

November 2013

Curriculum Vitae

Isabel Maria Delgado Jana Marrucho Ferreira

Coordinator Researcher
Instituto de Tecnologia Química e Biológica
Universidade Nova de Lisboa

1. Personal Data

Isabel Maria Delgado Jana Marrucho Ferreira

Instituto de Tecnologia Química e Biológica
Av. da Republica
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2780-157 Oeiras
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Date of Birth: 16. June. 1965
Birth Place: Lisbon
Marital Status: Married
Children: 3

2. Education

1997: PhD in Chemical Engineering from Instituto Superior Técnico/Colorado School of Mines (USA) with thesis entitled: Generalized Corresponding States Theory: Application to Polar Compounds and Their Mixtures.

1989: Degree in Chemical Engineering, Applied Chemistry, from Instituto Superior Técnico da Universidade Técnica de Lisboa.

3. Professional

From September 2013 onwards - Researcher Coordinator at Instituto de Tecnologia Química e Biológica within Investigador FCT program, advanced research grant in Engineering and Technology, New Extraction Processes based on Deep Eutetic Solvents, grade 9.

From January 2013-2016 - Pesquisador Especial Visitante, Ciência sem Fronteiras Program, Universidade Federal do Rio de Janeiro

From September 2008-2013 Assistant Researcher at Instituto de Tecnologia Química e Biológica, within CIÊNCIA 2007 program.

From December 1997–2013 Assistant Professor at Departamento de Química da Universidade de Aveiro.

From February 1997 up to December 1997 – Assistant at Faculdade de Farmácia da Universidade Clássica de Lisboa.

From May 1995 up to May 1996 - Research and Teaching Assistant na Colorado School of Mines, Golden, Co, USA, in Thermodynamics.

From January 1992 up to January 1996 – PhD student with a mixed scholarship from JNICT, allowing to travel between IST/Colorado School of Mines, USA. Worked at least for 6 months per year at Colorado School of Mines under the guidance of Prof. Jim Ely.

From January 1990 up to January 1992 - initial researcher scholarship, within the project financed by JNICT under the theme *Extraction of Portuguese Rosemary with Supercritical Carbon Dioxide*, under de guidance of Prof. António Palavra.

4. Teaching

4.1. Lecture Courses

Lective year	1 st semester	2 nd semester
12/13	New perspectives on CO2 separation – seminar at the European Master Degree in Membrane Sciences	
11/12	Leave of absence	Solvation in Ionic Liquids – Theoretical Class and tutorial in the ITQB PhD program.
10/11	Leave of absence	Thermodynamics of Chemical Processes– (2nd year, Integrated Masters in Chemical Engineering): theoretical classes (2h/week) Responsible. Solvation in Ionic Liquids – Theoretical Class and tutorial in the ITQB PhD program.
09/10	Leave of absence	Leave of absence
08/09	Leave of absence	Physical Chemistry II - (2nd year, Degree in Chemistry and Integrated Masters in Chemical Engineering): theoretical classes (3h/week) Responsible.
07/08	Laboratory QO-QF (2 nd year, Degree in Chemistry) (3h/week). Laboratory of Introduction to Chemical Engineering (1st year, Degree in Chemistry, Physics, Material Engineering) (6h/week).	Physical Chemistry II - (2nd year, Degree in Chemistry and Integrated Masters in Chemical Engineering): theoretical classes (3h/week) Responsible. Laboratory QF (2nd year, Degree in Chemical Engineering) (5h/week) Responsible.
06/07	Physical Chemistry I – (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): tutorial classes (4h/week). Química Física III – (3 rd year, degree in Chemistry): theoretical classes (3h/week) Responsible.	Physical Chemistry II - (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): theoretical classes (12h/week) Responsible.
05/06	Physical Chemistry I – (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): tutorial classes (4h/week). Química Física III – (3 rd year, degree in Chemistry): theoretical classes (3h/week) Responsible.	Physical Chemistry II - (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): tutorial Classes (4h/week). Laboratory QFI-QOI- (3h/week) Artificial Blood Substitutes – (Masters in Biomedical Engineering): theoretical classes.

	Sabatical Leave	Sabatical Leave
04/05		Artificial Blood Substitutes – (Masters in Biomedical Engineering): theoretical classes.
03/04	Physical Chemistry I – (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): theoretical classes (3h/week) tutorial classes (1h/week). Physical Chemistry (3rd year, Degree in Physical Chemistry): theoretical classes (3h/week) Responsible. Química Física III – (3 rd year, degree in Chemistry): theoretical classes (3h/week) Responsible.	Maternity Leave
02/03	Physical Chemistry I – (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): theoretical classes (3h/week) tutorial classes (1h/week). Physical Chemistry (3rd year, Degree in Physical Chemistry): theoretical classes (3h/week). Química Física III – (3 rd year, degree in Chemistry): theoretical classes (3h/week) Responsible.	Physical Chemistry II - (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): theoretical classes (3h/week) and tutorial Classes (1h/week) Complements in Physical Chemistry (3rd year, Degree in Physical Chemistry): theoretical classes (3h/week).
01/02	Laboratory Q716 (4 th year, Degree in Chemistry): (4h/week). Laboratory Q716 (4 th year, Degree in Biochemistry): (4h/week).	Physical Chemistry II - (2nd year, Degree in Chemistry, Biochemistry and Chemical Engineering): theoretical classes (3h/week). Responsible. Complements in Physical Chemistry (3rd year, Degree in Physical Chemistry): theoretical classes (3h/week). Responsible.
00/01	Laboratory Q716 (4 th year, Degree in Chemistry): (4h/week). Laboratory Q716 (4 th year, Degree in Biochemistry): (4h/week).	Laboratory Q626 (3 rd year, Degree in Chemistry, Biochemistry and Chemical Engineering): (4h/week). Responsible. Complements in Physical Chemistry (3rd year, Degree in Physical Chemistry): theoretical classes (3h/week). Responsible.
99/00	Laboratory Q716 (4 th year, Degree in Chemistry): (4h/week). Laboratory Q716 (4 th year, Degree in Biochemistry): (4h/week).	Laboratory Q616 (3 rd year, Degree in Chemical Engineering): (4h/week). Responsible.
98/99	Laboratory Q716 (4 th year, Degree in Chemistry): (4h/week). Laboratory Q716 (4 th year, Degree in Biochemistry): (4h/week).	Laboratory Q616 (3 rd year, Degree in Chemical Engineering): (4h/week). Responsible.
97/98	Química I (1 st year UA): laboratory classes (12h).	Química II (1 st year UA): laboratory classes (10h).

In the sequence of several restructurations, several courses were proposed: in the area of Physical Chemistry, Physical Chemistry III (restruturation of 2002/2003), Physical Chemistry II (Bologne version), Laboratories Q616 (1998/1999); Laboratories in Physical Chemistry for Chemcial Engineers para Engenharia Química (Bologne version). Two opcional courses were also offered: Green Chemistry and Phycial chemistry of Interfaces. However, these last two disciplines were never taught due to my leave of absence.

4.2. Seminars, Projects and Internships

- 15 students in Seminar/Project
- 7 Curricular Internships with partners:
 - Olga Cortes, Estudo Termodinâmico de Líquidos Iónicos Fluorados para Desenvolvimento de Terapêuticas de Oxigénio, 2012/2013.
 - Marta Figueiredo, Extraction of Biomolecules with Ionic Liquids based on Vitamines, Universidade de Évora, 2011/2012.
 - Joana Trindade, LLE of perfluorinated + ionic liquids systems, ITQB, Lisboa, 2006/2007.
 - Maria Jorge Pratas Melo, LLE of perfluorinated + hydrocarbon systems, ITQB, Lisboa, 2004/2005.
 - Nuno Pedrosa, Use of Headspace apparatus to measure vapour pressure, VLE and solvent permeability in polymers, Bayer A.G., Leverkusen, Germany, 2002/2003.
 - Mara Freire, Stability of Emulsions, Universidade Federal do Rio de Janeiro, Brasil, 2002/2003.
 - Filipe Santos, Thermal Conductivity for Polar Blowing Agents, Bayer A.G., Leverkusen, Germany, 2001/2002.
 - Nelson Oliveira, Thermal Conductivity of Gases, BayerA.G., Leverkusen, Germany, 1999/2000.

5. Department Management Activities

2012 ITQB Responsible for the PhD Program in Sustainable Chemistry (Universidade Nova de Lisboa, Requimte, Universidade de Aveiro)

1999-2002 Equivalence Comission of the Departamento de Química

1999-2001 Secretary of the Departamento de Química's Scientific Comission

6. Students Guidance

6.1. Master Students

Pedro Bastos - Separação de Misturas Azeotrópicas usando Líquido Iónicos com Alto Caracter Iónico, Master in Chemical Engineering, Universidade Nova de Lisboa; to be finished March 2014.

Susana Teresa Antunes Martinho – Development of New Oxygen Therapeutics Using Fluorinated Ionic Liquids; Master in Biomedical Engineering, Universidade Nova de Lisboa; Finished December 2012.

Catarina Isabel Santos Florindo – Increased Bioavailability of Pharmaceutical Active Ingredients Through the use of Ionic Liquids; Master in Biotechnology, Universidade Nova de Lisboa; Finished December 2011.

Filipe Serrão Santos Oliveira – Extraction of Biorefinery Platform Materials using Ionic Liquids, Master in Materials from Renewable Resources; Universidade de Aveiro; Finished in December 2010.

Catarina Daniela Gonçalves Pinto Varanda – Thermal Conductivity of Polyurethane Foams Blowing Agents, Master in Chemical Engineering; Universidade de Aveiro; Finished in December 2009.

Vera Marta Almeida Gomes – Chemometrics in the Encapsulation of Fluoroquinolones, Master in Chemistry; Universidade de Aveiro; Co-adviser: J.A.B. Oliveira. Finished in June 2009.

Marisa Vendeira Valente – Polymerization of PMMA in Microemulsion using Ionic Liquids as Surfactants, Master in Chemical Engineering; Universidade de Aveiro; Co-adviser: A.T. Barros. Finished in December 2008.

Liliana Sofia Carvalho Tomé – Preparation and Gas Permeability Measurements in Modified Cellulose Substrates, Master in Materials from Renewable Resources; Universidade de Aveiro; Co-adviser: C. Freire. Finished in December 2008.

Ana Isabel da Graça Barranqueiro Caço – Influence of the Ionic Pair in the Partition of Fluoroquinolones, Master in Chemical Engineering; Universidade de Aveiro; Finished in July 2008.

Luis Miguel Bordalo Filipe – Evaluation of COSMO-RS as a tool for the Calculation of Henry's Constants and Selectivities, Master in Chemical Engineering; Universidade de Aveiro; Co-adviser: J.A.P. Coutinho. Finished in December 2007.

Fátima Varanda – LLE in Fluorinated Biphasic Systems. Master in Chemical Engineering; Universidade de Aveiro; Co-adviser: J.A.P. Coutinho. Finished in December 2007.

Joana Cristina Alberto Lopes – Pour Points in Biodiesels, Master in Chemical Engineering; Universidade de Aveiro; Co-adviser: J.A.P. Coutinho. Finished in July 2007.

Sónia Andreia Espírito Santo – LLE in the Production of Biodiesel, Master in Chemical Engineering; Co-adviser: J.A.P. Coutinho; Universidade de Aveiro; Finished in July 2007.

Rui Manuel Cordeiro Ferreira – Solubility of Biodegradable Polymers in Green Solvents, Master in Chemical Engineering; Co-adviser: J.A.P. Coutinho; Universidade de Aveiro; Finished in July 2007.

Maria Jorge de Pratas Melo – Solubility of Gases in Ionic Liquids using QCM, Master in Analytical Chemistry; Universidade de Aveiro; Co-adviser: J.A.B. Oliveira. Finished in May 2007.

6.2. PhD Students

Hugo Ferrão Dias de Almeida - Treatment of aqueous effluents contaminated with pharmaceutically active compounds, PhD in Chemical Engineering, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; Co-adviser: Mara Freire. Started in February 2013.

Nuno Silva - Development of innovative bionanocomposites based on polysaccharides and protein nanofibrils, Universidade de Aveiro, PhD in Material Sciences, Adviser: Carmen Freire. Started in April 2013.

Filipe Serrão Santos Oliveira – Azeotropic Separation: Playing with the ionicity of Ionic Liquids, PhD in Chemical Engineering, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; Co-adviser: L.P.N. Rebelo. Started in March 2011.

Liliana Sofia Carvalho Tomé – Development of new Functional Materials Based on Polysaccharides and Ionic Liquids, PhD in Materials Sciences, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; Co-adviser: C. Freire (CICECO). Started in March 2011.

Pedro Jorge Marques Carvalho – Using Ionic Liquids in the Treatment of Natural Gas Effluents, PhD in Chemical Engineering, Universidade de Aveiro; Adviser: J.A.P. Coutinho. Finished December 2011.

Sónia Patrícia Marques Ventura – Production of Lipase through Extractive Fermentation Using Ionic Liquids, PhD in Chemical Engineering, Universidade de Aveiro; Adviser: J.A.P. Coutinho. Finished November 2011.

Carla Maria Batista Gonçalves – Barrier Properties in Composite Polymeric Films for the Packaging Industry, PhD in Chemical Engineering, Universidade de Aveiro; Co-adviser: J.A.P. Coutinho. Started in March 2006.

Mara Guadalupe Freire Martins – Solubility and Mass in Organic Systems Dispersed in a Aqueous Phase, PhD in Chemical Engineering, Universidade de Aveiro; Adviser: J.A.P. Coutinho. Finished September 2007

Nuno Miguel Pedrosa – Characterization of new Biodegradable Materials for Packaging, PhD in Chemical Engineering, Universidade de Aveiro; Co-adviser: J.A.P. Coutinho. Finished February 2007.

Nelson Simões Oliveira – Solubility of Gases in Polymeric Membranes, PhD in Chemical Engineering, Universidade de Aveiro; Co-adviser: J.A.P. Coutinho. Finished November 2005.

Ana Maria Antunes Dias – Solubility of Gases in Blood Substitutes. PhD in Chemical Engineering, Universidade de Aveiro; Co-adviser: J.A.P. Coutinho. Finished November 2005.

António José do Nascimento Queimada – Study of Surface Tension and Gelification of Heavy Fuels, PhD in Chemical Engineering, Universidade de Aveiro; Adviser: J.A.P. Coutinho. Finished June 2004.

6.3. Post-Doctoral Students

Ana Belen Esteves - New Fluorinated Ionic Liquids as Novel Task-specific Fluids, Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; Started in 2013.

João Miguel Mendes de Araújo – Ionic Liquids as Active Pharmaceutical Ingredients (APILs). Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; Started in 2010.

Bernardo Dias Ribeiro – Extraction of Saponins from Brazilian Natural Products, Pós-Doutoramento sandwich Universidade Federal do Rio de Janeiro/Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; from September 2011 to April 2013.

Ana Rodriguez – Study of Lipase Using Ionic Liquids: DSF vs DSC. Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; from July 2009 to July 2010.

Francisco Deive – Extraction of Lipases Using Ionic Liquids. Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa; from July 2009 to July 2010.

Luciana Isabel Nabais Tomé – Interactions Between Aminoacids and Ionic Liquids in Aquous Solutions and Its Impact in the Protein Extraction. Universidade de Aveiro; from February 2008 to February 2009.

António José do Nascimento Queimada – Surface Properties and Phase Equilibria of Water + Hydrocarbons Systems. Universidade de Aveiro; from July 2004 to September 2006.

Jun Gao – Solubility of Gases in Polymers at High Pressures. Universidade de Aveiro; from August 2002 to February 2003.

7. Projects

7.1. Financed Projects

7.1.1. As Responsible

2013-2015 PTDC/QEQ-FTT/1686/2012, Green Ionic Liquids: New Solutions to Old Engineering Problems. (150 939€)

2013-2016, CAPES 145/2012, Líquidos Iônicos como Solventes Verdes na Engenharia de Processos Bioquímicos, Pesquisador Especial Visitante, Ciência sem Fronteiras com Universidade Federal do Rio de Janeiro, (61 315 Reais).

2013-2016, FP7-PEOPLE-2012-IRSES, IONRUN, Innovative Ionic Polymers from Natural Sources for Energy and Environment, (Responsible in the Institution), (200 000€)

2010-2013 PPTDC/EQU-EPR/104554/2008, Ionic Liquids as Active Pharmaceutical Ingredients, with Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa and Fundação Ensino e Cultura Fernando Pessoa. (111 000 €)

2009-2011 PTDC/QUI/72903/2006, Anchoring Basic Parameters for the Development of Fundamental Models for Ionic Liquids Systems, with Faculdade de Ciências da Universidade do Porto and Instituto Tecnologia de Química e Bioquímica. (99 788€)

2008-2010 PTDC/EQU-FTT/65252/2006, VLE of Pure Ionic Liquids and Their Mixtures with Organic Solvents, with Faculdade de Ciências da Universidade do Porto and Instituto Tecnologia de Química e Bioquímica. (129 090€)

2003-2007 GRICES/CAPES, On the Use of Perflurorcarbons in the aeration of *Yarrowia lypolitica* Cultures for the Development of Bioprocesses and Lipase Production, with Universidade Federal do Rio de Janeiro.

2003–2004 Acção integrada Luso-Espanhola E-51/02, Study of hydrofluorethers as replacements of CFC's e HFC's, with Universidade de Vigo.

2002–2005 Projecto POCTI/EQU/43356/2001, Permeability of Aromas in Food Packaging Materials (109 875€)

2001-2003 Protocolo ICCTI/DAAD 423/DAAD, Using the Extended Corresponding States Theory in the Calculation of Densities in Supercritical Conditions, with Technical University Hamburg-Harburg.

1999-2001 Protocolo ICCTI/Embaixada de França 237/B4, Properties of Aqueous solutions of hydrocarbons and halogenates hydrocarbons, with Université Blaise Pascal.

1999–2002 Projecto POCTI/EQU/35435/99, Solubility of Gases in Blood Substitutes (32 421€)

7.1.2. As Participant

2013-2015 PTDC/AGR-FOR/3187/2012, New Valorization Strategies for Eucalyptus spp. Bark Extracts, Responsible F. Duarte.

2012-2015 PTDC/QUI-QUI/121520/2010, Ionic Liquids as Promoters of Aqueous Biphasic Systems: The Role of van der Waals and Coulomb Interactions, Responsible: M. Freire.

2012-2015 Projecto PTDC/EQU-FTT/118800/2010, Development of new oxygen therapeutics systems: use of fluorinated ionic liquids, Responsible: A. Pereira.

2011-2014 Projecto PTDC/EQU-FTT/116015/2009, Playing with the ionic character of ionic liquids. Responsible: L.P. Rebelo.

2006-2011 Projecto PTDC/QUI/71398/2006, Polymer plasticization and compatibility using Green Technologies. Application of ionic liquids and supercritical fluids. Responsible: H. Sousa.

2005-2008 Projecto POCTI/EQU/58152/2004, Selection of Ionic Liquids for gás Separation. Responsible: J. A.P. Coutinho.

2004-2006 Projecto POCTI/EQU/44427/2002, Aeration of Multiphasic Biological Reactors, Responsible: J. A.P. Coutinho.

2003-2004 Acção integrada Luso-Espanhola E-68/03, Description of Oil/Water Interfacial Tensions Descrição Using the Gradient Theory. With Universitat Rovira i Virgili, Tarragona e o ICMA B, Barcelona. Responsible: J. A.P. Coutinho.

2000-2003 Convénio ICCTI/CAPES, Integrated Chemical Processes Development: Production, Separation and Purification of Biopolymers. With Universidade Federal do Rio de Janeiro. Responsible: J. A.P. Coutinho.

1999-2002 Projecto 301/B4, cooperation Luso-Francesa ICCTI/Embaixada de França, Characterization and Modelling of Parafins in Petrol Fluids. With Departamento de Física da Université de Pau et des Pays de l'Adour. Responsible: J. A.P. Coutinho.

1999-2001 Projecto Praxis P/EQU/12010/1998, Gelification and Surface Tension of Heavy Fuels. Responsible: J. A.P. Coutinho.

7.2. Industrial Projects

2013 - With Merck, Germany, *under discussion*.

2013 - With Bayer AG, Leverkusen, Germany, *under discussion*.

2002-2008 With Bayer, AG, Leverkusen, Germany, Solubility of Fluoroquinolones in Industrially Relevant Solvents.

2000-2001 With Bayer, AG, Leverkusen, Germany, Modelling the Phase Equilibria of Polymer + Olygomer Solutions. Development of *user friendly lab-software* for the phase equilibria of polymer + olygomer solutions, using excell and VISUAL BASIC. This software is under the confidentiality agreement between Universidade de Aveiro and Bayer, Ag, Leverkusen.

1999-2005 With Bayer, AG, Leverkusen, Germany, Thermal Conductivity of Blowing Agents: Experimental Measurements and Modeling. Two internal industrial Reports, DHR132 e DHR136, were produced. These reports are under the confidentiality agreement between Universidade de Aveiro and Bayer, Ag, Leverkusen.

8. Organization of Conferences and Workshops

Organizing Committee of *V Conference On Ionic Liquids (COIL)*, 20-25 April, Vilamoura, 2013.

Organizing Committee of *3rd Iberian Meeting on Ionic Liquids*, 20-25 April, Vilamoura, 2013

Organizing Committee of *9^o Encontro Nacional de Química-Física/1st Iberian Meeting on Ionic Liquids*, Aveiro, 15-16 June 2009.

Head of the Organizing Committee of *Academia de Verão*, Departamento de Química, Universidade de Aveiro, July 2008.

Organizing Committee of *1^a Academia de Verão*, Departamento de Química, Universidade de Aveiro, 17-21 July 2006.

Organizing Committee of *11^a Olimpíadas Ibero-Americanas de Química*, Aveiro, 7-15 de September 2006.

Organizing Committee of *11th International Symposium on Solubility Phenomena*, Aveiro, 21-28 July 2004.

Organizing Committee of *CHEMPOR' 2001*, 8th International Conference on Chemical Engineering, Aveiro, 12-14 September 2001.

Organizing Committee of *17th European Symposium in Applied Thermodynamics*, Vilamoura, 13-16 May 1999.

9. Publications

9.1. Chapters in Books

1. L.C. Tomé and I.M. Marrucho, *New Perspectives on Gas Separation using Poly(ionic liquid)s* by D. Mercerreyes, Chapter in *Polymers and Ionic Liquids*, Springer, to be published in 2014.

- I.M. Marrucho, B. D. Ribeiro, M. A. Z. Coelho, Biocatalysis in Ionic Liquids, Chapter in Green Chemistry and White Biotechnology by B. D. Ribeiro, M. A. Z. Coelho, Royal Society of Chemistry, to be published in 2014.
- Carla M. B. Gonçalves, João A. P. Coutinho, Isabel M. Marrucho, Optical Properties Of Polylactide Based Polymers, Chapter in Poly(lactic acid) -Synthesis, Properties, Processing and Applications edited by R. Auras and J.T. Rose, Editor Wiley-Blackwell, John Wiley & Sons, Inc., (2010) ISBN 978-0-470-29366-9 (97-112).
- M. G. Freire, L. M. N. B. F. Santos, I. M. Marrucho and J. A. P. Coutinho, Predicting the Thermodynamic Behavior of Water & Ionic Liquids Systems Using COSMO-RS, Chapter in Molten Salts and Ionic Liquids: Never the Twain?, Edited by Marcelle Gaune-Escard and Kenneth R. Seddon, John Wiley & Sons, Inc. (2010) ISBN 978-0471773924 (101-121).
- R.L. Silva, I. M. Marrucho, J. A. P. Coutinho and A. M. Fernandes Mass Spectrometry Studies on Ionic Liquids Aggregates, Chapter in Molten Salts and Ionic Liquids: Never the Twain?, Edited by Marcelle Gaune-Escard and Kenneth R. Seddon, John Wiley & Sons, Inc. (2010) ISBN 978-0471773924 (101-121).
- P.F.F. Amaral, M. A. Z. Coelho, I. M. Marrucho and J. A.P. Coutinho, Biosurfactants from Yeasts: Characteristics, Production and Application, Chapter in Biosurfactants, Advances in Experimental Medicine and Biology 672 edited by Sen. Ramkrishna © Landes Bioscience (2010) ISBN: 978-1-4419-5978-2 (236-249).
- J. F. Ely and I. M. J. Marrucho, The Corresponding-States Principle, Chapter in Equations of State for Fluids and Fluid Mixtures, edited by J.V. Sengers, R.F. Kayser, C.J. Peters and H.J. White, Jr. Eds., IUPAC Commission on Thermodynamics, Elsevier (2000). ISBN 978-0-444-50384-8 (289-316)

9.2. Articles in Peer Reviewed International Journals

- M. Isik, R.Gracia, L.C. Kollnus, L. C. Tomé, **I. M. Marrucho**, D. Mecerreyes, Cholinium-based poly(ionic liquid)s: Synthesis, characterization and application as biocompatible ionogels and cellulose coatings, accepted in ACS Macro Letters, 2013.
- L.C. Tomé, D.J.S. Patinha, R.Ferreira, H.Garcia, C.S.Pereira, C.S.R. Freire, L.P.N. Rebelo, **I.M. Marrucho***, Cholinium-based supported ionic liquid membranes: a sustainable route for CO₂ separation, accepted ChemSusChem DOI: 10.1002/cssc.201300613.
- F. S. Oliveira, A.B. Pereira, J.M.M. Araújo, C.E.S. Bernardes, J.N. Canongia Lopes, S. Todorovic, G. Feio, P.L. Almeida, L.P.N. Rebelo, **I.M. Marrucho***, High Ionicity Ionic Liquids (HIILs): Comparing Ethylsulfonate and Ethylsulfate Anion Effect, Phys. Chem. Chem. Phys. 15(41):18138-47.
- C. Florindo, J.M.M. Araújo, F. Alves, C. Matos, R. Ferraz, C. Prudêncio, J.P. Noronha, Z. Petrovski, L. Branco, L.P.N. Rebelo, **I.M. Marrucho***, Enhancing Ampicillin Bioavailability and Solubility: an Ionic Liquids Approach, Int. J. Pharm. <http://dx.doi.org/10.1016/j.ijpharm.2013.08.010>
- A.B. Pereira, M.J. Pastoriza-Gallego, K. Shimizu, **I.M. Marrucho**, J.N. Canongia Lopes, M. Piñeiro, L.P. Rebelo, On the Formation of a Third, Nanostructured Domain in Ionic Liquids, J.Phys. Chem B. 2013, 117, 10826-10833, 2013.

6. C.M.S.S. Neves, K. A. Kurnia, J.A.P. Coutinho, I.M. Marrucho, J.N. Canongia Lopes, M.G. Freire, L.P.N. Rebelo, Systematic Study of the Thermophysical Properties of Imidazolium-Based Ionic Liquids with Cyano-Functionalized Anions, *J. Phys. Chem. B* 117, 10271–10283, 2013.
7. L.C. Tomé, M. A. Abouzadeh, L.P.N. Rebelo, C.S.R. Freire, D. Mecerreyes, **I.M. Marrucho***, Polymeric ionic liquids with mixtures of counter-anions: new straightforward strategy for designing pyrrolidinium-based CO₂ separation membranes, *J. Mater. Chem. A*, **1**, 10403 – 10411, 2013.
8. L.C. Tomé, D.J.S. Patinha, C.S.R. Freire, L.P.N. Rebelo, **I.M. Marrucho***, CO₂ separation applying ionic liquid mixtures: the effect of mixing different anions on gas permeation through supported ionic liquid membranes, *RSC Advances* 3, 12220-12229, 2013.
9. A.B. Pereira, L. C. Tomé, S. Martinho, L.P.N. Rebelo, **I. M. Marrucho***, Gas Permeation Properties of Fluorinated Ionic Liquids, *Ind. Eng. Chem Res.* 52, 4994-5001, 2013.
10. J. M. M. Araújo, A.B. Pereira, J.N. Canongia Lopes, L.P.N. Rebelo and **I. M. Marrucho***, Hydrogen-Bonding and the Dissolution Mechanism of Uracil in an Acetate Ionic Liquid: New Insights from NMR Spectroscopy and Quantum Chemical Calculations, *J. Phys. Chem B.* 117, 4109-4120, 2013.
11. S. Martinho, J.M.M. Araújo, L.P.N. Rebelo, A. B. Pereira, **I. M. Marrucho***, Liquid-liquid Equilibria of Perfluorocarbons with Fluorinated Ionic Liquids, *J. Chem. Thermodyn.* 64, 71-79, 2013.
12. B.D. Ribeiro, M.A. Z. Coelho, **I.M. Marrucho***, Extraction of Saponins from Sisal (*Agave sisalana*) and Jua (*Ziziphus joazeiro*) with Cholinium-based Ionic Liquids and Deep Eutectic Solvents, accepted in *Eur. J. Food Chem.* DOI 10.1007/s00217-013-2068-9.
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9.3. Invited Talks in Conferences

F. S. Oliveira, L.S. Tomé, C. Freire, L.P.Rebello, **I.M. Marrucho**, New Sustainable Solutions for Separation Processes, Keynote at XXIII Nacional Meeting of Portuguese Society of Chemistry, Aveiro, Portugal, June 2013.

A. B. Pereira, J. M. M. Araújo, F. S. Oliveira, C. E. S. Bernardes, J. M. S. S. Esperança, J. N. C. Lopes, I. M. Marrucho and L. P. N. Rebello, The Development of New Green Solvents: High Ionicity Ionic Liquids (HIILS), Keynote at ICCE-ANQUE-2012, Sevilla, Spain, June 2012.

L.P.N. Rebello, J.N. Canongia Lopes, C.S. Pereira, J.M. Esperança, I.M. Marrucho, A.B. Pereira, M. Kowacs, M. Tariq, M.G. Freire, H.I. Veiga, J.M.M. Araújo. Ionic Liquids: Do we already Know Everything? 4th Congress On Ionic Liquids, June 15-18, Arlington, Virginia, USA, 2011.

J.A.P. Coutinho, M.G. Freire, L.M.N.B.F. Santos, I.M. Marrucho, L.P.N. Rebello, J.K. Shah, E.J. Maginn, On the molecular basis of the salting in of ionic liquids (and other molecules) in aqueous solution, 17th Symposium on Thermophysical Properties 2009, Boulder, CO, USA, June 2009.

M.G. Freire, P.J. Carvalho, L.M.N.B.F. Santos, L.P.N. Rebello, J.A.P. Coutinho, **I.M. Marrucho**, Ion Specific Effects in Water and imidazolium-based Ionic Liquids mutual Solubilities, European /Japanese Molecular Liquids Group Meeting, Lisboa, Portugal, 2008

C.M.B. Gonçalves, L.C. Tomé, J.A.P. Coutinho, **I.M. Marrucho**, Polymers from Renewable Resources, European Symposium on Applied Thermodynamics, Cannes, França, 2008.

M.G. Freire, L.M.N.B.F. Santos, A.M. Fernandes, J.A.P. Coutinho, **I.M. Marrucho**, An overview of the Mutual Solubilities of Water – Imidazolium Based Ionic Liquids Systems, Oral, Eleventh International Conference on Properties and Phase Equilibria, PPEPPD 2007, Creta, Grécia, 2007.

I.M. Marrucho, Polymers And Polymer Nanocomposites From Renewable Resources, Ta1, 41, XXI Encontro Nacional Da Sociedade Portuguesa De Quimica, Portugal, 2006.

9.4. Communications (Oral and Posters) in Scientific Meetings

M.G. Freire, C.M.S.S. Neves, J.A.P. Coutinho, I.M. Marrucho, J.N. Canongia Lopes, L. P.N. Rebello, Thermophysical properties of ionic liquids: contribution of the -CN group, Poster at Eighteen International Symposium on Thermophysical Properties, Boulder, Co, USA, 2012.

M.G. Freire, C.M.S.S. Neves, J.N. Canongia Lopes, I.M. Marrucho, J.A.P. Coutinho, L.P.N. Rebello, Ionic-Liquid-Based Aqueous Biphasic Systems: Self-Aggregation Phenomenon, Poster at Eighteen International Symposium on Thermophysical Properties, Boulder, Co, USA, 2012.

B.D. Ribeiro, M.A.Z. Coelho, L.P.N. Rebello, I.M. Marrucho, Uso de líquidos iónicos para extracção de saponinas de mate (*Ilex Paraguariensis*), Poster at Congresso Brasileiro de Engenharia Química, Búzios, Brazil, 2012.

B.D. Ribeiro, M.A.Z. Coelho, I.M. Marrucho, Extraction of saponins from *Ziziphus joazeiro* using ionic liquids and analogues, Poster at 4th International IUPAC conference on Green Chemistry, Foz do Iguaçu, Brazil, 2012.

B.D. Ribeiro, M.A.Z. Coelho, L.P.N. Rebelo, I.M. Marrucho, Extraction of saponin from green tea (*Camellia sinensis*) using ionic liquids, Poster at 4th International IUPAC conference on Green Chemistry, Foz do Iguaçu, Brazil, 2012.

I.M. Marrucho, M.A.Z. Coelho, B.D. Ribeiro, Use of biocompatible ionic liquids for extraction of saponins from agave sisalana, Poster at 16th World Congress of Food Science and Technology, Foz do Iguaçu, Brazil, 2012.

F. S. Oliveira, A. B. Pereiro, J. M. M. Araújo, L.P.N. Rebelo and I. M. Marrucho, Deep eutectic solvents for separation of azeotropic mixtures, P34 at EUCHEM Conference on Molten Salts and Ionic Liquids, Newport, Wales, 2012.

A. B. Pereiro, J. M. M. Araújo, F. S. Oliveira, C. E. S. Bernardes, J. M. M. S. Esperança, J. N. C. Lopes, I. M. Marrucho and L. P. N. Rebelo, Developing even high ionicity ionic liquids (HILS) simple: Just add salt, P35 at EUCHEM Conference on Molten Salts and Ionic Liquids, Newport, Wales, 2012.

L.C. Tomé, D. Mercerreyes, C.S.R. Freire, L.P.N. Rebelo, I.M. Marrucho, New Strategies in CO₂ Separation: Poly(ionic liquids) composite membranes, Oral at EUCHEM Conference on Molten Salts and Ionic Liquids, Newport, Wales, 2012.

J. M. M. Araújo, A. B. Pereiro, C. Florindo, L. P. N. Rebelo, I. M. Marrucho, Different approaches to biologically active ionic liquids composed purely of biomaterials, Poster at EUCHEM Conference on Molten Salts and Ionic Liquids, Newport, Wales, 2012.

A.B. Pereiro, L. C. Tomé, L. P. N. Rebelo, I. M. Marrucho, Determination of gas solubility, diffusivity and permeability in supported fluorinated ionic liquid, Poster at EUCHEM Conference on Molten Salts and Ionic Liquids, Newport, Wales, 2012.

J.M.M. Araújo, A. B. Pereiro, F. Alves, L.P.N. Rebelo, I.M. Marrucho, Evaluation of the formation and extraction capability of cholinium-based aqueous biphasic systems: influence of different linear alkanoate anions, Conference on Molten Salts and Ionic Liquids, Newport, Wales, 2012.

A. B. Pereiro, J. M. M. Araújo, F. Alves, M. M. Piñeiro, I. M. Marrucho, L. P. N. Rebelo, Fluorinated ionic liquids for the development of new oxygen therapeutics, Poster at EUCHEM Conference on Molten Salts and Ionic Liquids, Newport, Wales, 2012.

F. S. Oliveira, A. B. Pereiro, J. M. M. Araújo, J. N. C. Lopes, Gabriel Feio, I. M. Marrucho, and L. P. N. Rebelo, Developing even higher ionicity ionic liquids (HILS). Simple: just add salt, 3rd ITQB PhD Students' Meeting, Oeiras, Portugal, 2012.

J. M. M. Araújo, A. B. Pereiro, C. Florindo, L. P. N. Rebelo, I. M. Marrucho, Different Approaches to Biologically Active Ionic Liquids Composed Purely of Biomaterials, Oral at ICCE-ANQUE-2012, Sevilla, Spain, 2012.

J. M. M. Araújo, A. B. Pereiro, F. Alves, L. P. N. Rebelo and I. M. Marrucho, Evaluation of the Formation and Extraction Capability of Cholinium-based Aqueous Biphasic Systems: Influence of Different Linear Alkanoate Anions, Poster at ICCE-ANQUE-2012, Sevilla, Spain, 2012.

A. B. Pereiro, L. C. Tomé, L. P. N. Rebelo and I. M. Marrucho, Gas Separation using Supported Fluorinated Ionic Liquid, Poster at ICCE-ANQUE-2012, Sevilla, Spain, 2012.

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N. Pedrosa, J. Gao, I.M. Marrucho, J.A.P. Coutinho, A comparison of activity coefficient models for correlation of solvent activities in polymer solutions, 20th European Symposium on Applied Thermodynamics, Lahnstein, Alemanha, Outubro, 2003.

J.A.P. Coutinho, N.S. Oliveira, A. Barros, J.L. Daridon, I.M. Marrucho, Gas solubility in natural and biodegradable polymers for food packaging, Thermodynamics Polish-French Days, Novembro, 2003.

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A. Dias, H. Leite, M. Costa Gomes; J.A.P. Coutinho, I.M. Marrucho, Solubility of Oxygen in Perfluorocarbons, XVIII Encontro Nacional da Sociedade Portuguesa de Química, Aveiro, Portugal, April, 2002.

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A.Dias, J.A.P.Coutinho, M.F. Costa Gomes, I.M. Marrucho, Thermodynamic properties of liquid fluorocarbons, AIChE National Meeting, New Orleans, March 2002

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A.J. Queimada, I.M. Marrucho, J.A.P. Coutinho, G.M. Kontogeorgis, E.H. Stenby, Viscosity and Liquid Density of Asymmetric Hydrocarbon Mixtures, 16th European Conference on Thermophysical Properties, London, UK, Setembro, 2002.

A.J. Queimada, G.M. Kontogeorgis, E.H. Stenby, I.M. Marrucho, J.A.P. Coutinho, A New Corresponding States Model for the Estimation of Thermophysical Properties of Long Chain n-alkanes, 16th European Conference on Thermophysical Properties, London, UK, Setembro, 2002.

A.M.A. Dias, M.F. Costa Gomes, J.A.P. Coutinho and I.M. Marrucho, Solubility of gases in liquid perfluorocarbons, ESAT 19th, Santorini, Greece, Setembro, 2002.

R. Dohrn, K. Lorenz, F. Santos and I.M. Marrucho, Thermal conductivity of binary gas mixtures containing nitrogen, cyclopentane, HFC134a, and HFC365mfc, ESAT 19th, Santorini, Greece, Setembro, 2002.

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A.J. Queimada, I.M. Marrucho, J.A.P. Coutinho, S.E. Quinones-Cisneros, E. H. Stenby, Viscosity and Liquid Density Measurements of Some n-Alkane Binary Mixtures, 19th European Seminar on Applied Thermodynamics, Santorini, Grécia, Setembro, 2002.

A.M.A. Dias, M.F. Costa Gomes, J.A.P. Coutinho, I.M. Marrucho, Solubility of Gases in Liquid Perfluorocarbons, 19th European Seminar on Applied Thermodynamics, Santorini, Grécia, Setembro, 2002.

S. Sarraute, J. Deschamps, I.M. Marrucho, A.A.H. Pádua, M.F. Costa Gomes, Solubility of Oxygen in Liquid perfluorocarbons. Experiments and Simulation, 13th European Symposium on Fluorine Chemistry, Bordeaux, France, Julho 2001.

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A.J. Queimada, J.A.P. Coutinho, I.M. Marrucho, G.M. Kontogeorgis, E.H. Stenby, Prediction of the surface tension of hydrocarbons and their mixtures, CHEMPOR 2001, Aveiro, Portugal, Setembro, 2001.

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N. Oliveira, A. Ferreira, I.M. Marrucho, Permeabilidade de Gases em Membranas Poliméricas, CHEMPOR 2001, Aveiro, Portugal, Setembro, 2001.

A.J. Queimada, I. M. Marrucho and J.A.P., Coutinho, Surface Tension of Diesels and Other Heavy Fluids: A Corresponding States Approach, 18th European Seminar on Applied Thermodynamics, Kutna Hora, Czech Republic, Junho, 2000

R. Dohrn, T. Heinemann, I.M.Marrucho and N. Oliveira, Vapour-Phase Thermal Conductivity of Cyclopentane, CO₂, HFC134A, HFC365mfc and Some Binary Mixtures, 18th European Seminar on Applied Thermodynamics, Kutna Hora, Czech Republic, Junho, 2000

N. Galamba, C.A. Nieto de Castro, I.M. Marrucho, J.F. Ely, A Corresponding States Approach for the Prediction of Surface Tension of Molten Salts, 14th Symposium on Thermophysical Properties, Boulder, CO, USA, Junho, 2000.

A.J. Queimada, I.M. Marrucho and J.A.P. Coutinho, Surface Tension of Pure Heavy n-Alkanes: a Corresponding States Approach, 14th Symposium on Thermophysical Properties, Boulder, CO, USA, Junho, 2000.

N. Oliveira, R. Dohrn, I.M. Marrucho, Condutividade Térmica de Gases Utilizados na Produção de Espumas, XIV Encontro Luso Galego de Química, Braga, Portugal, P4.10, Novembro, 2000.

A.J. Queimada, I.M. Marrucho, J.A.P. Coutinho, Previsão da Tensões Superficiais de n-alcanos usando o Princípio dos Estados Correspondentes, XIV Encontro Luso Galego de Química, Braga, Portugal, P4.59, Novembro, 2000.

R.P. Pai-Panandiker, C. Nieto de Castro, I.M. Marrucho and J.F. Ely, An Extended Corresponding States Theory Incorporating a New Lee Kesler Reference Fluid, Thermodynamics 99, 16th Thermodynamics Conference on Thermodynamics and Statistical Mechanics with Industrial Application, London, U.K., Abril 1999.

R.P. Pai-Panandiker, C. Nieto de Castro, I.M. Marrucho and J.F. Ely, Development of a New Lee Kesler Reference Fluid- ECST with Shape Factors, 17th European Seminar on Applied Thermodynamics, Vilamoura, Portugal, Maio, 1999.

N. Galamba, C.A. Nieto de Castro, I.M. Marrucho, J.F. Ely, A Corresponding States Approach for the Calculation of the Transport Properties of Uni-Valent Molten Salts, 15th European Conference on Thermophysical Properties, Wurzburg, Germany, Setembro, 1999.

R.P. Pai-Panandiker, C. Nieto de Castro, I.M. Marrucho and J.F. Ely, An Extended Corresponding States Model Incorporating a New Lee-Kesler Reference Fluid: Theory and Application to Halogenated Hydrocarbons, 1st International Workshop on Thermochemical, Thermodynamic and Transport Properties of Halogenated Hydrocarbons and Mixtures, Pisa, Italy, Dezembro, 1999.

J.F. Ely and I.M. Marrucho, An Improved Extended Corresponding States: Theory and Application, 15th International Conference on Chemical Thermodynamics, Porto, Portugal, Julho de 1998.

I.M. Marrucho and J.F. Ely, An Extended Corresponding States Model for Polar Fluids and Their Mixtures, 13th Symposium on Thermophysical Properties, Boulder, Co, USA, Junho 1997.

I.M.J. Marrucho, A.M.F. Palavra and J.F. Ely, An Improved Extended Corresponding States Theory for

Natural Gases Mixtures, 12th IUPAC Conference on Thermophysical Properties, Boulder, Co, USA, Junho 1994.

I.M.J. Marrucho, J.A.Coelho and A.M.F. Palavra, Studies of the Solubility of Naphthalene in Supercritical CO₂ Using Different Mixing Rules, International Conference on Carbon Dioxide Utilization, Bari, Itália, Setembro de 1993.

I.M.J. Marrucho, A.M.F. Palavra and J.F. Ely, An Improved Extended Corresponding States for Complex Fluid Mixture Phase Equilibrium, Annual Meeting of the American Institute of Chemical Engineers, 165-I, St. Louis, Missouri, USA, Novembro de 1993.

I.M.J. Marrucho, M.F.B. Mourato and A.M.F. Palavra, Previsão da Solubilidade do Naftaleno em CO₂ Supercrítico, QF-P, 13^o Encontro da Sociedade Portuguesa de Química, Lisboa, Portugal, Fevereiro de 1992.

I.M.J. Marrucho, M.G.Gil and A.M.F. Palavra, Solubility of Naphtalene in Supercritical Fluids, P5-3, V International Conference on Thermodynamics of Solutions of Nonelectrolytes, Porto, Portugal, Junho 1992.

M.F.B. Mourato, I.M.J. Marrucho, J.C.G. Calado, G.C. Straty and A.M.F. Palavra, PVT Measurements of Binary Gaseous Mixtures at High Temperatures, 11th IUPAC Conference on Chemical Thermodynamics, Snowbird, Utah, USA, Agosto de 1992.

J.C. Calado, I.D.J. Marrucho, M.F.B. Mourato, J.L.C. Mata, G.C. Straty and A.M.F. Palavra, Automatização de um Aparelho de Medidas pVT a Altas Temperaturas, QF-P55, 12^o Encontro da Sociedade Portuguesa de Química, Coimbra, Portugal, Março de 1991.

10. Public Engagement in Science

10.1. Positions in Scientific Societies

Member of the Direction Board of the Sociedade Portuguesa de Química, desde Dezembro 2006 até Dezembro de 2009.

10.2. Invited Talks In Departmental Seminars

1. Applications on Ionic Liquids: from pharma to CO₂ capture, Universidade Rio Grande do Sul, Porto Alegre, Brazil, July, 2013
2. New Strategies in CO₂ Separation: Poly(ionic Liquids) Membranes, DQ-FCT, UNL, Lisboa, Outubro 2012.
3. Ionic Liquids: New Solutions to Old Problems, Centro de Biotecnologia do Alentejo, Beja, July 2012.
4. New Frontiers in Ionic Liquids Research, Institute for Polymer Materials, San Sebastian, Spain, May 2012.
5. Ionic Liquids: New Solutions to Old Problems, Universidade Federal do Rio de Janeiro, Brasil, Março 2012.
6. Solvation in Ionic Liquids: from DNA bases to enzymes, 39^o ciclo de conferências no DQ-FCT, UNL, Lisboa, Maio 2011.
7. Sangue Branco: Formulações com Perfluorocarbonetos, Semana da Tecnologia no ESTIG/IPB: Biomaterials and Tissues Session, Bragança, Portugal, Maio, 2007.
8. Phase Equilibria of Aqueous Perfluorocarbons Mixtures, Universidade Federal do Rio de Janeiro, Brasil, Agosto, 2006.

9. Modelling Gas Solubility in Perfluorocarbons, Universidad Autonoma de Barcelona, Dezembro, 2006.
10. Perfluorocarbonetos: o sangue do futuro?, 3º Ciclo de Conferências em Bioquímica, Universidade de Aveiro, Outubro 2003.
11. Biomateriais e Polímeros Biodegradáveis, 2º Ciclo de Conferências em Bioquímica, Universidade de Aveiro, Dezembro 2002.
12. Perfluorocarbons Thermophysics, Université Blaise Pascal, Clairemont-Ferrand, France, 2000.
13. Corresponding States Theory: New Developments, Faculdade de Ciências de Lisboa, Portugal, 1998.

10.3. Referee of Scientific Articles

Referee of scientific articles in the areas of Chemistry and Chemical Engineering in the following Journal

Green Chemistry, Chemical Physics Physical Chemistry, Industrial and Engineering Chemistry Research, Chemical Engineering Science, Journal of Chemical and Engineering Data, Journal of Physical Chemistry B, Fluid Phase Equilibria, Termochimica Acta, Journal of Chemical and Engineering Data, International Journal of Thermophysics, Canadian Journal of Chemical Engineering, Chemical Engineering Communications, Macromolecules, Journal of Colloids and Interface Sciences, Journal of Applied Polymer Science, Brazilian Journal of Chemical Engineering, Journal of Chemical Thermodynamics, Journal of Supercritical Fluids, Fuel.

Critical Recensions in Process and Chemical Engineering of Dechema (CEABA-VtB Series), 2001-2005.

10.4. Referee in Projects

Marie Curie People Actions 2007

10.5. Media

18 Maio 2013 – TEDx speaker- Inovação em Portugal: Das ideias às coisas.

29 Março 2012 – Diário de Aveiro – Substitutos do sangue mais eficientes baseados em perfluorocarbonetos líquidos.

(path.web.ua.pt/press.asp)

13 Maio 2006 – RTP2, Eureka – Para que servem os PLA's

8 Abril 2006 – RTP2, Eureka - Os Substitutos do Sangue

23 Dezembro 2002 – Entrevista ao Diário de Notícias – Aveiro Investiga alternativa para o sangue

4 Dezembro 2002 – Entrevista á Lusomundo, Correio da Manhã – À procura de Sangue Artificial

25 Julho 2002 – Entrevista ao Diário de Notícias - Tecnologia: Aveiro estuda alternativa biodegradável ao plástico.

17 Julho 2002 – Entrevista á revista Focus – Plástico feito com milho

10.6. Extension Activities

Março 2012, Profissão: Investigadora, Semana da Ciência do Colégio do Sagrado Coração de Maria, Lisboa

Outubro 2011, Chemistry, Our Life, Our Future, Colégio do Sagrado Coração de Maria, Lisboa.

Janeiro 2011, Balões cheios, Colégio do Sagrado Coração de Maria, Lisboa.

Junho 2005, Porque flutuam os barcos?, Escola da Glória, Aveiro.

Outubro 2003, 'Sangue: Escassez e Respostas da Ciência', Debate with the Director of the Blood Bank from the Hospital Infante D. Pedro, promoted by the Associação de estudantes da Universidade de Aveiro.

Maiço 2003, Química de todos os dias, Colégio do Sagrado Coração de Maria, Lisboa.

Junho 2003, Substitutos Artificiais do Sangue, Escola C+S José Estevão, Aveiro.

Junho 2002, Pasta dos Dentes, como se faz?, Colégio Português, Aveiro.

11. Recognition

11.1. Examiner in PhD or Master's Thesis

Catarina de Carvalho Carneiro – Incorporação de Nanocompósitos Orgânico/Inorgânico em Revestimentos de Elevada Resistência Mecânica e Ambiental. PhD in Chemical Engineering, Faculdade de Engenharia da Universidade do Porto, November, 2013.

Vera Lúcia de Sousa Freitas, Energética Moléculas de Substituição de Oxigénio por Enxofre em Compostos Heteropolicíclicos, PhD in Chemistry, Faculdade de Ciências da Universidade do Porto, November, 2011.

João Miguel Araújo – Optimal Design and Operation of Compact Simulated Moving Bed Processes for Enantioseparations, PhD in Chemical Engineering, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, December 2009.

Marisa Alexandra Alves Rocha – Estudo Energético e Estrutural de Difenilpiridinas, Master in Chemistry, Faculdade de Ciências da Universidade do Porto, December 2008.

Pedro Jorge Marques Carvalho – Medição de Propriedades Termofísicas de Perfluorocarbonetos e Líquidos Iónicos, Master in Chemical Engineering, Universidade de Aveiro, February 2008.

Félix Lluís Llovell Ferret – Accurate Description of the Critical Region by Molecular-Based Equations of State with Crossover Treatment, PhD in Material Sciences, Universitat Autònoma de Barcelona, Spain, December 2006.

Nuno Rui Alves Ribeiro – Medidas Acústicas Aplicadas à Determinação de Pontos Críticos de Misturas, PhD in Chemical Engineering, Universidade Nova de Lisboa, December 2005.

Rui Pedro de Matos Ferreira Bonifácio – Interação e Estrutura de Soluções contendo Xénon, Alcanos e Cicloalcanos, PhD in Chemical Engineering, Instituto Superior Técnico, March 2004.

11.2. Prizes in Conferences

L.C. Tomé, D. Mercerreyes, C.S.R. Freire, L.P.N. Rebelo, I.M. Marrucho, Composite membranes based on pyrrolidinium ionic materials: new perspectives for gas separation, Best Poster Award in XXIX EMS Summer School on Membranes, Nancy, France, 2012.

C.M.S.S. Neves, M.G. Freire, L.M.N.B.F. Santos, I.M. Marrucho, J. Oliveira, J.A.P. Coutinho, Hydrophobic Ionic Liquids and Water Mutual Solubilities, Best Poster Award in the Advancing the Chemical and Biological Engineering Fundamentals Session, CHEMPOR, Braga, Portugal, 2008.

I.M. Marrucho, J.A.P. Coutinho, A.M. Fernandes, Imidazolium Based Ionic Liquids Aggregates Studied By Electrospray Ionization Mass Spectrometry And Energy-Variable Collision Induced Dissociation, Best Poster Award, 4th Annual Meeting of the Portuguese Proteomics Network and 1st Meeting of the Portuguese National Mass Spectrometry Network, Aveiro, Portugal, 2007.

N.S. Oliveira, J. Dorgan, A. Ferreira, I.M. Marrucho, Gas Sorption In Poly(Lactic Acid), Best Poster Award, Thermo International 2006 Conference, 353, Boulder, Co, USA, 2006.

R.L. Gardas, M.G. Freire, I.M. Marrucho, J.A.P. Coutinho, Octanol-Water Partition Coefficients Of (Imidazolium-Based) Ionic Liquids, Best Poster Award, 2nd Conference On Thermodynamics Of Chemical And Biological Systems, India, 2006.

M.G. Freire, L.M.N.B.F. Santos, I.M. Marrucho, J.A.P. Coutinho, Water Solubility in Pure Perfluorocarbons, Best Poster Award, 11th International Symposium on Solubility Phenomena, Aveiro, Portugal, 2004.