (best oral presentation)
- ✓ Leontin Padurariu, Lavinia Curecheriu, Vincenzo Buscaglia, Liliana Mitoseriu, Permittivity vs. field dependence in nanostructured ferroelectric ceramics: the role of grain size, First COST MP0904 Training School, March 2012 (best poster)
- ✓ Felicia Prihor, Adelina Ianculescu, Petronel Postolache, Lavinia Curecheriu, Liliana Mitoseriu, Functional properties of the $(1-x)\text{BiFeO}_3 - x\text{BaTiO}_3$ solid solutions (Hamamatsu Awards), at ECAPD, Roma, Italy, August 2009

- **National awards:**
- ✓ **3rd place at national competition** L'Oreal-UNESCO – For Women in Science, Physic Section 2016
- ✓ **3rd place at national** contest "Tineri cercetători în Știință și inginerie" in 2015
- ✓ **"IUVENTAS SCIENTIAES"** award given by Universitatea Alexandru Ioan Cuza from Iași, for best results in research for 2014-2015
- ✓ **Award of CARPATH** Research Center for 2010 for paper "Functional properties of BaTiO₃-Ni_{0.5}Zn_{0.5}Fe₂O₄ ceramics prepared from powders with core-shell structure", Journal of Applied Physics
- ✓ **1st place** in national selection of Students Speech Contest at 11th International Conference and Exhibition of the European Ceramic Society, given by Societatea Romana de ceramică, April 2009, In situ preparation of multiferroic composite nanopowders and ceramics with core-shell structures- L. P. Curecheriu

Awards

- ✓ **2nd place** at Conferința Națională "Fizică și Tehnologiile Educaționale Moderne", Iași, given by Univ. "Al. I. Cuza", Faculty of Physics, 2008, Piezoelectric resonance effects on the complex permittivity in PZT(48/52) relaxor ceramics, F.C. Dascalu, C.I. Axinte, A. Lazar, L. Curecheriu, A. Ianculescu, L. Mitoseriu
- ✓ **2nd place** Conferința Națională "Fizică și Tehnologiile Educaționale Moderne", Iași, given by Univ. "Al. I. Cuza", Faculty of Physics, 2007, Investigation of the LCR circuit response containing ferroelectric capacitor, R.C. Frunza, C.E. Ciomaga, L.P. Curecheriu, L.Mitoseriu

Research stages

- **Research stage in project PN-III-P1-1.1-MC-2019-1164** la ICMATE-CNR, Genoa, Italy – 3 weeks (11 November-2 December 2019)
- **Research stage in project PN-III-P1-1.1-TE-2016-1951** at ICMATE-CNR, Genoa, Italy – 6 weeks (29 July-8 September 2019)
- **Research stage in project PN-III-P1-1.1-TE-2016-1951** at ICMATE-CNR, Genoa, Italy – 2 weeks (February 2019)
- **Research stage in project L'Oreal-UNESCO** la ICMATE-CNR and ISMAC-CNR, Genoa, Italy – 2 weeks (February 2018)
- **Research stage in project PN-III-P4-ID-PCE-2016-0817** la ICMATE-CNR, Genova, Italia – Genoa, Italy – 2 weeks (September 2017)
- **Research stage in project L'Oreal-UNESCO** la ICMATE-CNR and ISMAC-CNR, Genoa, Italy – 3 weeks (July-August 2017)
- **Research stage STSM COST MP1308** at ICMATE-CNR, Genoa, Italy (November 2016)
- **Research stage STSM IC1208** at ICMATE-CNR, Genoa, Italy (July-August 2016)
- **Research stage GI-2014-3** at Institute of Energetics and interphases IENI-CNR Genoa, Italy - (16-26 January 2016)
- **Research stage GI-2014-3** at Institute of Energetics and interphases IENI-CNR Genoa, Italy - 2 weeks (15-30 August 2015)
- **Research STSM COST IC1208** at Institute of Energetics and interphases IENI-CNR Genoa, Italy - 1 month (14 July-14 August 2015)
- **Research stage GI-2014-3** at Institute of Energetics and interphases IENI-CNR Genoa, Italy - 2 weeks (29 January-12 February 2015)
- **Research stage PN II-RU-TE-2012-3-0150** at Institute of Energetics and interphases IENI-CNR Genoa, Italy - 2 weeks (13-23 November 2014)
- **Research stage in bilateral project Romania-Italy** at Institute of Energetics and interphases IENI-CNR Genoa, Italy – 1 month (15 July-16 August 2014)
- **Stagiu Erasmus teaching-** University of Vilnius, Lithuania (6-8 July 2014)

Research stages

- **Research stage in bilateral project Romania-Italy** at Institute of Energetics and interphases IENI-CNR Genoa, Italy – 1 month (November 2013)
- **Research stage POSDRU/89/1.5/S/49944** at Institute of Energetics and interphases IENI-CNR Genoa, Italy – 2 months (July-September 2011)
- **Research stage STSM COST MP0409** at University College Dublin, Irland – 2 weeks (May 2011)
- **Romanian Government Scholarship** at Institute of Energetics and interphases IENI-CNR Genoa, Italy – 6 months (October-December 2008, February-May 2009)
- **Research stage STSM COST 539**, at Instituto de Ciencia de Materiales de Madrid ICMM-CSIC, Madrid, Spania – 2 weeks (May 2009)
- **Research stage STSM COST 539**, at Institute of Energetics and interphases IENI-CNR Genova, Italia – 6 weeks (April-May 2008)
- **ERASMUS fellowship** at Institut National Polytechnique de Toulouse-ENSEEIH, Toulouse, France - 4 months (March-June 2005)

Other courses:

- Training School-rd International School of Oxide Electronics, Cargese, Franta, 12-24 October 2016
- **Project Manager courses** by Centrul de Studii Europene, January-February 2013
- Training School – Nanostructured oxides: from laboratory research to industrial applications, Genova, Italia, 12-13 March 2012
- Summer school – 4th European School on multiferroics, L'Aquila, Italia, 22-29 September 2010
- Summer school - 3rd European School on multiferroics, Groningen, Olanda, 7-11 September 2009
- Training School - Advanced functional characterization techniques of nanostructured materials, Madrid, Spania, 23 February 2009
- Characterization Workshop- X-ray diffraction, high resolution transmission electron microscopy and impedance spectroscopy, Manchester, Marea Britanie, 4 September 2008
- Winter school - Physics of Advanced Materials - Growth and characterization of advanced materials (focused on the structural characterization) - PAM 1, Thessaloniki, Greece, 14-18 January 2008
- Summer school -Physico-Chimie de l'atmosphère: des expériences de laboratoire aux campagnes de terrain, Universitatea Al. I. Cuza, Iași, România, 2-14 July 2006

Other informations

Member of
- IEEE Romanian Chapter,
- Romanian Ceramic Society
- Romanian Society of Biophysics

<http://www.researcherid.com/rid/B-4609-2012>

28.02.2021

