

2011

Publications in International journals (Includes Proceedings, Books and Book chapters)	120
Publications in International journals	103
Publications in National journals	5
Books and book chapters	1
Proceedings	16
Patents	5
Ph.D. thesis	14
Master thesis	31

Publications in International journals

1. Hybrid Organic-Inorganic Phenyl Stationary Phases for the Gas Separation of Organic Binary Mixtures
P. Moriones, X. Rios, J. C. Echeverria, J. J. Garrido, J. Pires, M. Pinto
Colloids and Surfaces A: Physicochemical and Engineering Aspects **2011**, 389, 69–75
DOI: 10.1016/j.colsurfa.2011.08.049
2. Activated Carbons from Sisal Waste by Chemical Activation with K₂CO₃. Kinetics of Paracetamol and Ibuprofen Removal from Aqueous Solution
A.S. Mestre, A. S. Bexiga, M. Proenca, M. Andrade, M. L. Pinto, I. Matos, I. M. Fonseca, A.P. Carvalho
Bioresource Technology **2011**, 102, 8253-8260
DOI: 10.1016/.biortech.2011.06.024
3. Powdered Activated Carbons as Effective Phases for Bar Adsorption Micro-Extraction (BA μ E) to Monitor Levels of Triazinic Herbicides in Environmental Water Resources
N. R. Neng, A. S. Mestre, A. P. Carvalho, J. M. F. Nogueira
Talanta **2011**, 83, 1643-1649
DOI: 10.1016/j.talanta.2010.11.049
4. Cork-based Activated Carbons as Supported Adsorbent Materials for Trace Level Analysis of Ibuprofen and Clofibrac Acid in Environmental and Biological Matrices
N. R. Neng, A. S. Mestre, A. P. Carvalho, J. M. F. Nogueira
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DOI: doi:10.1016/j.chroma.2011.07.025
5. Effects of the Conservation Treatment of Historical Ceramic Tiles on the Tensile Adhesion Strength
A.Russo, M. R. Veiga, M. F. Vaz, A. P. Carvalho
International Journal of Architectural Heritage **2011**, 5, 241-250
DOI: 10.1080/15583050903513487
6. Desilication of a TON zeolite with NaOH: Influence on porosity, acidity and catalytic properties,
P. Matias, C. Sá Couto, I. Graa, J.M. Lopes, A.P. Carvalho, F. Ramôa Ribeiro, M. Guisnet
Applied Catalysis A: General, 399, 1-2, **2011**, 100-109
DOI: 10.1016/j.apcata.2011.03.049

7. Desilication of MOR Zeolite: Conventional versus Microwave Assisted Heating
V. Paixão, R. Monteiro, M. Andrade, A. Fernandes, A. Martins, A. P. Carvalho
Applied Catalysis A:General **2011**, *402*, 59-68
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8. Bone marrow-derived endothelial progenitors expressing Delta-like 4 (Dl4) regulate tumor angiogenesis
C. Real, L. Remedio, F. Caiado, C. Igreja, C. Borges, A. Trindade, P. Pinto-do-O, H. Yagita, A. Duarte, S. Dias
PLoS One **2011**, *6*:e18323
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9. Biphasic modulation of fatty acid synthase by hydrogen peroxide in *Saccharomyces cerevisiae*
A.C. Matias, H.S. Marinho, L. Cyrne, E. Herrero, F. Antunes
Archives of Biochemistry and Biophysics **2011**, *515*,107-11
DOI:10.1016/j.abb.2011.08.009
10. Gel domains in the plasma membrane of *Saccharomyces cerevisiae*: highly ordered, ergosterol-free, and sphingolipid-enriched lipid rafts
F. Aresta-Branco, A.M. Cordeiro, H.S. Marinho, L. Cyrne, F. Antunes, R. F. M de Almeida
Journal of Biological Chemistry **2011**, *286*, 5043-54
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11. Intracellular Reactive Oxygen Species are Essential for PI3K-dependent IL-7-mediated Viability of T-cell Acute Lymphoblastic Leukemia Cells
A.Silva, A. Girio, I. Cebola, C. Santos, F. Antunes, J. T. Barata
Leukemia **2011**, *25*, 960-967
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12. Slow Release of NO by Microporous Titanosilicate ETS-4
M. Pinto, J. Rocha, J. R. B. Gomes, J. Pires
Journal of the American Chemical Society **2011**, *133*, 6396–6402
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13. Natural Clay Binder Based Extrudates of Mesoporous Materials: Improved Materials for Selective Adsorption of Natural and Biogas Components
V. K. Saini, M. Pinto, J. Pires
Green Chemistry **2011**, *13*, 1251-1259
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14. Adsorption and Activation of CO₂ by Amine-Modified Nanoporous Materials Studied by Solid-State NMR and ¹³CO₂ Adsorption
M. Pinto, L. Mafra, J. M. Guil, J. Pires, J. Rocha
Chemistry of Materials **2011**, *23*, 1387-1395
DOI: 10.1021/cm1029563
15. Epoxidation of Olefins Catalyzed by Manganese(III) Salen Complexes Grafted to Porous Heterostructured Clays
I. Kuzniarska-Biernacka, C. Pereira, A. Carvalho, J. Pires, C. Freire
Applied Clay Science **2011**, *53*, 195-203
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16. Heats of Adsorption from the Dubinin-Astakhov Model Applied to the Characterization of Pillared Interlayered Clays (PILCs)
J. Pires, M. L. Pinto, J. M. Guil
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17. High Pressure Adsorption Studies of Ethane and Ethylene on Clay Based Adsorbent Materials
V. Saini, M. Pinto, J. Pires
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18. Characterization of Hierarchical Porosity in Novel Composite Monoliths with Adsorption Studies
V. Saini, M. Pinto, J. Pires
Colloids and Surfaces A Physicochemical and Engineering Aspects **2011**, *373*, 158-166
DOI: 10.1016/j.colsurfa.2010.10.047
19. Development and Application of Stir Bar Sorptive Extraction with Polyurethane Foams for the Determination of Testosterone and Methenolone in Urine Matrices
R. Sequeiros, F. Portugal, M. Pinto, J. Pires, N. Neng, J. Nogueira
Journal of Chromatographic Science **2011**, *49*, 297-302
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20. Designing Novel Hybrid Materials by One-Pot co-Condensation: from Hydrophobic Mesoporous Silica Nanoparticles to Super-Amphiphobic Cotton Textiles
C. Pereira, C. Alves, A. Monteiro, C. Magen, A. Pereira, A. Ibarra, M. R. Ibarra Garcia, P. B. Tavares, J. P. Araújo, G. Blanco, J. M. Pintado, A. Carvalho, J. Pires, M. Pereira, C. Freire
ACS Applied Materials & Interfaces **2011**, *3*, 2289-2299
DOI: 10.1021/am200220x
21. Green Processing of Porous Chitin Structures for Biomedical Applications Combining Ionic Liquids and Supercritical Fluid Technology
S. S. Silva, A. R. C. Duarte, A. P. Carvalho, J. F. Mano, R. L. Reis
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22. Copper Bis(oxazoline) Encapsulated in Zeolites and its Application as Heterogeneous Catalysts for the Cyclopropanation of Styrene
A. R. Silva, H. Albuquerque, A. Fontes, S. Borges, A. Martins, A. Carvalho, J. Pires
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DOI: 10.1002/chem.201003251
25. Synthesis of tetrahydronaphthalene carboxylates by intramolecular cyclization of ethyl ω -(azidophenyl) 2-phenylalkanoates and evaluation of the growth inhibition of human tumor cell lines
O. Pinto, J. Sardinha, P. D. Vaz, F. Piedade, M. J. Calhorda, R. Abramovitch, N. Nazareth, M. Pinto, M. S. J. Nascimento, A. P. Rauter
Journal of Medicinal Chemistry **2011**, *54*, 3175-3187
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26. Sugar-based enantiomeric and conformationally constrained pyrrolo[2,1-c][1,4]-benzodiazepines as potential GABAA ligands
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29. Exploitation of furanoid 5-azido-3-C-branched-chain sugars as precursors towards highly functionalized nitrogen-containing carbohydrate derivatives.
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30. Fries-type reactions for the C-glycosylation of phenols
R. G. Santos, A. R. Jesus, J. M. Caio, A. P. Rauter
Current Organic Chemistry, **2011**, *15*, 128-148.
31. Supercritical carbon dioxide extraction of bioactive compounds from microalgae and volatile oils from aromatic plants
A.M. F. Palavra, J. P. Coelho, J. G. Barroso, A. P. Rauter, J. M. N. A. Fareleira, A. Mainar, J. S. Urieta, B. P. Nobre, L. Gouveia, R. L. Mendes, J. M. S. Cabral, J. M. Novais
J. Supercritical Fluids **2011**, *60*, 21-27
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32. Libraries on Oxetane d-Amino Acid Scaffolds: Syntheses and Evaluation of Physicochemical and Metabolic Properties
S. D. Lucas, H. Fischer, A. Alker, A. P. Rauter, H. P. Wessel
Journal of Carbohydrate Chemistry **2011**, *30*, 498-548
DOI: 10.1080/07328303.2011.609627
33. Influence of salt stress on the growth, essential oil yield and composition of lemon grass (*Cymbopogon schoenanthus* L.)
A. Khadhri, M. Neffati, S. Smiti, J.M.F. Nogueira, M.E.M. Araújo
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36. Novel sulfenamides as promising acetylcholinesterase inhibitors.
C. Proença, M. L. M. Serralheiro, M. E. M. Araújo, M. T. Pamplona, S. M. Santos, M. S. C. S. Santos, F. N Frazão
Journal of Heterocyclic Chemistry **2011**, *48*, 1287-1294
DOI: 10.1002/jhet.752
37. Variability of two essential oils of *Ammi visnaga* (L.) Lam. a Traditional Tunisian Medicinal Plant
A. Khadhri, R. El Mokni, M. E. M. Araújo
Journal of Medicinal Plant Research **2011**, *50*, 5079-5022
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A.M. de Bettencourt, M. F. Duarte, M. H. Florêncio, F. F. Henriques, P. A. Madeira, M. I. Portela, L. F. Vilas-Boas,
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Journal of Mass Spectrometry **2011**, *46*, 640–648
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41. Asymmetric synthesis of trans-4,5-dioxygenated cyclopentenone derivatives by organocatalyzed rearrangement of pyranones and enzymatic dynamic kinetic resolution
J. P. M. Nunes, L. F. Veiros, P. D. Vaz, C. A. M. Afonso, S. Caddick
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42. The role of 4,7-disubstituted phenanthroline ligands in energy transfer of europium(III) complexes: a DFT study
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43. Performance evaluation of mesoporous host materials in olefin epoxidation using Mo(II) and Mo(VI) active species – inorganic vs. hybrid matrix
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46. Function of *Plectranthus barbatus* herbal tea as neuronal acetylcholinesterase inhibitor
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57. Interactions between *Plectranthus barbatus* tea components and human serum albumin and lysozyme: binding and activity studies
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2. Desenvolvimento, Optimização e Aplicação de Novas Fases Poliméricas em Extração Sortiva em Barra de Agitação (SBSE) para Monitorização de Micropoluentes Orgânicos em Matrizes Ambientais e Biológicas

Fátima C.M. Portugal
Ph.D. Thesis, UL, **2011**

3. Discriminação da Origem Geográfica do Grão do Café e Qualificação Analítica dos Perfis de Torra

Carla I.I. Rodrigues
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4. Estudo e Aplicação de Novas Metodologias Emergentes na Análise de Resíduos de Fármacos Prioritários em Matrizes Ambientais e Biológicas

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6. Thermodynamic Studies of Nicotinic Acid
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7. Study of the bioactive extracts of *Salvia sclareoides* Brot. and *Asteriscus vogelii* (Webb.) Walp. and research on their bioactive principles
Isabel Maria Martins Horta Branco
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8. Synthesis of new sugar derivatives containing an α,β -unsaturated carbonyl system in their structure and biological evaluation
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9. Esponjas marinhas: potenciais aplicações biotecnológicas
Ana Isabel dos Santos Esteves
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10. Henrique Pousão's oil paintings: Pigment study by infrared and Raman microscopy
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12. Biosensor evaluation of the antioxidant activity of wines and teas. Interference studies and comparison with other methods
Dulce Martins de Albuquerque Gil
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13. Complexos de elementos emissores de radiação gama e de electrões auger para diagnóstico e/ou terapia do cancro
Teresa Sofia Araújo
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14. Sondas radioactivas dirigidas a receptores do factor de crescimento epidérmico e a receptores estrogénicos
Carina Sofia Rosa
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1. Preparação de Carvões Activados a partir de Biomassa e de Matrizes Zeolíticas
Margarida Simões Ferreira Proença
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2. Preparação de Carvões Activados a partir de Sisal por Activação Química. Aplicação como Catalisadores
Ruben Gonçalo Cardoso Freire
MSc. Thesis, FCUL, **2011**
3. Remoção de Poluentes em Solução Aquosa por Carvões Activados
Susana Cristina Roque Marques
MSc. Thesis, FCUL, **2011**
4. Formulação de compósitos de borracha reciclada e espuma de poliuretano – Estudo de potenciais aplicações
André Guilherme Santos Marta Ferreira Cachaço
MSc. Thesis, IST, **2011**
5. Estudo Da Proteína Humana Centrossomal Tbccd1: Determinação de Domínios Funcionais
Inês Domingos Feio Pereira
MSc. Thesis, FCUL, **2011**
6. Caracterização da proteína centrossomal TBCCD1 durante o desenvolvimento embrionário do peixe zebra
Maria Lúcia Mourão Barriga Negra
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7. Identificação de proteínas alvo do H₂O₂ nas células endoteliais
Rita Sofia Estrela Tenente
MSc. Thesis, FCUL, **2011**
8. Estudo da regulação da angiogenese tumoral pelo H₂O₂ in vivo
Gonçalo Martins da Costa Pereira Rodrigues
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9. Papel do H₂O₂ na resistência adquirida ao cancro: alterações na organização das biomembranas
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MSc. Thesis, FCUL, **2011**
10. Regulação do factor de transcrição Nrf2 pelo peróxido de hidrogénio em células HeLa
Gonçalo Neff Valadares Gomes Covas
MSc. Thesis, FCUL, **2011**
11. Modelação cinética da formação de espécies reactivas de oxigénio (ERO) no oceano e origem dos sistemas anti-oxidantes na evolução
Ricardo Godinho Pais
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12. The physiological role of peroxiredoxin 2 in human erythrocytes. A kinetic analysis.
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13. Calcium signalling modulation in astrocytes by adenosine receptors.
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14. Molecular level evaluation of the dengue virus capsid protein role(s) on the virus life cycle
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15. Efeito de Extractos Aquosos de *Plectranthus Barbatus* e de *Peumus Boldus* na Acção do Etanol e na Absorção Conjunta de Colesterol em Linhas Celulares.
Francesca Guzzetti de Amaral
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16. Estudo de Estruturas Secretoras e Actividade Biológica em Duas espécies Dunares da Flora Aromática Portuguesa
Ana Margarida Rodrigues
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17. Análise serológica e imunoquímica de potenciais antigénios para a pesquisa de anticorpos contra *Plasmódio falciparum* em pacientes com malária
Rita Medina Costa
MSc. Thesis, FCUL, **2011**

18. Elucidating the mechanism of action of cyclotides: ultra-stable proteins for drug design
Inês Mota Torcato
MSc. Thesis, FCUL, **2011**

19. Estudo de organizações supramoleculares entre complexos enzimáticos de cadeias respiratórias procarióticas
Filipe Alexandre Soveral dos Santos
MSc. Thesis, FCUL, **2011**

20. Análise das proteínas diferencialmente expressas no soro de Pacientes PAF assintomáticos
Ana Cristina Ribeiro da Silva
MSc. Thesis, FCUL, **2011**

21. Efeito dos interactuantes da TTR, como a proteína de folding peptidil-prolil cis-trans isomerase e o fibrinogenio na formação de fibras de TTR em doentes com polineuropatia amiloidótica familiar
Samuel Filipe Graça Gilberto
MSc. Thesis, FCUL, **2011**

22. Desenvolvimento e aplicação de métodos cromatográficos no estudo de aglutinantes em pintura
Ana Sofia Gomes Rodrigues
MSc. Thesis, FCUL, **2011**
23. Síntese e Fotossensibilização de Nanotubos de Titanatos
Vanessa Rodrigues Bem
MSc. Thesis, Instituto Superior de Engenharia de Lisboa, **2011**
24. Água-ruça: Tratamento anaeróbio e fotoelectroquímico
Margarida Alexandra Pereira Sampaio
MSc. Thesis, FCUL, **2011**
25. Tratamento de Efluentes Líquidos na Indústria Gráfica Portuguesa - Técnica de Extração de Poluentes
Carlos J.P.H. Monteiro.
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26. Caracterização Físico-química de Sistemas de Molha em Impressão Offset – Influência de Aditivos
João D.B. Silva.
Master in Graphical Technologies, Instituto Superior de Educação e Ciências (ISEC), **2011**
27. Caracterização da Indústria Gráfica em Portugal – inquérito nacional 2009
Márcia G. Brás
Master in Graphical Technologies, Instituto Superior de Educação e Ciências (ISEC), **2011**
28. Desenvolvimento e Validação de Métodos Analíticos para Pesquisa de 2-Feniletilaminas em Fluidos Biológicos
Alexandra F.P. Gonçalves
Faculdade de Ciências da Universidade de Lisboa, **2011**
29. Synthesis and biological study of deoxy glycosides with potential antimicrobial activity against Bacillus spp
João Pedro de Almeida Pais
MSc. Thesis, FCUL, **2011** (Euromaster in Chemistry -Chemistry, Health and Nutrition)
30. Valorisation of medicinal plants in terms of their active principles
Diana Godinho Mendes
MSc. Thesis, FCUL, **2011** (Euromaster in Chemistry -Chemistry, Health and Nutrition)
31. Study of medicinal plants from Montemuro Mountains
Maria Pilar Ribeiro Dias
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