

**Research Articles published in 2009 (indexed to ISI Web of Science)**

- 1 - **ABAD: A Potential Therapeutic Target for A beta-Induced Mitochondrial Dysfunction in Alzheimer's Disease.** Marques, A.T., Fernandes, P.A., Ramos, M.J. *Mini-Reviews in Medicinal Chemistry* **9** (2009): 1002-1008
- 2 - **Acetyl-L-Carnitine Provides Effective in Vivo Neuroprotection over 3,4-Methylenedioxymethamphetamine-Induced Mitochondrial Neurotoxicity in the Adolescent Rat Brain.** Alves, E., Binienda, Z., Carvalho, F., Alves, C.J., Fernandes, E., Bastos, M.D.L., Tavares, M.A., Summavielle, T. *Neuroscience* **158** (2009): 514-523
- 3 - **Acrylamide in espresso coffee: Influence of species, roast degree and brew length.** Alves, R.C., Soares, C., Casal, S., Fernandes, J.O., Oliveira, M.B.P.P. *Food Chemistry* **119** (2009): 929-934
- 4 - **Adenosine A(2A) Receptor Blockade Prevents Synaptotoxicity and Memory Dysfunction Caused by beta-Amyloid Peptides via p38 Mitogen-Activated Protein Kinase Pathway.** Canas, P.M., Porciuncula, L.O., Cunha, G.M.A., Silva, C.G., Machado, N.J., Oliveira, J.M.A., Oliveira, C.R., Cunha, R.A. *Journal of Neuroscience* **29** (2009): 14741-14751
- 5 - **Adrenaline in pro-oxidant conditions elicits intracellular survival pathways in isolated rat cardiomyocytes.** Costa, V.M., Silva, R., Ferreira, R., Amado, F., Carvalho, F., Bastos, M.D., Carvalho, R.A., Carvalho, M., Remiao, F. *Toxicology* **257** (2009): 70-79
- 6 - **Advances in on-line monitoring and control of mammalian cell cultures: Supporting the PAT initiative.** Teixeira, A.P., Oliveira, R., Alves, P.M., Carrondo, M.J.T. *Biotechnology Advances* **27** (2009): 726-732
- 7 - **Alignment-free prediction of mycobacterial DNA promoters based on pseudo-folding lattice network or star-graph topological indices.** Perez-Bello, A., Munteanu, C.R., Ubeira, F.M., De Magalhaes, A.L., Uriarte, E., Gonzalez-Diaz, H. *Journal of Theoretical Biology* **256** (2009): 458-466
- 8 - **An Alternative Mechanism for Diels-Alder Reactions of Evans Auxiliary Derivatives.** Bakalova, S.M., Duarte, F.J.S., Georgieva, M.K., Cabrita, E.J., Santos, A.G. *Chemistry-a European Journal* **15** (2009): 7665-7677
- 9 - **Analysis of polycyclic aromatic hydrocarbons in atmospheric particulate samples by microwave-assisted extraction and liquid chromatography.** Castro, D., Slezakova, K., Oliva-Teles, M.T., Delerue-Matos, C., Alvim-Ferraz, M.C., Morais, S., Pereira, M.C. *Journal of Separation Science* **32** (2009): 501-510
- 10 - **Analysis of polycyclic aromatic hydrocarbons in fish: evaluation of a quick, easy, cheap, effective, rugged, and safe extraction method.** Ramalhosa, M.J., Paiga, P., Morais, S., Delerue-Matos, C., Oliveira, M.B.P.P. *Journal of Separation Science* **32** (2009): 3529-3538
- 11 - **Antibody immobilization on magnetic particles.** Roque, A.C.A., Bispo, S., Pinheiro, A.R.N., Antunes, J.M.A., Goncalves, D., Ferreira, H.A. *Journal of Molecular Recognition* **22** (2009): 77-82
- 12 - **Anti-inflammatory potential of 2-styrylchromones regarding their interference with arachidonic acid metabolic pathways.** Gomes, A., Fernandes, E., Silva, A.M.S., Pinto,

- D.C.G.A., Santos, C.M.M., Cavaleiro, J.A.S., Lima, J.L.F.C. *Biochemical Pharmacology* **78** (2009): 171-177
- 13 - **Antioxidant Activity of Vitamin E and Trolox: Understanding of the Factors that Govern Lipid Peroxidation Studies In Vitro.** Lucio, M., Nunes, C., Gaspar, D., Ferreira, H., Lima, J.L.F.C., Reis, S. *Food Biophysics* **4** (2009): 312-320
- 14 - **Antioxidant and Biological Properties of Bioactive Phenolic Compounds from *Quercus suber* L.** Fernandes, A., Fernandes, I., Cruz, L., Mateus, N., Cabral, M., de Freitas, V. *Journal of Agricultural and Food Chemistry* **57** (2009): 11154-11160
- 15 - **Antioxidant status, oxidative stress, and damage in elite kayakers after 1 year of training and competition in 2 seasons.** Teixeira, V., Valente, H., Casal, S., Pereira, L., Marques, F., Moreira, P. *Applied Physiology Nutrition and Metabolism-Physiologie Appliquee Nutrition Et Metabolisme* **34** (2009): 716-724
- 16 - **Antioxidant Status, Oxidative Stress, and Damage in Elite Trained Kayakers and Canoeists and Sedentary Controls.** Teixeira, V., Valente, H., Casal, S., Marques, F., Moreira, P. *International Journal of Sport Nutrition and Exercise Metabolism* **19** (2009): 443-456
- 17 - **Antioxidants Do Not Prevent Postexercise Peroxidation and May Delay Muscle Recovery.** Teixeira, V.H., Valente, H.F., Casal, S.I., Marques, A.F., Moreira, P.A. *Medicine and Science in Sports and Exercise* **41** (2009): 1752-1760
- 18 - **Application of CFD in the study of supercritical fluid extraction with structured packing: Wet pressure drop calculations.** Fernandes, J., Lisboa, P.F., Simoes, P.C., Mota, J.P.B., Saadjan, E. *Journal of Supercritical Fluids* **50** (2009): 61-68
- 19 - **Application of near infrared spectroscopy and multivariate data analysis for the evaluation of glue lines of untreated and copper azole treated laminated timber before and after ageing.** Gaspar, F., Lopes, J., Cruz, H., Schwanninger, M., Rodrigues, J. *Polymer Degradation and Stability* **94** (2009): 1061-1071
- 20 - **Application of thermogravimetric analysis to study the thermal degradation of solid and liquid organic wastes.** Lygina, E.S., Dmitruk, A.F., Lyubchik, S.B., Tret'yakov, V.F. *Solid Fuel Chemistry* **43** (2009): 247-266
- 21 - **Aroma recovery by integration of sweeping gas pervaporation and liquid absorption in membrane contactors.** Brazinha, C., Alves, V.D., Viegas, R.M.C., Crespo, J.G. *Separation and Purification Technology* **70** (2009): 103-111
- 22 - **Aroma recovery from hydro alcoholic solutions by organophilic pervaporation: Modelling of fractionation by condensation.** Brazinha, C., Crespo, J.G. *Journal of Membrane Science* **341** (2009): 109-121
- 23 - **Assessing genetic variability in germplasm of *Phaseolus vulgaris* L. collected in Northern Portugal.** Coelho, R.C., Faria, M.A., Rocha, J., Reis, A., Oliveira, M.B.P.P., Nunes, E. *Scientia Horticulturae* **122** (2009): 333-338
- 24 - **Assignment of EC Numbers to Enzymatic Reactions with MOLMAP Reaction Descriptors and Random Forests.** Latino, D.A.R.S., Aires-de-Sousa, J. *Journal of Chemical Information and Modeling* **49** (2009): 1839-1846
- 25 - **Automated Chemiluminometric Screening of Counterfeit Drugs of the Antituberculosis Agent Pyrazinamide.** Prior, J.A.V., Santos, J.L.M., Lima, J.L.F.C. *Journal of Aoac International* **92** (2009): 830-836
- 26 - **Automatic flow injection based methodologies for determination of scavenging capacity against biologically relevant reactive species of oxygen and nitrogen.** Magalhaes, L.M., Lucio, M., Segundo, M.A., Reis, S., Lima, J.L.F.C. *Talanta* **78** (2009): 1219-1226

- 27 - **Bathing waters: New directive, new standards, new quality approach.** Mansilha, C.R., Coelho, C.A., Heitor, A.M., Amado, J., Martins, J.P., Gameiro, P. *Marine Pollution Bulletin* **58** (2009): 1562-1565
- 28 - **Bioactivity studies and chemical profile of the antidiabetic plant *Genista tenera*.** Rauter, A.P., Martins, A., Lopes, R., Ferreira, J., Serralheiro, L.M., Araujo, M.E., Borges, C., Justino, J., Silva, F.V., Goulart, M., Thomas-Oates, J., Rodrigues, J.A., Edwards, E., Noronha, J.P., Pinto, R., Mota-Filipe, H. *Journal of Ethnopharmacology* **122** (2009): 384-393
- 29 - **Biochemical endpoints on juvenile *Solea senegalensis* exposed to estuarine sediments: the effect of contaminant mixtures on metallothionein and CYP1A induction.** Costa, P.M., Caeiro, S., Diniz, M.S., Lobo, J., Martins, M., Ferreira, A.M., Caetano, M., Vale, C., DelValls, T.A., Costa, M.H. *Ecotoxicology* **18** (2009): 988-1000
- 30 - **Biocompatible and bioactive gum Arabic coated iron oxide magnetic nanoparticles.** Roque, A.C.A., Bicho, A., Batalha, I.L., Cardoso, A.S., Hussain, A. *Journal of Biotechnology* **144** (2009): 313-320
- 31 - **Bio-recognition and detection using liquid crystals.** Hussain, A., Pina, A.S., Roque, A.C.A. *Biosensors & Bioelectronics* **25** (2009): 1-8
- 32 - ***Boerhaavia diffusa*: Metabolite profiling of a medicinal plant from Nyctaginaceae.** Pereira, D.M., Faria, J., Gaspar, L., Valentao, P., Andrade, P.B. *Food and Chemical Toxicology* **47** (2009): 2142-2149
- 33 - ***Brassica oleracea* var. *costata*: comparative study on organic acids and biomass production with other cabbage varieties.** Sousa, C., Pereira, D.M., Taveira, M., Dopico-Garcia, S., Valentao, P., Pereira, J.A., Bento, A., Andrade, P.B. *Journal of the Science of Food and Agriculture* **89** (2009): 1083-1089
- 34 - **Camelid nanobodies raised against an integral membrane enzyme, nitric oxide reductase.** Conrath, K., Pereira, A.S., Martins, C.E., Timoteo, C.G., Tavares, P., Spinelli, S., Kinne, J., Flaudrops, C., Cambillau, C., Muyldermans, S., Moura, I., Moura, J.J.G., Tegoni, M., Desmyter, A. *Protein Science* **18** (2009): 619-628
- 35 - **Camphorsulfonic Acid: A Versatile and Useful Reagent in Organic Synthesis.** Estevao, M.S. *Synlett* (2009): 683-684
- 36 - **Can ultrasonic energy efficiently speed O-18-labeling of proteins?** Carreira, R.J., Lodeiro, C., Diniz, M.S., Moura, I., Capelo, J.L. *Proteomics* **9** (2009): 4974-4977
- 37 - **Catalytic oxidative degradation of s-triazine and phenoxyalkanoic acid based herbicides with metalloporphyrins and hydrogen peroxide: Identification of two distinct reaction schemes.** Rebelo, S.L.H., Pereira, M.M., Monsanto, P.V., Burrows, H.D. *Journal of Molecular Catalysis a-Chemical* **297** (2009): 35-43
- 38 - **Changes of yolk biogenic amine concentrations during storage of shell hen eggs.** Ramos, B., Pinho, O., Ferreira, I.M.P.L.V.O. *Food Chemistry* **116** (2009): 340-344
- 39 - **Characterization of an extracellular polysaccharide produced by a *Pseudomonas* strain grown on glycerol.** Freitas, F., Alves, V.D., Pais, J., Costa, N., Oliveira, C., Mafra, L., Hilliou, L., Oliveira, R., Reis, M.A.M. *Bioresource Technology* **100** (2009): 859-865
- 40 - **Characterization of membrane protein reconstitution in LUVs of different lipid composition by fluorescence anisotropy.** Neves, P., Lopes, S.C.D.N., Sousa, I., Garcia, S., Eaton, P., Gameiro, P. *Journal of Pharmaceutical and Biomedical Analysis* **49** (2009): 276-281
- 41 - **Characterization of weld (*Reseda luteola* L.) and spurge flax (*Daphne gnidium* L.) by high-performance liquid chromatography-diode array detection-mass spectrometry in**

- Arraiolos historical textiles.** Marques, R., Sousa, M.M., Oliveira, M.C., Melo, M.J. *Journal of Chromatography A* **1216** (2009): 1395-1402
- 42 - **Clonal expansion within clonal complex 2 and spread of vancomycin-resistant plasmids among different genetic lineages of *Enterococcus faecalis* from Portugal.** Freitas, A.R., Novais, C., Ruiz-Garbajosa, P., Coque, T.M., Peixe, L. *Journal of Antimicrobial Chemotherapy* **63** (2009): 1104-1111
- 43 - **Cobalt-, zinc- and iron-bound forms of adenylate kinase (AK) from the sulfate-reducing bacterium *Desulfovibrio gigas*: purification, crystallization and preliminary X-ray diffraction analysis.** Kladova, A.V., Gavel, O.Y., Mukhopadhyay, A., Boer, D.R., Teixeira, S., Shnyrov, V.L., Moura, I., Moura, J.J.G., Romao, M.J., Trincao, J., Bursakov, S.A. *Acta Crystallographica Section F-Structural Biology and Crystallization Communications* **65** (2009): 926-929
- 44 - **A cocaine body packer case report: clinical and forensic aspects.** Dinis-Oliveira, R.J., Magalhaes, T., Carvalho, F., Santos, A. *Clinical Toxicology* **47** (2009): 590-591
- 45 - **Community Structure Evolution and Enrichment of Glycogen-Accumulating Organisms Producing Polyhydroxyalkanoates from Fermented Molasses.** Pisco, A.R., Bengtsson, S., Werker, A., Reis, M.A.M., Lemos, P.C. *Applied and Environmental Microbiology* **75** (2009): 4676-4686
- 46 - **Comparative Analysis of the Performance of Commonly Available Density Functionals in the Determination of Geometrical Parameters for Zinc Complexes.** Sousa, S.F., Carvalho, E.S., Ferreira, D.M., Tavares, I.S., Fernandes, P.A., Ramos, M.J., Gomes, J.A.N.F. *Journal of Computational Chemistry* **30** (2009): 2752-2763
- 47 - **Comparative study of matrices for their use in the rapid screening of anabolic steroids by matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry.** Galesio, M., Rial-Otero, R., Capelo-Martinez, J.L. *Rapid Communications in Mass Spectrometry* **23** (2009): 1783-1791
- 48 - **A comparison of Scopus and Web of Science for a typical university.** Vieira, E.S., Gomes, J.A.N.F. *Scientometrics* **81** (2009): 587-600
- 49 - **Comparison of two gas-liquid chromatograph columns for the analysis of fatty acids in ruminant meat.** Alves, S.P., Bessa, R.J.B. *Journal of Chromatography A* **1216** (2009): 5130-5139
- 50 - **Complexation Studies of N, N'-ethylenedi-L-cysteine with Some Metal Ions.** Barros, M.T., Martins, J., Pinto, R.M., Santos, M.S., Soares, H.M.V.M. *Journal of Solution Chemistry* **38** (2009): 1504-1519
- 51 - **Composition and In Vitro Antioxidant Effects of Jellyfish *Catostylus tagi* from Sado Estuary (SW Portugal).** Morais, Z.B., Pintao, A.M., Costa, I.M., Calejo, M.T., Bandarra, N.M., Abreu, P. *Journal of Aquatic Food Product Technology* **18** (2009): 90-107
- 52 - **Comprehensive two-dimensional gas chromatography for fingerprint pattern recognition in olive oils produced by two different techniques in Portuguese olive varieties Galega Vulgar, Cobrancosa e Carrasquenha.** Vaz-Freire, L.T., da Silva, M.D.R.G., Freitas, A.M.C. *Analytica Chimica Acta* **633** (2009): 263-270
- 53 - **Computational Studies on the Reactivity of Substituted 1,2-Dihydro-1,2-azaborines.** Silva, P.J., Ramos, M.J. *Journal of Organic Chemistry* **74** (2009): 6120-6129
- 54 - **Controlling for false positives: interpreting MBL Etest and MBL combined disc test for the detection of metallo-beta-lactamases.** Ratkai, C., Quinteira, S., Grosso, F., Monteiro, N., Nagy, E., Peixe, L. *Journal of Antimicrobial Chemotherapy* **64** (2009): 657-658

- 55 - **Convenient QSAR model for predicting the complexation of structurally diverse compounds with beta-cyclodextrins.** Perez-Garrido, A., Helguera, A.M., Guillen, A.A., Cordeiro, M.N.D.S., Escudero, A.G. *Bioorganic & Medicinal Chemistry* **17** (2009): 896-904
- 56 - **Copper and lead removal by peanut hulls: Equilibrium and kinetic studies.** Oliveira, F.D., Paula, J.H., Freitas, O.M., Figueiredo, S.A. *Desalination* **248** (2009): 931-940
- 57 - **Cross-Functioning between the Extraneuronal Monoamine Transporter and Multidrug Resistance Protein 1 in the Uptake of Adrenaline and Export of 5-(Glutathion-S-yl)adrenaline in Rat Cardiomyocytes.** Costa, V.M., Ferreira, L.M., Branco, P.S., Carvalho, F., Bastos, M.L., Carvalho, R.A., Carvalho, M., Remiao, F. *Chemical Research in Toxicology* **22** (2009): 129-135
- 58 - **Crystal Structure of 2-Thiophenecarboxamide: A One-dimensional Tubular Structure Formed by N-H center dot center dot center dot O Hydrogen Bonds.** Low, J.N., Quesada, A., Santos, L.M.N.B.F., Schroder, B., Gomes, L.R. *Journal of Chemical Crystallography* **39** (2009): 747-752
- 59 - **Crystallization and crystallographic analysis of the apo form of the orange protein (ORP) from *Desulfovibrio gigas*.** Najmudin, S., Bonifacio, C., Duarte, A.G., Pualeta, S.R., Moura, I., Moura, J.J.G., Romao, M.J. *Acta Crystallographica Section F-Structural Biology and Crystallization Communications* **65** (2009): 730-732
- 60 - **Decavanadate interactions with actin: cysteine oxidation and vanadyl formation.** Ramos, S., Duarte, R.O., Moura, J.J.G., Aureliano, M. *Dalton Transactions* (2009): 7985-7994
- 61 - **Degradation of Anthocyanins and Anthocyanidins in Blueberry Jams/Stuffed Fish.** Queiroz, F., Oliveira, C., Pinho, O., Ferreira, I.M.P.L.V.O. *Journal of Agricultural and Food Chemistry* **57** (2009): 10712-10717
- 62 - **Density Functional Study of Proline-Catalyzed Intramolecular Baylis-Hillman Reactions.** Duarte, F.J.S., Cabrita, E.J., Frenking, G., Santos, A.G. *Chemistry-a European Journal* **15** (2009): 1734-1746
- 63 - **Dental erosion in alcoholic patients under addiction rehabilitation therapy.** Manarte, P., Manso, M.C., Souza, D., Frias-Bulhosa, J., Gago, S. *Medicina Oral Patologia Oral Y Cirugia Bucal* **14** (2009): E376-E383
- 64 - **Designing heterogeneous oxovanadium and copper acetylacetonate catalysts: Effect of covalent immobilisation in epoxidation and aziridination reactions.** Pereira, C., Biernacki, K., Rebelo, S.L.H., Magalhaes, A.L., Carvalho, A.P., Pires, J., Freire, C. *Journal of Molecular Catalysis a-Chemical* **312** (2009): 53-64
- 65 - ***Desulfovibrio marrakechensis* sp nov., a 1,4-tyrosol-oxidizing, sulfate-reducing bacterium isolated from olive mill wastewater.** Chamkh, F., Sproer, C., Lemos, P.C., Besson, S., El Asli, A.G., Bennisse, R., Labat, M., Reis, M., Qatibi, A.I. *International Journal of Systematic and Evolutionary Microbiology* **59** (2009): 936-942
- 66 - **Determination of carbamate and urea pesticide residues in fresh vegetables using microwave-assisted extraction and liquid chromatography.** Paiga, P., Morais, S., Correia, M., Delerue-Matos, C., Alves, A. *International Journal of Environmental Analytical Chemistry* **89** (2009): 199-210
- 67 - **Determination of eighty-one volatile organic compounds in dietary *Rumex induratus* leaves by GC/IT-MS, using different extractive techniques.** Taveira, M., de Pinho, P.G., Goncalves, R.F., Andrade, P.B., Valentao, P. *Microchemical Journal* **93** (2009): 67-72

- 68 - **Determination of patulin in apple and quince products by GC-MS using C-13(5-7) patulin as internal standard.** Cunha, S.C., Faria, M.A., Fernandes, J.O. *Food Chemistry* **115** (2009): 352-359
- 69 - **Determination of selenium daily intakes in two small groups of the Portuguese population by replicate sample neutron activation analysis.** Ventura, M.G., Freitas, M.C., Pacheco, A.M.G. *Journal of Radioanalytical and Nuclear Chemistry* **281** (2009): 193-196
- 70 - **Determination of selenium in food matrices by replicate sample neutron activation analysis.** Ventura, M.G., Freitas, M.C., Pacheco, A.M.G. *Journal of Radioanalytical and Nuclear Chemistry* **281** (2009): 197-200
- 71 - **Determination of the surface area and porosity of carbon nanotube bundles from a Langmuirian analysis of sub- and supercritical adsorption data.** Esteves, I.A.A.C., Cruz, F.J.A.L., Muller, E.A., Agnihotri, S., Mota, J.P.B. *Carbon* **47** (2009): 948-956
- 72 - **Determination of ultratrace levels of selenium in fruit and vegetable samples grown and consumed in Portugal.** Ventura, M.G., Stibilj, V., Freitas, M.D., Pacheco, A.M.G. *Food Chemistry* **115** (2009): 200-206
- 73 - **Determination of Vitamin E in Coffee Beans by HPLC Using a Micro-extraction Method.** Alves, R.C., Casal, S., Oliveira, M.B.P.P. *Food Science and Technology International* **15** (2009): 57-63
- 74 - **Development of a sequential injection analysis system for the potentiometric determination of nitrite in meat products by using a Gran's plot method.** Zarate, N., Ruiz, M.P., Perez-Olmos, R., Araujo, A.N., Montenegro, M.C.B.S.M. *Microchimica Acta* **165** (2009): 117-122
- 75 - **Development of Flow Systems by Direct-milling on Poly(methyl methacrylate) Substrates Using UV-Photopolymerization as Sealing Process.** Rodrigues, E.R.G.O., Lapa, R.A.S. *Analytical Sciences* **25** (2009): 443-448
- 76 - **Development of micro-flow devices by direct-milling on poly(methyl methacrylate) substrates with integrated optical detection.** Rodrigues, E.R.G.O., Lapa, R.A.S. *Microchimica Acta* **166** (2009): 189-195
- 77 - **Development of Novel Mesoporous Carbon Materials for the Catalytic Ozonation of Organic Pollutants.** Orge, C.A., Sousa, J.P.S., Goncalves, F., Freire, C., Orfao, J.J.M., Pereira, M.F.R. *Catalysis Letters* **132** (2009): 1-9
- 78 - **Development of pH-responsive poly(methylmethacrylate-co-methacrylic acid) membranes using scCO<sub>2</sub> technology. Application to protein permeation.** Barroso, T., Temtem, M., Casimiro, T., Aguiar-Ricardo, A. *Journal of Supercritical Fluids* **51** (2009): 57-66
- 79 - **Development of PMMA membranes functionalized with hydroxypropyl-beta-cyclodextrins for controlled drug delivery using a supercritical CO<sub>2</sub>-assisted technology.** Temtem, M., Pompeu, D., Jaraquemada, G., Cabrita, E.J., Casimiro, T., Aguiar-Ricardo, A. *International Journal of Pharmaceutics* **376** (2009): 110-115
- 80 - **Dietary lipid level affects growth performance and nutrient utilisation of Senegalese sole (*Solea senegalensis*) juveniles.** Borges, P., Oliveira, B., Casal, S., Dias, J., Conceicao, L., Valente, L.M.P. *British Journal of Nutrition* **102** (2009): 1007-1014
- 81 - **Differential regulation of p53 function by protein kinase C isoforms revealed by a yeast cell system.** Coutinho, I., Pereira, G., Leao, M., Goncalves, J., Corte-Real, M., Saraiva, L. *Febs Letters* **583** (2009): 3582-3588
- 82 - **Direct Covalent Modification as a Strategy to Inhibit Nuclear Factor-Kappa B.** Pande, V., Sousa, S.F., Ramos, M.J. *Current Medicinal Chemistry* **16** (2009): 4261-4273

- 83 - **Discrimination between arabica and robusta coffee species on the basis of their tocopherol profiles.** Alves, R.C., Casal, S., Alves, M.R., Oliveira, M.B. *Food Chemistry* **114** (2009): 295-299
- 84 - **Dispersion of Multidrug-Resistant Enterococcus faecium Isolates Belonging to Major Clonal Complexes in Different Portuguese Settings.** Freitas, A.R., Novais, C., Ruiz-Garbajosa, P., Coque, T.M., Peixe, L. *Applied and Environmental Microbiology* **75** (2009): 4904-4908
- 85 - **Disruption of zebrafish (Danio rerio) embryonic development after full life-cycle parental exposure to low levels of ethinylestradiol.** Soares, J., Coimbra, A.M., Reis-Henriques, M.A., Monteiro, N.M., Vieira, M.N., Oliveira, J.M.A., Guedes-Dias, P., Fontainhas-Fernandes, A., Parra, S.S., Carvalho, A.P., Castro, L.F.C., Santos, M.M. *Aquatic Toxicology* **95** (2009): 330-338
- 86 - **Docking and molecular dynamics studies on the stereoselectivity in the enzymatic synthesis of carbohydrates.** Bras, N.F., Fernandes, P.A., Ramos, M.J. *Theoretical Chemistry Accounts* **122** (2009): 283-296
- 87 - **A dramatic effect of double bond configuration in N-oxy-3-aza Cope rearrangements—a simple synthesis of functionalised allenes.** Pinto, L.F.V., Gloria, P.M.C., Gomes, M.J.S., Rzepa, H.S., Prabhakar, S., Lobo, A.M. *Tetrahedron Letters* **50** (2009): 3446-3449
- 88 - **Dual augmentation for aerobic bioremediation of MTBE and TCE pollution in heavy metal-contaminated soil.** Fernandes, V.C., Albergaria, J.T., Oliva-Teles, T., Delerue-Matos, C., De Marco, P. *Biodegradation* **20** (2009): 375-382
- 89 - **(E)-1-Phenylbutan-2-one (2,4-dinitrophenyl)hydrazone.** Lima, C.F.R.A.C., Gomes, L.R., Santos, L.M.N.B.F., Rodriguez-Borges, J.E., Low, J.N. *Acta Crystallographica Section E-Structure Reports Online* **65** (2009): O2729-U2554
- 90 - **Ecotoxicity tests using the green algae Chlorella vulgaris—A useful tool in hazardous effluents management.** Silva, A., Figueiredo, S.A., Sales, M.G., Delerue-Matos, C. *Journal of Hazardous Materials* **167** (2009): 179-185
- 91 - **Ecstasy-induced oxidative stress to adolescent rat brain mitochondria in vivo: influence of monoamine oxidase type A.** Alves, E., Summavielle, T., Alves, C.J., Custodio, J.B.A., Fernandes, E., Bastos, M.D., Tavares, M.A., Carvalho, F. *Addiction Biology* **14** (2009): 185-193
- 92 - **Effect of a Purification Step and the Type of Internal Standard Used on Fatty Acid Determination of Grass and Maize Silages.** Alves, S.P., Cabrita, A.R.J., Fonseca, A.J.M., Bessa, R.J.B. *Journal of Agricultural and Food Chemistry* **57** (2009): 10793-10797
- 93 - **Effect of anti-inflammatory drugs in phosphatidylcholine membranes: A fluorescence and calorimetric study.** Lucio, M., Nunes, C., Gaspar, D., Golebska, K., Wisniewski, M., Lima, J.L.F.C., Brezesinski, G., Reis, S. *Chemical Physics Letters* **471** (2009): 300-309
- 94 - **The effect of carbon source on the biological reduction of ionic mercury.** Oehmen, A., Fradinho, J., Serra, S., Carvalho, G., Capelo, J.L., Velizarov, S., Crespo, J.G., Reis, M.A.M. *Journal of Hazardous Materials* **165** (2009): 1040-1048
- 95 - **Effect of dietary conjugated linoleic acid isomers on water and glycerol permeability of kidney membranes.** Soveral, G., Martins, A.P., Martins, S.V., Lopes, P.A., Alfaia, C.M., Prates, J.A.M., Moura, T.F. *Biochemical and Biophysical Research Communications* **383** (2009): 108-112

- 96 - **Effect of dietary replacement of sunflower oil with linseed oil on intramuscular fatty acids of lamb meat.** Jeronimo, E., Alves, S.P., Prates, J.A.M., Santos-Silva, J., Bessa, R.J.B. *Meat Science* **83** (2009): 499-505
- 97 - **Effect of Flow Rate of a Biphasic Reaction Mixture on Limonene Hydrogenation in High Pressure CO<sub>2</sub>.** Bogel-Lukasik, E., Bogel-Lukasik, R., da Ponte, M.N. *Industrial & Engineering Chemistry Research* **48** (2009): 7060-7064
- 98 - **Effect of the exchange-correlation potential and of surface relaxation on the description of the H<sub>2</sub>O dissociation on Cu(111).** Fajin, J.L.C., Illas, F., Gomes, J.R.B. *Journal of Chemical Physics* **130** (2009): 8
- 99 - **Effect of the feeding system on intramuscular fatty acids and conjugated linoleic acid isomers of beef cattle, with emphasis on their nutritional value and discriminatory ability.** Alfaia, C.P.M., Alves, S.P., Martins, S.I.V., Costa, A.S.H., Fontes, C.M.G.A., Lemos, J.P.C., Bessa, R.J.B., Prates, J.A.M. *Food Chemistry* **114** (2009): 939-946
- 100 - **The Effect of the Sixth Sulfur Ligand in the Catalytic Mechanism of Periplasmic Nitrate Reductase.** Cerqueira, N.M.F.S.A., Gonzalez, P.J., Brondino, C.D., Romao, M.J., Romao, C.C., Moura, I., Moura, J.J.G. *Journal of Computational Chemistry* **30** (2009): 2466-2484
- 101 - **Effect of Water/Carboxymethylcellulose Gel on the Excimer Formation of Polyamine Ligands Functionalized with Naphthalene.** Rodriguez, L., Delgado-Pinar, E., Sornosa-Ten, A., Alarcon, J., Garcia-Espana, E., Cano, M., Lima, J.C., Pina, F. *Journal of Physical Chemistry B* **113** (2009): 15455-15459
- 102 - **An effective antidote for paraquat poisonings: The treatment with lysine acetylsalicylate.** Dinis-Oliveira, R.J., Pontes, H., Bastos, M.L., Remiao, F., Duarte, J.A., Carvalho, F. *Toxicology* **255** (2009): 187-193
- 103 - **Effects of bacillamide and newly synthesized derivatives on the growth of cyanobacteria and microalgae cultures.** Churro, C., Alverca, E., Sam-Bento, F., Paulino, S., Figueira, V.C., Bento, A.J., Prabhakar, S., Lobo, A.M., Calado, A.J., Pereira, P. *Journal of Applied Phycology* **21** (2009): 429-442
- 104 - **Effects of dietary starch source and buffers on milk responses and rumen fatty acid biohydrogenation in dairy cows fed maize silage-based diets.** Cabrita, A.R.J., Vale, J.M.P., Bessa, R.J.B., Dewhurst, R.J., Fonseca, A.J.M. *Animal Feed Science and Technology* **152** (2009): 267-277
- 105 - **Effects of Different Phenols Extraction Conditions on Antioxidant Activity of Almond (Prunus Dulcis) Fruits.** Barreira, J.C.M., Ferreira, I.C.F.R., Oliveira, M.B.P.P., Pereira, J.A. *Journal of Food Biochemistry* **33** (2009): 763-776
- 106 - **Effects of ECF-Kraft pulp mill effluent treated with fungi (Rhizopus oryzae) on reproductive steroids and liver CYP1A of exposed goldfish (Carassius auratus).** Diniz, M.S., Peres, I., Castro, L., Freitas, A.C., Rocha-Santos, T.A.P., Costa, P.M., Pereira, R., Duarte, A.C. *Ecotoxicology* **18** (2009): 1011-1017
- 107 - **Effects of strictosamide on mouse brain and kidney Na<sup>+</sup>,K<sup>+</sup>-ATPase and Mg<sup>2+</sup>-ATPase activities.** Candeias, M.F., Abreu, P., Pereira, A., Cruz-Morais, J. *Journal of Ethnopharmacology* **121** (2009): 117-122
- 108 - **Electrochemical oxidation of the synthetic anthocyanin analogue 4-methyl-7,8-dihydroxyflavylium salt.** Moncada, M.C., de Mesquita, M.F., dos Santos, M.M.C. *Journal of Electroanalytical Chemistry* **636** (2009): 60-67
- 109 - **Electrochromism of Crystal Violet Lactone in the presence of Fe(III)/Fe(II) redox pair.** Pinheiro, C., Parola, A.J., Pina, F., Laia, C.A.T. *Electrochimica Acta* **54** (2009): 5593-5597

- 110 - **Electrospray ionization tandem mass spectrometry fragmentation of protonated flavone and flavonol aglycones: a re-examination.** Justino, G.C., Borges, C.M., Florencio, M.H. *Rapid Communications in Mass Spectrometry* **23** (2009): 237-248
- 111 - **Emulsifying behaviour and rheological properties of the extracellular polysaccharide produced by *Pseudomonas oleovorans* grown on glycerol byproduct.** Freitas, F., Alves, V.D., Carvalheira, M., Costa, N., Oliveira, R., Reis, M.A.M. *Carbohydrate Polymers* **78** (2009): 549-556
- 112 - **Enantioselective Epoxidation of Alkenes by Jacobsen Catalyst Anchored onto Aminopropyl-functionalised Laponite, MCM-41 and FSM-16.** Das, P., Silva, A.R., Carvalho, A.P., Pires, J., Freire, C. *Catalysis Letters* **129** (2009): 367-375
- 113 - **Energetic and Structural Study of Diphenylpyridine Isomers.** Rocha, M.A.A., Gomes, L.R., Low, J.N., Santos, L.M.N.B.F. *Journal of Physical Chemistry A* **113** (2009): 11015-11027
- 114 - **Enzymatic Determination of Glucose in Milk Samples by Sequential Injection Analysis.** Araujo, A.N., Lima, J.L.F.C., Pinto, P., Saraiva, M.L.M.F.S. *Analytical Sciences* **25** (2009): 687-692
- 115 - **EPR studies of the Mo-enzyme aldehyde oxidoreductase from *Desulfovibrio gigas*: An application of the Bloch-Wangsness-Redfield theory to a system containing weakly-coupled paramagnetic redox centers with different relaxation rates.** Gonzalez, P.J., Barrera, G.I., Rizzi, A.C., Moura, J.J.G., Passeggi, M.C.G., Brondino, C.D. *Journal of Inorganic Biochemistry* **103** (2009): 1342-1346
- 116 - **ER stress-inducible factor CHOP affects the expression of Hecpudin by modulating C/EBPalpha activity.** Oliveira, S., Pinto, J.P., Picarote, G., Costa, V.M., Carvalho, F., Azevedo, J.E., Rangel, M., Sousa, M., Almeida, S.F. *PLoS ONE* **4** (2009): e6618
- 117 - **Esterification of fatty acids to biodiesel over polymers with sulfonic acid groups.** Caetano, C.S., Guerreiro, L., Fonseca, I.M., Ramos, A.M., Vital, J., Castanheiro, J.E. *Applied Catalysis a-General* **359** (2009): 41-46
- 118 - **Esterification of glycerol with acetic acid over dodecamolybdophosphoric acid encaged in USY zeolite.** Ferreira, P., Fonseca, I.M., Ramos, A.M., Vital, J., Castanheiro, J.E. *Catalysis Communications* **10** (2009): 481-484
- 119 - **Estimation of postmortem interval by hypoxanthine and potassium evaluation in vitreous humor with a sequential injection system.** Passos, M.L.C., Santos, A.M., Pereira, A.I., Santos, J.R., Santos, A.J.C., Saraiva, M.L.M.F.S., Lima, J.L.F.C. *Talanta* **79** (2009): 1094-1099
- 120 - **Ethnopharmacological notes about ancient uses of medicinal plants in Tras-os-Montes (northern of Portugal).** Neves, J.M., Matos, C., Moutinho, C., Queiroz, G., Gomes, L.R. *Journal of Ethnopharmacology* **124** (2009): 270-283
- 121 - **Evaluation of Formaldehyde in Foundry Waste Sands Using Liquid Chromatography.** Oliva-Teles, M.T., Paiga, P., Delerue-Matos, C.M., Alvim-Ferraz, M.C.M. *Analytical Letters* **42** (2009): 492-504
- 122 - **Evaluation of free radical-scavenging and antihemolytic activities of quince (*Cydonia oblonga*) leaf: A comparative study with green tea (*Camellia sinensis*).** Costa, R.M., Magalhaes, A.S., Pereira, J.A., Andrade, P.B., Valentao, P., Carvalho, M., Silva, B.M. *Food and Chemical Toxicology* **47** (2009): 860-865
- 123 - **Evaluation of Heavy Metals Pollution Loadings in the Sediments of the Ave River Basin (Portugal).** Alves, C.M., Boaventura, R.R.A.R., Soares, H.M.V.M. *Soil & Sediment Contamination* **18** (2009): 603-618

- 124 - **Evidences of turbulent mixing in multi-pumping flow systems.** Fortes, P.R., Feres, M.A., Sasaki, M.K., Alves, E.R., Zagatto, E.A.G., Prior, J.A.V., Santos, J.L.M., Lima, J.L.F.C. *Talanta* **79** (2009): 978-983
- 125 - **Evolution of Brassica rapa var. rapa L. volatile composition by HS-SPME and GC/IT-MS.** Taveira, M., Fernandes, F., de Pinho, P.G., Andrade, P.B., Pereira, J.A., Valentao, P. *Microchemical Journal* **93** (2009): 140-146
- 126 - **Exploiting anionic and cationic interactions with a new emissive imine-based beta-naphthol molecular probe.** Fernandes, L., Boucher, M., Fernandez-Lodeiro, J., Oliveira, E., Nunez, C., Santos, H.M., Capelo, J.L., Faza, O.N., Bertolo, E., Lodeiro, C. *Inorganic Chemistry Communications* **12** (2009): 905-912
- 127 - **Exploiting pi-acceptors for the determination of thyroid hormones (T3 and T4) using a single interface flow system.** Silvestre, C.I.C., Santos, J.L.M., Lima, J.L.F.C., Zagatto, E.A.G. *Talanta* **79** (2009): 1177-1180
- 128 - **Exploiting Pulsed Flows for Heating Improvement: Application to Determination of Total Reducing Sugars in Molasses and Sugar-Cane Juices.** Alves, E.R., Feres, M.A., Zagatto, E.A.G., Lima, J.L.F.C. *Current Analytical Chemistry* **5** (2009): 65-69
- 129 - **Exploiting the oxidative coupling reaction of MBTH for indapamide determination.** Ribeiro, D.S.M., Prior, J.A.V., Santos, J.L.M., Lopes, J.A., Lima, J.L.F.C. *Talanta* **79** (2009): 1161-1168
- 130 - **Extraction, purification and characterization of galactomannans from non-traditional sources.** Cerqueira, M.A., Pinheiro, A.C., Souza, B.W.S., Lima, A.M.P., Ribeiro, C., Miranda, C., Teixeira, J.A., Moreira, R.A., Coimbra, M.A., Goncalves, M.P., Vicente, A.A. *Carbohydrate Polymers* **75** (2009): 408-414
- 131 - **Facilitated transport of CO<sub>2</sub> and SO<sub>2</sub> through Supported Ionic Liquid Membranes (SILMs).** Luis, P., Neves, L.A., Afonso, C.A.M., Coelho, I.M., Crespo, J.G., Garea, A., Irabien, A. *Desalination* **245** (2009): 485-493
- 132 - **Family 6 carbohydrate-binding modules display multiple beta 1,3-linked glucan-specific binding interfaces.** Correia, M.A.S., Pires, V.M.R., Gilbert, H.J., Bolam, D.N., Fernandes, V.O., Alves, V.D., Prates, J.A.M., Ferreira, L.M.A., Fontes, C.M.G.A. *Fems Microbiology Letters* **300** (2009): 48-57
- 133 - **Fast analysis of multiple pesticide residues in apple juice using dispersive liquid-liquid microextraction and multidimensional gas chromatography-mass spectrometry.** Cunha, S.C., Fernandes, J.O., Oliveira, M.B.P.P. *Journal of Chromatography A* **1216** (2009): 8835-8844
- 134 - **Fast low-pressure gas chromatography-mass spectrometry method for the determination of multiple pesticides in grapes, musts and wines.** Cunha, S.C., Fernandes, J.O., Alves, A., Oliveira, M.B.P.P. *Journal of Chromatography A* **1216** (2009): 119-126
- 135 - **Fatty acid composition of wild edible mushrooms species: A comparative study.** Ribeiro, B., de Pinho, P.G., Andrade, P.B., Baptista, P., Valentao, P. *Microchemical Journal* **93** (2009): 29-35
- 136 - **Ficus carica L.: Metabolic and biological screening.** Oliveira, A.P., Valentao, P., Pereira, J.A., Silva, B.M., Tavares, F., Andrade, P.B. *Food and Chemical Toxicology* **47** (2009): 2841-2846
- 137 - **Flash photolysis and stopped flow studies of the 2'-methoxyflavylium network in aq. acidic and alkaline solution.** Petrov, V., Gomes, R., Parola, A.J., Pina, F. *Dyes and Pigments* **80** (2009): 149-155

- 138 - **Flavoured versus natural waters: Macromineral (Ca, Mg, K, Na) and micromineral (Fe, Cu, Zn) contents.** Barroso, M.F., Silva, A., Ramos, S., Oliva-Teles, M.T., Delerue-Matos, C., Sales, M.G.F., Oliveira, M.B.P.P. *Food Chemistry* **116** (2009): 580-589
- 139 - **Flow injection based methods for fast screening of antioxidant capacity.** Magalhaes, L.M., Santos, M., Segundo, M.A., Reis, S., Lima, J.L.F.C. *Talanta* **77** (2009): 1559-1566
- 140 - **Fluorescence Quenching as a Tool to Investigate Quinolone Antibiotic Interactions with Bacterial Protein OmpF.** Neves, P., Sousa, I., Winterhalter, M., Gameiro, P. *Journal of Membrane Biology* **227** (2009): 133-140
- 141 - **Fold-Unfold Transitions in the Selectivity and Mechanism of Action of the N-Terminal Fragment of the Bactericidal/Permeability-Increasing Protein (rBPI(21)).** Domingues, M.M., Lopes, S.C.D.N., Santos, N.C., Quintas, A., Castanho, M.A.R.B. *Biophysical Journal* **96** (2009): 987-996
- 142 - **Food safety practices in a Portuguese canteen.** Veiros, M.B., Proenca, R.P.C., Santos, M.C.T., Kent-Smith, L., Rocha, A. *Food Control* **20** (2009): 936-941
- 143 - **Free Water-Soluble Phenolics Profiling in Barley (*Hordeum vulgare* L.).** Ferreres, F., Krskova, Z., Goncalves, R.F., Valentao, P., Pereira, J.A., Dusek, J., Martin, J., Andrade, P.B. *Journal of Agricultural and Food Chemistry* **57** (2009): 2405-2409
- 144 - **Fundamentals and Health Benefits of Xanthohumol, a Natural Product Derived from Hops and Beer.** Magalhaes, P.J., Carvalho, D.O., Cruz, J.M., Guido, L.F., Barros, A.A. *Natural Product Communications* **4** (2009): 591-610
- 145 - **Galantamine modulates the recovery from desensitization of nicotinic receptors in TE 671 cells.** Popescu, A., Ganea, C., Moura, T., Bicho, A. *Romanian Biotechnological Letters* **14** (2009): 4104-4118
- 146 - **Gas-Phase Geometry Optimization of Biological Molecules as a Reasonable Alternative to a Continuum Environment Description: Fact, Myth, or Fiction?** Sousa, S.F., Fernandes, P.A., Ramos, M.J. *Journal of Physical Chemistry A* **113** (2009): 14231-14236
- 147 - **GC Determination of Acetone, Acetaldehyde, Ethanol, and Methanol in Biological Matrices and Cell Culture.** Pontes, H., Pinho, P.G., Casal, S., Carmo, H., Santos, A., Magalhaes, T., Remiao, F., Carvalho, F., Bastos, M.L. *Journal of Chromatographic Science* **47** (2009): 272-278
- 148 - **General FRET-based coding for application in multiplexing methods.** Giestas, L., Petrov, V., Baptista, P.V., Lima, J.C. *Photochemical & Photobiological Sciences* **8** (2009): 1130-1138
- 149 - **Glutathione transferase A1-1: catalytic role of water.** Dourado, D.F.A.R., Fernandes, P.A., Ramos, M.J. *Theoretical Chemistry Accounts* **124** (2009): 71-83
- 150 - **Glycerol acetylation over dodecatungstophosphoric acid immobilized into a silica matrix as catalyst.** Ferreira, P., Fonseca, I.M., Ramos, A.M., Vital, J., Castanheiro, J.E. *Applied Catalysis B-Environmental* **91** (2009): 416-422
- 151 - **Grafting of vanadyl acetylacetonate onto organo-hexagonal mesoporous silica and catalytic activity in the allylic epoxidation of geraniol.** Jarrais, B., Pereira, C., Silva, A.R., Carvalho, A.P., Pires, J., Freire, C. *Polyhedron* **28** (2009): 994-1000
- 152 - **Green photocatalytic synthesis of stable Au and Ag nanoparticles.** Quaresma, P., Soares, L., Contar, L., Miranda, A., Osorio, I., Carvalho, P.A., Franco, R., Pereira, E. *Green Chemistry* **11** (2009): 1889-1893
- 153 - **Health Benefits of Coffee: Myth or Reality?** Alves, R.C., Casal, S., Oliveira, B. *Quimica Nova* **32** (2009): 2169-2180

- 154 - **Heterocyclic Aromatic Amine Formation in Barbecued Sardines (*Sardina pilchardus*) and Atlantic Salmon (*Salmo salar*)**. Costa, M., Viegas, O., Melo, A., Petisca, C., Pinho, O., Ferreira, I.M.P.L.V.O. *Journal of Agricultural and Food Chemistry* **57** (2009): 3173-3179
- 155 - **High-pressure NMR characterization of triacetyl-beta-cyclodextrin in supercritical carbon dioxide**. Ivanova, G.I., Vao, E.R., Temtem, M., Aguiar-Ricardo, A., Casimiro, T., Cabrita, E.J. *Magnetic Resonance in Chemistry* **47** (2009): 133-141
- 156 - **High-pressure phase behaviour of binary (CO<sub>2</sub> + nicotine) and ternary (CO<sub>2</sub> + nicotine plus solanesol) mixtures**. Ruiz-Rodriguez, A., Najdanovic-Visak, V., Visak, Z.P., Bronze, M.D., Antunes, C., da Ponte, M.N. *Fluid Phase Equilibria* **282** (2009): 58-64
- 157 - **Honey from Luso region (Portugal): Physicochemical characteristics and mineral contents**. Silva, L.R., Videira, R., Monteiro, A.P., Valentao, P., Andrade, P.B. *Microchemical Journal* **93** (2009): 73-77
- 158 - **Host-Guest Interactions between Molecular Clips and Multistate Systems Based on Flavylum Salts**. Gomes, R., Parola, A.J., Bastkowski, F., Polkowska, J., Klärner, F.G. *Journal of the American Chemical Society* **131** (2009): 8922-8938
- 159 - **How bad is accelerated senescence in consumers of drugs of abuse?** Carvalho, F. *Adicciones* **21** (2009): 99-104
- 160 - Gomes, J.A.N.F., Vieira, E.S. How to Improve the Citation Impact of a Paper: Choice of Journal, Co-authors and Institutional Addresses. in "Proceedings of Issi 2009 - 12th International Conference of the International Society for Scientometrics and Informetrics, Vol 1". Ed. B. Larsen, J. Leta. Int Soc Scientometrics & Informetrics-Issi, 2009. 31-39
- 161 - **Hydrolysis of sucrose using sulfonated poly(vinyl alcohol) as catalyst**. Pito, D.S., Fonseca, I.M., Ramos, A.M., Vital, J., Castanheiro, J.E. *Bioresource Technology* **100** (2009): 4546-4550
- 162 - **Improved HPLC methodology for food control - furfurals and patulin as markers of quality**. Gaspar, E.M.S.M., Lucena, A.F.F. *Food Chemistry* **114** (2009): 1576-1582
- 163 - **Improved loquat (*Eriobotrya japonica* Lindl.) cultivars: Variation of phenolics and antioxidative potential**. Ferreres, F., Gomes, D., Valentao, P., Goncalves, R., Pio, R., Chagas, E.A., Seabra, R.M., Andrade, P.B. *Food Chemistry* **114** (2009): 1019-1027
- 164 - **In Situ 2D Fluorometry and Chemometric Monitoring of Mammalian Cell Cultures**. Teixeira, A.P., Portugal, C.A.M., Carinhas, N., Dias, J.M.L., Crespo, J.P., Alves, P.M., Carrondo, M.J.T., Oliveira, R. *Biotechnology and Bioengineering* **102** (2009): 1098-1106
- 165 - **In Situ Mitochondrial Ca<sup>2+</sup> Buffering Differences of Intact Neurons and Astrocytes from Cortex and Striatum**. Oliveira, J.M.A., Goncalves, J. *Journal of Biological Chemistry* **284** (2009): 5010-5020
- 166 - **In Vitro Cultures of Brassica oleracea L. var. costata DC: Potential Plant Bioreactor for Antioxidant Phenolic Compounds**. Taveira, M., Pereira, D.M., Sousa, C., Ferreres, F., Andrade, P.B., Martins, A., Pereira, J.A., Valentao, P. *Journal of Agricultural and Food Chemistry* **57** (2009): 1247-1252
- 167 - **In Vitro Protective Effect of Hypericum androsaemum Extract Against Oxygen and Nitrogen Reactive Species**. Almeida, I.F., Fernandes, E., Lima, J.L.F.C., Costa, P.C., Bahia, M.F. *Basic & Clinical Pharmacology & Toxicology* **105** (2009): 222-227
- 168 - **Indirect Sequential Injection Enzymatic Determination of Allopurinol in Pharmaceuticals Based on Xanthine Oxidase Inhibition**. Silvestre, C.I.C., Segundo, M.A., Saraiva, M.L.M.F.S., Lima, J.L.F.C. *Spectroscopy Letters* **42** (2009): 341-350

- 169 - **Inductive and Resonance Effects on the Acidities of Phenol, Enols, and Carbonyl alpha-Hydrogens.** Silva, P.J. *Journal of Organic Chemistry* **74** (2009): 914-916
- 170 - **Inferring Disease Mechanisms from Epidemiological Data in Chronic Kidney Disease: Calcium and Phosphorus Metabolism.** Pires, A., Adragao, T., Pais, M.J., Vinhas, J., Ferreira, H.G. *Nephron Clinical Practice* **112** (2009): C137-C147
- 171 - **Influence of droplet properties on the formation of microemulsion-ABA-triblock copolymer networks.** Sarraguca, J.M.G., Pais, A.A.C.C., Linse, P. *Soft Matter* **5** (2009): 140-147
- 172 - **Influence of feeding strategies of mixed microbial cultures on the chemical composition and microstructure of copolyesters P(3HB-co-3HV) analyzed by NMR and statistical analysis.** Ivanova, G., Serafim, L.S., Lemos, P.C., Ramos, A.M., Reis, M.A.M., Cabrita, E.J. *Magnetic Resonance in Chemistry* **47** (2009): 497-504
- 173 - **Influence of step sites in the molecular mechanism of the water gas shift reaction catalyzed by copper.** Fajin, J.L.C., Cordeiro, M.N.D.S., Illas, F., Gomes, J.R.B. *Journal of Catalysis* **268** (2009): 131-141
- 174 - **Influence of tobacco smoke on carcinogenic PAH composition in indoor PM10 and PM2.5.** Slezakova, K., Castro, D., Pereira, M.C., Morais, S., Delerue-Matos, C., Alvim-Ferraz, M.C. *Atmospheric Environment* **43** (2009): 6376-6382
- 175 - **Integrated Analytical Study for the Authentication of Five Russian Icons (XVI-XVII centuries).** Sandu, I.C.A., Bracci, S., Sandu, I., Lobefaro, M. *Microscopy Research and Technique* **72** (2009): 755-765
- 176 - **Interfacing multisyringe flow injection analysis to flame atomic emission spectrometry: an intelligent system for automatic sample dilution and determination of potassium.** Almeida, M.I.G.S., Segundo, M.A., Lima, J.L.F.C., Rangel, A.O.S.S. *Journal of Analytical Atomic Spectrometry* **24** (2009): 340-346
- 177 - **Intracellular pH regulation in human Sertoli cells: role of membrane transporters.** Oliveira, P.F., Sousa, M., Barros, A., Moura, T., da Costa, A.R. *Reproduction* **137** (2009): 353-359
- 178 - **Intrinsically photochromic ionic liquids.** Branco, L.C., Pina, F. *Chemical Communications* (2009): 6204-6206
- 179 - **Isolation and characterization of a new Cu-Fe protein from *Desulfovibrio aminophilus* DSM12254.** Rivas, M.G., Mota, C.S., Pauleta, S.R., Carepo, M.S.P., Folgosa, F., Andrade, S.L.A., Fauque, G., Pereira, A.S., Tavares, P., Calvete, J.J., Moura, I., Moura, J.J.G. *Journal of Inorganic Biochemistry* **103** (2009): 1314-1322
- 180 - **Jacobsen catalyst anchored onto modified carbon xerogel as enantioselective heterogeneous catalyst for alkene epoxidation.** Maia, F., Mahata, N., Jarrais, B., Silva, A.R., Pereira, M.F.R., Freire, C., Figueiredo, J.L. *Journal of Molecular Catalysis a-Chemical* **305** (2009): 135-141
- 181 - **K10-Montmorillonite as Support for a Cationic Manganese(III)-salen Complex.** Kuzniarska-Biernacka, I., Pereira, C., Carvalho, A.P., Pires, J., Freire, C. *Journal of the Brazilian Chemical Society* **20** (2009): 1320-1326
- 182 - **Kinetic, Structural, and EPR Studies Reveal That Aldehyde Oxidoreductase from *Desulfovibrio gigas* Does Not Need a Sulfido Ligand for Catalysis and Give Evidence for a Direct Mo-C Interaction in a Biological System.** Santos-Silva, T., Ferroni, F., Thapper, A., Marangon, J., Gonzalez, P.J., Rizzi, A.C., Moura, I., Moura, J.J.G., Romao, M.J., Brondino, C.D. *Journal of the American Chemical Society* **131** (2009): 7990-7998

- 183 - **Leakage into Portuguese aquatic environments of extended-spectrum-beta-lactamase-producing Enterobacteriaceae.** Machado, E., Coque, T.M., Canton, R., Sousa, J.C., Silva, D., Ramos, M., Rocha, J., Ferreira, H., Peixe, L. *Journal of Antimicrobial Chemotherapy* **63** (2009): 616-618
- 184 - **Lipid characteristics and essential minerals of native Turkish hazelnut varieties (*Corylus avellana* L.).** Alasalvar, C., Amaral, J.S., Satir, G., Shahidi, F. *Food Chemistry* **113** (2009): 919-925
- 185 - **Lipoprotein(a) Levels in Obese Portuguese Children and Adolescents: Contribution of the Pentanucleotide Repeat (TTTTA)<sub>n</sub> Polymorphism in the Apolipoprotein(a) Gene.** Nascimento, H., Silva, L.L., Lourenco, P., Vieira, E., dos Santos, R., Rego, C., Ferreira, H., Quintanilha, A., Santos-Silva, A., Belo, L. *Archives of Pediatrics & Adolescent Medicine* **163** (2009): 393-394
- 186 - **Liquid crystalline cellulose derivative elastomer films under uniaxial strain.** Godinho, M.H., Filip, D., Costa, I., Carvalho, A.L., Figueirinhas, J.L., Terentjev, E.M. *Cellulose* **16** (2009): 199-205
- 187 - **Liquid-liquid extraction in flow analysis: A critical review.** Silvestre, C.I.C., Santos, J.L.M., Lima, J.L.F.C., Zagatto, E.A.G. *Analytica Chimica Acta* **652** (2009): 54-65
- 188 - **Luminescent and chromogenic molecular probes based on polyamines and related compounds.** Lodeiro, C., Pina, F. *Coordination Chemistry Reviews* **253** (2009): 1353-1383
- 189 - **Machine learning of chemical reactivity from databases of organic reactions.** Carrera, G.V.S.M., Gupta, S., Aires-de-Sousa, J. *Journal of Computer-Aided Molecular Design* **23** (2009): 419-429
- 190 - **MADAMM: A multistaged docking with an automated molecular modeling protocol.** Cerqueira, N.M.F.S.A., Bras, N.F., Fernandes, P.A., Ramos, M.J. *Proteins-Structure Function and Bioinformatics* **74** (2009): 192-206
- 191 - **MCM-41 anchored manganese salen complexes as catalysts for limonene oxidation.** Oliveira, P., Machado, A., Ramos, A.M., Fonseca, I., Fernandes, F.M.B., do Rego, A.M.B., Vital, J. *Microporous and Mesoporous Materials* **120** (2009): 432-440
- 192 - **Membrane Transporters and Cytoplasmatic pH Regulation on Bovine Sertoli Cells.** Oliveira, P., Sousa, M., Barros, A., Moura, T., Rebelo da Costa, A. *Journal of Membrane Biology* **227** (2009): 49-55
- 193 - **Mercury fatal intoxication: Two case reports.** Triunfante, P., Soares, M.E., Santos, A., Tavares, S., Carmo, H., Bastos, M.L. *Forensic Science International* **184** (2009): 1-6
- 194 - **Metabolic and Bioactivity Insights into Brassica oleracea var. acephala.** Ferreres, F., Fernandes, F., Sousa, C., Valentao, P., Pereira, J.A., Andrade, P.B. *Journal of Agricultural and Food Chemistry* **57** (2009): 8884-8892
- 195 - **Metabolic fate of dietary volatile compounds in Pieris brassicae.** Fernandes, F., Pereira, D.M., de Pinho, P.G., Valentao, P., Pereira, J.A., Bento, A., Andrade, P.B. *Microchemical Journal* **93** (2009): 99-109
- 196 - **Metabolic profiling and biological capacity of Pieris brassicae fed with kale (*Brassica oleracea* L. var. acephala).** Ferreres, F., Fernandes, F., Oliveira, J.M.A., Valentao, P., Pereira, J.A., Andrade, P.B. *Food and Chemical Toxicology* **47** (2009): 1209-1220
- 197 - **Metabolites of MDMA Induce Oxidative Stress and Contractile Dysfunction in Adult Rat Left Ventricular Myocytes.** Shenouda, S.K., Varner, K.J., Carvalho, F., Lucchesi, P.A. *Cardiovascular Toxicology* **9** (2009): 30-38

- 198 - **Methoxylation of alpha-pinene over poly(vinyl alcohol) containing sulfonic acid groups.** Pito, D.S., Fonseca, I.M., Ramos, A.M., Vital, J., Castanheiro, J.E. *Chemical Engineering Journal* **147** (2009): 302-306
- 199 - **Microinjection of Angiotensin in the Caudal Ventrolateral Medulla Induces Hyperalgesia.** Marques-Lopes, J., Pinto, M., Pinho, D., Morato, M., Patinha, D., Albino-Teixeira, A., Tavares, I. *Neuroscience* **158** (2009): 1301-1310
- 200 - **MICROINJECTION OF ANGIOTENSIN II IN THE CAUDAL VENTROLATERAL MEDULLA INDUCES HYPERALGESIA.** Marques-Lopes, J., Pinto, M., Pinho, D., Morato, M., Patinha, D., Albino-Teixeira, A., Tavares, I. *Neuroscience* **158** (2009): 1301-1310
- 201 - **Microwave-assisted 1,3-dipolar cycloaddition reactions of vinylic glycosides with aryl azides - unexpected synthesis of triazoles and acetyl group migration.** Andrade, M.M., Barros, M.T. *Arkivoc* (2009): 299-306
- 202 - **Microwave-Enhanced Synthesis of Novel Pyridinone-Fused Porphyrins.** Silva, A.M.G., Castro, B., Rangel, M., Silva, A.M.S., Brandao, P., Felix, V., Cavaleiro, J.A.S. *Synlett* (2009): 1009-1013
- 203 - **Mixing chambers in flow analysis: A review.** Zagatto, E.A.G., Carneiro, J.M.T., Vicente, S., Fortes, P.R., Santos, J.L.M., Lima, J.L.F.C. *Journal of Analytical Chemistry* **64** (2009): 524-532
- 204 - **Modeling the PAO-GAO competition: Effects of carbon source, pH and temperature.** Lopez-Vazquez, C.M., Oehmen, A., Hooijmans, C.M., Brdjanovic, D., Gijzen, H.J., Yuan, Z.G., van Loosdrecht, M.C.M. *Water Research* **43** (2009): 450-462
- 205 - **Modeling, Structural, and Spectroscopic Studies of Lanthanide-Organic Frameworks.** Rodrigues, M.O., Paz, F.A.A., Freire, R.O., de Sa, G.F., Galembeck, A., Montenegro, M.C.B.S.M., Araujo, A.N., Alves, S. *Journal of Physical Chemistry B* **113** (2009): 12181-12188
- 206 - **Modelling beta-1,3-exoglucanase-saccharide interactions: Structure of the enzyme-substrate complex and enzyme binding to the cell wall.** Moura-Tamames, S.A., Ramos, M.J., Fernandes, P.A. *Journal of Molecular Graphics & Modelling* **27** (2009): 908-920
- 207 - **Modulation of electroactive polymer film dynamics by metal ion complexation and redox switching.** Tedim, J., Freire, C., Hillman, A.R. *Soft Matter* **5** (2009): 2603-2613
- 208 - **Molecular and Cellular Mechanisms of Ecstasy-Induced Neurotoxicity: An Overview.** Capela, J.P., Carmo, H., Remiao, F., Bastos, M.L., Meisel, A., Carvalho, F. *Molecular Neurobiology* **39** (2009): 210-271
- 209 - **The molecular dissociation of formaldehyde at medium photoexcitation energies: A quantum chemistry and direct quantum dynamics study.** Araujo, M., Lasorne, B., Magalhaes, A.L., Worth, G.A., Bearpark, M.J., Robb, M.A. *Journal of Chemical Physics* **131** (2009):
- 210 - **Molecular Dynamics of Ethylene Glycol Dimethacrylate Glass Former: Influence of Different Crystallization Pathways.** Viciosa, M.T., Correia, N.T., Sanchez, M.S., Ribelles, J.L.G., Dionisio, M. *Journal of Physical Chemistry B* **113** (2009): 14196-14208
- 211 - **Molecular Dynamics Simulation of the Early Stages of the Synthesis of Periodic Mesoporous Silica.** Jorge, M., Gomes, J.R.B., Cordeiro, M.N.D.S., Seaton, N.A. *Journal of Physical Chemistry B* **113** (2009): 708-718
- 212 - **Molecular dynamics simulations of mouse ferrochelatase variants: what distorts and orientates the porphyrin?** Szeftczyk, B., Cordeiro, M.N.D.S., Franco, R., Gomes, J.A.N.F. *Journal of Biological Inorganic Chemistry* **14** (2009): 1119-1128

- 213 - **Molecular dynamics simulations on the critical states of the farnesyltransferase enzyme.** Sousa, S.F., Fernandes, P.A., Ramos, M.J. *Bioorganic & Medicinal Chemistry* **17** (2009): 3369-3378
- 214 - **Molybdenum and tungsten enzymes: a crystallographic and mechanistic overview.** Romao, M.J. *Dalton Transactions* (2009): 4053-4068
- 215 - **Molybdenum Induces the Expression of a Protein Containing a New Heterometallic Mo-Fe Cluster in *Desulfovibrio alaskensis*.** Rivas, M.G., Carepo, M.S.P., Mota, C.S., Korbas, M., Durand, M.C., Lopes, A.T., Brondino, C.D., Pereira, A.S., George, G.N., Dolla, A., Moura, J.J.G., Moura, I. *Biochemistry* **48** (2009): 873-882
- 216 - **More Sustainable Approaches for the Synthesis of N-Based Heterocycles.** Candeias, N.R., Branco, L.C., Gois, P.M.P., Afonso, C.A.M., Trindade, A.F. *Chemical Reviews* **109** (2009): 2703-2802
- 217 - **MSPD Method to Determine Acrylamide in Food.** Soares, C.M.D., Fernandes, J.O. *Food Analytical Methods* **2** (2009): 197-203
- 218 - **Multi-criteria design optimization study of solvent extraction in mixer-settler units.** Pinto, G.A., Gomes, E.F., Durao, F.O., Madureira, C.M.N., Guimaraes, M.M.B.L., Morais, S. *Hydrometallurgy* **98** (2009): 224-234
- 219 - **Multisyringe flow injection analysis system for automation of standard addition calibration method.** Santos, J.R., Segundo, M.A., Lima, J.L.F.C., Korn, M. *Microchemical Journal* **92** (2009): 180-185
- 220 - **Multisyringe flow injection system for solid-phase extraction coupled to liquid chromatography using monolithic column for screening of phenolic pollutants.** Oliveira, H.M., Segundo, M.A., Lima, J.L.F.C., Cerda, V. *Talanta* **77** (2009): 1466-1472
- 221 - **Multi-syringe flow-injection systems improve antioxidant assessment.** Magalhaes, L.M., Ribeiro, J.P.N., Segundo, M.A., Reis, S., Lima, J.L.F.C. *Trac-Trends in Analytical Chemistry* **28** (2009): 952-960
- 222 - **Multi-target QPDR classification model for human breast and colon cancer-related proteins using star graph topological indices.** Munteanu, C.R., Magalhaes, A.L., Uriarte, E., Gonzalez-Diaz, H. *Journal of Theoretical Biology* **257** (2009): 303-311
- 223 - **4-(1-Naphthyl)benzoic acid.** Lima, C., Gomes, L.R., Santos, L.M.N.B.F., Low, J.N. *Acta Crystallographica Section E-Structure Reports Online* **65** (2009): O3037-U3119
- 224 - **Nephrotoxicity effects of the wood preservative chromium copper arsenate on mice: Histopathological and quantitative approaches.** Matos, R.C., Vieira, C., Morais, S., Pereira, M.D., Pedrosa, J. *Journal of Trace Elements in Medicine and Biology* **23** (2009): 224-230
- 225 - **Nephrotoxicity of CCA-treated wood: A comparative study with AS(2)O(5) and CrO3 on mice.** Matos, R.C., Vieira, C., Morais, S., Pereira, M.D., de Jesus, J.P. *Environmental Toxicology and Pharmacology* **27** (2009): 259-263
- 226 - **New chemosensors based on thiomacrocyclic-containing coumarin-343 fluoroionophor: X-ray structures and previous results on the effect of cation binding on the photophysical properties.** Santos, H.M., Pedras, B., Tamayo, A., Casabo, J., Escriche, L., Covelo, B., Capelo, J.L., Lodeiro, C. *Inorganic Chemistry Communications* **12** (2009): 1128-1134
- 227 - **New tripodal hydroxypyridinone based chelating agents for Fe(III), Al(III) and Ga(III): Synthesis, physico-chemical properties and bioevaluation.** Grazina, R., Gano, L., Sebestik, J., Santos, M.A. *Journal of Inorganic Biochemistry* **103** (2009): 262-273

- 228 - **A new tripodal poly-imine indole-containing ligand: Synthesis, complexation, spectroscopic and theoretical studies.** Pedras, B., Oliveira, E., Santos, H., Rodriguez, L., Crehuet, R., Aviles, T., Capelo, J.L., Lodeiro, C. *Inorganica Chimica Acta* **362** (2009): 2627-2635
- 229 - **Nitrate removal in a closed marine system through the ion exchange membrane bioreactor.** Matos, C.T., Sequeira, A.M., Velizarov, S., Crespo, J.G., Reis, M.A.M. *Journal of Hazardous Materials* **166** (2009): 428-434
- 230 - **Novel 3-hydroxy-4-pyridinonato oxidovanadium(IV) complexes to investigate structure/activity relationships.** Rangel, M., Amorim, M.J., Nunes, A., Leite, A., Pereira, E., de Castro, B., Sousa, C., Yoshikawa, Y., Sakurai, H. *Journal of Inorganic Biochemistry* **103** (2009): 496-502
- 231 - **A novel nitrite biosensor based on conductometric electrode modified with cytochrome c nitrite reductase composite membrane.** Zhang, Z.Q., Xia, S.Q., Leonard, D., Jaffrezic-Renault, N., Zhang, J., Bessueille, F., Goepfert, Y., Wang, X.J., Chen, L., Zhu, Z.L., Zhao, J.F., Almeida, M.G., Silveira, C.M. *Biosensors & Bioelectronics* **24** (2009): 1574-1579
- 232 - **Nutritional, Fatty Acid and Triacylglycerol Profiles of *Castanea sativa* Mill. Cultivars: A Compositional and Chemometric Approach.** Barreira, J.C.M., Casal, S., Ferreira, I.C.F.R., Oliveira, M.B.P.P., Pereira, J.A. *Journal of Agricultural and Food Chemistry* **57** (2009): 2836-2842
- 233 - **On the Electronic Structure of Cocaine and its Metabolites.** Rincon, D.A., Cordeiro, M.N.D.S., Mosquera, R.A. *Journal of Physical Chemistry A* **113** (2009): 13937-13942
- 234 - **On the Mechanism of Photochromism of 4'-N,N-Dimethylamino-7-hydroxyflavylium in Pluronic F127.** Gomes, R., Laia, C.A.T., Pina, F. *Journal of Physical Chemistry B* **113** (2009): 11134-11146
- 235 - **On-Line Adaptive Metabolic Flux Analysis: Application to PHB Production by Mixed Microbial Cultures.** Dias, J., Pardelha, F., Eusebio, M., Reis, M.A.M., Oliveira, R. *Biotechnology Progress* **25** (2009): 390-398
- 236 - **On-line monitoring of PHB production by mixed microbial cultures using respirometry, titrimetry and chemometric modelling.** Dias, J.M.L., Pardelha, F., Eusebio, M., Reis, M.A.M., Oliveira, R. *Process Biochemistry* **44** (2009): 419-427
- 237 - **Optical probes for detection and quantification of neutrophils' oxidative burst. A review.** Freitas, M., Lima, J.L.F.C., Fernandes, E. *Analytica Chimica Acta* **649** (2009): 8-23
- 238 - **Optimization of Cu(II) biosorption onto *Ascophyllum nodosum* by factorial design methodology.** Freitas, O., Delerue-Matos, C., Boaventura, R. *Journal of Hazardous Materials* **167** (2009): 449-454
- 239 - **Optimization of experimental settings for the analysis of human neutrophils oxidative burst in vitro.** Freitas, M., Porto, G., Lima, J.L.F.C., Fernandes, E. *Talanta* **78** (2009): 1476-1483
- 240 - **Optimization of matrix solid-phase dispersion extraction method for the analysis of isoflavones in *Trifolium pratense*.** Visnevschi-Necrasov, T., Cunha, S.C., Nunes, E., Oliveira, M.B.P.P. *Journal of Chromatography A* **1216** (2009): 3720-3724
- 241 - **Organic metabolites in exhaled human breath-A multivariate approach for identification of biomarkers in lung disorders.** Gaspar, E.M., Lucena, A.F., da Costa, J.D., das Neves, H.C. *Journal of Chromatography A* **1216** (2009): 2749-2756

- 242 - **Organo-functionalized mesoporous supports for Jacobsen-type catalyst: Laponite versus MCM-41.** Das, P., Silva, A.R., Carvalho, A.P., Pires, J., Freire, C. *Journal of Materials Science* **44** (2009): 2865-2875
- 243 - **Outer membrane cytochrome c, OmcF, from Geobacter sulfurreducens: High structural similarity to an algal cytochrome c(6).** Pokkuluri, R.R., Londer, Y.Y., Wood, S.J., Duke, N.E.C., Morgado, L., Salgueiro, C.A., Schiffer, M. *Proteins-Structure Function and Bioinformatics* **74** (2009): 266-270
- 244 - **Overview on modern approaches to speed up protein identification workflows relying on enzymatic cleavage and mass spectrometry-based techniques.** Capelo, J.L., Carreira, R., Diniz, M., Fernandes, L., Galesio, M., Lodeiro, C., Santos, H.M., Vale, G. *Analytica Chimica Acta* **650** (2009): 151-159
- 245 - **Oxygen and Nitrogen Reactive Species Are Effectively Scavenged by Eucalyptus globulus Leaf Water Extract.** Almeida, I.F., Fernandes, E., Lima, J., Valentao, P., Andrade, P.B., Seabra, R.M., Costa, P.C., Bahia, M.F. *Journal of Medicinal Food* **12** (2009): 175-183
- 246 - **The P2Y(1) and P2Y(12) receptors mediate autoinhibition of transmitter release in sympathetic innervated tissues.** Quintas, C., Fraga, S., Goncalves, J., Queiroz, G. *Neurochemistry International* **55** (2009): 505-513
- 247 - **Phase equilibrium-controlled chemical reaction kinetics in high pressure carbon dioxide.** da Ponte, M.N. *Journal of Supercritical Fluids* **47** (2009): 344-350
- 248 - **Phenolics Metabolism in Insects: Pieris brassicae-Brassica oleracea var. costata Ecological Duo.** Ferreres, F., Fernandes, F., Pereira, D.M., Pereira, J.A., Valentao, P., Andrade, P.B. *Journal of Agricultural and Food Chemistry* **57** (2009): 9035-9043
- 249 - **Phenolics: From Chemistry to Biology.** Pereira, D.M., Valentao, P., Pereira, J.A., Andrade, P.B. *Molecules* **14** (2009): 2202-2211
- 250 - **Photochemistry of 7-Hydroxy-2-(4-hydroxystyryl)-1-benzopyrylium and Related Compounds.** Diniz, A.M., Gomes, R., Parola, A.J., Laia, C.A.T., Pina, F. *Journal of Physical Chemistry B* **113** (2009): 719-727
- 251 - **Photochromism of 7,4'-Dihydroxyflavylium in an AOT Reversed Micelle System.** Petrov, V., Laia, C.A.T., Pina, F. *Langmuir* **25** (2009): 594-601
- 252 - **Physical-chemical and electrical characterizations of membranes modified with room temperature ionic liquids: Age effect.** Bijani, S., Fortunato, R., de Yuso, M.V.M., Heredia-Guerrero, F.A., Rodriguez-Castellon, E., Coehloso, I., Crespo, J., Benavente, J. *Vacuum* **83** (2009): 1283-1286
- 253 - **Phytochemical characterization and radical scavenging activity of Portulaca oleraceae L. leaves and stems.** Oliveira, I., Valentao, P., Lopes, R., Andrade, P.B., Bento, A., Pereira, J.A. *Microchemical Journal* **92** (2009): 129-134
- 254 - **Pieris brassicae Inhibits Xanthine Oxidase.** Sousa, C., Pereira, D.M., Valentao, P., Ferreres, F., Pereira, J.A., Seabra, R.M., Andrade, P.B. *Journal of Agricultural and Food Chemistry* **57** (2009): 2288-2294
- 255 - **Polyelectrolyte compaction by pH-responsive agents.** Jorge, A.F., Sarraguca, J.M.G., Dias, R.S., Pais, A.A.C.C. *Physical Chemistry Chemical Physics* **11** (2009): 10890-10898
- 256 - **Postharvest culture in the dark: An eco-friendly alternative to alkali treatment for enhancing the gel quality of kappa/iota-hybrid carrageenan from Chondrus crispus (Gigartinales, Rhodophyta).** Villanueva, R.D., Hilliou, L., Sousa-Pinto, I. *Bioresource Technology* **100** (2009): 2633-2638

- 257 - **Postmortem Analyses Unveil the Poor Efficacy of Decontamination, Anti-Inflammatory and Immunosuppressive Therapies in Paraquat Human Intoxications.** Dinis-Oliveira, R.J., de Pinho, P.G., Santos, L., Teixeira, H., Magalhaes, T., Santos, A., Bastos, M.D., Remiao, F., Duarte, J.A., Carvalho, F. *Plos One* **4** (2009): 13
- 258 - **Preliminary structural characterization of human SOUL, a haem-binding protein.** Freire, F., Romao, M.J., Macedo, A.L., Aveiro, S.S., Goodfellow, B.J., Carvalho, A.L. *Acta Crystallographica Section F-Structural Biology and Crystallization Communications* **65** (2009): 723-726
- 259 - **Presynaptic Adenosine and P2Y Receptors and Their Role on Modulation of Neurotransmitter Release.** Queiroz, G., Gonclaves, J. *Journal of Physiological Sciences* **59** (2009): 107-107
- 260 - **The prominent conformational plasticity of lactoperoxidase: A chemical and pH stability analysis.** Boscolo, B., Leal, S.S., Salgueiro, C.A., Ghibaudi, E.M., Gomes, C.M. *Biochimica Et Biophysica Acta-Proteins and Proteomics* **1794** (2009): 1041-1048
- 261 - **Protective effect of quince (*Cydonia oblonga* Miller) fruit against oxidative hemolysis of human erythrocytes.** Magalhaes, A.S., Silva, B.M., Pereira, J.A., Andrade, P.B., Valentao, P., Carvalho, M. *Food and Chemical Toxicology* **47** (2009): 1372-1377
- 262 - **Pt- and Pd-catalysed limonene hydrogenation in high-density carbon dioxide.** Bogel-Lukasik, E., Bogel-Lukasik, R., da Ponte, M.N. *Monatshefte Fur Chemie* **140** (2009): 1361-1369
- 263 - **QSAR and complex network study of the chiral HMGR inhibitor structural diversity.** Garcia, I., Munteanu, C.R., Fall, Y., Gomez, G., Uriarte, E., Gonzalez-Diaz, H. *Bioorganic & Medicinal Chemistry* **17** (2009): 165-175
- 264 - **QSPR Modelling With the Topological Substructural Molecular Design Approach: beta-Cyclodextrin Complexation.** Perez-Garrido, A., Helguera, A.M., Cordeiro, M.N.D.S., Escudero, A.G. *Journal of Pharmaceutical Sciences* **98** (2009): 4557-4576
- 265 - **Quality control of pharmaceuticals with NIR: From lab to process line.** Sarraguca, M.C., Lopes, J.A. *Vibrational Spectroscopy* **49** (2009): 204-210
- 266 - **Quantitative monitoring of an activated sludge reactor using on-line UV-visible and near-infrared spectroscopy.** Sarraguca, M.C., Paulo, A., Alves, M.M., Dias, A.M.A., Lopes, J.A., Ferreira, E.C. *Analytical and Bioanalytical Chemistry* **395** (2009): 1159-1166
- 267 - **Rapid chemiluminometric determination of gabapentin in pharmaceutical formulations exploiting pulsed-flow analysis.** Manera, M., Miro, M., Ribeiro, M.F.T., Estelaa, J.M., Cerda, V., Santos, J.L.M., Lima, J.L.F.C. *Luminescence* **24** (2009): 10-14
- 268 - **Rapid Determination of Tartaric Acid in Wines.** Bastos, S.S.T., Tafulo, P.A.R., Queiros, R.B., Matos, C.D., Sales, M.G.F. *Combinatorial Chemistry & High Throughput Screening* **12** (2009): 712-722
- 269 - **Real-Time Monitoring of Molecular Dynamics of Ethylene Glycol Dimethacrylate Glass Former.** Viciosa, M.T., Correia, N.T., Sanchez, M.S., Carvalho, A.L., Romao, M.J., Ribelles, J.L.G., Dionisio, M. *Journal of Physical Chemistry B* **113** (2009): 14209-14217
- 270 - **Recovery of polyhydroxybutyrate (PHB) from *Cupriavidus necator* biomass by solvent extraction with 1,2-propylene carbonate.** Fiorese, M.L., Freitas, F., Pais, J., Ramos, A.M., de Aragao, G.M.F., Reis, M.A.M. *Engineering in Life Sciences* **9** (2009): 454-461
- 271 - **Red Wine Protects against Ethanol-Induced Oxidative Stress in Rat Liver.** Assuncao, M., Santos-Marques, M.J., Monteiro, R., Azevedo, I., Andrade, J.P., Carvalho, F., Martins, M.J. *Journal of Agricultural and Food Chemistry* **57** (2009): 6066-6073

- 272 - **Removal of heavy metals using a brewer's yeast strain of *Saccharomyces cerevisiae*: advantages of using dead biomass.** Machado, M.D., Janssens, S., Soares, H.M.V.M., Soares, E.V. *Journal of Applied Microbiology* **106** (2009): 1792-1804
- 273 - Vieira, E.S., Nouws, H.P.A., Albergaria, J.T., Matos, C.D., Gomes, J.A.N.F. Research Quality Indicators for Brazilian, Portuguese and Spanish Universities. in "Proceedings of Issi 2009 - 12th International Conference of the International Society for Scientometrics and Informetrics, Vol 2". Ed. B. Larsen, J. Leta. Int Soc Scientometrics & Informetrics-Issi, 2009. 1000-1001
- 274 - **Response to the comment on "Modelling the PAO-GAO competition: Effects of carbon source, pH and temperature" by Dwight Houweling et al.** van Loosdrecht, M.C.M., Oehmen, A., Hooijmans, C.M., Brdjanovic, D., Gijzen, H.J., Yuan, Z.G., Lopez-Vazquez, C.M. *Water Research* **43** (2009): 2950-2951
- 275 - **Rheological and structural characterization of gels from whey protein hydrolysates/locust bean gum mixed systems.** Rocha, C., Teixeira, J.A., Hilliou, L., Sampaio, P., Goncalves, M.P. *Food Hydrocolloids* **23** (2009): 1734-1745
- 276 - **Ring-Functionalized Molybdenocene Complexes.** Honzicek, J., Mukhopadhyay, A., Santos-Silva, T., Romao, M.J., Romao, C.C. *Organometallics* **28** (2009): 2871-2879
- 277 - **Robustness of sludge enriched with short SBR cycles for biological nutrient removal.** Freitas, F., Temudo, M.F., Carvalho, G., Oehmen, A., Reis, M.A.M. *Bioresource Technology* **100** (2009): 1969-1976
- 278 - **The Role of Preadsorbed Atomic Hydrogen in the NO Dissociation on a Zigzag Stepped Gold Surface: A DFT Study.** Fajin, J.L.C., Cordeiro, M.N.D.S., Gomes, J.R.B. *Journal of Physical Chemistry C* **113** (2009): 8864-8877
- 279 - **Role of the Variable Active Site Residues in the Function of Thioredoxin Family Oxidoreductases.** Carvalho, A.T.P., Fernandes, P.A., Swart, M., van Stralen, J.N.P., Bickelhaupt, F.M., Ramos, M.J. *Journal of Computational Chemistry* **30** (2009): 710-724
- 280 - **Rubredoxin as a paramagnetic relaxation-inducing probe.** Almeida, R.M., Pauleta, S.R., Moura, I., Moura, J.J.G. *Journal of Inorganic Biochemistry* **103** (2009): 1245-1253
- 281 - **Rumen biohydrogenation-derived fatty acids in milk fat from grazing dairy cows supplemented with rapeseed, sunflower, or linseed oils.** Rego, O.A., Alves, S.P., Antunes, L.M.S., Rosa, H.J.D., Alfaia, C.F.M., Prates, J.A.M., Cabrita, A.R.J., Fonseca, A.J.M., Bessa, R.J.B. *Journal of Dairy Science* **92** (2009): 4530-4540
- 282 - **Screening of Antioxidant Phenolic Compounds Produced by In Vitro Shoots of *Brassica oleracea* L. var. *costata* DC.** Ferreres, F., Sousa, C., Pereira, D.M., Valentao, P., Taveira, M., Martins, A., Pereira, J.A., Seabra, R.M., Andrade, P.B. *Combinatorial Chemistry & High Throughput Screening* **12** (2009): 230-240
- 283 - **Screening of Carbamates and Ureas in Fresh and Processed Tomato Samples using Microwave-Assisted Extraction and Liquid Chromatography.** Paiga, P., Morais, S., Correia, M., Alves, A., Delerue-Matos, C. *Analytical Letters* **42** (2009): 265-283
- 284 - **The Search for the Mechanism of the Reaction Catalyzed by Farnesyltransferase.** Sousa, S.F., Fernandes, P.A., Ramos, M.J. *Chemistry-a European Journal* **15** (2009): 4243-4247
- 285 - **Selective activation of protein kinase C-delta and -epsilon by 6,11,12,14-tetrahydroxyabieta-5,8,11,13-tetraene-7-one (coleon U).** Coutinho, I., Pereira, G., Simoes, M.F., Corte-Real, M., Goncalves, J., Saraiva, L. *Biochemical Pharmacology* **78** (2009): 449-459

- 286 - **Separation of biohydrogen by supported ionic liquid membranes.** Neves, L.A., Nemestothy, N., Alves, V.D., Cserjesi, P., Belafi-Bako, K., Coelho, I.M. *Desalination* **240** (2009): 311-315
- 287 - **Sequential injection fluorimetric determination of Sn in juices of canned fruits.** Morte, E.S.B., Korn, M.G.A., Saraiva, M.L.M.F.S., Lima, J.L.F.C., Pinto, P.C.A.G. *Talanta* **79** (2009): 1100-1103
- 288 - **Sequential injection spectrophotometric determination of V(V) in environmental polluted waters.** Silva, E.S., Pinto, P.C.A.G., Lima, J.L.F.C., Lucia, M., Saraiva, M.F.S. *Water Sa* **35** (2009): 283-287
- 289 - **Sequential injection system for phospholipase A(2) activity evaluation: Studies on liposomes using an environment-sensitive fluorescent probe.** Araujo, A.R.T.S., Gaspar, D., Lucio, M., Reis, S., Saraiva, M.L.M.F.S., Lima, J.L.F.C. *Talanta* **79** (2009): 1125-1129
- 290 - **Simple Determination of Deoxycholic and Ursodeoxycholic Acids by Phenolphthalein-beta-Cyclodextrin Inclusion Complex.** Cadena, P.G., Oliveira, E.C., Araujo, A.N., Montenegro, M.C.B.S.M., Pimentel, M.C.B., Lima, J.L., Silva, V.L. *Lipids* **44** (2009): 1063-1070
- 291 - **Simple gas chromatographic method for furfural analysis.** Gaspar, E.M.S.M., Lopes, J.F. *Journal of Chromatography A* **1216** (2009): 2762-2767
- 292 - **Simultaneous Potentiometric Determination of Thiamine and Pyridoxine in Multivitamins Using a Single Cyclodextrin-Based Thiamine-Selective Electrode.** Pires, A.R., Araujo, A.N., Lopes, J.A., Montenegro, M.C.B.S.M. *Analytical Letters* **42** (2009): 1923-1939
- 293 - **Slow Molecular Mobility in the Amorphous Solid State of Fructose: Fragility and Aging.** Correia, N.T., Diogo, H.P., Ramos, J.J.M. *Journal of Food Science* **74** (2009): E526-E533
- 294 - **Solution properties of an exopolysaccharide from a Pseudomonas strain obtained using glycerol as sole carbon source.** Hilliou, L., Freitas, F., Oliveira, R., Reis, M.A.M., Lespineux, D., Grandfils, C., Alves, V.D. *Carbohydrate Polymers* **78** (2009): 526-532
- 295 - **Solution structure of hirsutellin A - new insights into the active site and interacting interfaces of ribotoxins.** Viegas, A., Herrero-Galan, E., Onaderra, M., Macedo, A.L., Bruix, M. *Febs Journal* **276** (2009): 2381-2390
- 296 - **Solvent effects on the absorption and emission of [Re(R(2)bpy)(CO)(3)X] complexes and their sensitivity to CO<sub>2</sub> in solution.** Rodriguez, L., Ferrer, M., Rossell, O., Duarte, F.J.S., Santos, A.G., Lima, J.C. *Journal of Photochemistry and Photobiology a-Chemistry* **204** (2009): 174-182
- 297 - **Specific Supramolecular Interactions between Zn<sup>2+</sup>-Salophen Complexes and Biologically Relevant Anions.** Cano, M., Rodriguez, L., Lima, J.C., Pina, F., Cort, A.D., Pasquini, C., Schiaffino, L. *Inorganic Chemistry* **48** (2009): 6229-6235
- 298 - **Spectrophotometric FIA methods for determination of hydrogen peroxide: Application to evaluation of scavenging capacity.** Ribeiro, J.P.N., Segundo, M.A., Reis, S., Lima, J.L.F.C. *Talanta* **79** (2009): 1169-1176
- 299 - **Stereoselectivity of the aza-Diels-Alder reaction between cyclopentadiene and protonated phenylethylimine derived from glyoxylates. A density functional theory study.** Teixeira, F., Rodriguez-Borges, J.E., Melo, A., Cordeiro, M.N.D.S. *Chemical Physics Letters* **477** (2009): 60-64
- 300 - **Structural and mechanical characterization of kappa/iota-hybrid carrageenan gels in potassium salt using Fourier Transform rheology.** Hilliou, L., Wilhelm, M., Yamanoi, M., Goncalves, M.P. *Food Hydrocolloids* **23** (2009): 2322-2330

- 301 - **Studies on dissolution of carbohydrates in ionic liquids and extraction from aqueous phase.** Rosatella, A.A., Branco, L.C., Afonso, C.A.M. *Green Chemistry* **11** (2009): 1406-1413
- 302 - **Studies on the molecular recognition between bioactive peptides and angiotensin-converting enzyme.** Pina, A.S., Roque, A.C.A. *Journal of Molecular Recognition* **22** (2009): 162-168
- 303 - **Study of the antibacterial effects of chitosans on *Bacillus cereus* (and its spores) by atomic force microscopy imaging and nanoindentation.** Fernandes, J.C., Eaton, P., Gomes, A.M., Pintado, M.E., Malcata, F.X. *Ultramicroscopy* **109** (2009): 854-860
- 304 - **Study of the slow batch pyrolysis of mixtures of plastics, tyres and forestry biomass wastes.** Paradela, F., Pinto, F., Ramos, A.M., Gulyurtlu, I., Cabrita, I. *Journal of Analytical and Applied Pyrolysis* **85** (2009): 392-398
- 305 - **A study on red lead degradation in a medieval manuscript *Lorvao Apocalypse (1189)*.** Miguel, C., Claro, A., Goncalves, A.P., Muralha, V.S.F., Melo, M.J. *Journal of Raman Spectroscopy* **40** (2009): 1966-1973
- 306 - **Study on selectivity of beta-myrcene hydrogenation in high-pressure carbon dioxide catalysed by noble metal catalysts.** Bogel-Lukasik, E., da Silva, M.G., Nogueira, I.D., Bogel-Lukasik, R., da Ponte, M.N. *Green Chemistry* **11** (2009): 1847-1856
- 307 - **Sulfadiazine-Potentiometric Sensors for Flow and Batch Determinations of Sulfadiazine in Drugs and Biological Fluids.** Kamel, A.H., Almeida, S.A.A., Sales, M.G.F., Moreira, F.T.C. *Analytical Sciences* **25** (2009): 365-371
- 308 - **Supercritical CO<sub>2</sub> generating chitosan devices with controlled morphology. Potential application for drug delivery and mesenchymal stem cell culture.** Temtem, M., Silva, L.M.C., Andrade, P.Z., dos Santos, F., da Silva, C.L., Cabral, J.M.S., Abecasis, M.M., Aguiar-Ricardo, A. *Journal of Supercritical Fluids* **48** (2009): 269-277
- 309 - **Supercritical fluid extraction of lipids from spent coffee grounds.** Couto, R.M., Fernandes, J., da Silva, M.D.R.G., Simoes, P.C. *Journal of Supercritical Fluids* **51** (2009): 159-166
- 310 - **Survey of trace elements (Al, As, Cd, Cr, Co, Hg, Mn, Ni, Pb, Se, and Si) in retail samples of flavoured and bottled waters.** Barroso, M.F., Ramos, S., Oliva-Teles, M.T., Delerue-Matos, C., Sales, M.G.F., Oliveira, M.B.P.P. *Food Additives & Contaminants Part B-Surveillance* **2** (2009): 121-130
- 311 - **Sustainable membrane-based process for valorisation of cork boiling wastewaters.** Teixeira, A.R.S., Santos, J.L.C., Crespo, J.G. *Separation and Purification Technology* **66** (2009): 35-44
- 312 - **Synthesis and antioxidant properties of new chromone derivatives.** Gomes, A., Neuwirth, O., Freitas, M., Couto, D., Ribeiro, D., Figueiredo, A.G.P.R., Silva, A.M.S., Seixas, R.S.G.R., Pinto, D.C.G.A., Tome, A.C., Cavaleiro, J.A.S., Fernandes, E., Lima, J.L.F.C. *Bioorganic & Medicinal Chemistry* **17** (2009): 7218-7226
- 313 - **Synthesis and characterization of Co and Ni complexes stabilized by keto- and acetamide-derived P,O-type phosphine ligands.** Agostinho, M., Rosa, V., Aviles, T., Welter, R., Braunstein, P. *Dalton Transactions* (2009): 814-822
- 314 - **Synthesis and characterization of novel indole-containing half-crowns as new emissive metal probes.** Rocha, A., Marques, M.M.B., Lodeiro, C. *Tetrahedron Letters* **50** (2009): 4930-4933

- 315 - **Synthesis and evaluation of new thienyl and bithienyl-bis-indolylmethanes as colorimetric sensors for anions.** Batista, R.M.F., Oliveira, E., Nunez, C., Costa, S.P.G., Lodeiro, C., Raposo, M.M.M. *Journal of Physical Organic Chemistry* **22** (2009): 362-366
- 316 - **The synthesis and reaction network of 2-styryl-1-benzopyrylium salts: An unexploited class of potential colorants.** Gomes, R., Diniz, A.M., Jesus, A., Parola, A.J., Pina, F. *Dyes and Pigments* **81** (2009): 69-79
- 317 - **Synthesis and Structural Characterization of Two Diastereoisomers of Vinylcatechin Dimers.** Cruz, L., Bras, N.F., Teixeira, N., Fernandes, A., Mateus, N., Ramos, M.J., Rodriguez-Borges, J., de Freitas, V. *Journal of Agricultural and Food Chemistry* **57** (2009): 10341-10348
- 318 - **Synthesis, characterization and spectroscopic studies of two new schiff-base bithienyl pendant-armed 15-crown-5 molecular probes.** Pedras, B., Fernandes, L., Oliveira, E., Rodriguez, L., Raposo, M.M.M., Capelo, J.L., Lodeiro, C. *Inorganic Chemistry Communications* **12** (2009): 79-85
- 319 - **Synthesis, characterization, and fluorescence behavior of four novel macrocyclic emissive ligands containing a flexible 8-hydroxyquinoline unit.** Nunez, C., Bastida, R., Macias, A., Bertolo, E., Fernandes, L., Capelo, J.L., Lodeiro, C. *Tetrahedron* **65** (2009): 6179-6188
- 320 - **Synthesis, structural characterization and conformational aspects of thenoylthiocarbamic-O-alkylesters.** Gomes, L.R., Low, J.N., Quesada, A., Santos, L.M.N.B.F., Rocha, M.A.A., Schroder, B. *Journal of Molecular Structure* **936** (2009): 37-45
- 321 - **Targeted Metabolite Analysis and Biological Activity of *Pieris brassicae* Fed with *Brassica rapa* var. *rapa*.** Pereira, D.M., Noites, A., Valentao, P., Ferreres, F., Pereira, J.A., Vale-Silva, L., Pinto, E., Andrade, P.B. *Journal of Agricultural and Food Chemistry* **57** (2009): 483-489
- 322 - **Targeted metabolite analysis of *Catharanthus roseus* and its biological potential.** Pereira, D.M., Ferreres, F., Oliveira, J., Valentao, P., Andrade, P.B., Sottomayor, M. *Food and Chemical Toxicology* **47** (2009): 1349-1354
- 323 - **The tetraheme cytochrome from *Shewanella oneidensis* MR-1 shows thermodynamic bias for functional specificity of the hemes.** Fonseca, B.M., Saraiva, I.H., Paquete, C.M., Soares, C.M., Pacheco, I., Salgueiro, C.A., Louro, R.O. *Journal of Biological Inorganic Chemistry* **14** (2009): 375-385
- 324 - **Theoretical Prediction of Antiproliferative Activity against Murine Leukemia Tumor Cell Line (L1210). 3D-Morse Descriptor and its Application in Computational Chemistry).** Saiz-Urra, L., Perez-Castillo, Y., Gonzalez, M.P., Ruiz, R.M., Cordeiro, M., Rodriguez-Borges, J.E., Garcia-Mera, X. *Qsar & Combinatorial Science* **28** (2009): 98-110
- 325 - **Theoretical study of cocaine and ecgonine methyl ester in gas phase and in aqueous solution.** Rincon, D.A., Cordeiro, M.N.D.S., Mosquera, R.A., Borges, F. *Chemical Physics Letters* **467** (2009): 249-254
- 326 - **Thermodynamic characterization of the redox centres in a representative domain of a novel c-type multiheme cytochrome.** Morgado, L., Fernandes, A.R., Londer, Y.Y., Pokkuluri, P.R., Schiffer, M., Salgueiro, C.A. *Biochemical Journal* **420** (2009): 485-492
- 327 - **Thermodynamics of adsorption of light alkanes and alkenes in single-walled carbon nanotube bundles.** Cruz, F.J.A.L., Mota, J.P.B. *Physical Review B* **79** (2009):
- 328 - **Thermogravimetric study of the thermal degradation of solid and liquid organic carbon-containing products.** Lygina, E.S., Dmitruk, A.F., Galushko, L.Y., Lyubchik, S.B., Tret'yakov, V.F. *Solid Fuel Chemistry* **43** (2009): 177-192

- 329 - **Tocopherols in espresso coffee: Analytical method development and validation.** Alves, R.C., Casal, S., Oliveira, M.B.P.P. *Food Chemistry* **115** (2009): 1549-1555
- 330 - **Tolerance and Stress Response of *Macrolepota procera* to Nickel.** Baptista, P., Ferreira, S., Soares, E., Coelho, V., Bastos, M.D. *Journal of Agricultural and Food Chemistry* **57** (2009): 7145-7152
- 331 - **A TOPological Sub-structural Molecular Design (TOPS-MODE)-QSAR approach for modeling the antiproliferative activity against murine leukemia tumor cell line (L1210).** Molina-Ruiz, R., Saiz-Urra, L., Rodriguez-Borges, J.E., Perez-Castillo, Y., Gonzalez, M.P., Garcia-Mera, X., Cordeiro, M.N.D.S. *Bioorganic & Medicinal Chemistry* **17** (2009): 537-547
- 332 - **Total lead and its stable isotopes in the digestive gland of *Octopus vulgaris* as a fingerprint.** Raimundo, J., Vale, C., Caetano, M., Cesario, R., Moura, I. *Aquatic Biology* **6** (2009): 25-30
- 333 - **Towards understanding phosphonoacetaldehyde hydrolase: an alternative mechanism involving proton transfer that triggers P-C bond cleavage.** Szefczyk, B. *Chemical Communications* **35** (2009): 4162-4164
- 334 - **Toxicokinetics of Waterborne Trivalent Arsenic in the Freshwater Bivalve *Corbicula fluminea*.** Costa, P.M., Santos, H.M., Peres, I., Costa, M.H., Alves, S., Capelo-Martinez, J.L., Diniz, M.S. *Archives of Environmental Contamination and Toxicology* **57** (2009): 338-347
- 335 - **Toxicological evaluation on human colon carcinoma cell line (CaCo-2) of ionic liquids based on imidazolium, guanidinium, ammonium, phosphonium, pyridinium and pyrrolidinium cations.** Frade, R.F.M., Rosatella, A.A., Marques, C.S., Branco, L.C., Kulkarni, P.S., Mateus, N.M.M., Afonso, C.A.M., Duarte, C.M.M. *Green Chemistry* **11** (2009): 1660-1665
- 336 - **Tuning of functional heme reduction potentials in *Shewanella fumarate* reductases.** Pessanha, M., Rothery, E.L., Miles, C.S., Reid, G.A., Chapman, S.K., Louro, R.O., Turner, D.L., Salgueiro, C.A., Xavier, A.V. *Biochimica Et Biophysica Acta-Bioenergetics* **1787** (2009): 113-120
- 337 - **Use and Reuse of SPE Disks for the Determination of Pyrethroids in Water by GC-ECD.** Domingues, V., Cabral, M., Alves, A., Delerue-Matos, C. *Analytical Letters* **42** (2009): 706-726
- 338 - **Use of Fourier transform infrared spectroscopy and chemometrics to discriminate clinical isolates of bacteria of the *Burkholderia cepacia* complex from different species and ribopatterns.** Coutinho, C.P., Sa-Correia, I., Lopes, J.A. *Analytical and Bioanalytical Chemistry* **394** (2009): 2161-2171
- 339 - **The use of net analyte signal (NAS) in near infrared spectroscopy pharmaceutical applications: Interpretability and figures of merit.** Sarraguca, M.C., Lopes, J.A. *Analytica Chimica Acta* **642** (2009): 179-185
- 340 - **Using microbial fatty acids to improve understanding of the contribution of solid associated bacteria to microbial mass in the rumen.** Bessa, R.J.B., Maia, M.R.G., Jeronimo, E., Belo, A.T., Cabrita, A.R.J., Dewhurst, R.J., Fonseca, A.J.M. *Animal Feed Science and Technology* **150** (2009): 197-206
- 341 - **Vapour-liquid equilibrium for beta-myrcene and carbon dioxide and/or hydrogen and the volume expansion of beta-myrcene or limonene in CO<sub>2</sub> at 323.15 K.** Bogel-Lukasik, E., Szudarska, A., Bogel-Lukasik, R., da Ponte, M.N. *Fluid Phase Equilibria* **282** (2009): 25-30

- 342 - **A variable temperature spectroscopic study on Paracoccus pantotrophus pseudoazurin: Protein constraints on the blue Cu site.** Xie, X.J., Hadt, R.G., Pauleta, S.R., Gonzalez, P.J., Un, S., Moura, I., Solomon, E.I. *Journal of Inorganic Biochemistry* **103** (2009): 1307-1313
- 343 - **Viscoelastic characterization of benzo-crown ether functionalized electroactive films.** Tedim, J., Freire, C., Hillman, A.R. *Physical Chemistry Chemical Physics* **11** (2009): 268-277
- 344 - **Vitamin E Profile as a Reliable Authenticity Discrimination Factor between Chestnut (Castanea sativa Mill.) Cultivars.** Barreira, J.C.M., Alves, R.C., Casal, S., Ferreira, I.C.F.R., Oliveira, M.B.P.P., Pereira, J.A. *Journal of Agricultural and Food Chemistry* **57** (2009): 5524-5528
- 345 - **Volatile composition of Brassica oleracea L. var. costata DC leaves using solid-phase microextraction and gas chromatography/ion trap mass spectrometry.** de Pinho, P.G., Valentao, P., Goncalves, R.F., Sousa, C., Seabra, R.M., Andrade, P.B. *Rapid Communications in Mass Spectrometry* **23** (2009): 2292-2300
- 346 - **Volatile composition of Catharanthus roseus (L.) G. Don using solid-phase microextraction and gas chromatography/mass spectrometry.** De Pinho, P.G., Goncalves, R.F., Valentao, P., Pereira, D.M., Seabra, R.M., Andrade, P.B., Sottomayor, M. *Journal of Pharmaceutical and Biomedical Analysis* **49** (2009): 674-685
- 347 - **Volatile Constituents of Ocimum minimum Herb Cultivated in Portugal.** Skalicka-Wozniak, K., Ludwiczuk, A., Widelski, J., Filipe, J.J., Asakawa, Y., Glowniak, K. *Natural Product Communications* **4** (2009): 1383-1386
- 348 - **Volatile Constituents throughout Brassica oleracea L. Var. acephala Germination.** Fernandes, F., de Pinho, P.G., Valentao, P., Pereira, J.A., Andrade, P.B. *Journal of Agricultural and Food Chemistry* **57** (2009): 6795-6802
- 349 - **Volatile fraction of DOP "Castelo Branco" cheese: Influence of breed.** Ferreira, I.M.P.L.V.O., Pinho, O., Sampaio, P. *Food Chemistry* **112** (2009): 1053-1059
- 350 - **Volatile Profile and Sensory Characteristics of Creams Used as Fillers of Bakery Products: Home Made Egg Creams Vs Industrial Creams.** Ramos, B., Pinho, O., Ferreira, I.M.P.L.V.O. *Italian Journal of Food Science* **21** (2009): 255-268
- 351 - **Water extracts of Brassica oleracea var. costata potentiate paraquat toxicity to rat hepatocytes in vitro.** Sousa, C., Pontes, H., Carmo, H., Dinis-Oliveira, R.J., Valentao, P., Andrade, P.B., Remiao, F., Bastos, M.L., Carvalho, F. *Toxicology in Vitro* **23** (2009): 1131-1138
- 352 - Delgado, J.M.P.Q., da Silva, M.V., Nasser, R.O., Goncalves, M.P., Andrade, C.T. Water Sorption Isotherms and Textural Properties of Biodegradable Starch-based Superabsorbent Polymers. *in "Diffusion in Solids and Liquids IV"*. Ed. A. Ochsner, G. E. Murch, A. Shokuhfar. Trans Tech Publications Ltd, 2009. 565-570
- 353 - **Whey protein isolate-chitosan interactions: A calorimetric and spectroscopy study.** Souza, H.K.S., Bai, G.Y., Goncalves, M.D., Bastos, M. *Thermochimica Acta* **495** (2009): 108-114
- 354 - **Ziegler-Natta catalysed polymerisation for the preparation of copolymers with pendant sucrose moieties.** Barros, M.T., Petrova, K.T. *European Polymer Journal* **45** (2009): 295-301
- 355 - **The Zinc proteome: a tale of stability and functionality.** Sousa, S.F., Lopes, A.B., Fernandes, P.A., Ramos, M.J. *Dalton Transactions* (2009): 7946-7956
- 356 - **Zinc-, cobalt- and iron-chelated forms of adenylate kinase from the Gram-negative bacterium Desulfovibrio gigas.** Kládova, A.V., Gavel, O.Y., Zhadan, G.G., Roig, M.G., Shnyrov, V.L., Bursakov, S.A. *International Journal of Biological Macromolecules* **45** (2009): 524-531