

## Europass Curriculum Vitae



#### Personal information

First name(s) / Surname(s) | Luís Amaral

Address | CeFEMA, Instituto Superior Técnico, Universidade de Lisboa, 1049–001 Lisbon, Portugal

Mobile +351 914622406

E-mail(s) | luis.m.amaral@tecnico.ulisboa.pt; luis.ma.amaral@gmail.com

Nationality | Portuguese

Date of birth | 29/09/1978

Work experience

Dates | Since 2017

Occupation or position held | Editor of CeFEMA Newsletter

Name and address of organization Center of Physics and Engineering of Advanced Materials (CeFEMA), Instituto Superior Técnico,

University of Lisbon, Lisboa (Portugal)

Dates | Since 2015

Occupation or position held | Associate Editor

Name and address of organization | Ciência & Tecnologia dos Materiais, scientific journal of Portuguese Society of Materials (SPM)

published by Elsevier

Dates June 25th, 2014

Occupation or position held Lecturer

Main activities and responsibilities | Theoretical and practical classes on "Energy conversion and storage: the role of nanotechnology"

Name and address of employer | Erasmus Intensive Program: Environmental Remediation and Energy production Technologies

Instituto Politécnico de Portalegre, Escola Superior de Tecnologia e Gestão

Dates | Since June 2014

Occupation or position held FCT Post-doctoral research grant (SFRH/BPD/97453/2013)

Main activities and responsibilities | Research on electrolytic hydrogen evolution in alkaline media using RTILs and Schiff bases

Name and address of employer | Materials Electrochemistry Group, Center of Physics and Engineering of Advanced Materials

(CeFEMA), Instituto Superior Técnico, University of Lisbon, Lisboa (Portugal)

Dates December 2012 - May 2014

Occupation or position held Research grant

Main activities and responsibilities | Research on the project "Functional materials for electrolytic hydrogen production"

Name and address of employer | Materials Electrochemistry Group, Institute of Materials and Surfaces Science and Engineering

(ICEMS), Instituto Superior Técnico, TU Lisbon, Lisboa (Portugal)

Dates | March 2012 - July 2012

Occupation or position held Research grant

Main activities and responsibilities | Research on the project "Multiferroics and magnetoelectrics for spintronic: barriers and interfaces"

Name and address of employer Department of Materials and Ceramic Engineering, CICECO – Centre for Research in Ceramics &

Composite Materials, University of Aveiro, Aveiro (Portugal)

Dates | March 2008 - February 2012

Occupation or position held FCT PhD grant

Main activities and responsibilities | Preparation and characterization of ceramic functional materials, bulk ceramics and films.

Microstructural design and study of constrained sintering. Dielectric properties characterization.

Elaboration of reports and scientific papers, oral and poster presentation of scientific results in national

and international conferences, co-supervision of undergraduate students.

Name and address of employer | Department of Materials and Ceramic Engineering, CICECO – Centre for Research in Ceramics &

Composite Materials, University of Aveiro, Aveiro (Portugal)

Dates | April 2010 and May 2011

Occupation or position held Guest scientist

Main activities and responsibilities | Analysis of experimental results and writing of scientific papers

Name and address of employer | Technische Universitat Darmstadt, Darmstadt (Germany)

Dates | 26 August 2009 - 26 November 2009

Occupation or position held Guest scientist

Main activities and responsibilities | Research on constrained sintering of functional materials

Name and address of employer | Technische Universität Darmstadt, Darmstadt (Germany)

Dates | September 2005 - February 2008

Occupation or position held Research grant (BIC)

Main activities and responsibilities Preparation and characterization of ceramic functional materials, bulk ceramics and films.

Name and address of employer Department of Materials and Ceramic Engineering, CICECO – Centre for Research in Ceramics &

Composite Materials, University of Aveiro, Aveiro (Portugal)

Dates | September 2005 – December 2005

Occupation or position held Internship

Main activities and responsibilities | Market study on the commercial viability of lead-free electroceramics

Name and address of employer Rauschert Portuguesa, S.A.

Lisbon (Portugal)

Type of business or sector | Technical ceramics industry

Dates | February 2004 - June 2004

Occupation or position held Internship

Main activities and responsibilities | Quality management, corrosion tests in stainless steel.

Name and address of employer | Teka Portugal, S.A., Ílhavo (Portugal)

Type of business or sector Metalomechanic industry

#### Education and training

Dates | 31 August 2013 - 14 September 2013

 Principal subjects / occupational skills

Environmental protection and energy conversion technologies, with a strong incidence in electrochemistry and photocatalysis. Fundamental principles of electrochemistry and aspects of industrial electrochemistry, including electrochemical thermodynamics, kinetics, catalysis, and corrosion. Electrochemical energy conversion systems (fuel cells, batteries, photovoltaic cells) and environmental protection situations (sensors, photocatalysis, pollutants removal, bioelectrochemistry).

Institution

Instituto Politécnico de Portalegre, Escola Superior de Tecnologia e Gestão

Dates

March 2008 - February 2012

Title of qualification awarded

Doctoral Program on Materials Science and Engineering

Principal subjects / occupational skills

L. Amaral, "Microstructural design of titanate-based electroceramics", PhD thesis, supervision of Profa

covered Ana Senos and Profa Paula Vilarinho.

University of Aveiro, Aveiro (Portugal)

Level in national or international classification

Approved

Dates

Institution

tes | March 2010 - July 2010

Title of qualification awarded

COHITEC program

Principal subjects / occupational skills

Development of a Business Plan with real technologies of high growth potential

covered Institution

COTEC and Porto Business School, Porto (Portugal)

Dates October 2004 - May 2007

Title of qualification awarded

Master in Materials Science and Engineering

Principal subjects / occupational skills

L. Amaral, "Sintering studies of nonstoichiometric strontium titanate ceramics", Master thesis.

Supervision of Profa Paula Vilarinho and Profa Ana Senos.

covered Institution

University of Aveiro, Aveiro (Portugal)

Level in national or international

classification

**Dates** 

October 1996 - July 2004

Approved

Title of qualification awarded

Degree in Materials Engineering

Institution

University of Aveiro, Aveiro (Portugal)

Level in national or international

classification

# Personal skills and competences

Mother tongue(s)

**Portuguese** 

Other language(s)

Self-assessment

European level (\*)

English French

t	Understanding				Speaking				Writing	
)	Listening		Reading		Spoken interaction		Spoken production			
'n	C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
า	B1	Independent user	B1	Independent user	A2	Basic User	A2	Basic User	A2	Basic User

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

Social skills and competences

Team spirit and adaptation skills to multicultural environments acquired through work in scientific context with professionals of different nationalities, cultures and organizations. Good communication, leadership and interpersonal relationship skills.

Organisational skills and competences

Good coordination, project management, prioritizing and deadline management skills.

- Assistance to organization of international scientific conferences "Materiais 2005" and "COST 2009" in the University of Aveiro

Technical skills and competences

- Experience in using scientific equipment Scanning Electronic Microscopes (SEM) Hitachi S4100 e Hitachi SU-70 and X-Ray Difractometer (XRD) Philips X'pert

Computer skills and competences

Good skills in information and communication technologies (ICT): Microsoft Office, Outlook, Internet. Endnote, ImageJ, Photoshop, Origin, ZView.

Artistic skills and competences

Good writing skills, poetry and prose.

Writing, reading, cinema, photography and sports as hobbies.

Driving licence(s)

A1, A, B, B1

### **Publications**

[29] César A. C. Sequeira, David S. P. Cardoso, Marta Martins, <u>Luís Amaral</u>, "Novel Materials for Fuel Cells Operating on Liquid Fuels", AIMS Energy, 5(3): 458-481 (2017).

[28] <u>L. Amaral</u>, D.S.P. Cardoso, B. Šljukić, D.M.F. Santos, and C.A.C. Sequeira, "Room Temperature Ionic Liquids as Electrolyte Additives for the HER in Alkaline Media" Journal of the Electrochemical Society 164 (4) F427-F432 (2017).

[27] J.A.S.B. Cardoso, D.S.P. Cardoso, <u>L. Amaral</u>, Ö. Metin, M. Sevim, T. Sener, C.A.C. Sequeira, D.M.F. Santos, "Reduced graphene oxide assembled Pd-based nanoalloys for hydrogen evolution reaction", International Journal of Hydrogen Energy, 42 3916-3925 (2017).

[26] <u>L. Amaral</u>, D.S.P. Cardoso, B. Šljukić, D.M.F. Santos, and C.A.C. Sequeira, "Effect of RTILs on the hydrogen evolution reaction in alkaline media", ECS Transactions, 72 (23) 23-29 (2016).

[25] César A.C. Sequeira, David S.P. Cardoso, <u>Luís Amaral</u>, Biljana Šljukić and Diogo M.F. Santos, "On the performance of commercially available corrosion-resistant nickel alloys: a review", Corrosion Reviews, Vol. 34, 4, 187 (2016).

[24] B. Šljukić, D.M.F. Santos, M. Vujković, <u>L. Amaral</u>, R.P. Rocha, C.A.C. Sequeira and J.L. Figueiredo, "Carbon–supported Mo2C electrocatalysts for hydrogen evolution in alkaline medium", ChemSusChem, 9, 1200, (2016).

[23] D. M. F. Santos, B. Šljukić, <u>L. Amaral</u>, J. Milikić, C. A. C. Sequeira, D. Macciò, and A. Saccone, "Nickel–Rare Earth Electrodes for Sodium Borohydride Electrooxidation", Journal of the Electrochemical Society, 190, 1050-1056 (2016)

[22] A.M.R Senos, <u>L. Amaral</u>, N.B. Selvaraj, M. Fernandes, C. Jamin, O. Guillon, I. Reaney, and P.M. Vilarinho, "Microstructure evaluation of titanate based layered perovskites: constrained vs. free sintering", Microscopy and Microanalysis 21 (S6) 92 (2015).

[21] B. Šljukić, M. Vujković, <u>L. Amaral</u>, D.M.F. Santos, R.P. Rocha, C.A.C. Sequeira*a* and J.L. Figueiredo, "Carbon–supported Mo<sub>2</sub>C electrocatalysts for hydrogen evolution reaction", J. Mater. Chem. A 3, 15505-15512 (2015).

[20] C. Sequeira, E. Aghaie, D. Cardoso e <u>L. Amaral</u>, "Corrosão pelos depósitos salinos nos geradores de vapor", Corrosão e Protecção de Materiais, Vol. 34, 1, 22-25 (2015)

[19] D.S.P. Cardoso, <u>L. Amaral</u>, D.M.F. Santos, B. Sljukic, C.A.C. Sequeira, D. Maccio, A. Saccone, "Enhancement of hydrogen evolution in alkaline water electrolysis by using nickel-rare earth alloys", International Journal of Hydrogen Energy 40, 4295-4302 (2015)

[16 C. A. C. Sequeira and <u>L. Amaral</u>, "Bipolar Plates for PEMFC's", Journal of Fuel Cell Science and Technology 11, 044001-1 (2014).

- [15] D. M. F. Santos, B. Šljukic, <u>L. Amaral</u>, D. Macciò, A. Saccone, and C. A. C. Sequeira, "Nickel and Nickel-Cerium Alloy Anodes for Direct Borohydride Fuel Cells", Journal of The Electrochemical Society 161 (5) F594-F599 (2014).
- [14] D. M. F. Santos, L. Amaral, B. Šljukic, D. Macciò, A. Saccone, and C. A. C. Sequeira, "Electrocatalytic Activity of Nickel-Cerium Alloys for Hydrogen Evolution in Alkaline Water Electrolysis", Journal of The Electrochemical Society, 161 (4) F386-F390 (2014)
- [13] César A. C. Sequeira, <u>Luis Amaral</u>, "Role of the Kirkendall Effect in Diffusion Processes in Solids", Transactions of Nonferrous Metals Society of China 24, 1-11 (2014).
- [12] C. A. C. Sequeira, L. Amaral, "Strengthening mechanisms of materials for high temperature application", Corrosão e Protecção de Materiais, Vol. 32, N° 3 (2013) 78-84
- [11] D. M. F. Santos, L. Amaral, B. Sljukic, D. Macciò, A. Saccone, and C. A. C. Sequeira, "Nickel-Cerium Electrodes for Hydrogen Evolution in Alkaline Water Electrolysis", ECS Transactions 58 (2) 113-121 (2013).
- [10] D. M. F. Santos, B. Sljukic, <u>L. Amaral</u>, D. Macciò, A. Saccone, and C. A. C. Sequeira, "Nickel-Cerium Alloys for Borohydride Oxidation", ECS Transactions 58 (1) 1893-1901 (2013)
- [9] <u>Luís Amaral, M. Fernandes</u>, I. M. Reaney, M. P. Harmer, A. M. R. Senos, P. M. Vilarinho, "Grain Growth Anomaly and Dielectric Response in Ti-rich Strontium Titanate Ceramics", Journal of Physical Chemistry C 117 (47) (2013) 24787-24795.
- [8] César A. C. Sequeira, Diogo M. F. Santos, Biljana Šljukić, <u>Luis Amaral</u>, "Physics of Electrolytic Gas Evolution", Brazilian Journal of Physics 43,199 (2013).
- [7] <u>Luis Amaral</u>, Christine Jamin, Ana Senos, Paula Vilarinho, Olivier Guillon, "Constrained sintering of BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> thick films: Pore and grain anisotropy", Journal of the European Ceramic Society 33 (10) 1801 (2013).
- [6] A. E. Souza, G. T. A. Santos, B. C. Barra, W. D. Macedo Jr., S. R. Teixeira, Cássio M. Santos, A.M.O.R. Senos, <u>L. Amaral</u>, E. Longo, "Photoluminescence of SrTiO<sub>3</sub>: Influence of particle size and morphology", Crystal Growth & Design 12 (11) 5671 (2012).
- [5] <u>Luis Amaral</u>, Christine Jamin, Ana Senos, Paula Vilarinho, Olivier Guillon, "Effect of the substrate on the constrained sintering of BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> thick films", Journal of the American Ceramic Society 95 (12) 3781 (2012).
- [4] <u>L. Amaral</u>; A.M.R. Senos; C. Jamin; O. Guillon, P.M. Vilarinho, "Stress Assisted Grain Growth and Dielectric Properties of BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> Thick Films", Proceedings CICMT 2012 (2012).
- [3] <u>L. Amaral</u>, M. Fernandes, A. M. R. Senos, P. M. Vilarinho and M. P. Harmer, "Grain Growth Anomaly in Ti-rich Strontium Titanate as Revealed by Electron Microscopy", Microscopy and Microanalysis 18 (S5) 123 (2012).
- [2] <u>L. Amaral</u>, A. M. R. Senos, P. M. Vilarinho, "Sintering kinetic studies in nonstoichiometric strontium titanate ceramics", Materials Research Bulletin 44, 263 (2009).
- [1] <u>L. Amaral</u>, A. M. R. Senos, P. M. Vilarinho, "Nonstoichiometry effects in SrTiO<sub>3</sub> assessed by Transmission Electron Microscopy", Microscopy and Microanalysis, 14 (S3) 5 (2008).

### **Book Chapters**

[1] "Developments in secondary batteries", César A.C. Sequeira, Biljana Šljukic, Milica Vujkovic, Ivana Stojkovic Simatovic, <u>Luis Amaral</u> and Diogo M.F. Santos - FUEL CELLS AND BATTERIES of the Series ENERGY, SCIENCE & TECHNOLOGY (12 VOLS.), in Vol. 10, Ed. J.N. Govil, Studium Press LLC, USA, 2015

# Oral Communications (Selected)

[20] <u>L. Amaral</u>, D. S. P. Cardoso, B. Šljukić, D. M. F. Santos, C. A. C. Sequeira, "Electrochemistry of Hydrogen Evolution in RTILs Mixtures", MATERIAIS 2017, XVIII Congresso da Sociedade Portuguesa de Materiais and VIII International Symposium on Materials, Aveiro, Portugal, 9 – 12 April 2017.

- [19] <u>L. Amaral</u>, D.S.P. Cardoso, B. Šljukić, D.M.F. Santos, and C.A.C. Sequeira, "Room Temperature lonic Liquids as Electrolyte Additives for Hydrogen Evolution" CeFEMA Worshop 2016, IST, Lisboa, 12th of December of 2016.
- [17] <u>L. Amaral</u>, B. Šljukić, D.M.F. Santos, A. Stojanović, R.P. Rocha, C.A.C. Sequeira and J.L. Figueiredo, "Carbon-supported Mo<sub>2</sub>C electrocatalysts for hydrogen evolution reaction", Physical Chemistry 2014, 22-26 September 2014, Belgrade, Serbia.
- [16] D.M.F. Santos, B. Šljukić, <u>L. Amaral</u>, C.A.C. Sequeira, D. Macciò, and A. Saccone, "Investigation of nickel-rare earth electrodes for sodium borohydride electrooxidation", 226<sup>th</sup> Meeting of the Electrochemical Society, 5-9 October 2014, Cancun, Mexico.
- [15] Paula M. Vilarinho, <u>Luis Amaral</u>, Manuela Fernandes, Ana M. R. Senos, M. P. Harmer, "Retrograde Solubility: The Reason for the Grain Growth Anomaly in Ti-rich Strontium Titanate", 2012 MRS Fall Meeting, November 2012, Boston, Massachusetts, EUA
- [14] Ana M.R. Senos, <u>Luís Amaral</u>, Manuela Fernandes, Paula M. Vilarinho, Martin P. Harmer, Animesh Kundu, Interface transitions and retrograde solubility in Ti-rich strontium titanate, (Invited talk), Workshop on Interfaces, October 2012, Bear Creek Mountain Resort, USA.
- [13] Ana M.R. Senos, <u>Luís Amaral</u>, Paula M. Vilarinho, Christine Jamin, Olivier Guillon, "Texturization of BaO-Ln<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Thick Films: The Role of Constrained Sintering", MS&T'12, October 2012, Pittsburgh, Pennsylvania, EUA
- [12] Ana M.R. Senos, <u>Luís Amaral</u>, Christine Jamin, Olivier Guillon, Paula M. Vilarinho, Stress Assisted Grain Growth and Dielectric Properties of BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> Thick Films., CICMT 2012 IMAPS/ACerS International Conference and Exhibition on Ceramic Interconnect & Ceramic Microsystems Technologies, April 2012, Erfurt, Germany.
- [11] <u>Luis Amaral</u>, Manuela Fernandes, Ana M. R. Senos, Paula M. Vilarinho, "Grain growth anomaly in Ti-rich strontium titanate as revealed by electron microscopy", Microscopy at the Frontiers of Science, October 2011, Aveiro, Portugal
- [10] <u>Luís Amaral</u>, Ana M.R. Senos, Paula M. Vilarinho, Christine Jamin, Olivier Guillon, "Microstructural anisotropy in BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> EPD thick films sintered on Pt-foil substrates", Materiais 2011, April 2011, Guimarães, Portugal
- [9] Ana M.R. Senos, <u>Luís Amaral</u>, Paula M. Vilarinho, Christine Jamin, Olivier Guillon, "Constrained sintering of BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> thick films", MS&T'10, October 2010, Houston, Texas, EUA
- [8] <u>Luís Amaral</u>, Ana M.R. Senos, Paula M. Vilarinho, Christine Jamin, Olivier Guillon, "Constrained sintering and dielectric properties of BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> EPD thick films on Pt-foil substrates", Electroceramics XII, June 2010, Trondheim, Norway
- [7] <u>Luis Amaral</u>, Paula M. Vilarinho, Ana M. R. Senos, "Electrophoretic deposition of strontium titanate thick films: the role of suspension and processing parameters", Materiais 2009, April 2009, Lisbon, Portugal
- [6] <u>L. Amaral</u>, P. M. Vilarinho, A. M. R. Senos, "Relations between stoichiometry and dielectric response in strontium titanate ceramics", COST 539 Workshop, February 2009, Madrid, Spain
- [5] A. M. R. Senos, <u>L. Amaral</u>, P. M. Vilarinho, A. Tkach, I. M. Reaney, "Grain Boundary Structure and Dielectric Properties of Nonstoichiometric Strontium Titanate Ceramics", Sintering 2008, November 2008, California, EUA
- [4] <u>L. Amaral</u>, A. M. R. Senos, P. M. Vilarinho, "Grain boundary structures in nonstoichiometric SrTiO<sub>3</sub> ceramics studied by electron microscopy and impedance spectroscopy", INCOMAM'08, October 2008, Porto, Portugal
- [3] P. M. Vilarinho, <u>L. Amaral</u>, A. M. R. Senos, "Impedance spectroscopy of nonstoichiometric strontium titanate ceramics", Electroceramics XI, September 2008, Manchester, UK
- [2] A. M. R. Senos, L. Amaral, P. M. Vilarinho, "Grain growth in free and constrained strontium titanate ceramics", "ReX & GG III", 2007, South Korea
- [1] <u>L. Amaral</u>, A. Tkach, A. M. R. Senos, P. M. Vilarinho, "Sintering studies of nonstoichiometric strontium titanate ceramics", "Electroceramics X" 2006, Toledo, Spain

# Posters (Selected)

- [9] L. Amaral, D.S.P. Cardoso, B. Šljukić, D.M.F. Santos, and C.A.C. Sequeira, "Effect of RTILs on the hydrogen evolution reaction in alkaline media", 229th Meeting of The Electrochemical Society, Symposium "Hydrogen and oxygen evolution catalysis for water electrolysis 2", San Diego Convention Center, San Diego (CA), USA, May 29-June 2, 2016.
- [8] <u>L. Amaral</u>, D.S.P. Cardoso, B. Šljukić, D.M.F. Santos, and C.A.C. Sequeira, "Effect of RTILs on the hydrogen evolution reaction in alkaline media", 229th Meeting of The Electrochemical Society,

Symposium "Hydrogen and oxygen evolution catalysis for water electrolysis 2" (poster #103-1450), San Diego Convention Center. San Diego (CA), USA, May 29-June 2, 2016.

- [7] Manuela Fernandes, <u>Luís Amaral</u>, Ana M.R. Senos, Paula M. Vilarinho, Martin P. Harmer, Detailed scanning electron microscopy studies of nonstoichiometric strontium titanate ceramics, XLVI Congress of the Portuguese Society for Microscopy 2012, September 2012, Lisbon, Portugal.
- [6] Paulo E. P. M. Filho, Agda E. Souza, Gleyson T. A. Santos, Silvio R. Teixeira, <u>Luís Amaral</u>, Ana M. R. Senos, Elson Longo, "Characterization of Strontium Titanate Synthesized by Microwave-Assisted Hydrothermal Method", X SBPMat, September 2011, Gramado RS, Brasil
- [5] Ana M.R. Senos, <u>Luís Amaral</u>, Paula M. Vilarinho, Christine Jamin, Olivier Guillon, "Pore and grain anisotropy in BaLa<sub>4</sub>Ti<sub>4</sub>O<sub>15</sub> and Ba<sub>4.5</sub>Nd<sub>9</sub>Ti<sub>18</sub>O<sub>54</sub> EPD thick films sintered on platinum", Sintering 2011, August 2011, Jeju Island, South Korea
- [4] A. M. R. Senos, <u>L. Amaral</u>, P. M. Vilarinho, "Constrained sintering and microstructure development of strontium titanate thick films", Sintering 2008, November 2008, California, EUA
- [3] <u>L. Amaral</u>, A. M. R. Senos, P. M. Vilarinho, "Effect of nonstoichiometry on the structure of strontium titanate", V CICECO Meeting, 2008, University of Aveiro, Portugal
- [2] L. Amaral, A. Tkach, A. M. R. Senos, P. M. Vilarinho, "Nonstoichiometry effect in the sintering kinetics of strontium titanate ceramics", IV CICECO Meeting, 2007, University of Aveiro, Portugal
- [1] <u>L. Amaral</u>, A. M. R. Senos, P. M. Vilarinho, "Grain growth studies in nonstoichiometric strontium titanate ceramics", "Materiais 2007", Porto 2007, Portugal

#### Other scientific activities

Reviewer for several international science journals

Member of the jury of IST Masters students Eurico Moutinho and Raísa Oliveira (2015)
Orientation of students in the discipline "Projecto de Materiais" (University of Aveiro, 2010 and 2011)
and of Erasmus+ student Justyna Minkiewicz (IST, 2016)

Member of the Editorial Board of INGENIUS, a scientific publication of the *Universidad Politécnica Salesiana* of Ecuador

### **Prizes and Awards**

4th place in I2P Europe (Idea to Product Competition) with the project ThinFilmTec, June 2011, RWTH Aachen, Germany

2<sup>nd</sup> place in I2P Portugal (Idea to Product Competition) with the project ThinFilmTec, COTEC, Fevereiro 2011, Portugal (prize: 10.000€)

1st place in Empreende+, cathegory "Empreendedorismo de Base Tecnológica" with the project ThinFilmTec, UATEC, January 2011, University of Aveiro, Portugal (prize: 5.000€) Merit scholarship in European Mater in Materials Science, 2005 and 2006, University of Aveiro, Portugal