

CURRICULUM VITAE

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Research Interests: *Analytical Electrochemistry; Development of electrochemical sensors based on nanostructured modified electrodes and its application to analytes important in health, food and environment.*

Languages: Portuguese (native language), English, French

Education:

1998 – 2002 BSc in Chemistry, University of Coimbra, Coimbra, Portugal
2003 – 2007 PhD in Chemistry, specialization Thermodynamics, University of Coimbra, Coimbra, Portugal
2008 – 2014 Post-Doc in Chemistry, specialization Biochemical Technology, University of Aveiro, Aveiro, Portugal
2008 – 2014 Post-Doc in Chemistry, specialization Electroanalysis, Instituto Pedro Nunes, Coimbra, Portugal

Scientific Training

Workshop on *SEM (Scanning Electron Microscopy)*, Physics Department, University of Coimbra, Coimbra, Portugal, 14 February 2017.
Examination of PhD thesis, Chemical Engineering, specialization Biochemical Processes, University of Aveiro, Aveiro, Portugal, 28 May 2015.
Examination of MSc thesis, Chemical Engineering, specialization Biochemical Processes, Instituto Politécnico de Bragança, Bragança, Portugal, 18 July 2014.
Participation in the organizing committee of the conference *ECTP 2014 – 20th European Conference on Thermophysical Properties*, University of Porto, Porto, Portugal, September 2014.
Seminar on *Molecular Dynamics*, 5th International Congress on Ionic Liquids, Vilamoura, Portugal, 21 April 2013.
Seminar on *Ionic Liquids*, Faraday Discussion 154, Queen's University, Belfast, United Kingdom, 22-24 August 2011.
Examination of MSc thesis, Chemical Engineering, specialization Biochemical Processes, University of Aveiro, Aveiro, Portugal, 21 December 2010.

Participation in the organizing committee of the conference *1st Iberian Meeting on Ionic Liquids*, University of Aveiro, Aveiro, Portugal, February 2009.

MSc co-supervision, Chemical Engineering, specialization Biochemical Processes, University of Aveiro, Aveiro, Portugal (2009 and 2014).

Theses

BSc thesis: "*Solvation of hydroxylated derivatives of butane (Solvatação de derivados hidroxilados do butano)*"

PhD thesis: "*Structure of cyclohexamines in the gas phase and in aqueous solution (Estrutura de ciclohexilaminas em fase gasosa e em solução aquosa)*"

Grants

01.10.2003 - 01.10.2007 PhD scholarship from Fundação para a Ciência e a Tecnologia (FCT), Portugal.

01.02.2008 - 31.07.2008 BIC scholarship from FCT, Portugal.

01.10.2008 - 30.09.2014 Postdoctoral scholarship from FCT, Portugal.

01.11.2014 - 30.06.2015 Researcher scholarship from FCT, Portugal.

01.06.2016 - present Researcher scholarship from FCT, Portugal.

Publications

1 - J.L. Jesus, L.I.N. Tomé, M.T.S. Rosado, M.L.P. Leitão, J.S. Redinha
Conformational study of erythritol and threitol in the gas state by density functional theory calculations
Carbohydr. Res., 2005, 340, 283-291.

2 - A.J.L. Jesus, L.I.N. Tomé, M.E.S. Eusébio, J.S. Redinha
Enthalpy of sublimation in the study of the solid state of organic compounds. application to erythritol and threitol
J. Phys. Chem. B, 2005, 109, 18055-18060.

3 - A.J.L. Jesus, L.I.N. Tomé, M.E.S. Eusébio, J.S. Redinha
Determination of the enthalpy of solute-solvent interaction from the enthalpy of solution: aqueous solutions of erythritol and L-threitol
J. Phys. Chem. B, 2006, 110, 9280-9285.

- 4 - L.I.N. Tomé, M.T.S. Rosado, M.E.S. Eusébio, J.S. Redinha
Molecular Structure of mono- and 1,2-aminoderivatives of cyclohexane: steric strain effects as determining factors
J. Molec. Struct: THEOCHEM., 2007, 804, 65-74.
- 5 - A.J.L. Jesus, L.I.N. Tomé, M.E.S. Eusébio, M.T.S. Rosado, J.S. Redinha
Hydration of cyclohexylamines: CPCM calculation of hydration Gibbs energy of the conformers
J. Phys. Chem. A, 2007, 111, 3432-3437.
- 6 - L.I.N. Tomé, M.T.S. Rosado, S.C.C. Nunes, T.M.R. Maria, J. Canotilho, M.E.S. Eusébio
Enthalpy of sublimation/vaporization of trans-cyclohexyl-1,4-diamine and cis-cyclohexyl-1,2-diamine
J. Chem. Thermodyn., 2007, 39, 1354-1356.
- 7 - L.I.N. Tomé, A.J.L. Jesus, R.A.E. Castro, M.H.S.F. Teixeira, J. Canotilho, M.E.S. Eusébio
Solvation enthalpy and the thermodynamics of hydration of trans-cyclohexyl-1,4-diamine and cis-cyclohexyl-1,2-diamine
J. Chem. Thermodyn., 2007, 39, 1357-1362.
- 8 - L.I.N. Tomé, P.J. Carvalho, M.G. Freire, I.M. Marrucho, I.M.A. Fonseca, A.G.M. Ferreira, J.A.P. Coutinho, R.L. Gardas
Measurements and correlation of high pressure densities of imidazolium based ionic liquids
J. Chem. Eng. Data, 2008, 53, 1914-1921.
- 9 - L.I.N. Tomé, F.R. Varanda, M.G. Freire, I.M. Marrucho, J.A.P. Coutinho
Towards an understanding of the mutual solubilities of water and hydrophobic ionic liquids in the presence of salts: The anion effect
J. Phys. Chem. B, 2009, 113, 2815-2825.
- 10 - L.I.N. Tomé, M. Domínguez-Pérez, A.F.M. Cláudio, M.G. Freire, I.M. Marrucho, O. Cabeza, J.A.P. Coutinho
On the interactions between aminoacids and ionic liquids in aqueous media
J. Phys. Chem. B, 2009, 113, 13971-13979.
- 11 - M. Domínguez-Pérez, L.I.N. Tomé, M.G. Freire, I.M. Marrucho, O. Cabeza, J.A.P. Coutinho
(Extraction of biomolecules using) aqueous biphasic systems formed by ionic liquids and aminoacids
Sep. Pur. Technol., 2010, 72, 85-91.
- 12 - L.I.N. Tomé, V.R. Catambas, R.R. Teles, M.G. Freire, I.M. Marrucho, J.A.P. Coutinho
Tryptophan extraction using hydrophobic ionic liquids
Sep. Pur. Technol., 2010, 72, 167-173.
- 13 - L.I.N. Tomé, M. Jorge, J.R.B. Gomes, J.A.P. Coutinho
Toward an understanding of the aqueous solubility of amino acids in the presence of salts: a molecular dynamics simulation study
J. Phys. Chem. B, 2010, 114, 16450-16459.

- 14 - L.I.N. Tomé, R.L. Gardas, P.J. Carvalho, M.J. Pastoriza-Gallego, M.M. Pineiro, J.A.P. Coutinho
Measurements and correlation of high-pressure densities of phosphonium based ionic liquids
J. Chem. Eng. Data, 2011, 56, 2205-2217.
- 15 - L.I.N. Tomé, M. Jorge, J.R.B. Gomes, J.A.P. Coutinho
Molecular dynamics simulation studies of the interactions between ionic liquids and amino acids in aqueous solution
J. Phys. Chem. B, 2012, 116, 1831-1842.
- 16 - M.L.S. Batista, L.I.N. Tomé, C.M.S.S. Neves, E.M. Rocha, J.R.B. Gomes, J.A.P. Coutinho
The origin of the LCST on the liquid-liquid equilibrium of thiophene with ionic liquids
J. Phys. Chem. B, 2012, 116, 5985-5992.
- 17 - L.I.N. Tomé, S.P. Pinho, M. Jorge, J.R.B. Gomes, J.A.P. Coutinho
Salting-in with a salting-out agent: explaining the cation specific effects on the aqueous solubility of amino acids
J. Phys. Chem. B, 2013, 117, 6116-6128.
- 18 - L.I.N. Tomé, J.F.B. Pereira, J.R.B. Gomes, M.G. Freire, J.A.P. Coutinho
“Washing-out” ionic liquids from polyethylene glycol to form aqueous biphasic systems
Phys. Chem. Chem. Phys., 2014, 16, 2271-2274.
- 19 - L.I.N. Tomé, M.G. Freire, J.R.B. Gomes, J.A.P. Coutinho
Evidence for the Interactions occurring between ionic liquids and tetraethylene glycol in binary mixtures and aqueous biphasic systems
J. Phys. Chem. B, 2014, 118, 4615-4629.
- 20 - M.L.S. Batista, L.I.N. Tomé, C.M.S.S. Neves, J.R.B. Gomes, J.A.P. Coutinho
Characterization of systems of thiophene and benzene with ionic liquids
J. Molec. Liquids, 2014, 192, 26-31.
- 21 - L.I.N. Tomé, C.S.R. Sousa, J.R.B. Gomes, O. Ferreira, J.A.P. Coutinho, S.P. Pinho
Understanding the cation specific effects on the aqueous solubility of amino acids: from mono to polyvalent cations
RSC Adv., 2015, 5, 15024-15034.
- 22 - L.I.N. Tomé, N.V. Marques, V.C. Diculescu, A.M. Oliveira-Brett
In situ dsDNA-bevacizumab anticancer monoclonal antibody interaction electrochemical evaluation
Anal. Chim. Acta, 2015, 898, 28-33.
- 23 - F.Z. Issaad, L.I.N. Tomé, N.V. Marques, C. Mouats, V.C. Diculescu, A.M. Oliveira-Brett
Bevacizumab anticancer monoclonal antibody: native and denatured redox behavior
Electrochim. Acta, 2016, 206, 246-253.