

CURRICULUM VITÆ

(Dezember 2017)

Luís Belchior Santos
(Luís M.N.B.F. Santos)



Full name: Luís Manuel das Neves Belchior Faia dos Santos

Acronyms: Luís M. N. B. F. Santos; Luís Belchior Santos;

Birth date / Nationality: 08 August 1965 / Portuguese

Address: CIQUP, Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade do Porto, R. Campo Alegre 687, 4169-007 Porto

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Present Positions

- A – **Associated Professor**, Departamento de Química e Bioquímica, Faculdade de Ciências da Universidade do Porto, Portugal
- B – **Coordinator of the NSO “Nanostructuring and Self-organization” R&D Group** at CIQUP, Faculdade de Ciências da Universidade do Porto, Portugal
- C – **Director of the Degree of Chemistry**, Faculdade de Ciências da Universidade do Porto, Portugal
- D – **Member of the “Conselho de Representantes da FCUP”** - Faculdade de Ciências da Universidade do Porto, Portugal
- E – **Presidente of the IOC (Chairman)** of the European Conference on Thermophysical Properties (ECTP2014)

Education

- 1996 *Ph.D. in Chemistry* Faculdade de Ciências da Universidade do Porto, Portugal
- 1987 *Degree in Chemistry* Faculdade de Ciências da Universidade do Porto, Portugal

Prizes and awards received

- 2013- **James J. Christensen Memorial Award**, USA.
The award is presented to a scientist who has made outstanding innovative contributions to the development and use of calorimetric instrumentation.
 - 2008- 3th **TOP 20 list** Most Cited in 2007: in the **JACS, ACS American Chemical Society**.
 - 2006- TOP 25 Hottest Articles In the FPE (Fluid Phase Equilibria)
 - 1986- **Mendonça Monteiro Award**
Faculty of Science (Univ. Porto) (Best student in Physical Chemistry)
 - 1985- **Fernando Serrão Awards**
Faculty of Science (Univ. Porto) (Best student in Organic Chemistry)
 - 1983/7 **Merit Scholarship** (Univ. Porto)
Fundação Calouste Gulbenkian
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Activities

Since 2009 - present	Associate Professor (Tenure)	Faculdade de Ciências da Universidade do Porto
Since 2009 - present	Member of the General Council	Universidade do Porto
Since 2012 - present	Director of Chemistry: Undergraduate Course	Faculdade de Ciências da Universidade do Porto

Area of scientific activity

Ph D. Thesis under the supervision of the Prof. M.A.V. Ribeiro da Silva

Title: “*Synthesis and Thermochemistry of β -diketones, Monothio- β -diketones and their metal complexes with Ni(II), Cu(II), Zn(II), Cd(II) and Pb(II)*”.

Main **topics** of R&D:

- Development and test of high precision calorimeters (Mini Rotating Combustion Bomb; Calvet Microcalorimetry; Multi-cell Knudsen Effusion system; Vapour pressure measurements with a static apparatus;
- Development experimental methodologies in the field of thermodynamics
- Thermophysics of perfluorocarbons and perfluorocarbons derivatives;
- Properties of Biofuels; Biomass.
- Thermophysics and Thermochemistry of Ionic Liquids;
- Structure and Energetics of oligomer of conducting polymers.
- Structural, thermodynamic and functional study of organic semi-conductors;
- Structural and energetic study PI-PI interaction on adjacent aromatic rings;
- Study of thermodynamic properties of fluorinated and perfluorinated compounds;
- Temperature and pressure metrology;
- Simulation and modeling of thermal systems and transfer of heat by finite element analysis;
- Synthesis and structural characterization and energetic of organic compounds and polycyclic aromatic heterocyclic;
- Study by computational chemistry, particularly in the quantitative evaluation of aromaticity and the correlation energetic contribution of aromatic and polyaromatic compounds;
- Liquid-liquid and liquid-vapour equilibrium study of : water - fluorinated and perfluorinated compounds, water - ionic liquids, organic compounds - ionic liquids;
- COSMO solvation calculations and evaluation of COSMOtherm program results on the prediction of equilibrium thermodynamic properties of liquid-liquid and liquid-vapor;
- Measurement of viscosities, densities and refractive indices of ionic liquids and their dependence with temperature.
- Thermal behavior of materials;
- Solvation thermodynamics;
- Thin films deposition and characterization;

Present Research Interest

Domain of specialization

- Thermochemistry;
- Thermophysics;
- Thermophysical properties of : materials; fuels; solvents
- High Precision Solution-Reaction Calorimetry;
- Combustion Calorimetry;
- Calvet Microcalorimetry;
- Calorimetry
- DSC and DTA systems
- Vapor pressure measurements of liquids and solids
- Heat capacity of liquids and solids;
- Electric conductivity, Viscosity, density and Refraction index of Ionic Liquids

Other professional interests/activities

- Temperature calibration and measurements;
- Temperature control;
- Design of high vacuum systems;
- Data acquisition instrumentation;
- Software developer for data control and acquisition.

Present Students/Collaborators:

Ana I. M. C. L. Ferreira

Pos Doc Researcher, Project: Trend Shifts in Ionic Liquid Properties

Carlos F. R. A. C. Lima

Pos Doc Researcher, Project: Estudo sistemático e quantificação da cinética de processos de transição de fase, nomeadamente sublimação, evaporação e condensação para uma série de compostos orgânicos inter-relacionados

José C. C. Costa

Pos Doc Researcher, Project: Thin films deposition of semiconductors

Vojtech Stejfa

Pos Doc Researcher, Project: Thin films deposition of semiconductors

Filipe M. S. Ribeiro

PhD Student, Project: Protic Ionic Liquids for Biomass Processing

Inês C. M. Vaz

PhD Student, Project: "Ionic Liquids for the Sustainable Solvent Design and Functional Materials Application"

Nuno F. M. Branco

PhD Student, Project: "Study of oxidative stability and study of the behaviour at low temperatures of blends of biodiesel with diesel"

Óscar de Oliveira pinto Fernandes

Researcher: "Study of physical-chemical properties of advanced functional materials"

Former Students/Collaborators:

Vera Lúcia Marques da Silva

Pos Doc Researcher, Project: "Development of Ohmic heating applied to the organic synthesis "

Ana Francisca Coelho

MSc Student, Project: "Interfacial Nanostructuring of ionic Liquids"

Ana S. M. C. Rodrigues

PhD Student, Project: Isomerization effects on the thermophysical properties of materials

José C. C. Costa

PhD Student, Project: Energetic and structural study of organic semiconductors

Inês C. M. Vaz

MSc. Student, Project: Estudo de Solvatação de Álcoois em Líquidos Iónicos

Ricardo J. S. Taveira.

MSc. Student, Project: Líquidos iónicos em Materiais Semicondutores Orgânicos

Arijit Bhattacharjee

Pos Doc Researcher, Project: Solvation Study of Alcohols in Ionic Liquids

Luís M. S. S. Lima

PhD Student, Project: Energetic study of polyaromatic compounds.

Marisa A. A. Rocha

PhD Student, Project: Thermophysical properties of Ionic Liquids

Carlos F. R. A. C. Lima

PhD Student, Project: Energetic and structural study of molecular systems with intermolecular PI stacking.

Paulo Serra

MSc. Student, Project: Thermal behaviour and heat capacity of ionic liquids: benzylimidazolium and alkylimidazolium derivatives

Filipe M. S. Ribeiro

MSc. Student, Project: Thermodynamic Properties of Mono-Halogenated Naphthalenes

Carla M. C. F. Ribeiro

MSc. Student, Project: Síntese e Caracterização de poliácenos pela metodologia de Suzuki-Miyaura

Ana S. M. C. Rodrigues

MSc. Student, Project: Energetic and structural study of non linear polyphenyls

Sandra Pinto

MSc. Student, Project: Optimização do processo de Pré-expansão e Maturação Térmica do poliestireno expandido

José C. C. Costa

MSc. Student, Project: Energetic and structural study of organic semiconductors

Jorge C. Ribeiro

MSc. Student, Project: Desenho, construção e teste de um sistema para determinação do ponto de fusão de parafinas, de acordo com ASTM D87

Marisa A. A. Rocha

MSc. Student, Project: Energetic and structural study of conducting polymers

Luís M. S. S. Lima

PhD Student, Project: Energetic study of polyaromatic compounds.

Óscar P. Fernandes

MSc. Student, Project: Energetic and study of thiophens derivatives

Carlos A. D. Sousa

MSc Student, Project: Vapour pressures of aromatic compounds

Test of a new static apparatus to measure vapour pressures of solids and liquids

José M. S. Fonseca

MSc Student, Project: "Vapour pressures of benzoic acid alkyl esters. Project Construction and test of a new static apparatus to measure vapour pressures of solids and liquids"

Manuel P. T. Silva

Young Research student, Project: Development of software for data acquisition and control

Member (and arguer) of the Jury in PhD. Thesis

“Studies for the Development of new separation processes with terpenes and their environmental distribution”

Mónia Andreia Rodrigues Martins
Dissertação para Doutoramento em Engenharia Química, Universidade de Aveiro
Orientador: João A P. Coutinho, Simão Pedro de Almeida Pinho.
Universidade de Aveiro (2017).

“Estudos sobre a aplicação do aquecimento óhmico à síntese orgânica ”

Joana Filipa Gonçalves Pinto
Dissertação para Doutoramento em Química, Departamento de Química
Orientador: Artur Silva; Vera Silva.
Universidade de Aveiro (2016).

“Thermodynamics and optical properties of naphthalene, fluorene and fluorenone derivatives ”

Juliana Andreia Silva Alves oliveira
Dissertação para Doutoramento em Química, Departamento de Química e Bioquímica
Orientador: Manuel João dos Santos Montes, Maria das Dores Melo da Cruz Ribeiro da Silva;
Universidade de Porto (2016).

“Studies of Polymorphs and Solvates of Molecular Organic Solids”

Abhinav Joseph
Dissertação para Doutoramento em Química, Departamento de Química e Bioquímica
Orientador: Manuel E. R. Minas da Piedade
Universidade de Lisboa (2016).

“Estudo da Energética de Compostos derivados de 1,3-azoles ”

Ana Luísa Ribeiro da Silva
Dissertação para Doutoramento em Química, Departamento de Química e Bioquímica
Orientador: Maria das Dores Melo da Cruz Ribeiro da Silva;
Universidade de Porto (2015).

“Calorimetric and mass spectroscopy study of ionic liquids ”

Joana Marta da Cruz Vitorino
Dissertação para Doutoramento Química, Departamento de Química
Orientador: Manuel E. R. Minas da Piedade;
Universidade de Lisboa (2014).

“Treatment of aqueous effluents contaminated with ionic liquids”

Catarina Maia Seco Seíça Neves
Dissertação para Doutoramento Química, Departamento de Química
Orientador: João A P. Coutinho
Universidade de Aveiro (2014).

“Thermodynamic and Structural Studies of 4-hydroxybenzaldehyde and Simvastatin ”

Ricardo Alexandre Gravata Simões
Dissertação para Doutoramento Química, Departamento de Química e Bioquímica
Orientador: Manuel E. R. Minas da Piedade; Marisa da Soledade C. C. da Silva Santos
Universidade de Lisboa (2013).

“Production of Biodiesel from the Resources Endogeneous of Timor Leste ”

Samuel Venâncio de Sousa Freitas
Dissertação para Doutoramento, Departamento de Química
Orientador: João A P. Coutinho
Universidade de Aveiro (2013).

“Influência da Estrutura dos Iões de Líquidos Iónicos na Dupla Camada Eléctrica das Interfaces Eléctrodo/Líquido Iónico”

Renata Barros da Costa
Dissertação para Doutoramento, Departamento de Química e Bioquímica
Orientador: António F. Sousa Silva e Carlos M. M. Pereira
Universidade de Porto (2012).

“Biodiesel Fuel Formulation ”

Maria Jorge Pratas de Melo Pinto
Dissertação para Doutoramento, Departamento de Química
Orientador: João A P. Coutinho; Sílvia M C S Monteiro
Universidade de Aveiro (2012).

“Diseño y Síntesis de Líquidos Iónicos para Aplicaciones Específicas”

Pedro Verdía Barará
Dissertação para Doutoramento, Departamento de Química Orgánica
Orientador: Emilia Tojo Suárez
Universidade de Vigo (2012).

“Treatment of Natural Gas Streams with Ionic Liquids”

Pedro Jorge Marques Carvalho
Dissertação para Doutoramento, Departamento de Química
Orientador: João A P. Coutinho
Universidade de Aveiro (2011).

“Thermodynamic Studies of Nicotinic Acid”

Elsa Marisa Duarte Rodrigues Gonçalves
Dissertação para Doutoramento, Departamento de Química e Bioquímica
Orientador: Manuel Eduardo Minas da Piedade
Universidade de Lisboa (2011).

“Phase Behavior of Alternative Solvents”

Marijana Blešić
Dissertação para Doutoramento, Instituto de Tecnologia Química e Biológica, ITQB
Orientador: Luís P.N. Rebelo e António M. G. Lopes
Universidade Nova de Lisboa (2008).

“Estudos Termoquímicos e de Mobilidade Molecular em Hidratos de Carbono e Moléculas com interesse Farmacêutico”

Susana Silva Pinto
Dissertação para Doutoramento, Departamento de Engenharia Química, IST
Orientador: Hermínio Albino Pires Diogo
Universidade Técnica de Lisboa (2008).

“Cristalização e Polimorfismo na 4'-hidroxiacetofenona e Estudo da Energética de Compostos do Tipo Hidroxifenilcarbonilo”

Carlos Eduardo Sabino Bernardes
Dissertação para Doutoramento, Departamento de Química e Bioquímica
Orientador: Manuel Eduardo Minas da Piedade
Universidade de Lisboa (2008).

“Arejamento e Extração em Reactores Biológicos Multifásicos”

Mara Guadalupe Freire Martins
Dissertação para Doutoramento
Orientador: João Manuel da Costa e Araújo Pereira Coutinho
Departamento de Química da Universidade de Aveiro (2007).

Scientific Publications

Other IDs:

SCOPUS, Author ID: 7202567010

ORCID: <http://orcid.org/0000-0003-3040-0358>

H index (Scopus) = 33 (12/2017)

Number of Citation = 4639 (12/2017)

Number of Citation without self-citations = 4062 (Março/2016)

Luís M.N.B.F. Santos is author and co-author:

- I. **172 Papers** in scientific periodicals with referees;
- II: **1 Book Chapter** in " Molten Salts and Ionic Liquids: Never the Twain? ", Gaune-Escard, Marcelle; Seddon, Kenneth Ed. Chap. 8; Wiley-VCH Verlag; 2010.
- III. **2 Patents.**
- IV. **5 Software Applications.**
- V. More than **250 Posters** and Oral Communications presented in national and international conferences.

Selected publications:

Hole Transport Materials Based Thin Films: Topographic Structures and Phase Transition Thermodynamics of Triphenylamine Derivatives

Costa, J. C. S.; **Luís M.N.B.F. Santos** ,
Journal of Physical Chemistry C **2013**, 117, (21), 10919–10928.
<http://dx.doi.org/10.1021/jp4002274>

Ohmic heating as a new efficient process for organic synthesis in water

Pinto, J.; Silva, V. L. M.; Silva, A. M. G.; Silva, A. M. S.; Costa, J. C. S.; **Luís M.N.B.F. Santos** ;
Enes, R.; Cavaleiro, J. A. S.; Vicente, A. A. M. O. S.; Teixeira, J. A. C.,
Green Chemistry **2013**, 15, (4), 970-975.
<http://dx.doi.org/10.1039/C3GC36881E>

Elucidating the Role of Aromatic Interactions in Rotational Barriers Involving Aromatic Systems

Lima, C. F. R. A. C.; Gomes, L. R.; Low, J. N.; Silva, A. M. S.; **Luís M.N.B.F. Santos** ,
The Journal of Organic Chemistry **2012**, 77, (22), 10422-10426.
<http://dx.doi.org/10.1021/jo301629y>

Experimental Support for the Role of Dispersion Forces in Aromatic Interactions

Lima, C. F. R. A. C.; Rocha, M. A. A.; Gomes, L. R.; Low, J. N.; Silva, A. M. S.; **Luís M.N.B.F. Santos** ,
CHEMISTRY - A European Journal **2012**, 18,(29),8934-8943
<http://dx.doi.org/10.1002/chem.201201056>

High-Accuracy Vapor Pressure Data of the Extended [CnC1im][Ntf2]

Ionic Liquid Series: Trend Changes and Structural Shifts

Rocha, M. A. A.; Lima, C. F. R. A. C.; Gomes, L. R.; Schröder, B.; Coutinho, J. A. P.; Marrucho, I. M.; Esperança, J. M. S. S.;
Rebelo, L. P. N.; Shimizu, K.; Canongia Lopes, J. N.; **Luís M.N.B.F. Santos**
Journal of Physical Chemistry B **2011**, 115, (37), 10919-10926.
<http://dx.doi.org/10.1021/jp2049316>

Evaluation of Cation-Anion Interaction Strength in Ionic Liquids

Fernandes, A. M.; Rocha, M. A. A.; Freire, M. G.; Marrucho, I. M.; Coutinho, J. A. P.; **Luís M.N.B.F. Santos**
Journal of Physical Chemistry B 2011, 115, (14), 4033-4041.
<http://dx.doi.org/10.1021/jp201084x>

New Knudsen effusion apparatus with simultaneous gravimetric and quartz crystal microbalance mass loss detection

Luís M.N.B.F. Santos ; Lima, L. M. S. S.; Lima, C. F. R. A. C.; Magalhães, F. D.; Torres, M. C.; Schröder, B.; Ribeiro da Silva, M. A. V.
Journal of Chemical Thermodynamics **2011**, 43, (6), 834-843.
<http://dx.doi.org/10.1016/j.jct.2010.12.022>

The role of aromatic interactions in the structure and energetics of benzyl ketones

Lima, C. F. R. A. C.; Sousa, C. A. D.; Rodriguez-Borges, J. E., Melo, A.; Gomes, L. R.; Low, J. N.; **Luís M.N.B.F. Santos**
Physical Chemistry Chemical Physics **2010**, 12, (37), 11228-11237.
<http://dx.doi.org/10.1039/C003941A>

Volatility of Aprotic Ionic Liquids — A Review

Esperança, J. M. S. S.; Canongia Lopes, J. N.; Tariq, M.; **Luís M.N.B.F. Santos** ; Magee, J. W.; Rebelo, L.P. N.,
Journal of Chemical and Engineering Data **2010**, 55, (1), 3-12.
<http://dx.doi.org/10.1021/je900458w>

Ionic liquids: First direct determination of their cohesive energy

Luís M.N.B.F. Santos ; Lopes, J. N. C.; Coutinho, J. A. P.; Esperança, J.; Gomes, L. R.; Marrucho, I. M.; Rebelo, L. P.N.,
Journal of the American Chemical Society **2007**, 129, (2), 284-285.
<http://dx.doi.org/10.1021/ja067427b>

The design, construction, and testing of a new Knudsen effusion apparatus

Ribeiro da Silva, M. A. V.; Monte, M. J. S.; **Luís M.N.B.F. Santos**,
Journal of Chemical Thermodynamics **2006**, 38, (6), 778-787.
<http://dx.doi.org/10.1016/j.jct.2005.08.013>

R&D projects

2016: **Qren Norte-01-0145-FEDER-000028:**

SAM “Sustained Advanced Materials”

2012: **PTDC/AAC-AMB/121161/2010:**

"Terpenes and Terpenoids: Physicochemical Property Data for Fate Predictions of Biogenic Volatile Organic Compounds in the Environment"

2010: **PTDC/CTM/103664/2008:**

"Development of Novel Organic Energetic Materials based on Ionic Liquids"

2010: **PTDC/QUI-QUI/102454/2008:**

"Development of Organic Synthesis Methodologies Based on an Ohmic Heating Reactor"

2010: **PTDC/QUI-QUI/102814/2008:**

"Thermodynamic study of Fluorene and Fluorenone Derivatives"

2008: **PTDC/QUI/72903/2006:**

"Determinação de Parâmetros Básicos para o Desenvolvimento de Modelos Fundamentais em Sistemas de Sais Líquidos"

2006: **PTDC/EQU-FTT/65252/2006:**

"Equilíbrio Líquido Vapor de Líquidos Iónicos Puros e suas Misturas com Solventes Orgânicos"

2004: **POCI/QUI/61873/2004:**

"Estudo Termodinâmico de Polímeros Condutores"

2005: **Laboratórios Remotos @ UP:**

"Remote Laboratories @ UP /Laboratórios Remotos @ UP"

2001: **POCTI/QUI/43144/2001:**

"Pressões de Vapor de Compostos Orgânicos Sólidos e Líquidos - Determinação Experimental e Desenvolvimento de Métodos de Estimativa"

1997: **PO68-P31B-09/97:**

"CMFORNOS – Desenvolvimento de um Sistema Específico para Fornos de Controlo, Monitorização, Teste e Análise Multiponto de Temperatura, Pressão/Vácuo, Gases e Fluxos de Gases"

List of Scientific Paper (International Journals with referring)

- 174 Solvation of Alcohols in Ionic Liquids – understanding the effect of the Anion and Cation
Vaz, Ines C. M.; Bastos, Margarida; Bernardes, Carlos; Canongia Lopes, José; **Luís M.N.B.F. Santos**
PHYSICAL CHEMISTRY CHEMICAL PHYSICS (2017), DOI: 10.1039/C7CP07525A. (accepted)
- 173 Chain Length Dependence of the Thermodynamic Properties of n-Alkanes and their Monosubstituted Derivatives
Costa, Jose C. S.; Mendes, Adelio; **Luís M.N.B.F. Santos**
JOURNAL OF CHEMICAL AND ENGINEERING DATA (2017), DOI: 10.1021/acs.jced.7b00837. (accepted)
- 172 Blackberry anthocyanins: β -cyclodextrin fortification for thermal and gastrointestinal stabilization
Ana fernandes, Marisa A.A. Rocha, **Luís M.N.B.F. Santos**, Joana Brás, Joana Oliveira, Nuno Mateus, Victor Freitas
FOOD CHEMISTRY (2018), Vol. 245 pp. 426-431.
- 171 Nucleation and growth of microdroplets of ionic liquids deposited by physical vapor method onto different surfaces
Costa, Jose C. S.; Coelho, Ana F. S. M. G.; Mendes, Adelio; **Luís M.N.B.F. Santos** et al.
APPLIED SURFACE SCIENCE (2018), Vol. 428 pp. 242-249.
- 170 Solvente eutéctico profundo
Luís M. N. B. F. Santos
REVISTA DE CIÊNCIA ELEMENTAR (2017), Vol.5(02) pp. 021.
- 169 Solid-Liquid equilibrium and heat capacity trend in the alkyimidazolium PF6 series
Serra, P. B.P.; Ribeiro, F. M.S.; Rocha, M. A.A.; Fulem, M.; Růžička, K.; Coutinho, J. A.P.; **Luís M. N. B. F. Santos**
JOURNAL OF MOLECULAR LIQUIDS, (2017), Vol. 248, pp. 678-687
- 168 Vaporization of protic ionic liquids derived from organic superbases and short carboxylic acids
Ribeiro, Filipe M. S.; Lima, Carlos F. R. A. C.; Vaz, Ines C. M.; **Luís M.N.B.F. Santos** et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS (2017), Vol.19(25) pp. 16693-16701.
- 167 Ohmic Heating: An Emerging Concept in Organic Synthesis
Silva, Vera L. M.; **Luís M. N. B. F. Santos.**; Silva, Artur M. S.
CHEMISTRY-A EUROPEAN JOURNAL (2017), Vol. 23(33) pp. 7853-7865.
- 166 Evaluation of the solvent structural effect upon the vapor - liquid equilibrium of [C(4)C(1)im][Cl] + alcohols
Chouireb, Naima; Khan, Imran; Crespo, Emanuel A.; **Luís M. N. B. F. Santos** et al.
FLUID PHASE EQUILIBRIA (2017), Vol.440, pp. 36-44.
- 165 Effect of Confined Hindrance in Polyphenylbenzenes
Lima, Carlos F. R. A. C.; Rodrigues, Ana S. M. C.; **Luís M. N. B. F. Santos**
JOURNAL OF PHYSICAL CHEMISTRY A (2017), Vol. 121(12), pp. 2475-2481.
- 164 Nature of the C2-methylation effect on the properties of imidazolium ionic liquids
Rodrigues, Ana S. M. C.; Lima, Carlos F. R. A. C.; Coutinho, João A. P.; **Luís M. N. B. F. Santos** et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS (2017), Vol.19 (7) pp. 5326-5332.
- 163 On the Deposition of Lead Halide Perovskite Precursors by Physical Vapor Method
Costa, José C. S.; Azevedo, João; **Luís M. N. B. F. Santos** et al.
JOURNAL OF PHYSICAL CHEMISTRY C (2017), Vol. 121(4), pp. 2080-2087, 2017.
- 162 Energetic and Structural Insights into the Molecular and Supramolecular Properties of Rubrene
Lima, Carlos F. R. A. C.; Costa, José C. S.; Lima, Luis M. Spencer S.; **Luís M. N. B. F. Santos** et al.
CHEMISTRYSELECT (2017), Vol.2 (5), pp. 1759-1769.
- 161 2-[(1E,3E)-4-Arylbuta-1,3-dien-1-yl]-4H-chromen-4-ones as Dienes in Diels-Alder Reactions - Experimental and Computational Studies
Albuquerque, Hélio M. T.; Santos, Clementina M. M.; Lima, Carlos F. R. A. C.; **Luís M. N. B. F. Santos** et al.
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY (2017), pp.87-101.
- 160 Physicochemical properties of 2-alkyl-1-ethylpyridinium based ionic liquids
Rocha, Marisa A. A.; Vilas, Miguel; Rodrigues, Ana S. M. C.; **Luís M. N. B. F. Santos** et al.
FLUID PHASE EQUILIBRIA (2016), Vol. 428, pp.112-120.
- 159 Fluorination effect on the thermodynamic properties of long-chain hydrocarbons and alcohols
Costa, Jose C. S.; Lima, Carlos F. R. A. C.; Mendes, Adélio; **Luís M. N. B. F. Santos** et al.
JOURNAL OF CHEMICAL THERMODYNAMICS (2016), Vol. 102, pp.378-385.
- 158 The effect of n vs. iso isomerization on the thermophysical properties of aromatic and non-aromatic ionic liquids
Rodrigues, Ana S. M. C.; Almeida, Hugo F. D.; Freire, Mara G.; **Luís M. N. B. F. Santos** et al.
FLUID PHASE EQUILIBRIA (2016), Vol. 423, pp. 190-202.

- 157 Phase behavior and heat capacities of the 1-benzyl-3-methylimidazolium ionic liquids
Serra, Paulo B. P.; Ribeiro, Filipe M. S.; Rocha, Marisa A. A.; **Luís M. N. B. F. Santos** et al.
JOURNAL OF CHEMICAL THERMODYNAMICS (2016), Vol.100 pp. 124-130.
- 156 Solubility and solvation of monosaccharides in ionic liquids
Teles, Ana Rita R.; Dinis, Teresa B. V.; Capela, Emanuel V.; **Luís M. N. B. F. Santos** et al.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS (2016), Vol.18(29), pp. 19722-19730.
- 155 Optical band gaps of organic semiconductor materials
Costa, Jose C. S.; Taveira, Ricardo J. S.; Lima, Carlos F. R. A. C.; **Luís M. N. B. F. Santos** et al.
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