

## ARTIGOS 2004

- 1) RODRIGUES, L. P.; RUBINGER, M.M.M.; PILÓ-VELOSO, D.; MALTA, V. R. S.; GUILARDI, S. 6alfa-Acetoxyvouacapan-7beta, 17beta-lactone. *Acta Crystallographica. Section E*, v.60, p.1208-1210, 2004.
- 2) ABRAHÃO-JÚNIOR, O.; GUILARDI, S.; MALTHA, C. R. Á.; PILÓ-VELOSO, D. 6alfa-hydroxy-17beta-azavouacapane-17,7beta-carbolactone. *Acta Crystallographica. Section E*, v.60, p.72-74, 2004.
- 3) PEREIRA, C.L.M.; PEDROSO, E.F.; STUMPF, H. O.; NOVAK, M.A.; RICARD, L.; RUIZ-GARCIA, R.; RIVIÈRE, E.; JOURNAUX, Y. A (CuCoII)-Co-II metallacyclophane-based metamagnet with a corrugated brick wall sheet architecture. *Angewandte Chemie (International Edition)*, v.43, n°8, p.955-958, 2004.
- 4) FARACO, A. A. G.; FONTES-PRADO, M.A.; ALVES, R. B.; FARACO, R. F. P.; ALVES, R. J.; SOUZA FILHO, J. D.; MEURER, E. C.; EBERLIN, M. N. A new 20-membered macrocyclic dilactam: an unexpected product of a tri-n-butylin hydride-mediated radical reaction. *Tetrahedron Letters*, v.45, p.3317-3320, 2004.
- 5) YUE, I.C.; POFF, J.; CORTÉS, M.E.; SINISTERRA, R. D.; HILDGEN, P.; LANGER, R.; SHASTRI, V. A novel polymeric chlorhexidine delivery device for the treatment of periodontal disease. *Biomaterials*, v.25, n°17, p.3743-3750, 2004.
- 6) FIGUEIREDO, M. A.; VARAJÃO, A. F. D. C.; FABRIS, J. D.; LOUTFI, I. S.; CARVALHO, A. P. Alteração superficial e pedogeomorfologia no sul do complexo bação - quadrilátero ferrífero – MG. *Revista Brasileira de Ciência do Solo*, v.28, n°4, p.713-729, 2004.
- 7) SANTOS, C. M. P.; FARIA, R. B.; MACHADO, S. P.; ALMEIDA, W. B. An ab initio correlated study of the potential energy surface for the HOBr.H<sub>2</sub>O complex. *Journal of Chemical Physics*, v. 21, n°1, p.141-148, 2004.
- 8) REIS, M.A.A.; SINISTERRA, R. D.; BELCHIOR, J. C. An alternative approach based on artificial neural networks to study controlled drug release. *Journal of Pharmaceutical Sciences*, v.93, n°2, p.418-430, 2004.
- 9) ROCHA, A. D.; OLIVEIRA, A. B.; SOUZA FILHO, J. D.; LOMBARDI, J. A.; BRAGA, F. C. Antifungal constituents of Clytostoma ramentaceum and Mansoa hirsuta. *Phytotherapy Research*, v.18, n°6, p.463-467, 2004.
- 10) MENEZES, M. A. B. C.; SABINO, C.deV.S.; FRANCO, M.B.; MAIA, E.C.P.; ALBINATI, C. Assessment of workers contamination caused by air pollution exposure in industry using biomonitoring. *Journal of Atmospheric Chemistry*, v.49, n°1-3, p. 403-414, 2004.
- 11) SILVA, A. O. K. L.; I. M de SÁ, I. M.; FARIA, A. M. C.; SINISTERRA, R. D. Association complexes between ovalbumin and cyclodextrins have no effect on the

immunological properties of ovalbumin. **European Journal of Pharmaceutics and Biopharmaceutics**, v.57, n°2, p.199-205, 2004.

- 12) DOMINGUES, R. Z.; CORTÉS, M.E.; GOMES, T.A; DINIZ, H.F.; FREITAS; C.S GOMES, J.B.; FARIA, A. M. C.; SINISTERRA, R. D. Bioactive glass as a drug delivery system of tetracycline and tetracycline associated with beta-cyclodextrin. **Biomaterials**, v.2, n°25, p.327-333, 2004.
- 13) BARROS, H.J.do V.; HANSON, B. E.; GOUSSEVSKAIA, E. V.; SANTOS, E. N. Biphasic hydroformylation of monoterpenes employing Rh/TPPTS/CTAC: the role of the substrate in the mass transference between the phases. **Applied Catalysis. A, General**, v.278, n°1, p.57-63, 2004.
- 14) MORAGA, G. L. A.; MATENCIO, T.; NEVES, B. R. A.; SILVA, G. G. Blends of poly(2,5-dimethoxy aniline) and fluoropolymers as protective coatings. **Electrochimica Acta**, v.49, n°21, p.3507-3516, 2004.
- 15) MONTANARI, M. L. C.; ANDRICOPULO, A. D.; MONTANARI, C. A. Calorimetry and structure-activity relationships for a series of antimicrobial hydrazides. **Thermochimica Acta**, v.417, n°2, p.283-294, 2004.
- 16) ARAÚJO, M. H.; VARGAS, M. D.; AVENT, A. G.; BRAGA, D.; GREPIONI, F. Carbon-Carbon coupling on tetrahedral iridium clusters: X-ray molecular structures and multinuclear NMR studies of the two isomeric forms of [Ir<sub>4</sub>(CO)<sub>6</sub>(HCCPh)(C<sub>4</sub>H<sub>2</sub>Ph<sub>2</sub>)(PPh<sub>2</sub>)<sub>2</sub>]. **Journal of Organometallic Chemistry**, v.689, p.-3513-3519, 2004.
- 17) SILVA, J.B. da; DINIZ, C. F.; LAGO, R. M.; MOHALLEM, N. D. S. Catalytic properties of nanocomposites based on cobalt ferrites dispersed in sol-gel silica. **Journal of Non-Crystalline Solids**, v.348, p.201-204, 2004.
- 18) LELIS, M. de F.F.; PORTO, A. O.; GONÇALVES, C.M.; FABRIS, J. D. Cation occupancy sites in synthetic Co-doped magnetites as determined with X-ray absorption (XAS) and Mössbauer spectroscopies. **Journal of Magnetism and Magnetic Materials**, v.278, n°1-2, p.263-269, 2004.
- 19) TRIGO, C.E.L.; PORTO, A. O.; LIMA, G.M. de. Characterization of CdS nanoparticles in solutions of P(TFE-co-PVDF-co-Prop)/N,N-Dimethylformamide. **European Polymer Journal**, v.40, n°11, p.2465-2469, 2004.
- 20) COSTA, B. B.; OLIVEIRA, A. B.; GUIMARÃES, K. G.; MENDONÇA, M. P.; SOUZA FILHO, J. D.; BRAGA, F. C. Chemistry and antifungal activity of Xyris species (Xyridaceae): A new anthraquinone from Xyris pilosa. **Biochemical Systematics and Ecology**, v.32, p.391-397, 2004.
- 21) SILVA, J.B. da; DINIZ, C. F.; ARDISSON, J. D.; PERSIANO, A. I. C.; MOHALLEM, N. D. S. Cobalt ferrite dispersed in a silica matrix prepared by sol-gel process. **Journal of Magnetism and Magnetic Materials**, v.272-276, p. 1851-1853, 2004.

- 22) SEBASTIÃO, R. C. O.; BRAGA, J. P.; YOSHIDA, M. I. Competition between kinetic models in thermal decomposition: analysis by artificial neural network. **Thermochimica Acta**, v.412, n°1-2, p.107-111, 2004.
- 23) SILVA, J.B. B. da. Comportamento da atomização eletrotérmica de ouro, prata, bismuto, cádmio, chumbo e estanho em soluções aquosas e em etanol a partir de diferentes superfícies atomizadoras. **Química Nova**, v.27, n°4, p.528-535, 2004.
- 24) ROCHA, K. A. S.; DUTENHEFNER, P. A. R.; SOUSA, E.M.B.; KOZHEVNIKOVA, E. F.; KOZHEVNIKOV, I. V.; GOUSSEVSKAIA, E. V. Cyclization of (+)-citronellal to (-)-isopulegol catalyzed by H3PW12O40/SiO<sub>2</sub>. **Catalysis Communications**, v.5, p.425-429, 2004.
- 25) CANUTO, M.H.; SIEBALD, H.G.L.; FRANCO, M.B.; SILVA, J.B. B. da. Determination of Al, Cd, and Pb in brazilian sugar cane spirit, cachaca, by ETAAS using matrix-matched calibration. **Atomic Spectroscopy**, v.25, n°3, p.140-144, 2004.
- 26) PEREIRA, L.A.; GONÇALVES, I.; SILVA, J.B. B. da. Development of methodologies to determine aluminium, cadmium, chromium and lead in drinking water by ET AAS using permanent modifiers. **Talanta (Oxford)**, v.46, n°2, p.395-400, 2004.
- 27) ROCHA, L. L.; SPARRAPAN, R; AUGUSTI, R.; EBERLIN, M. N. Direct assignment of positional isomers by mass spectrometry: ortho, meta and para acyl and amidyl anilines and phenols and derivatives. **Journal of Mass Spectrometry**, v.39, n°10, p.1176-1181, 2004.
- 28) AUGUSTI, R.; TUROWSKI, M.; CHEN, H.; COOKS, R. G. Dissociation of ionized benzophenones investigated by the kinetic method: effective temperature, steric effects, and gas-phase CO+center dot affinities of phenyl radicals. **Journal of Mass Spectrometry**, v.39, n°5, p.558-564, 2004.
- 29) SILVA, G. G.; ROCHA, P. M. F.; OLIVEIRA, P.S. de; NEVES, B. R. A. Domain size effects on the thermal properties of PS/PMMA blends. **Applied Surface Science**, v.238, n°1-4, p.64-72, 2004.
- 30) CAVALCANTI, J.; ABREU, F.; OLIVEIRA, N.; MOURA, M.; CHAVES, J.; ALVES, R. J.; BERTINARIA, M.; FRUTTERO, R.; GOULART, M. O. F.; Effect of the leaving group on the electrodic reduction mechanism of anti-Helicobacter pylori metronidazole derivatives, in aprotic and protic media. **Bioelectrochemistry (Amsterdam)**, v.63, n°1-2, p.353-357, 2004.
- 31) LELIS, M. de F.F.; GONÇALVES, C.M.; FABRIS, J. D.; MUSSEL, W.da N.; SERRANO, W. A. P. Effectiveness of selective chemical treatments on concentrating magnetic minerals of samples from a nickel-ore peridotite mantle. **Journal of the Brazilian Chemical Society**, v.15,n°6, p.884-889, 2004.
- 32) PINTO, L. M. A.; JESUS, M. B.; PAULA, E.; LINO, A. C. S.; ADERETE, Joel B; DUARTE, H. A.; TAKAHATA, Y. Elucidation of Inclusion compounds between

- beta-cyclodextrin/ local anesthetics structure: a theoretical and experimental study using differential scanning calorimetry and molecular mechanics. **Journal of Molecular Structure. Theochem**, v.678, n°1-3, p.63-66, 2004.
- 33) REY, N. A.; HOWARTH, O. W.; MAIA, E.C.P. Equilibrium characterization of the As(III)-cysteine and the As(III)-glutathione systems in aqueous solution. **Journal of Inorganic Biochemistry**, v.98, n°6, p.1151-1159, 2004.
- 34) DIAZ, A.B.; MOHALLEM, N. D. S.; SINISTERRA, R. D. Estudio Mössbaüer de un nanocompósito preparado a partir de ciclodextrina y magnetita. **Bistua (Pamplona)**, v.1, p. 4-11, 2004.
- 35) CORTI, G. S.; BOTARO, V. R.; Gil, L.F.; GIL, R. P. F. Estudo da capacidade de complexação de íons Cu<sup>2+</sup> em solução aquosa usando celulose modificada com anidrido succínico e com poliaminas. **polímeros**, v.14, n°5, p.313-317, 2004.
- 36) JACOME, R. L. R. P.; OLIVEIRA, A. B.; RASLAN, D. S.; WAGNER, H. Estudo químico e perfil cromatográfico das cascas de *Aspidosperma Parvifolium* A.DC. (Pau Pereira). **Química Nova**, v.27, n°6, p.897-900, 2004.
- 37) PRAUCHNER, M. J.; PASA, V. M. D.; OTANI, C.; OTANI, S. MENEZES, S. C. Eucalyptus tar pitch pretreatment for carbon material processing. **Journal of Applied Polymer Science**, v.91, n°3, p.1604-1611, 2004.
- 38) OLIVEIRA, L.C.A.; FABRIS, J. D.; RIOS, R. V. R. A.; MUSSEL, W.da N.; LAGO, R. M. Fe<sub>3-x</sub>Mn<sub>x</sub>O<sub>4</sub> catalysts: phase transformations and carbon monoxide oxidation. **Applied Catalysis. A, General**, v.259, n°2, p.253-259, 2004.
- 39) AUGUSTI, R.; Augusti, D.V.; CHEN H.; COOKS, R. G. Gas-phase halide affinity of aliphatic alcohols estimated by the kinetic method. **European Journal of Mass Spectrometry**, v.10, n°6, p.847-855, 2004.
- 40) GOZZO, F. C.; SANTOS, L.S.; AUGUSTI, R.; CONSORTI, C. S.; DUPONT, J.; EBERLIN, M. N. Gaseous supramolecules of imidazolium ionic liquids: "magic" numbers and intrinsic strengths of hydrogen bonds. **Chemistry-A European Journal**, v.10, n°23, p.6187-6193, 2004.
- 41) MENEZES, M. A. B. C.; MAIA, E.C.P.; ALBINATI, C. C.B.; SABINO, C.deV.S.; BATISTA, J. R. How suitable are scalp hair and toenail as biomonitor? **Journal of Radioanalytical and Nuclear Chemistry**, v.259, n°1, p.81-86, 2004.
- 42) ANDRADE, A.L.; TURCHETTI-MAIA, R. M. M.; LOPES, M. T. P.; SALAS, C. E.; DOMINGUES, R. Z.. In Vitro bioactivity and cytotoxicity of chemically treated glass fibers. **Materials Research**, v.7, n°4, p.635-638, 2004.
- 43) TEIXEIRA, L.R.de S.; SINISTERRA, R. D.; VIEIRA, R. P.; DORETTO, M. C.; BERALDO, H. de O. Inclusion of benzaldehyde semicarbazone into beta-cyclodextrin produces a very effective anticonvulsant formulation. **J. Incl. Phenom. Macroc. Chem.**, v. 47, p.77-82, 2004.

- 44) SILVA, J.B. da; BRITO, W.; MOHALLEM, N. D. S. Influence of the heat treatment on cobalt ferrite ceramic powders. **Materials Science and Engineering. B, Solid State Materials for Advanced Technology**, v.112, n°2-3, p.182-187, 2004.
- 45) SORRILHA, A. E. P. M.; SANTOS, L. S.; GOZZO, F. C.; SPARRAPAN, R; AUGUSTI, R.; EBERLIN, M. N. Intrinsic reactivity of gaseous halocarbocations toward model aromatic compounds. **The Journal of Physical Chemistry. A**, v.108, n°34, p.7009-7020, 2004.
- 46) WIJERATNE, E. K.; CARBONEZI, C. A.; TAKAHASHI, J. A.; SELIGA, C. J.; TURBYVILLE, T. J.; PIERSON, E. E.; PIERSON, L. S.; VANETTEN, H. D.; WHITESELL, L.; BOLZANI, V. S.; GUNATILAKA, A. A. L. Isolation, optimization of production and structure-activity relationship studies of monocillin I, the cytotoxic constituent of *paraphaeosphaeria quadrisepata*. **Journal of Antibiotics (Tokyo)**, v.57,n°8, p.546-550, 2004.
- 47) SILVA, M.C.D.; CONCEIÇÃO, M. M.; TRINDADE, M. F. S.; SOUZA, A. G.; PINHEIRO, C.D.; MACHADO, J. C.; FILHO, P.F.A. Kinetic and thermodynamic parameters of the thermal decomposition of zinc( II) dialkyldithiocarbamates complexes. **Journal of Thermal Analysis and Calorimetry**, v.75,n°2, p.583-590, 2004.
- 48) OLIVEIRA, L.C.A.; RIOS, R. V. R. A.; FABRIS, J. D.; LAGO, R. M.; SAPAG, K. Magnetic particle technology. a simple preparation of magnetic composites for the adsorption of water contaminants. **Journal of Chemical Education**, v.81, n°2, p.248-250, 2004.
- 49) ARAÚJO, M. P.de; VALLE, E. M. A.; ELLENA, J. A.; CASTELLANO, E. E.; SANTOS, E. N.; BATISTA, A. A. mer-[RuCl<sub>3</sub>(P-P)H<sub>2</sub>O)] (P-P = dppb or diop) as starting material for synthesis of binuclear complexes. Crystallographic structures of [(dppb)ClRu-m(Cl)<sub>3</sub>-RuCl(dppb)] and [(h<sub>6</sub>-C<sub>6</sub>H<sub>6</sub>)Ru-m(Cl)<sub>3</sub>-RuCl(dppb)]. Imines hydrogenation using mono- and binuclear ruthenium complexes. **Polyhedron**, v.23, n°18, p.3163-3172, 2004.
- 50) BOAVENTURA, M. A. D.; LOPES, R. F. A.; TAKAHASHI, J. A. Microorganisms as tools in modern chemistry: The biotransformation of 3-indolylacetonitrile and tryptamine by fungi. **Brazilian Journal of Microbiology**, v.35, n°4, p.345-347, 2004.
- 51) POTTKER, W.E.; PADUANI, C.; ARDISSON, J. D.; YOSHIDA, M. I. Mössbauer effect studies of disordered Fe-Ru alloys. **Physica Status Solidi. B, Basic Research**, v.241, n°11, p.2586-2593, 2004.
- 52) ARAÚJO, R.C.e S.; PASA, V. M. D. New eucalyptus tar derived polyurethane coatings. **progress in organic coatings**, v.51, n°1, p.6-14, 2004.
- 53) ALCÂNTARA, A.F.C.; VAZ, M. G. F.; STUMPF, H. O.; PILÓ-VELOSO, D.; ALMEIDA, W. B. NMR conformational analysis and theoretical calculations of 2-

aryl-1,3-dihydroxy-4,4,5,5-tetramethylimidazolidines. **Helvetica Chimica Acta**, v.87, n°2, p.425-438, 2004.

- 54) ALCÂNTARA, A.F.C.; TEIXEIRA, A. F.; XAVIER, I. F. S.; ALMEIDA, W. B.; PILÓ-VELOSO, D. NMR investigation and theoretical calculations of the effect of solvent on the conformational analysis of 4,7-di-hydroxy-8-prenylflavan. **Química Nova**, v.27, n°3, p.371-377, 2004.
- 55) MENINI, L.; SILVA, M.J.; LELIS, M. de F.F.; FABRIS, J.D.; LAGO, R. M.; GOUSSEVSKAIA, E. V. Novel solvent free liquid-phase oxidation of [beta]-pinene over heterogeneous catalysts based on Fe<sub>3-x</sub>M<sub>x</sub>O<sub>4</sub> (M=Co and Mn). **Applied Catalysis. A, General**, v.269, n°1-2, p.117-121, 2004.
- 56) SOUZA, P.P. de; SILVA, G. G.; AMARAL, L. O. F. O cotidiano é meio amorfo: transição vítreia - Uma abordagem para o ensino médio. **Química Nova na Escola**, v.10, n°20, p.21-25, 2004
- 57) DEMICHELLI, C.P.; BEJARANO, R.O.; SILVA, J.B. B. da; FALCAO, C.A.B.; ROSSI-BERGMANN, B.; FREZARD, F.J.G.; SINISTERRA, R. D.; MELO, A. L. Oral delivery of meglumine antimoniato-beta-cyclodextrin complex for treatment of leishmaniasis. **Antimicrobial Agents and Chemotherapy**, v.48, n°1, p.100-103, 2004.
- 58) PORTO, A. O.; LIMA, G.M. de; PEREIRA, A. G.; BATALHA, L. A. R.; ARDISSON, J. D. Organotin sulphides as precursors for nanometric gamma-Sn<sub>2</sub>S<sub>3</sub> powders: a study by <sup>119</sup>Sn Mössbauer spectroscopy and X-ray powder diffraction. **Applied Organometallic Chemistry**, v.18, n°1, p.39-42, 2004.
- 59) SEGALL, S.D.; ARTZ, W.; RASLAN, D. S.; FERRAZ, V. P.; TAKAHASHI, J. A. Ouricuri (*Syagrus coronata*) TAG analysis using HPLC and positive ion electrospray tandem MS. **Journal of the American Oil Chemists' Society**, v.81, n°2, p.143-149, 2004.
- 60) GONÇALVES, J.A.; GOUSSEVSKAIA, E. V. Palladium catalyzed oxidation of monoterpenes: multistep electron transfer catalytic systems Pd(OAc)<sub>2</sub>/benzoquinone/M(OAc)<sub>2</sub>(M-Cu,Cu or MN) for the allylic oxidation of limonene with dioxygen. **Applied Catalysis. A, General**, v.258, n°1, p.93-98, 2004.
- 61) SILVA, M.J.; GONÇALVES, J.A.; ALVES, R. B.; HOWARTH, O. W.; GOUSSEVSKAIA, E. V. Palladium catalyzed transformations of monoterpenes: stereoselective deuteration and oxidative dimerization of camphene. **Journal of Organometallic Chemistry**, v.689, n°2, p.302-308, 2004.
- 62) BARBOSA, L. C. de A.; COSTA, A. V.; PILÓ-VELOSO, D.; LOPES J. C.; TERRONES, M. G. H.; KING-DIAZ, B.; LOTINA-HENNSEN, B. Phytogrowth-inhibitory lactones derivatives of glaucolide B. **Zeitschrift für Naturforschung. B, A Journal of Chemical Sciences**, v. 59c, p.803-810, 2004.
- 63) ABREU, H.A.de; ALMEIDA, W. B.; DUARTE, H. A.; pKa calculation of poliprotic acid: histamine. **Chemical Physics Letters**, v.383, n°1-2, p.47-52, 2004.

- 64) BEJARANO, R.O.; DEMICHELI, C.P.; SINISTERA, R. D. Preparación de un complejo antimonio-beta-ciclodextrina para el tratamiento de leishmaniasis. **Bistua (Pamplona)**, v. 1, p.54-59, 2004.
- 65) DIAZ, A.B.; MOHALLEM, N. D. S.; NOVAK, M.A.; SINISTERA, R. D. Preparation of ferrofluid from cyclodextrin and magnetite. **Journal of Magnetism and Magnetic Materials**, v.272, p.2395-2397, 2004.
- 66) MELO, J.O.F.; RATTON, P.M.; AUGUSTI, R.; DONNICI, C. L. Preparation of novel 1,2,3-triazoles and a comparative study involving two recent methods for 1,2,3-triazole synthesis. **Synthetic Communications**, v. 34, n°2, p.369-376, 2004.
- 67) OLIVEIRA, M. R. L.; Rubinger, M.M.M.; GUILARDI, S.; FRANCA, E. F.; ELLENA, J. A.; DE BELLIS, V. M. Preparation, crystal structure and spectroscopic characterization of novel N-R-sulfonyldithiocarbimate platinum(II) complexes. **Polyhedron**, v.23, n°7, p.1153-1158, 2004.
- 68) RUBINGER, M.M.M.; CASTELO-BRANCO, P.A.; GUILARDI, S.; SOUZA, E. M.; GAMBARDELLA, M.T. do; BORGES, E. E. L.; ALVES, D. L. F.; PILÓ-VELOSO, D. Preparation, X-ray structural studies and plant growth regulatory activity of methyl 6alfa, 7beta-thiocarbonyldioxyvouacapan-17beta-oate. **Journal of the Brazilian Chemical Society**, v.15, n°2, p.219-225, 2004.
- 69) GOLOVIN, A. V.; LIKHOLOBOV, V. A.; GOUSSEVSKAIA, E. V. Propylene oxidation by palladium nitro and nitrato complexes: in situ NMR and IR studies. **Journal of Organometallic Chemistry**, v.689, p.2880-2887, 2004.
- 70) FORTES, I.C.P.; P.J.BAUGH, . Pyrolysis-GC/MS studies of vegetable oils from Macauba fruit. **Journal of Analytical and Applied Pyrolysis**, v.72. n°1, p.103-111, 2004.
- 71) AUGUSTI, D.V.; LAGO, R. M.; AUGUSTI, R. Quantitative determination of the enantiomeric composition of pantothenic acid solutions: A mass spectrometry experiment. **Journal of the Brazilian Chemical Society**, v.15, n°5, p.786-790, 2004.
- 72) NASCIMENTO, C.K.; BRAGA, J. P.; FABRIS, J. D. Reflexões sobre a contribuição de Carnot à primeira Lei da Termodinâmica. **Química Nova**, v.27, n°3, p.513-515, 2004.
- 73) BERALDO, H. de O. Semicarbazonas e tiosemicarbazonas: o amplo perfil farmacológico e usos clínicos. **Química Nova**, p.27, n°3, p.461-471, 2004.
- 74) MAIA, A.A.; GIL, R. P. F.; GIL, L.F.; MARAZANO, C.. Simple and convenient synthesis of iboga-functionalized isoquinuclidines. **Letters in Organic Chemistry**, v.1, n°2, p.168-170, 2004.
- 75) DUTENHEFNER, P. A. R.; NUNES, D. L.; Gonçalves, J.A.; GOUSSEVSKAIA, E. V.; SOUSA, E.M.B. Sol-gel palladium composites:: effect of the thermal treatment

on the catalytic activity. **Journal of Non-Crystalline Solids**, v.348, p.195-200, 2004.

- 76) DUTENHEFNER, P. A. R.; SILVA, M.J..; SALES, L. S.; SOUSA, E.M.B.; GOUSSEVSKAIA, E. V. Solvent-free liquid-phase autoxidation of monoterpenes catalyzed by sol-gel Co/SiO<sub>2</sub>. **Journal of Molecular Catalysis A: Chemical**, v.217, n°1-2, p.139-144, 2004.
- 77) COSTA, L.C.de M.; MAIA, J.R.da S.; LIMA, G.M. de; ARDISSON, J. D. Spectroscopic investigation of organotin(IV) derivatives of N, N'-bis(2-pyridyl)oxalamide. **Main Group Metal Chemistry**, v.27, n°5, p.247-258, 2004.
- 78) OLIVEIRA, M. A.; ALMEIDA, W. B.; DOS SANTOS, H.F. Structure and electronic properties of alkylthiophenes coupled by head-to tail and head-to-head regioselectivity. **Journal of the Brazilian Chemical Society**, v.15, n°6, p.832-838, 2004.
- 79) LEITÃO, A.; ANDRICOPULO, A. D.; OLIVA, G.; PUPO, M. T.; MARCHI, A.; VIEIRA, P. C.; SILVA, M. F. G. F.; FERREIRA, V. F.; SOUZA, M.C.B.V.; SÁ, M. M.; MORAES, V. R. S.; MONTANARI, C. A. Structure-activity relationships of novel inhibitors of glyceraldehyde-3-phosphate dehydrogenase. **Bioorganic & Medicinal Chemistry Letters**, v.14, n°9, p.2199-2204, 2004.
- 80) ANDRADE, A.L.; FERREIRA, J. M. F.; DOMINGUES, R. Z. Surface modifications of alumina-silica glass fiber. **Journal of Biomedical Materials Research Part B- Applied Biomaterials**, v.70, p.378-383, 2004.
- 81) LANA, E. J.L.; CARAZZA, F.; OLIVEIRA, R. A. Synthesis of 2-aryl- and 2-heteroaryl-3,5-dimethoxy-1,4-benzoquinones involving Pd-catalyzed cross-coupling of (2,3,4,6-tetramethoxyphenyl)boronic acid. **Helvetica Chimica Acta**, v.87, n°7, p.1825-1831, 2004.
- 82) MAIA, A.A.; MONS, S.; GIL, R. P. F.; MARAZANO, Christian. Synthesis of the unusual octahydronapo[2,3-b]pyridine ring system of Upenamide. **European Journal of Organic Chemistry**, v.5, p.1057-1062, 2004.
- 83) OLIVEIRA, R. B.; FILHO, J. D. S.; FONTES-PRADO, M.A.; EBERLIN, M. N.; MEURER, E. C.; SANTOS, L. S.; ALVES, R. J. Synthesis of unexpected six-membered imides by free-radical carbocyclisation on carbohydrate templates. **Tetrahedron (Oxford)**, v.60, n°44, p.9901-9908, 2004.
- 84) MENEZES, D. C.; LIMA, G.M. de; PORTO, A. O.; DONNICI, C. L.; ARDISSON, J. D.; DORIGUETTO, A. C.; ELLENA, J. A. Synthesis, characterisation and thermal decomposition of in tin( IV) dithiocarbamate derivatives- Single source precursors for tin sulphide powders. **Polyhedron**, v. 23, n°12, p.2103-2109, 2004.
- 85) MARINHO, M. V.; YOSHIDA, M. I.; GUEDES, K. J.; KRAMBROCK, K.; BORTOLUZZI, A. J.; HORNER, M.; MACHADO, F. C.; TELES, W. M. Synthesis, crystal structure and spectroscopic characterization of trans-bis[(M-1,3-bis(4-pyridyl)propane) (M-thiopheneacetate-O)-(3-thiopheneacetate-

- O)]dicopper(II), {[Cu<sub>2</sub>(O<sub>2</sub>CCH<sub>2</sub>C<sub>4</sub>H<sub>3</sub>S)<sub>4</sub> M-(BPP)<sub>2</sub>]n: From a Dinuclear Paddlewheel copper(II) unit to a 2-D C. **Inorganic Chemistry**, v.43, n°4, p.1539-1544, 2004.
- 86) de CASTRO, V.D.; LIMA, G.M. de; PORTO, A. O.; SIEBALD, H.G.L.; SOUZA FILHO, J. D.; ARDISSON, J. D.; AYALA, J.D.; BOMBieri, G. Synthesis, structural characterisation and thermal decomposition of [{Pt(dppf)(2-SPy)}{BF<sub>4</sub>}] (dppf = 1,1'-bis-diphenylphosphinoferrocene and 2-SPy = 2-mercaptopypyridine) - a source for a Fe-Pt containing alloy. **Polyhedron**, v.23, p.63-69, 2004.
- 87) FOGG, D.E.; SANTOS, E. N. Tandem catalysis: a taxonomy and illustrative review. **Coordination Chemistry Reviews**, v.248, n°21-24, p.2365-2379, 2004.
- 88) NASCIMENTO, G. L. T.; SEARA, L. M.; NEVES, B. R. A.; MOHALLEM, N. D. S. Textural characterization of porous silica films prepared by the sol-gel process. **Progress in Colloid & Polymer Science**, v.128, p.227-231, 2004.
- 89) OLIVEIRA, L.C.A.; SILVA, C.N.; YOSHIDA, M. I.; LAGO, R. M. The effect of H<sub>2</sub> treatment on the activity of activated carbon for the oxidation of organic contaminants in water and the H<sub>2</sub>O<sub>2</sub> decomposition. **Carbon (New York)**, v. 42, n°11, p.2279-2284, 2004.
- 90) AMOROSO, D.; JABRI, A.; YAP, G. P. A.; GUSEV, D. G.; SANTOS, E. N.; FOGG, D.. The first Ru(eta-3-PCP) complexes of the electron-rich pincer ligand 1,3-bis(dicyclohexylphosphino)methyl)benzene: structure and mechanism in transfer hydrogenation catalysis. **Organometallics**, v.23, p.4047-4054, 2004.
- 91) COSTA, L.A.S.; ROCHA, W. R.; ALMEIDA, W. B.; DOS SANTOS, H.F. The solvent effect on the aquation processes of the cis-dichloro(ethylenediamine)platinum(II) using continuum solvation models. **Chemical Physics Letters**, v.387, n°1-3, p.182-187, 2004.
- 92) PAIM, L.A.; MOURA, E. M.; SIEBALD, H.G.L.; LIMA, G.M. de; DORIGUETTO, A. C.; ELLENA, J. A. The synthesis and structural characterisation of [Ru(eta-Cp)(dppf)SnBr<sub>3</sub>]. **Spectrochimica Acta. Part A, Molecular and Biomolecular Spectroscopy**, v.60, 2383-2386, 2004.
- 93) PRAUCHNER, M. J.; PASA, V. M. D.; OTANI, C. OTANI, S. The use of DSC to assess the stabilization of thermoplastic Eucalyptus Tar Pitch Fibers. **Journal of Thermal Analysis and Calorimetry**, v.76, n°3, p.935-940, 2004.
- 94) BERALDO, H. de O.; GAMBINO, D. The wide pharmacological versatility of semicarbazones, thiosemicarbazones and their metal complexes. **Mini - Reviews in Medicinal Chemistry**, v.4, n°1, p.31-39, 2004.
- 95) JUNQUEIRA, G.M.A.; ROCHA, W. R.; ALMEIDA, W. B.; DOS SANTOS, H.F. Theoretical study of oxocarbons: structure and vibrational spectrum of the D<sub>6</sub>h and C<sub>2</sub> forms of the rhodizonate ion. **Journal of Molecular Structure. Theochem**, v.684, n°1-3, p.141-147, 2004.

- 96) NASCIMENTO JUNIOR, C. S.; DOS SANTOS, H.F.; ALMEIDA, W. B. Theoretical study of the formation of the alfa-cyclodextrin hexahydrate. **Chemical Physics Letters**, v.397, n°4-6, p.422-428, 2004.
- 97) MELO, B.N.; PASA, V. M. D. Thermal and morphological study of polyurethanes based on Eucalyptus tar pitch and castor oil. **Journal of Applied Polymer Science**, v.92, n°5, p.3287-3291, 2004.
- 98) MELLO, V.J.; MAIA, J.R.da S.; OLIVEIRA, T.T.; NAGEM, T. J.; ARDISSON, J. D.; PATRICIO, P.S.D.; LIMA, G.M. de; Tin(IV) compounds derivatives of reaction between Organotin(IV), SnCl<sub>4</sub> and rutin trihydrate: Characterization and hypolipidemic effects. **Main Group Metal Chemistry**, v.27, p.309-321, 2004.
- 99) GEMMING, S.; SCHREIBER, M.; THIEL, W.; HEINE, T.; SEIFERT, G.; ABREU, H.A.de; DUARTE, H. A. Tunable discotic building blocks for liquid crystalline displays. **Journal of Luminescence**, v.108, n°1-4, p.143-147, 2004.
- 100) LEAL, A. S.; RODRIGUES, I.; SCHOR, H. H. R. Um modelo para a superfície líquida no estudo da dinâmica do espalhamento de Xe e Ne pelo esqualano. **Química Nova**, v.27, n°3, p.483-488, 2004.
- 101) GIACOMELLI, M. B. O.; SILVA, J.B. B. da; SAINTPIERRE, T.; CURTIUS, A. J. Use of iridium plus rhodium as permanent modifier to determine As, Cd and Pb in acids and ethanol by electrothermal atomic absorption spectrometry. **Microchemical Journal**, v.77, n°2, p.151-156, 2004.
- 102) ANDRADE, A.L.; FERREIRA, J. M. F.; DOMINGUES, R. Z... Zeta potential measurement in bioactive collagen. **Materials Research**, v.7, n°4, p.631-634, 2004.