

LIST OF ARTICLES (In SCI Journals) in 2008

- 1 - **Acetoxylation of camphene catalysed by beta zeolite.**(2008) Castanheiro, J.E., Fonseca, I.M., Ramos, A.M., Vital, J. *Catalysis Communications* **9**: 2205-2208
- 2 - **Activated sludge process monitoring through in situ near-infrared spectral analysis.**(2008) Dias, A.M.A., Moita, I., Pascoa, R., Alves, M.M., Lopes, J.A., Ferreira, E.C. *Water Science and Technology* **57**: 1643-1650
- 3 - **The adaptive evolution of the mammalian mitochondrial genome.**(2008) da Fonseca, R.R., Johnson, W.E., O'Brien, S.J., Ramos, M.J., Antunes, A. *Bmc Genomics* **9**:
- 4 - **Adsorbed natural gas technology.**(2008) Mota, J.P.B. *Recent Advances in Adsorption Processes for Environmental Protection and Security* 177-192
- 5 - **Adsorption of natural gas and biogas components on activated carbon.**(2008) Esteves, I., Lopes, M.S.S., Nunes, P.M.C., Mota, J.P.B. *Separation and Purification Technology* **62**: 281-296
- 6 - **Amino acid pairing at the N- and C-termini of helical segments in proteins.**(2008) Fonseca, N.A., Camacho, R., Magalhaes, A.L. *Proteins-Structure Function and Bioinformatics* **70**: 188-196
- 7 - **Anchoring effects in a wide binding pocket: The molecular basis of regioselectivity in engineered cytochrome P450 monooxygenase from B. megaterium.**(2008) Branco, R.J.F., Seifert, A., Budde, M., Urlacher, V.B., Ramos, M.J., Pleiss, J. *Proteins-Structure Function and Bioinformatics* **73**: 597-607
- 8 - **Anion detection by fluorescent Zn(II) complexes of functionalized polyamine ligands.**(2008) Rodriguez, L., Lima, J.C., Parola, A.J., Pina, F., Meitz, R., Aucejo, R., Garcia-Espana, E., Llinares, J.M., Soriano, C., Alarcon, J. *Inorganic Chemistry* **47**: 6173-6183
- 9 - **Anion-exchange membrane chromatography for purification of rotavirus-like particles.**(2008) Vicente, T., Sousa, M.F.Q., Peixoto, C., Mota, J.P.B., Alves, P.M., Carrondo, M.J.T. *Journal of Membrane Science* **311**: 270-283
- 10 - **Antibiotic resistance integrons and extended-spectrum beta-lactamases among Enterobacteriaceae isolates recovered from chickens and swine in Portugal.**(2008) Machado, E., Coque, T.M., Canton, R., Sousa, J.C., Peixe, L. *Journal of Antimicrobial Chemotherapy* **62**: 296-302
- 11 - **Antileishmanial activity of piceatannol isolated from Euphorbia lagascae seeds.**(2008) Duarte, N., Kayser, O., Abreu, P., Ferreira, M.J.U. *Phytotherapy Research* **22**: 455-457
- 12 - **Antineoplastic 31-norcycloartanonones from Solanum cernuum Vell.**(2008) Grando, R., Antonio, M.A., Araujo, C.E.P., Soares, C., Medeiros, M.A., de Carvalho, J.E., Lourenco, A.M., Lopes, L.C. *Zeitschrift Fur Naturforschung Section C-a Journal of Biosciences* **63**: 507-514
- 13 - **Antioxidant activities of the extracts from chestnut flower, leaf, skins and fruit.**(2008) Barreira, J.C.M., Ferreira, I., Oliveira, M., Pereira, J.A. *Food Chemistry* **107**: 1106-1113

- 14 - **Antioxidant activity and bioactive compounds of ten Portuguese regional and commercial almond cultivars.**(2008) Barreira, J.C.M., Ferreira, I., Oliveira, M., Pereira, J.A. *Food and Chemical Toxicology* **46**: 2230-2235
- 15 - **Antioxidant activity of Agaricus sp mushrooms by chemical, biochemical and electrochemical assays.**(2008) Barros, L., Falcao, S., Baptista, P., Freire, C., Vilas-Boas, M., Ferreira, I. *Food Chemistry* **111**: 61-66
- 16 - **Antioxidant properties of free, soluble ester and insoluble-bound phenolic compounds in different barley varieties and corresponding malts.**(2008) Dvorakova, M., Guido, L.F., Dostalek, P., Skulilova, Z., Moreira, M.M., Barros, A.A. *Journal of the Institute of Brewing* **114**: 27-33
- 17 - **Antioxidant versus cytotoxic properties of hydroxycinnamic acid derivatives - A new paradigm in phenolic research.**(2008) Esteves, M., Siquet, C., Gaspar, A., Rio, V., Sousa, J.B., Reis, S., Marques, M.P.M., Borges, F. *Archiv Der Pharmazie* **341**: 164-173
- 18 - **Application of CFD in the study of supercritical fluid extraction with structured packing: Dry pressure drop calculations.**(2008) Fernandes, J., Simoes, P.C., Mota, J.P.B., Saatdjian, E. *Journal of Supercritical Fluids* **47**: 17-24
- 19 - **Application of diffusion-ordered spectroscopy for the analysis of cancer related biological samples.**(2008) Ivanova, G.I., Cabrita, E.J., O'Connor, R., Eustace, A.J., Brougham, D.F. *Bulgarian Chemical Communications* **40**: 464-468
- 20 - **Applications of 2D Descriptors in Drug Design: A DRAGON Tale.**(2008) Helguera, A.M., Combes, R.D., Gonzalez, M.P., Cordeiro, M. *Current Topics in Medicinal Chemistry* **8**: 1628-1655
- 21 - **Array of potentiometric sensors for multicomponent analysis of blood serum.**(2008) Correia, D.P.A., Magalhaes, J., Machado, A. *Microchimica Acta* **163**: 131-137
- 22 - **Assessing the antioxidative properties and chemical composition of Linaria vulgaris infusion.**(2008) Vrchovska, V., Spilkova, J., Valentao, P., Sousa, C., Andrade, P.B., Seabra, R.M. *Natural Product Research* **22**: 735-746
- 23 - **Assessing the reliability of sequence similarities detected through hydrophobic cluster analysis.**(2008) Silva, P.J. *Proteins-Structure Function and Bioinformatics* **70**: 1588-1594
- 24 - **Atomic force microscopy study of the antibacterial effects of chitosans on Escherichia coli and Staphylococcus aureus.**(2008) Eaton, P., Fernandes, J.C., Pereira, E., Pintado, M.E., Malcata, F.X. *Ultramicroscopy* **108**: 1128-1134
- 25 - **Authentication of the Ancient Easel-paintings through Materials Identification from the Polychrome Layers III. Cross - section Analysis and Staining Test.**(2008) Sandu, I.C.A., Vasilache, V., Sandu, I., Luca, C., Hayashi, M. *Revista De Chimie* **59**: 855-866
- 26 - **Automatic Multipumping Flow System for Handling Viscous Solutions: Application to the Spectrophotometric Determination of Trimipramine.**(2008) Ribeiro, D., Prior, J., Santos, J., Lima, J. *Analytical Letters* **41**: 2684-2696
- 27 - **Behaviour and biomarkers of oxidative stress in Gambusia holbrooki after acute exposure to widely used pharmaceuticals and a detergent.**(2008) Nunes, B., Gaio, A.R., Carvalho, F., Guilhermino, L. *Ecotoxicology and Environmental Safety* **71**: 341-354
- 28 - **Benefits of membrane electrodes in the electrochemistry of metalloproteins: mediated catalysis of Paracoccus pantotrophus cytochrome c peroxidase by horse cytochrome c: a case study.**(2008) de Sousa, P.M.P., Pauleta, S.R., Rodrigues, D., Goncalves, M.L.S., Pettigrew, G.W., Moura, I., Moura, J.J.G., dos Santos, M.M.C. *Journal of Biological Inorganic Chemistry* **13**: 779-787
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- 31 - **Biochemical and spectroscopic characterization of the membrane-bound nitrate reductase from *Marinobacter hydrocarbonoclasticus* 617.**(2008) Correia, C., Besson, S., Brondino, C.D., Gonzalez, P.J., Fauque, G., Lampreia, J., Moura, I., Moura, J.J.G. *Journal of Biological Inorganic Chemistry* **13**: 1321-1333
- 32 - **Biodegradable Polymers Extracted from "Sargaco": Film Properties and Application to Edible Coating.**(2008) Sousa, A., Martins, S., Larotonda, F.D.S., Hilliou, L., Goncalves, M.P., Sereno, A.M. *Advanced Materials Forum Iv* **587-588**: 548-552
- 33 - **Biologically relevant O,S-donor compounds. Synthesis, molybdenum complexation and xanthine oxidase inhibition.**(2008) Chaves, S., Gil, M., Canario, S., Jelic, R., Romao, M.J., Trincao, J., Herdtweck, E., Sousa, J., Diniz, C., Fresco, P., Santos, M.A. *Dalton Transactions* 1773-1782
- 34 - **Bioprocess hybrid parametric/nonparametric modelling based on the concept of mixture of experts.**(2008) Peres, J., Oliveira, R., de Azevedo, S.F. *Biochemical Engineering Journal* **39**: 190-206
- 35 - **Calcium-dependent heme structure in the reduced forms of the bacterial cytochrome c peroxidase from *Paracoccus pantotrophus*.**(2008) Pauleta, S.R., Lu, Y., Goodhew, C.F., Moura, I., Pettigrew, G.W., Shelnut, J.A. *Biochemistry* **47**: 5841-5850
- 36 - **Capture of Dioxins by ionic liquids.**(2008) Kulkarni, P.S., Branco, L.C., Crespo, J.G., Afonso, C.A.M. *Environmental Science & Technology* **42**: 2570-2574
- 37 - **Carbohydrate-binding modules from family 11: Understanding the binding mode of polysaccharides.**(2008) Bras, N.F., Cerqueira, N., Fernandes, P.A., Ramos, M.J. *International Journal of Quantum Chemistry* **108**: 2030-2040
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- 39 - **Characterizing the biochemical activity of full-scale enhanced biological phosphorus removal systems: A comparison with metabolic models.**(2008) Pijuan, M., Oehmen, A., Baeza, J.A., Casas, C., Yuan, Z. *Biotechnology and Bioengineering* **99**: 170-179
- 40 - **Chemical transformations of mono- and bis(buta-1,3-dien-1-yl)porphyrins: A new synthetic approach to mono- and dibenzoporphyrins.**(2008) Silva, A.M.G., de Oliveira, K.T., Faustino, M.A.F., Neves, M., Tome, A.C., Silva, A.M.S., Cavaleiro, J.A.S., Brandao, P., Felix, V. *European Journal of Organic Chemistry* 704-712
- 41 - **Chronic exposure to ethanol exacerbates MDMA-induced hyperthermia and exposes liver to severe MDMA-induced toxicity in CD1 mice.**(2008) Pontes, H., Duarte, J.A., de Pinho, P.G., Soares, M.E., Fernandes, E., Dinis-Oliveira, R.J., Sousa, C., Silva, R., Carmo, H., Casal, S., Remiao, F., Carvalho, F., Bastos, M.L. *Toxicology* **252**: 64-71
- 42 - **Cleansing contaminated seawaters using marine cyanobacteria: evaluation of trace metal removal from the medium.**(2008) Ribeiro, J.P.N., Lopes, J.A., Fachini, A. *International Journal of Environmental Analytical Chemistry* **88**: 701-710
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- 46 - **Comparative study of DNA extraction methods for soybean derived food products.**(2008) Mafra, I., Silva, S.A., Moreira, E., da Silva, C.S.F., Beatriz, M., Oliveira, P.P. *Food Control* **19**: 1183-1190
- 47 - **Comparative study of phytochemicals and antioxidant potential of wild edible mushroom caps and stipes.**(2008) Ribeiro, B., Lopes, R., Andrade, P.B., Seabra, R.M., Goncalves, R.F., Baptista, P., Quelhas, I., Valentao, P. *Food Chemistry* **110**: 47-56
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- 52 - **Computational chemistry approach for the early detection of drug-induced idiosyncratic liver toxicity.**(2008) Cruz-Monteagudo, M., Cordeiro, M., Borges, F. *Journal of Computational Chemistry* **29**: 533-549
- 53 - **Computational enzymatic catalysis.**(2008) Ramos, M.J., Fernandes, P.A. *Accounts of Chemical Research* **41**: 689-698
- 54 - **Computational optimization of AG18051 inhibitor for amyloid-beta binding alcohol dehydrogenase enzyme.**(2008) Marques, A.T., Antunes, A., Fernandes, P.A., Ramos, M.J. *International Journal of Quantum Chemistry* **108**: 1982-1991
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