

2014

Publications in International journals (Includes Proceedings, Books and Book chapters)	131
Publications in International journals	120
Publications in National journals	4
Books and book chapters	1
Proceedings	10
Patents	1
Ph.D. theses	5
Master theses	27

Publications in International Journals

1. Influence of Activated Carbons Porous Structure on Iopamidol Adsorption.
A.S. Mestre, M. Machuqueiro, M. Silva, R. Freire, I. M. Fonseca, M. S. C. S. Santos, M. J. Calhorda, A. P. Carvalho.
Carbon **2014**, 77, 607-615. **Top 10%**
<http://dx.doi.org/10.1016/j.carbon.2014.05.065>,
2. Effect on Selective Adsorption of Ethane and Ethylene of the Polyoxometalates Impregnation in the Metal-Organic Framework MIL-101J.
Pires, M. Pinto, C. Granadeiro, A. Barbosa, L. Cunha-Silva, S. Balula, V. Saini
Adsorption, **2014**, 20, 533-534
<http://dx.doi.org/10.1007/s10450-013-9592-6>
3. Cu²⁺ and Co²⁺ Microporous Titanosilicate ETS-4 for Storage and Slow Release of Therapeutic Nitric Oxide
M. Pinto, A. Fernandes, J. Rocha, A. Ferreira, F. Antunes, J. Pires
Journal of Materials Chemistry B - Materials for Biology and Medicine, **2014**, 2, 224-230
<http://dx.doi.org/10.1039/C3TB20929F>
4. Adsorption of Probe Molecules in Pillared Interlayered Clays: Experiment and Computer Simulation
Gallardo, J. M. Guil, E. Lomba, N. Almarza, S. Khatib, C. Cabrillo, A. Sanz, J. Pires
The Journal of Chemical Physics **2014**, 140, 224701-224715
<http://dx.doi.org/10.1063/1.4880962>
5. Bioinspired Synthesis of Mesoporous Silicas Using Large Molecular Weight poly-L-lysine at Neutral pH
J. Pires, A. C. Fernandes, R. Avó
Journal of Materials Science **2014**, 49, 6087-6092
<http://dx.doi.org/10.1007/s10853-014-8335-8>
6. Enantioselective Cyclopropanation and Aziridination Catalyzed by Copper(II) bis(oxazoline) Anchored onto Mesoporous Materials
H. Albuquerque, L. Carneiro, A. P. Carvalho, J. Pires, A. R. Silva
Polyhedron **2014**, 79, 315–323
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7. Synthesis of Novel Hierarchical ZSM-5 Monoliths and their Application in Trichloroethylene Removal
J. Pires, A. C. Fernandes, D. Duraiswami
Chinese Journal of Catalysis **2014**, 35, 1492–1496
[http://dx.doi.org/10.1016/S1872-2067\(14\)60085-1](http://dx.doi.org/10.1016/S1872-2067(14)60085-1)
8. Carbon-based Materials Prepared from Pine Gasification Residues for Acetaminophen Adsorption
M. Galhetas, A. S. Mestre, M. L. Pinto, I. Gulyurtlu, H. Lopes, A.P. Carvalho
Chemical Engineering Journal **2014**, 240, 344-351
<http://dx.doi.org/10.1016/j.cej.2013.11.067>
9. Catalytic behavior of Alkali-treated Pt/HMOR in n-Hexane Hydroisomerization
R. Monteiro, C. O. Ania, J. Rocha, A. P. Carvalho, A. Martins
Applied Catalysis A: General **2014**, 476, 148-157
<http://dx.doi.org/10.1016/j.apcata.2014.02.026>
10. Nanoporous Materials: Pillared Clays and Regular Silicas as an Example of Synthesis and Their Porosity Characterization by X-Ray Diffraction
J. Pires
Química Nova 37 (**2014**) 168-170
<http://submission.quimicanova.sbq.org.br/qn/qnol/2014/vol37n1/28-ED13153.pdf>
11. Visible Light Driven Photooxidation of Phenol on TiO₂/Cu-loaded Carbon Catalysts
M. A. Andrade, R. J. Carmona, A. S. Mestre, J. Matos, A. P. Carvalho, C. O. Ania
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12. Activated Carbons Prepared from Industrial Pre-treated Cork: Sustainable Adsorbents for Pharmaceutical Compounds Removal
A.S. Mestre, R. A. Pires, I. Aroso, E. Fernandes, M. L. Pinto, R. L. Reis, M. A. Andrade, J. Pires, S. P. Silva, A. P. Carvalho
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13. Chars from Gasification of Coal and Pine Activated with K₂CO₃: Acetaminophen and Caffeine Adsorption from Aqueous Solutions
M. Galhetas, A.S. Mestre, M.L. Pinto, I. Gulyurtlu, H. Lopes, A.P. Carvalho
J. Colloids and Interface Science, **2014**, 433, 94-103
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19. Exploiting the Therapeutic Potential of 8-β-D-Glucopyranosylgenistein: Synthesis, Antidiabetic Activity and Molecular Interaction with IAPP and Aβ1-42
R. Jesus, C. Dias, A. M. Matos, R. F. M. Almeida, A. S. Viana, F. Marcelo, R. T. Ribeiro, M. P. Macedo, C. Airoidi, F. Nicotra, A. Martins, E. J. Cabrita, J. Jimenez-Barbero, A. P. Rauter
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N. Amessis-Ouchemoukh, K. Madani, P. L.V. Falé, M. L. Serralheiro, M. E. M. Araújo,
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V. Cachatra, A. P. Rauter
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L. Custódio, F. Soares, H. Pereira, L. Barreira, C. Vizetto-Duarte, M. J. Rodrigues, A. P. Rauter, F. Alberício, J. Varela
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29. In vitro Antitumoral Activity of Compounds Isolated from *Artemisia gorgonum* Webb
A. Martins, R. Mignon, M. Bastos, D. Batista, N. R. Neng, J. M. F. Nogueira, C. Vizetto-Duarte, L. Custódio, J. Varela, A. P. Rauter
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L. Falcão, M.E.M. Araújo
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S. Silva, F. V. M. Silva, J. Justino, A. P. Rauter, P. Rollin, A. Tatibouet
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A.Khadhri, I. Bouali, S. Belkhir, R. El Mokni, S. Smiti, C. Almeida, J.M.F. Nogueira, M. Eduarda M. Araújo
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33. Phytochemical Analysis of *Plectranthus* sp. Extracts and Application in Inhibition of Dental Bacteria, *Streptococcus sobrinus* and *Streptococcus mutans*
N. L. Figueiredo, P.Luis Falé, P. J. Amorim Madeira, M. Helena Florêncio, L. Ascensão, M. L. M. Serralheiro, A. R. L. Lino.
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H. Nunes, P. Falé, M.F. Duarte, M.L.M.O.M. Serralheiro, A. Borba, F. Moreira da Silva.
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N. L. L. Figueiredo, J.Canário, A.Duarte, M. L.Serralheiro, C. Carvalho
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R. J. N. Bettencourt da Silva, D. M. Silveira, M. F. G. F. C. Camões, C. M. F. Borges, P. A. S. Salgueiro.
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47. Solution and solid state properties of Fe(III) complexes bearing N-ethyl-N-(2-aminoethyl)salicylaldiminate ligands
P. N. Martinho, A. I. Vicente, S. Realista, M. S. Saraiva, A. I. Melato, P. Brandão, L. P. Ferreira, M. D. Carvalho
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Organometallic Chemistry, Catalysis and Theory (dedicated to Prof. Calhorda on the occasion of her 65th birthday)
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48. Four- and Five-Coordinate High-Spin Iron(II) Complexes bearing Bidentate Soft/Hard SN Ligands based on 2-Aminopyridine
C. Holzhaecker, M.J. Calhorda, A. Gil, M.D. Carvalho, L.P. Ferreira, K. Mereiter, B. Stöger, E. Pittenauer, G. Allmaier, K. Kirchner
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C. Holzhaecker, M. J. Calhorda, A. Gil, M. D. Carvalho, L. P. Ferreira, B. Stöger, K. Mereiter, M. Weil, D. Müller, P. Weinberger, E. Pittenauer, G. Allmaier, K. Kirchner
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C. I. Fernandes, M. D. Carvalho, L. P. Ferreira, C. D. Nunes, P. D. Vaz
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Software

DLPGEN: Generator of Input Files for Molecular Dynamic Simulations
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(http://webpages.fc.ul.pt/~cebernardes/Software_dlpgen.html)

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