



Europass Curriculum Vitae

Personal information



First name(s) / Surname(s) **Enache Stanica**
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Nationality Romanian
Date of birth 09/11/1974
Gender Male

Desired employment / Occupational field

Proton Exchange Membrane Fuel Cells

Work experience

Dates	15/08/2013 - present
Occupation or position held	research scientist III
Main activities and responsibilities	Project oriented - Fundamental and applicative research in PEMFC and water electrolysis (100%)
Name and address of employer	National Institute for Hydrogen and Fuel Cells - ICSI, Rm. Valcea \
Type of business or sector	Research and Design
Dates	15/01/2005 → 11/01/2012
Occupation or position held	research scientist III
Main activities and responsibilities	Project oriented - Fundamental research in condensed matter physics (100%).
Name and address of employer	National Institute for Materials Physics Atomistilor 015 bis, 077125 Magurele (Romania)
Type of business or sector	Research and Design
Dates	05/02/2008 - 04/02/2009
Occupation or position held	postdoctoral fellowship
Main activities and responsibilities	Project oriented - Fundamental research in condensed matter physics (100%).
Name and address of employer	University of Aveiro 3810-193 Aveiro (Portugal)
Type of business or sector	Educational assessment
Dates	09/06/1999 - 09/06/2004
Occupation or position held	AIO/OIO PhD Student
Main activities and responsibilities	Project oriented - Fundamental research in condensed matter physics (90%). Student project supervisor (10%)
Name and address of employer	Vrije Universiteit De Boelelaan 1081, 1081 HV Amsterdam (Netherlands)
Type of business or sector	Educational assessment

Dates	01/10/1998 - 31/05/1999
Occupation or position held	research assistant
Main activities and responsibilities	preparation and structural characterization of perovskite like materials
Name and address of employer	National Institute for Materials Physics Atomistilor Street 105 bis, 077125 Magurele (Romania)
Type of business or sector	Education

Education and training

Dates	05/02/2008 - 04/04/2009
Title of qualification awarded	postdoctoral position
Principal subjects / occupational skills covered	fabrication, structural, microstructural and electronic characterisation of BZYO ceramics as membranes for solid oxide fuel cells
Name and type of organisation providing education and training	Aveiro University (University) 3810-193 Aveiro (Portugal)
Level in national or international classification	ISCED 6
Dates	09/06/1999 - 08/06/2004
Title of qualification awarded	PhD
Principal subjects / occupational skills covered	switchable mirrors. electrical and optical properties of thin metal-hydride films as a function of hydrogen concentration, temperature and magnetic field (90%). Supervision of 3 master students (10%). Servicing He recovery line at VU, Amsterdam.
Name and type of organisation providing education and training	Vrije Universiteit (University) De Boelelaan 1081, 1081 HV Amsterdam (Netherlands)
Level in national or international classification	ISCED 6
Dates	01/10/1993 - 15/06/1998
Title of qualification awarded	Engineer
Principal subjects / occupational skills covered	Physics (80%) - Material Physics (20%)
Name and type of organisation providing education and training	Bucharest University, Faculty of Physics (University) Atomistilor street, 077125 Magurele (Romania)
Level in national or international classification	ISCED 4
Dates	01/10/1997 - 31/03/1998
Title of qualification awarded	Tempus Grant
Principal subjects / occupational skills covered	Photoconductivity of some amorphous hydrided carbon thin films
Name and type of organisation providing education and training	Catholic University of Leuven (University) Kasteelpark Arenberg 11, 3011 Leuven (Belgium)
Level in national or international classification	ISCED 4

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment
European level (*)

English

Dutch

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User
A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences

Team spirit / Good ability to adapt to multicultural environments, gained through my work experience abroad / Good communication and presentation skills gained through my experience oral presentations at international conferences.

Organisational skills and competences

Project Manager CEEEX RP 4 -2005 (40.000 eur) - "*Thin Metal Hydride Films*" grant awarded by the National Ministry of Education and Research
 Project Manager PN - 2014 (2.000.000 RON) - "*Investigari experimentale privind realizarea de ansambluri membrane-electrozi optimizate pentru pile de combustibil tip PEM*"
 Project Manager PN - 2015 (2.100.000 RON) - "*Tranzitia Metal-Semiconductor in Complexul Hidrogenat Mg-Ni-H*"
 Organizer of the International Conference (ESM 2007, Sinaia, Romania).

Technical skills and competences

preparation methods (combustion, solid state and mechanosynthesis), structural characterizations (XRD, SEM), AC - DC electrical measurements / optical properties (FTIR spectrometry), temperature dependent physical properties, vacuum and gas handling systems.

Computer skills and competences

excellent command of MS Office package, HP-VEE, Origin, Matlab and C+ scripting, CorelDraw.

Annexes

Publications

1. "Supracapacitori: Caracteristici statice si dinamice de functionare pentru aplicatii de stocare a energiei in regim tranzient", A. Rozoiu, S. Enache, M. Varlam, P. Svasta, Volumul Conferintei Stiinta Moderna si Energia, Cluj-Napoca SME 2015 Ed. 34, pp 42 (ISSN 2006-4125).
2. "Tailored DC/Sputtered Niobium Oxide Properties for PEM Electrolysis Application", D. Ion-Ebrasu, S. Enache, A. Rizoiu, M. Filip, S. Preda, M. Varlam, V. Fruth, I. Stefanescu, ECS Transactions 10/2015; 69(17):859-868.
3. ON THE ROAD TO HIGH PERFORMANCE PEM FUEL CELLS FOR PORTABLE APPLICATIONS, S. Enache, I. Petreanu, L. Patularu, D. Ebrasu, D. Schitea, M. Varlam, Revista Progress of Cryogenics and Isotopes Separation, vol. 17, (2014) 2.
4. A FUNDAMENTAL STUDY OF SUPERCAPACITIVE CELLS, Alexandru Rizoiu, Stanica Enache, Paul Svasta, Mihai Varlam, IEEE Explore, DOI: [10.1109/SIITME.2014.6967043](https://doi.org/10.1109/SIITME.2014.6967043)
5. EXPERIMENTAL EVALUATION OF REFERENCE VALUES FOR PEM FUEL CELLS, Patularu Laurentiu, Enache Stanica, Aurelian Craciunescu, U.P.B. Sci. Bull., Series C, Vol. 78, Iss. 1, 2016

6. "Influenta compresiunii stratului de difuzie a gazului din pilele de combustibil PEM si efectele acesteia asupra prformantelor pilelor de combustibil de tip PEM", Patularu Laurentiu, Stanica Enache, Ioan Stefanescu, Dorin Schitea, Mihai Varlam, Daniela Ebrasu, Elena Carcadea, Aurelian Craciunescu, Conferinta Stiinta Moderna si Energia Volumul Producerea, Transportul si Utilizarea Energiei, Editia 33 SME 2014 ISSN 2066-4125

7. "PEMFC Short Stack Development at ICSI Ramnicu Valcea from Sketch to Applications", L. Patularu, D. Schitea, S. Enache, M. Varlam, Ion-Ebrasu Daniela, E. Carcadea, A. Marinouiu, G. Rasoi, A. Craciunescu, Progress of Cryogenics and Isotopes Separation, vol. 17, (2014) 2