



Curriculum vitae Europass

Informații personale

First name(s) / Surname(s)	Carlescu, Aurelian
Address(es)	Emil Alexandrescu Street, No.4, 700666, Iasi, Romania
Telephone(s)	Fix: +40 0332 415 466 Mobil: +40 0771418116
E-mail	Carlescu_aurelian@yahoo.com
Nationality	Romanian
Date of birth	February 21, 1984
Gender	Male

Work experience

Dates	March 2016 – March 2019
Occupation or position held	Scientific researcher
Main activities and responsibilities	Characterize the proprieties of organic semiconductors, Test the proprieties of spin valves with organic spacer, Gas sensors
Name and address of employer	„Alexandru Ioan Cuza” University of Iasi, Boulevard Carol I, No. 11, postal cod 700506, Romania, T:+40 (232) 201000, F:+40 (232) 201201, E: contact@uaic.ro
Type of business or sector	Research
Dates	January 2013 – July 1st 2014
Occupation or position held	Assistant researcher
Main activities and responsibilities	Test the proprieties of spin valves with organic spacer
Name and address of employer	University of Fribourg, Physics Department, Ch. du Musée 3, CH-1700 Fribourg, Switzerland Phone: +41 (0)26 300 9060 Fax: +41 (0)26 300 9747
Type of business or sector	Research
Dates	July 2010 – December 2011
Occupation or position held	Assistant researcher
Main activities and responsibilities	Characterize the proprieties of organic semiconductors
Name and address of employer	„Alexandru Ioan Cuza” University of Iasi, Boulevard Carol I, No. 11, postal cod 700506, Romania, T:+40 (232) 201000, F:+40 (232) 201201, E: contact@uaic.ro
Type of business or sector	Research

Education and training

Period	October 2011 – November 6th, 2015 Ph.D student „Advanced materials physics. Nanotechnologies. Applied physics”
	October 2008 – July 2010 master course „Advanced materials. Nanotechnologies” diploma exam session July 2010, title: „Nanostructures magnetic materials for galvanomagnetic devices”
	October 2003 – July 2008 bachelor course „Tehnological physics”, diploma exam session July 2008, title: „Obtaining and characterization of ferromagnetic structures of low dimensionality using electro deposition method”
	September 1999 – June 2003 High school real profile: „Mathematics – Informatics”
Title of qualification awarded	Science engineer Master degree in advanced materilas and nanotechnologies PhD degree in science
Principal subjects/occupational skills covered	Clasical physics: Clasical mechanics, Termodinamicsand molecular physics, Electricity and magnetism, Optics Theoretical physics: Analitical mechanics, Electrodinamics and relativity theory, Quantum mechanics, Statistic physics Profesional courses: Lasers, Microwaves, Plasma technologies, Technologies transfer, Atomic and molecular spectroscopy, Material technologies, Sensors, Smart materials, Spintronics, Magnetic materials
Name and type of organisation providing education and training	Physics Faculty, „Alexandru Ioan Cuza” university of Iasi, Romania
Level in national or international classification	858
Personal skills and competences	
Mother tongue(s)	Romanian
Other language(s)	
Self-assessment	
European level (*)	
English	
French	
	(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine
Technical skills and competences	Experince working with diffract meter Shimadzu x6000 since April 2009 Working in the frame work of the project: „ Design and development of a system of generating ozone with high efficiacy”, leader : reader dr. Viorel Anita;
Computer skills and competences	JavaScript (+jQuery), HTML(+CSS), SQL, Office pack (Word, Excel, PowerPoint), Pascal, C++, 3D Studio Max, Maple, LabWiev
Artistic skills and competences	I can play at certain type of flute
Other skills and competences	PC troubleshooting, networking
Additional information	Contact personnel: Prof. Dr. Felicia Iacomi, e-mail: iacomi@uaic.ro

Annexes

Articles and conferences:

1. „Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films”, Author(s): [Leontie, L](#) (Leontie, L.)¹; [Danac, R](#) (Danac, R.)²; [Druta, I](#) (Druta, I.)²; [Carlescu, A](#) (Carlescu, A.)¹; [Rusu, G](#) (Rusu, G. I.)¹ **Source:** SYNTHMET Volume: 160 Issue: 23-24 Pages: 2526-2533 Published: DEC 2010
Addresses:
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
2. Alexandru Ioan Cuza Univ, Fac Chem, Iasi 700506, Romania
2. „Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties”, Author(s): [Leontie, L](#) (Leontie, L.)¹; [Danac, R](#) (Danac, R.)²; [Druta, I](#) (Druta, I.)²; [Carlescu, A](#) (Carlescu, A.)¹; [Rusu, G](#) (Rusu, G. I.)¹ **Source:** SYNTHMET Volume: 160 Issue: 11-12 Pages: 1273-1279 Published: JUN 2010
Addresses:
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
2. Alexandru Ioan Cuza Univ, Fac Chem, Iasi 700506, Romania
3. „Magnetite Nanoparticles Coated with Rifampicin and Chlortetracycline for Drug Delivery Applications” Author(s): [Nadejde, C](#) (Nadejde, Claudia)¹; [Ciurlica, EFN](#) (Ciurlica, Ecaterina Foca-nici)¹; [Creanga, D](#) (Creanga, Dorina)¹; [Carlescu, A](#) (Carlescu, Aurelian)¹; [Badescu, V](#) (Badescu, Vasile)
Editor(s): [Hafeli, U](#); [Schutt, W](#); [Zborowski, M](#) **Source:** 8TH INTERNATIONAL CONFERENCE ON THE SCIENTIFIC AND CLINICAL APPLICATIONS OF MAGNETIC CARRIERS Book Series: AIP Conference Proceedings Volume: 1311 Pages: 388-394 Published: 2010
Addresses:
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
4. „Antibiotic coated magnetite nanoparticles for biological applications” Author(s): [Ciurlica, EFN](#) (Ciurlica, E. L. Foca-nici)¹; [Nadejde, C](#) (Nadejde, C.)¹; [Creanga, DE](#) (Creanga, D. E.)²; [Carlescu, A](#) (Carlescu, A.)¹; [Badescu, V](#) (Badescu, V.)” **Source:** NANOCON 2010, 2ND INTERNATIONAL CONFERENCE Pages: 446-450 Published: 2010
Addresses:
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
5. „Effect of Annealing and Gamma Irradiation on Clay Mineral Properties” Author(s): [Tabacaru, C](#) (Tabacaru, Claudia)¹; [Carlescu, A](#) (Carlescu, Aurelian)¹; [Sandu, AV](#) (Sandu, Andrei V.)²; [Petcu, MI](#) (Petcu, Maura I.)³; [Iacomi, F](#) (Iacomi, Felicia)¹ **Source:** REVISTA DE CHIMIE Volume: 62 Issue: 4 Pages: 427-431 Published: APR 2011
Addresses:
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
2. Gh Asachi Tech Univ Iasi, Iasi, Romania
3. Natl Commiss Nucl Act Control, Bucharest 040129, Romania
6. „Electric and Optical Properties of In₂-x-ySn_xZn_yO₃-delta Thin Films” Author(s): [Iacomi, F](#) (Iacomi, F.)¹; [Lazar, A](#) (Lazar, A.)¹; [Frunza, R](#) (Frunza, R.)¹; [Rotaru, R](#) (Rotaru, R.)¹; [Carlescu, A](#) (Carlescu, A.)¹; [Sandu, I](#) (Sandu, I.)¹; [Purica, M](#) (Purica, M.)¹; [Gavrila, R](#) (Gavrila, R.) **Source:** 34th International Semiconductor Conference (CAS) Pages: 283-286 Published: 2011
Addresses:
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
7. „D.C. Electric Conduction Mechanism of some Newly Synthesized Indolizine Derivatives in Thin Films” Author(s): [Danac, R](#) (Danac, R.)²; [Leontie, L](#) (Leontie, L.)¹; [Carlescu, A](#) (Carlescu, A.)¹; [Rusu, G](#) (Rusu, G. I.)¹ **Source:** MATERIALS CHEMISTRY AND PHYSICS Volume: 134 Issue: 2-3; Pages: 1042-1048; Published: JUN 15 2012
Addresses:
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
2. Alexandru Ioan Cuza Univ, Fac Chem, Iasi 700506, Romania
8. “Electric conduction mechanism of some heterocyclic compounds, 4,4'-bipyridine and indolizine derivatives in thin films” Author(s): Danac, R.¹, Leontie, L.², Carlescu, A.², Shova, S.³, Tiron, V.², Rusu, G.G.², Iacomi, F.², Gurlui, S.², Şuşu, O.², Rusu, G.I.² **Source:** Thin Solid Films Volume: 612, Pages 358-368; Published: AUG 1 2016
1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
2. Alexandru Ioan Cuza Univ, Fac Chem, Iasi 700506, Romania
3. Petru Poni Institute of Macromolecular Chemistry, Aleea Grigore Ghica Voda, Nr. 41A, Iasi, Romania

9. „Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films”
Author(s): [Leontie, L](#) (Leontie, Liviu)¹; [Danac, R](#) (Danac, Ramona)²; [Girtan, M](#) (Girtan, Mihaela)³; [Carlescu, A](#) (Carlescu, Aurelian)¹; [Rambu, AP](#) (Rambu, Alicia Petronela)¹; [Rusu, GI](#) (Rusu, Gheorghe I.)¹ **Source:** MATERIALS CHEMISTRY AND PHYSICS Volume: 135; Issue: 1; Pages: 123-129; Published: JUL 16 2012
Addresses:
 2. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
 2. Alexandru Ioan Cuza Univ, Fac Chem, Iasi 700506, Romania
 3. Univ Angers, Lab LPhiA, F-49045 Angers, France
10. „On the direct current electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl) pyridinium ylides in thin films” Author(s): [Danac, R](#) (Danac, R.)¹; [Leontie, L](#) (Leontie, L.)²; [Girtan, M](#) (Girtan, M.)³; [Preliceanu, M](#) (Preliceanu, M.)⁴; [Graur, A](#) (Graur, A.)⁴; [Carlescu, A](#) (Carlescu, A.)²; [Rusu, GI](#) (Rusu, G. I.)² **Source:** THIN SOLID FILMS Volume: 556; Pages: 216-222; Published: APR 1 2014
Addresses:
 3. Alexandru Ioan Cuza Univ, Fac Chem, Iasi 700506, Romania
 4. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
 5. Univ Angers, Laboratoire LPhiA, F-49045 Angers, France
 6. Stefan Cel Mare Univ Suceava, Fac Elect Engn & Comp Sci, RO-720229 Suceava, Romania
11. „Comparative study of magnetite and cobalt ferrite submicron particles” Author(s): [Focanici, E](#) (Focanici, E.)¹; [Carlescu, A](#) (Carlescu, A.)¹; [Nica, V](#) (Nica, V.)¹; [Creanga, D](#) (Creanga, D.)¹; [Sulitanu, N](#) (Sulitanu, N.)¹ **Source:** OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 3; Issue: 4; Pages: 326-329; Published: APR 2009
Addresses:
 7. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
12. „Oleate Coated Magnetic Cores Based on Magnetite, Zn Ferrite and Co Ferrite Nanoparticles - Preparation, Physical Characterization and Biological Impact on Helianthus Annuus Photosynthesis”
Author(s): [Ursache-Oprisan, M](#) (Ursache-Oprisan, Manuela)¹; [Focanici, E](#) (Focanici, Ecaterina)¹; [Carlescu, A](#) (Carlescu, Aurelian)¹; [Caltun, O](#) (Caltun, Ovidiu)¹; [Creanga, D](#) (Creanga, Donna)¹ **Source:** 8TH INTERNATIONAL CONFERENCE ON THE SCIENTIFIC AND CLINICAL APPLICATIONS OF MAGNETIC CARRIERS Book Series: AIP Conference Proceedings Volume: 1311; Pages: 425-430; Published: 2010
Addresses:
 1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi 700506, Romania
13. „Magnetic Submicron Powder Preparation and Characterization” Author(s): [Axinte, C](#) (Axinte, Ciprian)¹; [Nadejde, C](#) (Nadejde, Claudia)¹; [Ursache, M](#) (Ursache, Manuela)¹; [Airinei, A](#) (Airinei, Anton); [Carlescu, A](#) (Carlescu, Aurelian)¹; [Racuciu, M](#) (Racuciu, Mihaela); [Creanga, D](#) (Creanga, Dorina)¹ **Source:** RESEARCHES IN POWDER METALLURGY Book Series: Materials Science Forum; Volume: 672; Pages: 281-285; Published: 2011
Addresses:
 1. Alexandru Ioan Cuza Univ, Fac Phys, Iasi, Romania
14. **A. Carlescu**, I. Morazau, A. Popa, D. Lazar, P. Traian Jr., C. Bernhard, F. Iacomi, Structural and functional studies of an [oxide](#) ceramic material $\text{La}_{0.875}\text{Sr}_{0.125}\text{MnO}_3$ with possible application in spintronic field, sent for publication.
15. **A. Carlescu**, I. Morazau, A. Popa, D. Lazar, P. Traian Jr., I. Deac, C. Bernhard, F. Iacomi, Studies on the influence of the thickness of top magnetic electrode and annealing on the magnetoresistance behavior of organic spin valves, sent for publication.
16. “Synthesis and electron transport properties of some new 4,7-phenanthroline derivatives in thin films”
Author(s): C. M. Al Matarneh, R. Danac, L. Leontie, F. Tudorache, I. Petrila, F. Iacomi, A. Carlescu, G. Nedelcu, I. Mangalagiu, **Source:** Environmental Engineering and Management Journal; Volume: 14; Issue: 2; Pages: 421-431; Published: FEB 2015.