



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Moura, Isabel Gonçalves
Address(es)	Av. Dr. Porfírio da Silva, N°53 1° Dto, 4715-044 Braga (Portugal)
Mobile	(+351) 967408334
E-mail	mouraisabel1@gmail.com
Nationality	Portuguese
Date of birth	27/02/1983
Gender	Female

Desired employment Chemistry / Science and Polymers Engineering / Materials Physics

Work experience

Dates	1/09/2013 →
Occupation or position held	Postdoctoral Researcher
Main activities and responsibilities	<ul style="list-style-type: none">- Development of hybrid structures incorporating semiconductor quantum dots- Study of plasmonic substrates- Development of nanostructured material systems
Name and address of employer	University of Minho - Institute of Polymers and Composites / Physical Center

Dates	1/02/2013 - 30/08/2013
Occupation or position held	Postdoctoral Researcher
Main activities and responsibilities	<ul style="list-style-type: none">- Functional structuring, inter-particle interaction and energy transfer in ensembles of nanocrystal quantum dots
Name and address of employer	University of Minho - Physical Center

Dates	01/06/2011 - 30/04/2012
Occupation or position held	Researcher
Main activities and responsibilities	<ul style="list-style-type: none">- Development and characterization of new materials based on ink residue
Name and address of employer	University of Minho - Institute of Polymers and Composites

Dates	01/10/2005 - 30/05/2007
Occupation or position held	Researcher
Main activities and responsibilities	<ul style="list-style-type: none">- Study of physicochemical phenomena during the preparation of thermoplastic vulcanizates
Name and address of employer	University of Minho – Department of Polymer Engineering

Education and training

Dates	01/06/2007 - 31/05/2011
Title of qualification awarded	PhD in Science and Engineering of Polymers and Composites. Development of Biodegradable Materials by Reactive Extrusion

Principal subjects/occupational skills covered	Science and Polymer Engineering / Polymer Characterization / Polymer Synthesis / Reactive Extrusion
Name and type of organisation providing education and training	University of Minho – Department of Polymer and Biological Engineering and Department of Chemistry University of Lyon – CNRS UMR5223, Villeurbanne
Level in national or international classification	Level VIII – Unanimously Approved

Dates	01/10/2001 - 20/12/2005
Title of qualification awarded	Degree in Applied Chemistry – Quality Control of Plastic Materials, Organic and Inorganic Chemistry / Chemistry Laboratory Skills / Polymer Chemistry and Characterization Quality Control on Polymer Processing / Subjects Related to Engineering (Mathematics, Physics, etc...)
Name and type of organisation providing education and training	University of Minho - Department of Polymer Engineering and Department of Chemistry
Level in national or international classification	Level VI – Final average grade of 16 (sixteen) – from 0 to 20
Academic awards	<ul style="list-style-type: none"> - School merit award, 2001-2002 - School merit award, 2002-2003 - University of Minho award, 2004-2005 (student with best final mark in the course)

Technical skills and competences

Mother tongue(s) Self-assessment <i>European level (*)</i> English French Spanish	Portuguese									
	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
	C1	Advanced user	C1	Advanced user	B1	Independent user	B1	Independent user	B1	Independent user
	C1	Advanced user	C1	Advanced user	C1	Advanced user	C1	Advanced user	B1	Independent user
C1	Advanced user	B1	Advanced user	B1	Independent user	B1	Independent user	B1	Independent user	
(*) Common European Framework of Reference for Languages										

Technical skills and competences	Gel Permeation Chromatography (GPC), Polymer Extrusion Process, Rheology, Mechanical Properties, Thermogravimetric Analysis (TGA), Differential Scanning Calorimetry (DSC), Infrared Spectroscopy (FTIR), Ultraviolet Visible Spectrometer (U.V/Vis), Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM), Photoluminescence (PL) and Fluorescence Lifetime Microscopy
----------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Driving licence	Category B
-----------------	------------

Additional information

Seminars/Workshops	Spectroscopy UV/VIS and NIR spectroscopies - New Developments, Porto, March 2008 AIST – NT (Atomic Force Microscope), Guimarães, June 2008 SEMAT - UM Advanced Materials Characterization, Guimarães, October 2008 GPC/SEC - Introduction to GPC and SEC techniques, Porto, October 2009 DSC/TG/DEA/DMA/LFA - Thermal Analysis of Materials, Porto, March, 2014
--------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Publications	F.M. Duarte, A.V. Machado, G. Botelho, I. Moura "Photo-degradability of Ketone Modified PS/HIPS Blends", Polymer Testing, Vol. 25, 91-97 (2006).
--------------	---------------------------------------------------------------------------------------------------------------------------------------------------------

A.V. Machado, F.M. Duarte, G. Botelho, **I. Moura** "Photochemical Aging and Processability of Life-Time-Controlled Polystyrene/High-Impact Polystyrene Blends" *Journal of Applied Polymer Science*, Vol. 105, 2930-2938 (2007)

A.V. Machado, **I. Moura**, F. Duarte, G. Botelho, R. Nogueira, A.G. Brito "Evaluation of Properties and Biodeterioration Potential of Polyethylene and Aliphatic Polyesters Blends" *International Polymer Processing XXII*, Vol. 5, 512-518 (2007)

I. Moura, A.V. Machado, F.M. Duarte, G. Botelho, R. Nogueira "Preparation of Biodegradable Materials by Reactive Extrusion". *Materials Science Forum*, Vols. 587-588, 520-524 (2008)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Synthesis of Biodegradable Copolymers based on Ethylene Vinyl Acetate and Polylactic Acid". *Materials Science Forum*, Vols. 636-637, 819-824 (2010)

I. Moura, A.V. Machado, F.M. Duarte, R. Nogueira "Biodegradability Assessment of Aliphatic Polyesters-Based Blends Using Standard Methods" *Journal of Applied Polymer Science*, Vol. 119, 3338-3346 (2011)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Biobased Grafted Polyesters Prepared by *In Situ* Ring-Opening Polymerization" *Reactive & Functional Polymers*, Vol. 71, 694-703 (2011)

A.L. Rodrigues, A. Mosquera-Corral, A.V. Machado, **I. Moura**, M.I. Matos, A.G. Brito, R. Nogueira R "Use of Biopolymers as Solid Substrates for Denitrification" *Water Science & Technology*, Vol. 65, 105-111 (2012)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Synthesis of EVA-g-PLA Copolymers Using Transesterification Reactions" *Materials Chemistry and Physics*, Vol. 134, 103-110 (2012)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Effect of PCL and EVA Molar Mass on the Development of Sustainable Polymers" *Soft Materials*, Vol. 12, 88-97 (2014)

I. Moura, G. Botelho, A.V. Machado, "Characterization of EVA/PLA Blends When Exposed to Different Environments" *Journal of Polymers and the Environment*, Vol. 22, 148-157 (2014)

César Bernardo, **I. Moura**, Y. Núñez Fernández, Eduardo J. Nunes-Pereira, Paulo J. G. Coutinho, Arlindo M. Fontes Garcia, Peter Schellenberg, Michael Belsley, Manuel F. Costa, Tobias Stauber, Mikhail I. Vasilevskiy "Energy Transfer via Exciton Transport in Quantum Dot Based Self-Assembled Fractal Structures" *The Journal of Physical Chemistry C*, Vol. 118, 4982-4990, (2014)

Book Chapters

I. Moura, A.V. Machado, F.M. Duarte, A. G. Brito, R. Nogueira "Biodegradability Assessment of Aliphatic Polyesters Using Standard Methods" *Umwelteinflüsse erfassen, simulieren, bewerten* (ISBN 978-3-9810472-6-4). Karlsruhe, Germany: March (2008)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Synthesis and Characterization of Biodegradable Grafted Copolymers" *in Engenharia - Qualidade de Vida* (ISBN 978-972-8692-59-9), Semana da Escola Engenharia, Guimarães 11-15 October (2010)

I. Moura, A.V. Machado "Modification of Biodegradable Polymers Through Reactive Extrusion" *in Starch-Based Polymeric Materials and Nanocomposites: Starch Chemistry, Processing and Applications*, Ahmed J. (Ed.), Taylor & Francis (2011)

Oral Communications

César Bernardo, **I. Moura**, Y. Núñez Fernández, Eduardo J. Nunes-Pereira, Paulo J. G. Coutinho, Arlindo M. Fontes Garcia, Peter Schellenberg, Michael Belsley, Manuel F. Costa, Tobias Stauber, and Mikhail Vasilevskiy "Energy transfer via exciton transport in QD-based self-assembled fractal structures" XVIII International symposium "Nanophysics & Nanoelectronics", 10-14 March, Nizhny Novgorod, (2014)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Influence of EVA Molar Mass on the Preparation of EVA-g-PCL Biobased Copolymers" Materials Conference, 18-20 April, Guimarães, Portugal (2011)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Grafting of PCL to EVA by Reactive Processing: Effect of PCL Molar Mass" PPS 27 - Polymer Processing Society, 10-14 May, Marrakech, Morocco (2011)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare 2010. "Synthesis and Characterization of EVA/PLA Nanostructured Copolymers" – MPA 4th International Meeting on Developments in Materials, Processes and Applications of Emerging Technologies, 27-30 June, Braga, Portugal (2010)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare. "Synthesis of Biodegradable Copolymers" PPS 26 - Polymer Processing Society, 4- 8 June, Banff, Canada (2010)

I. Moura, A.V. Machado, R. Nogueira, V. Bounor-Legare "Synthesis and Characterization of Biodegradable Ethylene Vinyl Acetate and Lactic Acid Copolymers" PPS 25 - Polymer Processing Society, 18-21 October, Cyprus (2009)

I. Moura, A.V. Machado, F.M. Duarte, R. Nogueira, Véronique Bounor-Legare and P. Cassagnau "Biodegradable Materials by Reactive Extrusion" PPS 24 - Polymer Processing Society, 15-19 June, Salerno, Italy (2008)

I. Moura, A.V. Machado, F.M. Duarte, A.G. Brito, R. Nogueira "Biodegradability Assesment of Aliphatic Polyesters Using Standard Methods" DWS Werbeagentur und Verlag GmbH, 12-14 março, Karlsruhe, Germany (2008)

A.V. Machado, F.M Duarte, **I. Moura**, G. Botelho "Production of Life-Time Controlled PS/HIPS Blends", PPS 23 - Polymer Processing Society, 27-31 maio, Salvador, Brazil (2007)

Poster

- A.V. Machado, **I. Moura**, F.M. Duarte, G. Botelho "Degradability of Various Materials Under Laboratory Conditions" MoDeSt, 10-14 September, San Sebastian, Spain (2006)
- G. Botelho, I.C. Neves, A.V. Machado, **I. Moura** "Catalytic Degradation of Polypropylene Over a New 3-D Mesoporous Material" MoDeSt, 10-14 September, San Sebastian, Spain (2006)
- A.V. Machado, **I. Moura**, F.M. Duarte, G. Botelho, R. Nogueira "Evaluation of the Biodegradability of Blends of Polyethylene and Aliphatic Polyesters" BioPlastics, 27-29 September, Montreal, Canada (2006)
- I. Moura**, A.V. Machado, F.M. Duarte, G. Botelho, R. Nogueira "Preparation of Biodegradable Materials by Reactive Extrusion" Materials Conference, 1- 4 April, Porto, Portugal (2007)
- F.M. Duarte, G. Botelho, A.V. Machado, **I. Moura** "Thermformability of Ketone Modified PS/HIPS Blends" Materials Conference, 1- 4 April, Porto, Portugal (2007)
- I. Moura**, A.V. Machado, G. Botelho "Degradação Termo-Oxidativa de Copolímeros e Misturas à Base de EVA" Encontro Nacional de Química, 11-13 June, Porto, Portugal (2008)
- I. Moura**, A.V. Machado, R. Nogueira "Evaluation of the Biodegradability of Blends and Copolymers of EVA and Aliphatic Polyesters" Dia da Escola de Engenharia, 28-31 October, Guimarães, Portugal (2008)
- I. Moura**, A.V. Machado, F.M. Duarte, A. Brito, R. Nogueira "Biodegradability of Polymer Blends Based on Renewable Resources" Integration of Life Sciences & Engineering – Book of Abstracts of the 10th International Chemical and Biological Engineering Conference, CHEMPOR, 857-856, 4-6 September, Braga, Portugal (2008)
- I. Moura**, A.V. Machado, R. Nogueira "Synthesis and Characterization of Biodegradable Ethylene Vinyl Acetate and Lactic Acid Copolymers" Dia da Engenharia, 20-23 October, Guimarães, Portugal (2009)
- I. Moura**, A.V. Machado, R. Nogueira "Biodegradability of Polymers Blends Based on Renewable Resources" EPF 4th Summer School, Bioplastics and Related Materials, 24-29 May, Gargnano, Italy (2009)
- I. Moura**, A.V. Machado, R. Nogueira, V. Bounor-Legare "Synthesis of Biodegradable Copolymers Based on Ethylene Vinyl Acetate and Polylactic Acid" Materials Conference, 5-8 April, Lisboa, Portugal (2009)
- I. Moura**, A.V. Machado, R. Nogueira, V. Bounor-Legare "Synthesis of EVA/PLA Nanostructured Copolymers by Reactive Extrusion" i3N Meeting, 11-12 February, Fátima, Portugal (2010)
- I. Moura**, A.V. Machado, R. Nogueira, V. Bounor-Legare "Modification of Ethyl Vinyl Acetate with Poly(ϵ -caprolactone) – A Way to Biodegradable Materials" MoDeSt, 5-9 September, Athene, Greece (2010)
- I. Moura**, A.V. Machado, G. Botelho "UV Stability of Biobased Copolymers" Materials Conference, 18-20 April, Guimarães, Portugal (2011)
- I. Moura**, V. Bounor-Legare, A.V. Machado "Modification of Ethyl Vinyl Acetate with Poly(ϵ -caprolactone) - Effect of EVA Molar Mass, i3N Meeting, 10-11 February, Fátima, Portugal, (2012)
- C. Bernardo, M. Belsley, P. Coutinho, **I. Moura**, M. Vasilevskiy, J. Martins, P. Schellenberg "Energy Transfer in Quantum Nanodot Superstructures of Fractal Dimensions", MAF-13, 8-11 September, Rome, Italy (2013)
- C. Bernardo, M. Belsley, P. Coutinho, **I. Moura**, M. Vasilevskiy, J. Martins, P. Schellenberg "Energy Transfer Via Exciton Transport in Quantum Dot Based Self-Assembled Superstructures", OECS 13, 9-13 September, Rome, Italy, (2013)