



Europass Curriculum Vitae



Personal information

First names / Surname **Alexandra Brătulescu**
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 Nationality Romanian
 Date of birth 13.05.1958

Mobile: +40 741151519

Gender Female

Employment / Occupational field

**National Institute for Research and Development in Electrical Engineering
 ICPE – CA (INCDIE ICPE – CA)**

Work experience

Dates	2004–present
Occupation or position held	Scientific Researcher
Main activities and responsibilities	participant in R&D projects; studies and experimental researches on obtaining of some composite powders of Co; CoNi; Fe; FePt nanoparticles deposited and their characterization by UV-Vis-NIR spectrophotometry and Dynamic Light Scattering (DLS) technique;
Name and address of employer	INCDIE ICPE-CA Bucharest
Type of business or sector	Advanced Materials & Multifunctional Metallic Materials
Dates	1999-2004
Occupation or position held	Scientific Researcher
Main activities and responsibilities	Participant in R&D projects; Studies and experimental researches on obtaining of some powders mixtures by mechanical homogenization and/or chemical precipitation and their characterization; Experimental researches on recovery of some fine grained wastes in form of slimes resulted from industrial processing of steels.
Name and address of employer	SC ICPE-CA SA Bucharest
Type of business or sector	Conductive Materials
Dates	1990-1999
Occupation or position held	Scientific Researcher
Type of business or sector	- studies and experimental research on obtaining basalt powder epoxy-based, fluorescent powders, powders electrographic
Name and address of employer	SC ICPE-CA SA Bucharest
Type of business or sector	Powders organic material
Dates	1988-1990
Occupation or position held	Engineer
Main activities and responsibilities	Studies and experimental researches on obtaining of some Electrographic Powders, Fluorescent Powders
Name and address of employer	SC ICPE-CA SA Bucharest
Type of business or sector	Powders organic material

Education and training

Dates 1980-1984
Title of qualification awarded Engineer
Principal subjects/occupational skills covered chemical engineering
Name and type of organisation providing education and training **Polytechnic Institute of Bucharest, Department of Industrial Chemistry**

Level in national or international classification ISCED 6

Personal skills and competencies

Mother tongue **Romanian**

Other language(s)

Self-assessment

European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
A2	Elementary user	A1	Elementary user	A1	Elementary user	A1	Elementary user	A1	Elementary user
A2	Elementary user	A2	Elementary user	A1	Elementary user	A1	Elementary user	A1	Elementary user

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

Social skills and competencies

teamwork, increased ability to adapt, communicative, serious,

Organisational skills and competencies

- capacity for synthesis, decision-making skills acquired within some national research projects;
- Participant (2000 – 2010) at 18 national research projects;

Technical skills and competencies

Processing of materials by conventional powder metallurgy , physical characterization of samples by light absorption, reflectance or transmittance spectrophotometry in UV-Vis-NIR (V570 Able & Jasco spectrophotometer), measurements of nanoparticles size and zeta potential by DLS technique (90 Plus apparatus, Brookhaven),

Computer skills and competencies

Microsoft Office (Word, Excel, PowerPoint,)

Additional information

Member of professional associations:

- Alliance for Hydrogen and Fuel Cells-H₂FC-EN, from 2005;

Published articles:

1. S. Gavrilu, E. Enescu, **A. Bratulescu**, P. Lungu, M. Lucaci - "*Sintered electrical contacts with optimized texture*".
1. S. Gavrilu, E. Enescu, P. Lungu, M. Lucaci, **A. Bratulescu** - "*Ecological Sintered Electrical Contacts*" - "CONRO 2000", 7-12 oct., 2002, Bucuresti.
2. M. Lungu, S. Gavrilu, E. Enescu, M. Lucaci, P. Lungu, **A. Bratulescu**, A. Bara, *New Sintered Electrical Contacts on the Silver Basis for Low Voltage Devices*, Romanian Reports in Physics, vol. 56, nr. 3, pag. 494 - 501, 2004.
3. *M. Lungu, S. Gavrilu, M. Lucaci, E. Enescu, P. Lungu, A. Bratulescu, A. Ciocanete, COMPARATIVE RESEARCH REGARDING THE INFLUENCE OF PROCESSING PARAMETERS AT AgSnO₂ SINTERED ELECTRICAL CONTACT MATERIALS MANUFACTURE, Proc. of the First Workshop of Electrical Engineering Materials and Applications, Bucharest, September 21, 2005, pag. 21 – 29, ISBN 973-718-308-8.*
4. M. Lungu, S. Gavrilu, D. Patroi, M. Lucaci, C. Petre, **A. Bratulescu**, *Some Considerations Concerning the Obtaining of Some Ag-SnO₂ sintered electrical Contacts for Low Voltage Power Engineering Switching devices*, Books of abstracts – MATEHN'06, 4th International Conference on materials and Manufacturing Technologies, sept. 21 – 23, 2006, Cluj- napoca, p. 157, ISBN 973-751-300-2-in recenzie pentru publicare in Advanced materials Research, editata de Trans. Tech. Publications Ltd, Switzerland.
5. E. Enescu, P. Lungu, **A. Bratulescu**, E. Patroi, S. Hodorozea, *Synthesis and Properties of Magnetic Nanoparticles*, NN07 Conference, Tesaloniki, Grecia, 16-18 iulie 2007
6. E.Enescu, P. Lungu, **A. Bratulescu**, D. Patroi, S. Hodorozea "*The Influence of processing Parameters on the Synthesis of Magnetic Nanoparticles*", ARM5 Conference, 3-5 sept. 2007, Sibiu, Romania
7. E. Enescu, P. Lungu, **A. Bratulescu**, S. Hodorozea, *Materials for Hydrogen storage obtained by thin films synthesis*, ARM Conference, 3-5 sept. 2007, Sibiu, Romania, pg. 141
8. E. Enescu, P. Lungu, G. Sbarcea, E. Patroi, J. Pinteaa, **A. Bratulescu**, *The influence of Cr addition on the magnetic properties of NiFe-basis nanocrystalline alloys*, RoPm2009 Conference, Craiova, 8-11 iulie 2009, Book of Abstracts p. 121
9. E.Enescu, P.Lungu, D. Patroi, D. Neagu, **A. Bratulescu**, G. Zarnescu, *FePt Thin Films obtained by PVD*, International workshop "Innovation and Evolution by R&D – SMEs Strategic Partnership", Bucharest, 10 -12 sept. 2009, Book of Abstracts p. 61
11. E. Enescu, P. Lungu, E. Patroi, **A. Bratulescu**, *Manufacturing of Mumetal Nanocrystalline Alloys*, International workshop "Innovation and Evolution by R&D – SMEs Strategic Partnership", Bucharest, 10 -12 sept. 2009, Book of Abstracts p. 60
12. Stancu, I. Ion, M. Lungu, I. Dobrin, V. Tsakiris, M. Lucaci, **A. Bratulescu**, C.Morari,Ionut Balan, *Copper plated textile for EMIS application*, The 8th International Workshop of Electromagnetic Compatibility CEM 2012,27-29.09.2012, Sibiu
13. M. Lungu, S. Gavrilu, E. Enescu, I. Ion, **A. Bratulescu**, G. Mihaescu, L. Marutescu, M.C.Chifiriuc, "*Silver-titanium dioxide nanocomposites as effective antimicrobial and antibiofilm agents*, Journal of Nanoparticle Research, on-line in Dec.2013,Vol.16,Issue 1
- 14.M.V. Lungu, M. Lucaci, V. Tsakiris, **A. Bratulescu**, C.D. Cirstea, M. Marin, D. Pătroi, S. Mitrea, V. Marinescu, F. Grigore, D. Tălpeanu, N. Stancu, P. Godeanu, C. Melnic, *Development and Investigation of Tungsten Copper Sintered Parts for Using in Medium andHighVoltage Switching Devices*IOP Conf.Series: Materials Science and Engineering 209 (2017)

Patent Applications:

- 1) M.V. Lungu, D. Patroi, F. Grigore, M. Lucaci, D. Talpeanu, V. Tsakiris, S. Mitrea, **A. Bratulescu**, C.D. Cirstea, N. Stancu, V. Marinescu, A. Sobetkii, et.al., *Sputtering targets and thin films made of silver doped zinc oxide antimicrobial nanopowders and process for preparing the same*, RO Patent Appl. at OSIM, No. A/00605 of 20.08.2015.
- 2) M.V. Lungu, I. Ion, M. Lucaci, D. Talpeanu, V. Marinescu, V. Tsakiris, C.D. Cirstea, **A. Bratulescu**, *Functional graded planar junctions and process for preparing the same*, RO Patent Appl. at OSIM, No. A/00581 of 30.07.2014.
- 3) M.V. Lungu, I. Ion, V. Tsakiris, E. Enescu, M. Lucaci, F. Grigore, **A. Bratulescu**, *„Process for manufacturing planar junctions of carbonic material-steel type”*, RO Patent Appl. at OSIM, No. A/00078 of 23.01.2013

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