

Electrochemistry and Environment (EE)
Synthesis and Applications of Heterocycles (HC)
Synthesis and Applications of Amino acids (AA)
Biological Chemistry (BC)

The siglas of the research groups indicate that members of that group are involved in the work.

Publication in international journals 2012 (ISI rated) **81**

1- EE1- V. Sencadas, D.M. Correia, A. Areias, G. Botelho, A.M. Fonseca, I.C. Neves, J.L. Gomez-Ribelles, S. Lanceros-Mendez Determination of the parameters affecting electrospun chitosan fiber size distribution and morphology, *Carbohydrate Polymers* **2012**, 87, 1295-1301. (IF₁₁ = 3.628)

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2- EE2- M. Ferreira, M.F. Pinto, O.S.G.P. Soares, M.F.R. Pereira, J.J.M. Órfão, J.L. Figueiredo, I.C. Neves, A.M. Fonseca, P. Parpot, Electrocatalytic oxidation of oxalic and oxamic acids in aqueous media at carbon nanotube modified electrodes, *Electrochimica Acta*, 60 (2012) 278– 286.

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3- EE3- A.C. Lopes, R. Gonçalves, C.M. Costa, A.M. Fonseca, G. Botelho, I. C. Neves, S.Lanceros-Mendez, Effect of zeolite content in the electrical, mechanical and thermal degradation response of poly(vinylidene fluoride)/NaY zeolite composites, *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 6804-6810. (IF₁₂ = 1.560).

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4- EE4- B. Silva, H. Figueiredo, O.S.G.P. Soares, M.F.R. Pereira, J.L. Figueiredo, A.E. Lewandowska, M.A. Banares, I.C. Neves, T. Tavares, Evaluation of ion exchange-modified Y and ZSM5 zeolites in Cr(VI) biosorption and catalytic oxidation of ethyl acetate, *Applied Catalysis B: Environmental*, **2012** 117– 118, 406–413. (IF₁₁ = 5.625)

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5- EE5- L. Ferreira, A.M. Fonseca, G. Botelho, C.A. Aguiar, I.C. Neves, Antimicrobial activity of faujasite zeolites doped with silver, *Microporous and Mesoporous Materials*, **2012**, 160, 126–132.

(IF₁₁ = 3.285) <http://dx.doi.org/10.1016/j.micromeso.2012.05.006>

6- EE6- B. Silva, H. Figueiredo, C. Quintelas, I.C. Neves, T. Tavares Improved biosorption for Cr(VI) reduction and removal by *Arthrobacter viscosus* using zeolite, *International Biodeterioration & Biodegradation*, 74 (2012) 116-123. (IF₁₁ = 2.074)

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7- EE7- A.C. Lopes, C. Caparros, J.L. Gómez Ribelles, I.C. Neves, S. Lanceros-Mendez, Electrical and thermal behavior of γ -phase poly(vinylidene fluoride)/NaY zeolite composites, *Microporous and Mesoporous Materials*, 161 (2012) 98–105. (IF₁₁ = 3.285)

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8- EE8- R. Amorim, N. Vilaça, O. Martinho, R. M. Reis, M. Sardo, J. Rocha, F. Baltazar, A. F. Fonseca, I.C. Neves, Zeolite structures loading with an anticancer compound as drug delivery

systems, *Journal Physical Chemistry C*. **2012**116 (48), 25642–25650. (IF₁₁ = 4.805)
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9- EE9- M. C. Silva, A. Duarte Corrêa, M.T. S. P. Amorim, P. Parpot, J. Arriel Torres, P. Maria Batista Chagas, “Decolorization of the phthalocyanine dye reactive blue 21 by turnip peroxidase and assessment of its oxidation products”, *J. Mol. Cat.- B*, **2012**, 77, 9 (IF₁₁ = 2.735).
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12- EE12-V. Sencadas, C. M. Costa, G. Botelho, C. Caparrós, C. Ribeiro, J. L. Gómez-Ribelles, S. Lanceros-Mendez “Thermal Properties of Electrospun Poly(Lactic Acid) Membranes” *Journal of Macromolecular Science Part B-Physics* **2012**, 51, 411-424 (IF₁₁ = 0.739).
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13- EE13- P. Martins, C.M. Costa, M. Benelmekki, G. Botelho, S. Lanceros Mendez ”On the origin of the electroactive poly(vinylidene fluoride) β -phase nucleation by ferrite nanoparticles via surface electrostatic interactions” *CrysEng Communications* **2012**, 14 2807-2811 (IF₁₁ = 3.842)
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14- EE14- J. C. Dias, C. Ribeiro, V. Sencadas, G. Botelho; J. L. Gómez Ribelles and S. Lanceros-Mendez “Influence of fiber diameter and crystallinity on the stability of electrospun poly(L-lactic acid) membranes to hydrolytic degradation” *Polymer Testing* **2012**, 31770-776 (IF₁₁ = 1.608).
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16- EE16- V. Sencadas, D.M. Correia, C. Ribeiro, S. Moreira, G. Botelho, J.L. Gómez-Ribelles, S. Lanceros Mendez. "Physical-chemical properties of cross-linked chitosan electrospun fiber mats", *Polymer Testing* **2012**, 31, 1062-1069 (IF₁₁ = 1.608).

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19- EE19- Sandra D. F. C. Moreira, Carlos J. R. Silva, Luis A. S. A. Prado, Manuel F. M. Costa, Victor I. Boev, J. Martín-Sánchez, M. J. M. Gomes, Development of new high transparent hybrid organic-inorganic monoliths with surface engraved diffraction pattern, *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 492-499. (IF= 1.531) <http://dx.doi.org/10.1002/polb.23028>

20- EE20- K. C. Sekhar, A. Khodorov, A. Chahboun, S. Levichev, A. Almeida, J. Agostinho Moreira, Koppole Kamakshi, C. J. R. Silva, M. Pereira, M. J. M. Gomes - Oxygen partial pressure effect on structural and electrical behavior of pulsed laser deposited Zn_{0.98}Co_{0.02}O thin films, *Materials Chemistry and Physics*, **2012**, 135(1), 174-180. (IF=2.385)

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21- EE21- C. Caparrós, M. Benelmekki, P. M. Martins, E. Xuriguerra, C. J. R. Silva, L.I.M. Martinez, S. Lanceros-Mendez, Hydrothermal assisted synthesis of iron oxide-based magnetic silica spheres and their performance in magnetophoretic water purification, *Materials Chemistry and Physics*, **2012**, 135 (2-3) 510-517. (IF=2.385) <http://dx.doi.org/10.1016/j.matchemphys2012.05.016>

22- EE22- K. De, S. Das, A. Roy, P. Dhak, M. Willinger, J. S. Amaral, V. S. Amaral, S. Giri, S. Majumder, C. J. R. Silva, M. J. M. Gomes, and P. K. Mahapatra - Enhanced ferromagnetism and

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25- EE25- Rodrigues, L.C., Silva, M.M., Smith, M.J., “Synthesis and characterisation of amorphous poly(ethylene oxide)/poly(trimethylene carbonate) polymer blend electrolytes”, Electrochimica Acta, **2012**, 86, 339-345. (IF11= 3.832) <http://dx.doi.org/10.1016/j.electacta.2012.03.021>

26- EE26- Rodrigues, L.C., Fernandes, M., Zea Bermudez, V., Silva, M.M., Smith, M.J., “Structural studies of novel di-ureasil ormolytes with lithium hexafluoroantimonate”, Solid State Ionics, **2012**, 226, 7-14. (IF11= 2.646) <http://dx.doi.org/10.1016/j.ssi.2012.07.012>

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- 35- EE35-** E. Raphael, C.O. Avellaneda, M. A. Aegerter, M.M. Silva, A. Pawlicka, “Agar-based Gel Electrolyte for Electrochromic Device Application”, *Molecular crystals & Liquid Crystals* **2012**, 554, 264-272. (IF11 = 0.580) <http://dx.doi.org/10.1080/15421406.2012.634349>
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- 36- HC5- S.A. Heleno,** L. Barros, A. Martins, M.J.R.P. Queiroz, I.C.F.R. Ferreira “Characterization of phenolic and polysaccharidic extracts of *Ganoderma lucidum* by chromatographic techniques”, poster, 7º Encontro Nacional de Cromatografia, 9-11 de Janeiro de 2012, Porto, Portugal.
- 37- HC6-** A. Ribeiro, C.C.E Sousa, M.J.Alves, A. Gil Fortes, “1,3-Dipolar Cycloaddition of (2*R*,4*aR*,8*aS*)-2-phenyl-4,4*a*-dihydropyrano[3,2-*d*][1,3]dioxin-6(8*aH*)-one with Aromatic Diazomethyl Compounds”, 3rd Portuguese Young Chemists Meeting, Poster, 9-11 maio, Porto, 2012.
- 38- HC7-** R. Mendes, V.C.M. Duarte, A. Gil Fortes, M.J. Alves, “Synthesis of 2-*N*-Benzyl Carboxamide Derivates of 1-Azafagomine”, 3rd Portuguese Young Chemists Meeting, Poster, 9-11 maio, Porto, 2012.
- 39- HC8-** A. Brito, C. Correia, M.A. Carvalho, M.F. Proença, “Synthesis of 9-methyl-6-methylamino-2-arylpurines as potential new ligands to adenosine receptors”, 3rd Portuguese Young Chemist Meeting, 9-11 May, Porto, Portugal, 2012.
- 40- HC9-** A. Rocha, M.A. Carvalho, M. F. Proença, “An efficient synthetic approach to 6-triazolopurines” 3rd Portuguese Young Chemist Meeting, 9-11 May, Porto, Portugal, 2012.
- 41- HC10-** A. Gonçalves, A. Rocha, A. Brito, M. A. Carvalho, M. F. Proença, “Synthesis of New Pyrimido[5,4-*d*]pyrimidines derivatives as Potential Antitubercular Agents”, 3rd Portuguese Young Chemist Meeting, 9-11 May, Porto, Portugal, 2012.

- 42- HC11-** M. Cruz, M.J. Sousa, C. Correia, M.F. Proença, M.A. Carvalho, “Synthesis and antimicrobial activity of 2,9-diarylpurines” 3^o Encontro Nacional de Química Terapêutica, 28-30 November, Aveiro, Portugal, 2012.
- 43- HC12-** M. Costa, F. Areias, M. Castro, J. Brea, M.I. Liza, M.F. Proença, “New chromene scaffolds for adenosine receptors: synthesis and pharmacology, oral communication” 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9- 11 May 2012
- 44- HC13-** E. Marinho, M. Fernanda Proença, “The reaction of anthranilonitrile with carbonyl compounds: a convenient synthesis of fused quinazolines” 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9- 11 May 2012
- 45- HC14-** E. Marinho, M.F. Proença, “Synthesis of dihydroquinazolines by microwave irradiation”, 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9- 11 May 2012
- 46- HC15-** N. Senhorães, A. Dias, M.F. Proença, “A novel and efficient approach to 2-amino-6-cyanopurines”, 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9- 11 May 2012
- 47- HC16-** N. Senhorães, A. Dias, M.F. Proença, “A new and efficient synthesis of 3-amino[1,2,4]triazoles”, 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9- 11 May 2012
- 48- HC17-** T. Dias, C. Duarte, C. Lima, C. Pereira-Wilson, M.F. Proença, “Synthesis and anticancer activity of a selection of quercetin analogues and their precursors”, 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9- 11 May 2012
- 49- HC18-** T. Dias, M.F. Proença, “Synthesis of new molecules with the 4*H*-chromen-4-ylidene scaffold”, 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9- 11 May 2012
- 50- HC19-** N. Senhorães, A. M. Dias, M.F. Proença, “An efficient synthesis of 1,2,4-triazoles analogs with potencial biological activity”, poster presented in the 3rd Portuguese Young Chemists Meeting, Porto, 9-11 de Maio de 2012. <http://hdl.handle.net/1822/21919>
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- 52- HC21-** S. A. Heleno, C. Tavares, J. A. Vaz, G. M. Almeida, A. Martins, M. J. R. P. Queiroz, M. H. Vasconcelos, I. C. F. R. Ferreira “Phenolic extract from the fruiting body and spores of a

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53- HC22- A.I. F. Ribeiro, A. L. Costa, A.M. Dias, M.F. Proença, C. Gabriel, M. Vieira, F. Cerqueira, “Synthesis and antimicrobial activity of cyanoformimidoyl imidazoles incorporating a *N*-phenylhydrazonoyl moiety”, poster presented in the 3^o *Encontro Nacional de Química Terapêutica*, Aveiro, 28-30 de Novembro de 2012. <http://hdl.handle.net/1822/21972>

54- HC23- N. Senhorães, A. M. Dias, M.F. Proença, “Synthesis of 4-amidinoimidazoles incorporating a cyanamide moiety: novel precursors for biologically important purines” poster presented in the 3^o *Encontro Nacional de Química Terapêutica*, Aveiro, 28-30 de Novembro de 2012. <http://hdl.handle.net/1822/21981>

55- HC24- N. Senhorães, E.G. Lopes, A.M. Dias, M.F. Proença, C.F. Lima, C. Pereira-Wilson, “Synthesis and Anticancer Activity of 2,6,9-Trisubstituted Adenines”, poster presented in the 3^o *Encontro Nacional de Química Terapêutica*, Aveiro, 28-30 de Novembro de 2012. <http://hdl.handle.net/1822/21967>

56- HC25- M.-J. R.P. Queiroz, D. Peixoto, R. C. Calhelha, R.M.V. Abreu, H.J.C. Froufe, I.C.F.R. Ferreira, R. Costa, R. Soares “ Synthesis, docking and cellular assays of thieno [3,2-*b*]pyridine-thioether-1,3-diaryureas as VEGFR2 inhibitors”, OC13, 3rd Portuguese Meeting on Medicinal Chemistry, (selected for oral communication -MJRPQ), 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal chemistry, November 28-30, 2012 Aveiro, Portugal. <http://hdl.handle.net/1822/22388>

57- HC26 – D. Peixoto, R.C. Calhelha, P. Soares, R.M.V. Abreu, H.J.C. Froufe, I.C.F.R. Ferreira, R. Costa, R. Soares, M.-J.R.P. Queiroz “1-Aryl-3-[4-(thieno[3,2-*d*]pyrimidin-4-yloxy)phenyl]ureas as VEGFR2 inhibitors: synthesis, docking, enzymatic and cellular assays”, P36, 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal chemistry, November 28-30, 2012 Aveiro, Portugal. <http://hdl.handle.net/1822/22433>

- 58- HC27-** R.C. Calhelha, D. Peixoto P. Soares, I.C.F. R. Ferreira , R.M.V. Abreu, M.-J.R.P. Queiroz “ Synthesis, growth inhibitory activity on human tumor cell lines and evaluation of the hepatotoxicity of di(hetero)arylethers and di(hetero)arylamines in the thieno[3,2-*b*]pyridine series”, P100, 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal Chemistry, November 28-30, 2012 Aveiro, Portugal. <http://hdl.handle.net/1822/22389>
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- 60- HC29-** R. Guimarães, L. Barros, M. Dueñas, R.C. Calhelha, A.M. Carvalho, C. Santos-Buelga, M.J. R.P. Queiroz, I.C.F.R Ferreira “Phenolic compounds and bioactive properties of wild German and roman chamomiles”, P103, 3rd Portuguese Meeting on Medicinal Chemistry, 1st Portuguese-Spanish-Brazilian Meeting on Medicinal chemistry, November 28-30, 2012 Aveiro, Portugal.
- 61- HC30-** Diogo Sampaio, Isabel Cabral, Alice M. Dias and M. Fernanda Proença, “Synthesis and antimycobacterial activity of 2-oxopurines”, comunicação em painel apresentada no 3º Encontro Nacional de Química Terapêutica, Aveiro, 28-30 de Novembro de 2012. <http://hdl.handle.net/1822/21979>
- 62- HC31/AA1-** G.M.A. Ribeiro, S. Maia, M.M.M. Raposo, S.P.G. Costa, P. Gomes "Solid phase peptide synthesis of bombesin analogs bearing unnatural amino acids with fluorescent and metal chelating properties", P54, 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9-11 Maio 2012. <http://hdl.handle.net/1822/22029>
- 63- HC32/AA2-** G.M.A. Ribeiro, C. I. C. Esteves, M. M. M. Raposo, S. P. G. Costa, "Synthetic unnatural amino acids as fluorimetric probes for metallic cations", P55, 3rd Portuguese Young Chemists Meeting, Porto, Portugal, 9-11 Maio 2012. <http://hdl.handle.net/1822/22045>

- 64- HC33/AA3-** C. I. C. Esteves, M. M. M. Raposo, S. P. G. Costa, "Evaluation of an unnatural amino acid as a fluorimetric chemosensor for anion recognition", P14, II Encontro em Técnicas de Caracterização e Análise Química, Braga, Portugal, 8 Junho 2012. <http://hdl.handle.net/1822/22043>
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75- BC4 – C.C. Nunes, M.F. Gabriel, P. Almeida, J.C. Marcos, C.T. Tomaz, "Specific berenil–DNA interactions: an overall study in pDNA purification by pseudo-affinity chromatography" 7º Encontro Nacional de Cromatografia, Porto 9 a 11 de Janeiro de 2012.

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