

Inorganic Chemistry, Radiochemistry and Radiopharmacy

Inorganic and Organometallic Chemistry

Journals

- M. Abrantes, A. Sakthival, C.C. Romão, F.E. Kühn, A Chiral Menthyl Cyclopentadienyl Molybdenum Tricarbonyl Chloro Complex: Synthesis, Heterogenisation on MCM-41/MCM-48 and Application in Olefin Epoxidation Catalysis, *J. Organomet. Chem.* 691 (2006) 3137-3145.
- M.A. Antunes, M. Dias, B. Monteiro, A. Domingos, I.C. Santos, N. Marques, Synthesis and Reactivity of Uranium(IV) Amide Complexes Supported by a Triamidotriazacyclononane Ligand, *Dalton Trans.*, (2006) 3368-3374.
- S. Barroso, J. Cui, A.R. Dias, M.T. Duarte, H. Ferreira, R.T. Henriques, M.C. Oliveira, J.R. Ascenso, A.M. Martins, Titanium(III) Trisamidotriazacyclononane: Reactions with C_{60} and Radicals, *Inorg. Chem.* 45 (2006) 3532-3537.
- S.M. Bruno, B. Monteiro, M.S. Balula, F.M. Pedro, M. Abrantes, A.A. Valente, M. Pillinger, P. Ribeiro-Claro, F.E. Kühn, I.S. Gonçalves, Synthesis and Catalytic Properties in Olefin Epoxidation of Chiral Oxazoline Dioxomolybdenum(VI) Complexes, *J. Mol. Catal. A: Chem.*, 260 (2006) 11-18.
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- J.K. Gibson, J. Marçalo, New Developments in Gas-Phase Actinide Ion Chemistry, *Coord. Chem. Rev.* 250 (2006) 776-783.
- J.K. Gibson, M. Santos, J. Marçalo, J.P. Leal, A. Pires de Matos, R.G. Haire, Comment on «Controversy on the First Ionization Potential of PuO_2 (Nearly) Settled by New Experimental Evidence», *J. Phys. Chem. A* 110 (2006) 4131-4132.
- C. Hipólito, J.P. Leal, Y. Guo, M. Epple, Thermochemistry of Alkaline-Earth Phenoxides, *J. Chem. Thermodyn.* 38 (2006) 296-303.
- F.E. Kühn, A.M. Santos, M. Abrantes, Mononuclear Organomolybdenum(VI) Complexes: Synthesis, Reactivity, and Catalytic Applications, *Chem. Rev.* 106 (2006) 2455-2475.
- J.P. Leal, Additive Methods for Prediction of Thermochemical Properties. The Laidler Method Revisited. 1. Hydrocarbons, *J. Phys. Chem. Ref. Data* 35 (2006) 55-76.
- M.A. Reis, P.C. Chaves, J.P. Leal, M.G. Cabeçadas, A.F. Rodrigues, M. Juliano, H.Th. Wolterbeek, PIXE Capabilities for Biogeochemical Cycles Studies in the Northeastern Atlantic, *Nucl. Inst. & Meth. B*, 236 (2006) 482-487.
- A.M.J. Rost, A. Scherbaum, W.A. Hermann, F.E. Kühn, Behavior of Dimeric Methylrhodium(VI) Oxides in the Presence of Hydrogen Peroxide and its Consequences for Oxidation Catalysis, *New J. Chem.* 30 (2006) 1599-1605.
- A. Sakthival, S. Syukri, A.K. Hijazi, F.E. Kühn, Heterogenisation of $[Cu(NCCH_3)_4][BF_4]_2$ on Mesoporous AIMCM-41/AIMCM-48 and its Application as Cyclopropanation Catalysts, *Catal. Lett.* 111 (2006) 43-49.
- A. Sakthivel, A.K. Hijazi, A.I. Al-Hmaideen, F.E. Kühn, Grafting of $[Cu(NCCH_3)_6][B\{C_6H_3(\mu-CF_3)_2\}_4]_2$ on the Surface of Aminosilane Modified SBA-15, *Micropor. Mesopor. Mater.* 96 (2006) 293-300.
- M. Santos, A. Pires de Matos, J. Marçalo, J.K. Gibson, R.G. Haire, R. Tyagi, R.M. Pitzer, Oxidation of Gas-Phase Protactinium Ions, Pa^+ and Pa^{2+} : Formation and Properties of $PaO_2^{2+}(g)$, Protactinyl, *J. Phys. Chem. A* 110 (2006) 5751-5759.
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- M.H. Casimiro, J.P. Leal, M.H. Gil, C.A. Nieto de Castro, Análise Calorimétrica Aplicada a Polímeros Biológicos. Parte II: Exemplos de Aplicações Práticas, *Química* 100 (2006) 91-96.

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FTICR-MS, *Proc. 54th ASMS Conf. on Mass Spectrometry and Allied Topics*, Seattle, May 28-June 1, 2006, C. E. Lebrilla (Ed.), Santa Fe, NM, 2006, DVD-ROM #1499.

J. Branco, J.P. Leal, N.R. Pinhão, A. Pires de Matos, *Reciclagem Química de Resíduos Plásticos em Leito de Metal Fundido à Escala Laboratorial. Ponto da Situação e Perspectivas Futuras, II Jornadas de Investigação e Desenvolvimento da Sociedade Ponto Verde, FCT-UNL*, Caparica, Portugal, 2006, CD-ROM 5 p.

Communications

J.K. Gibson, R.G. Haire, M. Santos, J. Marçalo, A. Pires de Matos, Chemical exploits with actinide ions in the gas phase: insights into actinyl hydration, 5f Bonding, and More, *Plutonium Futures - The Science 2006*, Pacific Grove, USA, July 2006, invited oral.

J. Cui, J. M. Carretas, I.C. Santos, S.D. Barroso, A.M. Martins, N. Marques, The Influence of the Ionic Radii in the Structure of Lanthanide Complexes Supported by a Dianionic Amine Bis(Phenolate) Ligand, *XXII Int. Conf. on Organometallic Chemistry (ICOMC)*, Zaragoza, Spain, July 2006, poster.

S.D. Barroso, J.M. Carretas, J. Cui, N. Marques, A.M. Martins, Dianionic Amine Bis(phenolate) Titanium Complexes, *XXII Int. Conf. Organometallic Chemistry*, Zaragoza, Spain, July 2006, poster.

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M.H. Casimiro, J.P. Leal, M.H. Gil, Drug Release Assays from New Chitosan/pHEMA Membranes Obtained by Gamma Irradiation, *7th Int. Symp. on Ionizing Radiation and Polymers*, Antalya, Turkey, Sept. 2006, poster.

F.M. Lopes, A.M. Lima, M. Vilarigues, J. Coroado, C. Carvalho, A. Pires de Matos, Real Fábrica de Vidros de Coia - chemical analysis of archaeological glass fragments, *17th Meet. Association Int. pour l'Histoire du Verre*, Antwerp, Belgium, Sept. 2006, oral

T. Medici, F.M. Lopes, A.M. Lima, M.A. Larsson, A. Pires de Matos, Glass bottles and jugs from the monastery of Sta. Clara-a-Velha at Coimbra, Portugal (16th-17th century), *17th Meet. Assoc. Int. pour l'Histoire du Verre*, Antwerp, Belgium, Sept 2006, oral

A.M. Lima, F.M. Lopes, K. Janssens, O. Schalm, C. Carvalho, A. Pires de Matos, Comparison of a Destructive and Non-destructive XRF Analysis of Weathered Glass Fragments, *Glass: The Art of Science - 8th ESG Conf.*, Sunderland, England, Sept 2006, oral

M. Santos, J. Marçalo, A. Pires de Matos, Laser

Ablation Fourier Transform Ion Cyclotron Resonance Mass Spectrometry of Glasses Containing Uranium, Thorium and Lanthanides, *Glass: The Art of Science - 8th ESG Conf.* Sunderland, England, Sept. 2006, oral.

J.K. Gibson, R.G. Haire, J. Marçalo, M. Santos, J.P. Leal, A. Pires de Matos, R. Tyagi, M. Mroziak, R.M. Pitzer, B.E. Bursten, FTICR-MS Studies of gas-phase Actinide ion reactions: fundamental chemical and physical properties of atomic and molecular ions, *Workshop Atomic Properties of the Heaviest Elements, Wilhelm und Else Heraeus-Seminar*, Abtei Frauenwörth im Chiemsee, Germany, Sept 2006, invited talk

J.K. Gibson, R.G. Haire, J. Marçalo, M. Santos, A. Pires de Matos, Actinide-Transition metal bonding in gas-phase complexes, *2006 MRS Fall Meeting*, Boston, USA, Nov. 2006, invited oral.

P. Madeira, M.T. Fernandez, P. Costa, J.P. Leal, The Kinetic Method in the determination of gas phase acidities of substituted phenols, *XX Enc. Nac.Soc. Port. Química*, Caparica, Portugal, Dec. 2006, poster.

M.J. Melo, A. Claro, A. Aguiar-Ricardo, A. Ramos, C. Miguel, F. Pina, J.S. Seixas de Melo, J.Lia Ferreira, J. Marçalo, J. Parola, M. Sousa, T. Casimiro, Art Matters-The contribution of chemistry and green chemistry to conservation and restoration, *XX Enc. Nac. Soc. Port. Química*, Caparica, Portugal, Dec. 2006, poster

Theses

Master

C. Pedruco, Utilização de Software Educativo pelos Professores de Química e de Física, Fac. Ciências (FC), Univ. Lisboa, 2006. Supervisor: J. P. Leal.

P.J. Madeira, Estrutura / Energética / Reactividade de Fenóis Substituídos em Fase Gasosa, Univ. Lisboa, 2006, Supervisors: J.P. Leal, M.T. Fernandez

L. Gonçalves, Software Educacional para Química: Conceitos em Química, Fac. Ciências, Univ. Lisboa, 2006. Supervisor: J. P. Leal.

Graduation

F.M. Lopes, Estudos de Proveniência de Vidros Portugueses, Uma Incursão às Técnicas Analíticas, Univ. Nova Lisboa, 2006, Supervisor: A. Pires de Matos, co-supervisor: A.M. Lima.

L.S. Richard, Thermochimie des Trois Isomères du Crésol, Univ. Lisboa, 2006. Supervisors: J.P. Leal, M.E. Minas Piedade (FCUL) and H. Diogo (IST).

Inorganic and Radiopharmaceutical Chemistry

Journals

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S. Alves, R. Vitor, P.D. Raposo, F. Marques, J.D.G. Correia, A. Paulo, I. Santos, Metal- Based Drugs for Diagnosis and Therapy, *Metal Ions in Biology and Medicine*, 9 (2006) 3-8.

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L. Maria, A. Paulo, I. C. Santos, I. Santos, P. Kurz, B. Spingler, R. Alberto, Very Small and Soft Scorpionates: Water Stable Technetium Tricarbonyl Complexes Combining a Bis-agostic (κ³-H, H, S) Binding Motif with Pendant and Integrated Bioactive Molecules *J. Am. Chem. Soc.* 128, 2006, 14590-14598

L. Maria, C. Moura, A. Paulo, I. C. Santos, I. Santos, Synthesis and Structural Studies of Rhenium(I) Tricarbonyl Complexes with Thione Containing Chelators, *J. Organomet. Chem.* 691, 2006, 4773-4778

F. Marques, L. Gano, M.P. Campello, S. Lacerda, I. Santos, L.M.P. Lima, J. Costa, P. Antunes, R. Delgado, 13- and 14- membered macrocyclic ligands containing methylcarboxylate or methylphosphonate pendant arms: chemical and biological evaluation of their ¹⁵³Sm and ¹⁶⁶Ho complexes as potential agents for therapy or bone pain palliation, *J. Inorg. Biochem.* 100 (2006) 270-370

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C. Fernandes, L. Gano, A. Bourkoula, I. Pirmettis, I. Santos, Novel Re(I)/^{99m}Tc Tricarbonyl Complexes Bearing Quinazoline Moiety as Biomarkers for Epidermal Growth Factor Receptor Positive Tumors, 7th International Symposium on Technetium in Chemistry and Nuclear Medicine, *Technetium, Rhenium and Other Metals in Chemistry and Nuclear Medicine* 7, Ed. U. Mazzi, SGEditional-Padova (2006), 487-490.

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N. Margaritis, A. Bourkoula, A. Chiotellis, A. Papadopoulos, A. Panagiotopoulou, C. Tsoukalas, C.C. Fernandes, M. Paravatou, E. Livaniou, I. Santos, M. Papadopoulos, I. Pirmettis, A New Technetium-99m Biomarker for EGFR-TK, *7th Int. Symp. Technetium in Chemistry and Nuclear Medicine*, Technetium, Rhenium and Other Metals in Chemistry and Nuclear Medicine 7, Ed. U. Mazzi, SGEEditoriali-Padova, (2006), 523-525.

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M. C. Oliveira, M. Videira, A. Almeida, L. Gano, M. Watanabe, T. Thiemann, A.C. Santos, F. Botelho, C. Oliveira Auger Emitters in Radiotherapy: Novel Estrogen Receptor Ligands, *Q. J. Nucl. Med. Mol. Imaging* 50(1) (2006) 48-49.

C. Xavier, R. Alberto, I. Santos, Synthesis, Characterization and Stability Studies of Re(I) and Tc(I) Tricarbonyl Complexes Bearing a PNA Dimer, *7th Int. Symp. Technetium in Chemistry and Nuclear Medicine*, Technetium, Rhenium and Other Metals in Chemistry and Nuclear Medicine 7, Ed. U. Mazzi, SGEEditoriali-Padova, (2006), 371- 376

Patents

I. Santos, A. Paulo, L. Maria, European Patent: 06075127.8.

I. Santos, A. Paulo, L. Maria, United Kindgom Patent: 0623482.7.

Communications

M. Balbina, M.P. Campello, L. Gano, F. Marques, A. Kling, P. Hermann, J. Kotek, I. Lukes, I. Santos, Evaluation of Radiolanthanide Complexes with Macrocycles Containing Phosphonate Pendant Arms as Bone Seeking Agents, *Medicinal Chemistry in 21st Century*, Fac. Farmácia, Univ. Lisboa, Oct.2006, Oral.

A. Paulo, An Overview of the ITN Research on Metal-Based Radioactive Probes, COST Meeting, Basel, Switzerland, Dec. 2006, Oral.

I. Santos, Metal Complexes in Medicine: Diagnostic and Therapeutical Applications, Dep. Chemistry, Univ. Porto, Portugal, March 2006, Invited Talk.

I. Santos, Portugal Efforts for the IAEA CRP: Quinazoline and RGD, 3rd RCM on Development of $^{99\text{m}}\text{Tc}$ -Based Small Biomolecules Using Novel $^{99\text{m}}\text{Tc}$ Cores/ IAEA CRP, May 2006, Budapest, Hungary, Invited Talk.

I. Santos, Metal-Based Drugs for Diagnosis and Therapy *9th Int. Symp. Metal Ions in Biology and Medicine*, Lisbon, Portugal, May 2006, Invited Talk.

I. Santos, ^{153}Sm and ^{166}Ho Complexes with Mixed Tetraazamacrocycles: Effect of the Number of Phosphonate Pendant Arms on Bone Targeting, *COST D18 Final Workshop Lanthanide Chemistry for Diagnosis and Therapy*, Orléans, France, 31 Mar. 2006, Invited Talk

I. Santos, Building Blocks for Labelling Biomolecules with the *fac*- $[\text{M}(\text{CO})_3]^+$ Moiety, *Gordon Research Conf. Metals in Medicine*, Oxford, UK, July 2006, Invited Talk.

I. Santos, From Molecular Imaging to Targeted Therapy: Radiopharmaceutical Chemistry New Challenges, *IV Forum da Química*, Fac. Ciências e Tecnologia/UNL, Caparica, Oct. 2006, Invited Talk.

I. Santos, Radiopharmaceutical Research at Instituto Tecnológico e Nuclear, Institute of Inorganic Chemistry/Univ. Zurich, Switzerland, Dec. 2006. Invited Talk as Student's Speaker of the Year 2006.

C. Xavier, R. Alberto, I. Santos, Labelling of Peptide Nucleic Acids with the *fac*- $[\text{99mTc}(\text{CO})_3]^+$ Moiety, *Int. Symp. Bioorganometallic Chemistry*, Milan, Italy, July 2006, Oral

N. Agorastos, P. Hafligher, P. Raposinho, I. Santos, R. Alberto, Isocyanide-Carbonyl Complexes of $^{99\text{m}}\text{Tc}$ for Possible Therapeutic Applications, *Int. Symp. Bioorganometallic Chemistry*, Milan, Italy, July 2006, Poster

I. Correia, R. Vitor, A. Paulo, I. Santos, J.C. Pessoa, Spectroscopic DNA Binding Studies of Pyrazolyldiamines Bearing an Anthracenyl Fragment and its Rhenium(I) Complexes, *8th Europ. Biological Inorganic Chemistry Conf.* Aveiro, Portugal, Jul. 2006, Poster

J.D.G. Correia, S. Alves, I. Santos, P.D. Raposinho, C. Decristoforo, R. Haubner, I. Hernandez-Gonzales, M. Rupprich, C.J. Smith, Bifunctional pyrazolyl-containing ligands for labelling bioactive peptides with the organometallic core *fac*- $[\text{99mTc}(\text{CO})_3]^+$, *8th Europ. Biological Inorganic Chemistry Conf.*, Aveiro, Portugal July 2006, Poster.

J. D. G. Correia, S. Alves, I. Santos, P. D. Raposinho, C. Decristoforo, R. Haubner, I. Hernandez-Gonzales,

M. Rupprich, C. J. Smith, Labeling of tumor-seeking peptides with the $fac-[^{99m}\text{Tc}(\text{CO})_3]^+$ moiety using bifunctional pyrazolyl-containing chelators: chemistry, radiochemistry and biological Evaluation, *Gordon Research Conf., Metals in Medicine*, Oxford, UK, July 2006, Poster

T. Esteves, M.P.C. Campello, A. Paulo, I. Santos, Re(V) Complexes Anchored on Cyclen Ligands, *8th Eur. Biological Inorganic Chemistry Conf.*, Aveiro, Portugal, July 2006, Poster.

C. Fernandes, M.C. Oliveira, L. Gano, A. Almeida, I. Pirmettis, I.C. Santos, I. Santos, Promising SPECT Biomarkers for Molecular Imaging of EGFR Positive Tumours, *8th Eur. Biological Inorganic Chemistry Conf.* Aveiro Portugal, July 2006, Poster.

G.R. Morais, T. Matsumoto, M. Watanabe, N. Yoshioka, C. Neves Oliveira, L. Gano, F. Marques, A.C. Santos, F. Botelho, C. Oliveira, T. Thiemann, Synthetic Estrane derived Steroids as potential Radiodiagnostics and Drug delivery Systems for Minimal Breast Cancer, *The Fukuoka Symp. - New Horizons in Natural Products and Biological Chemistries*, Fukuoka, Japan, 30-31 July 2006, Poster.

C. Moura, I.C. Santos, A. Paulo, I. Santos, Rhenium(V) Oxocomplexes with N3S Donor Ligands Combining a Pyrazole Group with a Mercaptoacetyl glycine Unit, *8th Eur. Biological Inorganic Chemistry Conf.*, Aveiro, Portugal, July 2006, Poster.

C. Neto, M.C. Oliveira, M. Videira, L. Gano, M. Watanabe, T. Thiemann, A.C. Santos, F. Botelho, C. Oliveira, Radioiodinated ligands for the estrogen receptor. Effect of E-ring methylation on the biological behaviour of novel E-ring expanded estranes, *Medicinal Chemistry in 21st Century*, Fac. de Farmácia da Univ. Lisboa, Oct. 2006, Poster.

B. Oliveira, J.D.G. Correia, I. Santos, Labelling of L-arginine derivatives with the organometallic moiety $fac-[^{99m}\text{Tc}(\text{CO})_3]^+$ using bifunctional pyrazolyl-containing chelators, *8th Europ. Biological Inorganic Chemistry Conf. and Eurobic Young Researchers Forum*, Aveiro, Portugal, July 2006, Poster

P. D. Raposinho, J. D. G. Correia, S. Alves, I. Santos, Melanoma targeting with $[^{99m}\text{Tc}(\text{CO})_3\text{-pyrazolyl-MSH analog}]$ -conjugate, *8th Eur. Biological Inorganic Chemistry Conf. and Eurobic Young Researchers Forum*, Aveiro, Portugal July 2006, Poster.

N. Yoshioka, T. Matsumoto, M. Watanabe, G. Morais, M. C. Oliveira, M. Videira, A. Almeida, L. Gano, C. Neto, F. Marques, A. C. Santos, F. Botelho, C. Oliveira, T. Thiemann, Ring Annelated Estranes as Potential Cancer Diagnostic Agents, *8th Cross-Straits Symp.*, Pusan, South Korea, Nov. 2006, Poster.

Theses

PhD

R. Garcia, Complexos Tricarbonilo de Re(I) e Tc(I) com Escorpionatos Doadores de Enxofre - Aplicações no Desenvolvimento de Radiofármacos para Imagiologia Molecular de Receptores do Sistema Nervoso Central, Univ. Lisboa, March 2006. Supervisor: A. Paulo.

MSc

E. Palma, Complexos de Re e Tc Contendo Antagonistas dos Receptores Serotonérgicos 5HT1A Estabilizados por Fosfinas Heterofuncionalizadas: Química, Radioquímica e Avaliação Biológica, Univ. Lisboa. Supervisor: J.D.G. Correia.

Graduation

G. Clemente, Estudo do Comportamento Biológico da Eritropoietina Marcada com ^{125}I em Modelo Animal, Escola Superior de Tecnologias de Saúde de Lisboa (EsteSL), 2006. Supervisor: M.C. Oliveira.

E. Oliveira, Marcação de Leucócitos com Complexos Contendo a Unidade $fac-[^{99m}\text{Tc}(\text{CO})_3]^+$, Escola Superior de Tecnologias de Saúde de Lisboa (EsteSL), 2006. Supervisors: A. Paulo and L.Gano.