

## List of Publications

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75. B. M. Pires, P. L. dos Santos, V. Katic, S. Strohauser, R. Landers, A. L. B. Formiga, J. A. Bonacin. *Dalton Transactions* (2019) *accepted*. Electrochemical water oxidation by cobalt-Prussian blue coordination polymer and theoretical studies of the electronic structure of the active species. [doi:10.1039/C8DT04660C]
74. T. A. Matias, F. N. Rein, R. C. Rocha, A. L. B. Formiga, H. E. Toma, K. Araki. *Dalton Transactions* 48 (2019) 3009–3017. Effects of a strong  $\pi$ -accepting ancillary ligand on the water oxidation activity of weakly coupled binuclear ruthenium catalysts. [doi:10.1039/C8DT04963G]
73. P. L. dos Santos, V. Katic, H. C. Loureiro, M. F. dos Santos, D. P. dos Santos, A. L. B. Formiga, J. A. Bonacin. *Sensors and Actuators B: Chemical* 281 (2019) 837–848. Enhanced performance of 3D printed graphene electrodes after electrochemical pre-treatment: role of exposed graphene sheets. [doi:10.1016/j.snb.2018.11.013]
72. C. Cardozo, A. Mendoza, G. Faras, A. L. B. Formiga, D. Pea, F. Fuentes, A. Arcea, Y. Otero. *Journal of Organometallic Chemistry* 881 (2019) 34–44. Synthesis of rhenacyclopentadienes and  $\eta^2 : \eta^2$ -diyne complexes from a labile dirhenium carbonyl and  $\pi$ -conjugated 1,7-octadiynes: structural and photophysical characterization. [doi:10.1016/j.jorganchem.2018.12.003]
71. N. Bibi, E. G. R. de Arruda, A. Domingo, A. A. Oliveira, C. Galuppo, Q. M. Phung, N. M. Orra, F. Bron, A. Paesano Jr., K. Pierloot, A. L. B. Formiga. *Inorganic Chemistry* 57 (2018) 14603–14616. Switching the spin-crossover phenomenon by ligand design on imidazole-diazine Fe(II) complexes. [doi:10.1021/acs.inorgchem.8b02278]
70. J. H. S. K. Monteiro, J. D. L. Dutra, R. O. Freire, A. L. B. Formiga, I. O. Mazali, A. de Bettencourt-Dias, F. A. Sigoli. *Inorganic Chemistry* 57 (2018) 15421–15429. Estimating the individual spectroscopic properties of three unique Eu<sup>III</sup> sites in a coordination polymer. [doi:10.1021/acs.inorgchem.8b02720]
69. N. Bibi, R. B. Guerra, L. E. S. C. Huaman, A. L. B. Formiga. *Acta Crystallographica* E74 (2018) 874–877. Crystal structure, electrochemical and spectroscopic investigation of mer-tris[2-(1H-imidazol-2-yl- $\kappa$ N<sup>3</sup>)pyrimidine- $\kappa$ N<sup>1</sup>]ruthenium(II) bis(hexafluoridophosphate) trihydrate. [doi:10.1107/S2056989018007995]
68. F. A. S. Coelho, F. S. Fernandes, R. A. Cormanich, L. A. Zeoly, A. L. B. Formiga. *Eur. J. Org. Chem.* 2018 3211–3223. Employing small poly-functionalized molecules for a diastereoselective synthesis of highly substituted indolines. [doi:10.1002/ejoc.201800528]
67. C. M. Manzano, F. R. G. Bergamini, W. R. Lustri, A. L. T. G. Ruiz, E. C. S. Oliveira, M. A. Ribeiro, A. L. B. Formiga, P. P. Corbi. *Journal of Molecular Structure* 1154 (2018) 469–479. Pt(II) and Pd(II) complexes with ibuprofen hydrazide: Characterization, theoretical calculations, antibacterial and antitumor assays and studies of interaction with CT-DNA. [doi:10.1016/j.molstruc.2017.10.072]
66. B. Possato, V. Deflon, Z. Naal, A. L. B. Formiga, S. Nikolaou. *Dalton Transactions* 46 (2017) 7926–7938. Extended  $\pi$ -system and enhanced electronic delocalization on symmetric [Ru<sub>3</sub>O(CH<sub>3</sub>COO)<sub>6</sub>(L)<sub>3</sub>]<sup>n</sup> complexes combined to azanaphthalene ligands. [doi:10.1039/c7dt01152k]
65. E. G. R. de Arruda, M. A. de Farias, S. A. V. Jannuzzi, S. A. Gonsales, R. A. Timm, S. Sharma, G. Zoppelaró, L. T. Kubota, M. Knobel, A. L. B. Formiga. *Inorganica Chimica Acta* 466 (2017) 456–463. Synthesis, structural and magnetic characterization of a copper(II) complex of 2,6-di(1H-imidazol-2-yl)pyridine and its application in copper-mediated polymerization catalysis. [doi:10.1016/j.ica.2017.06.073]
64. D. H. Nakahata, M. A. Ribeiro, P. P. Corbi, D. Machado, M. Lancellotti, W. R. Lustri, A. M. C. Ferreira, A. L. B. Formiga. *Inorganica Chimica Acta* 458 (2017) 224–232. Synthesis, characterization and preliminary antimicrobial assays of copper(II) complexes with 2-(imidazole-2-yl)heteroaryl ligands. [doi:10.1016/j.ica.2017.01.015]

63. S. A. V. Jannuzzi, B. Martins, L. E. S. C. Huaman, A. L. B. Formiga. *Journal of the Brazilian Chemical Society* 28 (2017) 2–10. Supramolecular approach to decorate multi-walled carbon nanotubes with negatively charged iron(II) complexes. [doi:10.5935/0103-5053.20160137]
62. D. M. Profirio, R. E. F. Paiva, C. Abbehausen, A. Cuin, N. Masciocchi, D. Machado, M. Lancellotti, P. P. Corbi, A. L. B. Formiga. *Journal of Coordination Chemistry* 69 (2016) 2707–2722. Crystal structure and cytotoxic activities of a bis(pyrrolyl-imine) gold(III) complex. [doi:10.1080/00958972.2016.1214949]
61. S. A. V. Jannuzzi, E. G. R. de Arruda, F. A. Lima, M. A. Ribeiro, C. Brinatti, A. L. B. Formiga. *Chemistry Select* 1 (2016) 2235–2243. Enzyme-like selectivity on metalloporphyrin-catalyzed oxidation by a linear homopolymer. [doi:10.1002/slct.201600597]
60. S. A. V. Jannuzzi, Q. M. Phung, A. Domingo, A. L. B. Formiga, K. Pierloot. *Inorganic Chemistry* 55 (2016) 5168–5179. Spin-state energetics and oxyl character of Mn-oxo porphyrins by multiconfigurational ab initio calculations: implications on reactivity. [doi:10.1021/acs.inorgchem.5b02920]
59. F. R. G. Bergamini, M. A. Ribeiro, P. C. M. L. Miranda, A. L. B. Formiga, P. P. Corbi. *Acta Crystallographica Section C* 72 (2016) 544–548. A novel binuclear copper complex incorporating a nalidixic acid derivative displaying a one-dimensional coordination polymeric structure. [doi:10.1107/S2053229616008913]
58. I. M. P. Silva, M. A. Carvalho, C. S. Oliveira, D. M. Profirio, R. B. Ferreira, P. P. Corbi, A. L. B. Formiga. *Inorganic Chemistry Communications* 70 (2016) 47–50. Enhanced performance of a metal-organic framework analogue to MIL-101(Cr) containing amine groups for ibuprofen and nimesulide controlled release. [doi:10.1016/j.inoche.2016.05.020]
57. F. R. G. Bergamini, M. A. Ribeiro, M. Lancellotti, D. Machado, P. C. M. L. Miranda, A. Cuin, A. L. B. Formiga, P. P. Corbi. *Journal of Molecular Structure* 1120 (2016) 115–124. Synthesis, spectroscopic characterizations, crystal structures and DFT studies of nalidixic acid carbonyl hydrazones derivatives. [doi:10.1016/j.molstruc.2016.05.025]
56. N. T. Zanvettor, D. H. Nakahata, R. E. F. de Paiva, M. A. Ribeiro, A. Cuin, P. P. Corbi, A. L. B. Formiga. *Inorganica Chimica Acta* 443 (2016) 304–315. Copper(II), palladium(II) and platinum(II) complexes with 2,2-thiophen-yl-imidazole: synthesis, spectroscopic characterization, X-ray crystallographic studies and interactions with calf-thymus DNA. [doi:10.1016/j.ica.2016.01.011]
55. N. Cacita, B. Possato, C. F. N. da Silva, M. Paulo, A. L. B. Formiga, L. M. Bendhack, S. Nikolaou. *Inorganica Chimica Acta* 429 (2015) 114–121. Investigation of a novel trinuclear  $\mu$ -oxo ruthenium complex as a potential nitric oxide releaser for biological purposes. [doi:10.1016/j.ica.2015.01.038]
54. L. M. Sousa, P. P. Corbi, A. L. B. Formiga, M. Lancellotti, I. M. Marzano, E. C. Pereira-Maia, G. von Poelsnitz, W. Guerra. *Journal of Molecular Structure* 1097 (2015) 15–22. Spectroscopic characterization and molecular modeling of novel palladium(II) complexes with carbazates and hydrazides. [doi:10.1016/j.molstruc.2015.05.012]
53. M. A. Carvalho, E. G. R. Arruda, D. M. Profirio, A. F. Gomes, F. C. Gozzo, A. L. B. Formiga, P. P. Corbi. *Journal of Molecular Structure* 1100 (2015) 6–13. Chemical and spectroscopic characterizations, ESI-QTOF mass spectrometric measurements and DFT studies of new complexes of palladium(II) with tryptamine and mefenamic acid. [doi:10.1016/j.molstruc.2015.07.020]
52. H. Ullah, A. V. Ferreira, J. A. Bendassolli, M. T. Rodrigues Jr., A. L. B. Formiga, F. Coelho. *Synthesis* 47 (2015) 113–123. A versatile approach for non-coded  $\beta$ -hydroxy- $\alpha$ -amino esters and  $\alpha$ -amino acids/esters from Morita-Baylis-Hillman adducts. [doi:10.1055/s-0034-1379168]
51. M. C. Gallo, B. M. Pires, K. C. Figueiredo, E. G. R. Arruda, S. A. V. Jannuzzi, A. L. B. Formiga, J. A. Bonacin. *Synthetic Metals* 198 (2014) 335–339. The use of modified electrodes by hybrid system gold nanoparticles/Mn-porphyrin in electrochemical detection of cysteine. [doi:10.1016/j.synthmet.2014.10.024]

50. B. M. Pires, S. A. V. Jannuzzi, A. L. B. Formiga, J. A. Bonacin. *European Journal of Inorganic Chemistry* (2014) 5812–5819. Prussian blue films produced by pentacyanidoferrate(II) and their application as active electrochemical layer. [doi:10.1002/ejic.201402760]
49. J. C. Almeida, I. M. Marzano, F. C. S. Paula, M. Pivatto, P. C. Souza, F. R. Pavan, A. L. B. Formiga, E. C. Pereira-Maia, W. Guerra. *Journal of Molecular Structure* 1075 (2014) 370–376. Complexes of platinum and palladium with  $\beta$ -diketones and DMSO: synthesis, characterization, molecular modeling and biological studies. [doi:10.1016/j.molstruc.2014.07.023]
48. J. H. S. K. Monteiro, A. L. B. Formiga, F. A. Sigoli. *Journal of Luminescence* 154 (2014) 22–31. The influence of carboxylate, phosphinate and seleninate groups on luminescent properties of lanthanides complexes. [doi:10.1016/j.jlumin.2014.03.071]
47. M. A. Carvalho, S. M. Shishido, B. C. Souza, R. E. F. de Paiva, A. F. Gomes, C. V. Ferreira, F. C. Gozzo, A. L. B. Formiga, P. P. Corbi. *Spectrochimica Acta A* 122 (2014) 209–215. A new platinum complex with tryptophan: synthesis, structural characterization, DFT studies and biological assays in vitro over human tumorigenic cells. [doi:10.1016/j.saa.2013.11.044]
46. M. A. Carvalho, P. F. Andrade, F. C. A. Corbi, M. C. Goncalves, A. L. B. Formiga, I. O. Mazali, J. A. Bonacin, P. P. Corbi. *Synthetic Metals* 185–186 (2013) 61–65. A simple method to synthesize fluorescent modified gold nanoparticles using tryptamine as the reducing and capping agent. [doi:10.1016/j.synthmet.2013.09.038]
45. C. C. Corrêa, S. A. V. Jannuzzi, M. Santhiago, R. A. Timm, A. L. B. Formiga, L. T. Kubota. *Electrochimica Acta* 113 (2013) 332–339. Modified electrode using Multi-Walled Carbon Nanotubes and a metallopolymer for amperometric detection of L-cysteine. [doi:10.1016/j.electacta.2013.09.050]
44. C. Abbehausen, E. J. Peterson, R. E. F. Paiva, P. P. Corbi, A. L. B. Formiga, Y. Qu, N. P. Farrell. *Inorganic Chemistry* 52 (2013) 11280–11287. Gold(I)-phosphine-N-heterocycles. Biological activity and specific (ligand) interactions on the C-terminal HIVNCP7 zinc finger. [doi:10.1021/ic401535s]
43. A. L. B. Formiga, S. Vancoillie, K. Pierloot. *Inorganic Chemistry* 52 (2013) 10653–10663. Electronic spectra of N-heterocyclic pentacyanoferrate(II) complexes in different solvents, studied by multiconfigurational perturbation theory. [doi:10.1021/ic401704r]
42. I. L. Paiva, G. S. G. Carvalho, P. P. Corbi, F. R. G. Bergamini, A. L. B. Formiga, R. Diniz, W. R. Carmo, A. D. Silva, C. Q. F. Leite, F. R. Pavan, A. Cuin. *Polyhedron* 62 (2013) 104–109. Silver(I) complexes with symmetrical Schiff bases: synthesis, structural characterization, DFT studies and antimycobacterial assays. [doi:10.1016/j.poly.2013.06.031]
41. I. M. P. Silva, D. M. Profirio, R. E. F. Paiva, M. Lancellotti, A. L. B. Formiga, P. P. Corbi. *Journal of Molecular Structure* 1049 (2013) 1–6. A silver complex with ibuprofen: synthesis, solid state characterization, DFT calculations and antibacterial assays. [doi:10.1016/j.molstruc.2013.06.034]
40. R. B. Ferreira, P. Scheetz, A. L. B. Formiga. *RSC Advances* 3 (2013) 10181–10184. Synthesis of amine-tagged metal-organic frameworks isostructural to MIL-101(Cr). [doi:10.1039/c3ra23443f]
39. E. M. Linares, A. L. B. Formiga, F. Galembeck, L. T. Kubota, S. Thalhammer. *Journal of Materials Chemistry B* 1 (2013) 2236–2244. One step synthesis of polymer core-shell particles with carboxylated Ruthenium complex: potential tool for biomedical applications. [doi:10.1039/c3tb00316g]
38. C. C. Corrêa, M. Santhiago, A. L. B. Formiga, L. T. Kubota. *Electrochimica Acta* 90 (2013) 309–316. In-situ activated nanostructured platform for oxidized glutathione biosensing. [doi:10.1016/j.electacta.2012.12.046]
37. C. Abbehausen, S. F. Sucena, M. Lancellotti, T. A. Heinrich, E. P. Abro, C. M. Costa-Neto, A. L. B. Formiga, P. P. Corbi. *Journal of Molecular Structure* 1035 (2013) 421–426. Synthesis, spectroscopic characterization, DFT studies, and antibacterial and antitumor activities of a novel water soluble Pd(II) complex with L-alliin. [doi:10.1016/j.molstruc.2012.11.065]

36. M. A. Carvalho, R. E. F. Paiva, F. R. G. Bergamini, A. F. Gomes, F. C. Gozzo, W. R. Lustri, A. L. B. Formiga, P. P. Corbi. *Journal of Molecular Structure* 1031 (2013) 125–131. A silver complex with tryptophan: synthesis, structural characterization, DFT studies and antibacterial and antitumor assays in vitro. [doi:10.1016/j.molstruc.2012.07.044]
35. S. A. V. Jannuzzi, B. Martins, M. I. Felisberti, A. L. B. Formiga. *Journal of Physical Chemistry B* 116 (2012) 14933–14942. Supramolecular interactions between inorganic and organic blocks of pentacyanoferrate/poly(4-vinylpyridine) hybrid metallopolymer. [doi:10.1021/jp308583a]
34. C. Abbehausen, R. E. F. Paiva, P. P. Corbi, A. L. B. Formiga. *Chemical Physics* 408 (2012) 62–68. Studies of the tautomeric equilibrium of 1,3-thiazolidine-2-thione: theoretical and experimental approaches. [doi:10.1016/j.chemphys.2012.09.019]
33. V. Z. Mota, G. S. G. Carvalho, P. P. Corbi, F. R. G. Bergamini, A. L. B. Formiga, R. Diniz, M. C. R. Freitas, A. D. Silva, A. Cuin. *Spectrochimica Acta A* 99 (2012) 110–115. Crystal structure and theoretical studies of the keto-enol isomerism of N,N-bis(salicylidene)-o-phenylenediamine (salophen). [doi:10.1016/j.saa.2012.09.002]
32. F. R. G. Bergamini, M. A. Ferreira Jr., R. E. F. Paiva, A. F. Gomes, F. C. Gozzo, A. L. B. Formiga, F. C. A. Corbi, I. O. Mazali, D. A. Alves, M. Lancellotti, P. P. Corbi. *RSC Advances* 2 (2012) 10372–10379. A binuclear silver complex with L-buthionine sulfoximine: Synthesis, spectroscopic characterization, DFT studies and antibacterial assays. [doi:10.1039/c2ra21433d]
31. G. S. M. Costa, P. P. Corbi, C. Abbehausen, A. L. B. Formiga, W. R. Lustri, A. Cuin. *Polyhedron* (2012) 210–214. Silver(I) and gold(I) complexes with penicillamine: Synthesis, spectroscopic characterization and biological studies. [doi:10.1016/j.poly.2012.01.002]
30. S. F. Sucena, R. E. F. Paiva, C. Abbehausen, I. B. Mattos, M. Lancellotti, A. L. B. Formiga, P. P. Corbi. *Spectrochimica Acta A* 89 (2012) 114–118. Chemical, spectroscopic characterization, DFT studies and antibacterial activities in vitro of a new gold(I) complex with rimantadine. [doi:10.1016/j.saa.2011.12.043]
29. R. E. F. Paiva, C. Abbehausen, A. F. Gomes, F. C. Gozzo, W. R. Lustri, A. L. B. Formiga, P. P. Corbi. *Polyhedron* 36 (2012) 112–119. Synthesis, spectroscopic characterization, DFT studies and antibacterial assays of a novel silver(I) complex with the anti-inflammatory nimesulide. [doi:10.1016/j.poly.2012.02.002]
28. M. A. Carvalho, B. C. Souza, R. E. F. Paiva, F. R. G. Bergamini, A. F. Gomes, F. C. Gozzo, W. R. Lustri, A. L. B. Formiga, G. Rigatto, P. P. Corbi. *Journal of Coordination Chemistry* 65 (2012) 1700–1711. Synthesis, spectroscopic characterization, DFT studies, and initial antibacterial assays of a new palladium(II) complex with tryptophan. [doi:10.1080/00958972.2012.679660]
27. P. P. Corbi, A. L. B. Formiga, F. A. Bonk, F. A. Quinto, D. K. D. Ferraresi, W. R. Lustri, A. C. Massabni. *Journal of Molecular Structure* (2012) 21–26. Synthesis, spectroscopic characterization and molecular modeling of a tetranuclear platinum(II) complex with thiazolidine-4-carboxylic acid. [doi:10.1016/j.molstruc.2012.03.074]
26. C. C. Corrêa, Murilo Santhiago, C. C. C. Silva, A. L. B. Formiga, L. Kubota. *Electroanalysis* 23 (2011) 2562–2568. Synthesis and electrochemical characterization of poly(2-methoxy-4-vinylphenol) with MWCNTs. [doi:10.1002/elan.201100233]
25. C. Abbehausen, T. A. Heinrich, E. P. Abro, C. M. Costa-Neto, W. R. Lustri, A. L. B. Formiga, P. P. Corbi. *Polyhedron* 30 (2011) 579–583. Chemical, spectroscopic characterization, DFT studies and initial pharmacological assays of a silver(I) complex with N-acetyl-L-cysteine. [doi:10.1016/j.poly.2010.11.025]

24. M. B. M. Spera, F. A. Quinto, D. K. D. Ferraresi, W. R. Lustri, A. Magalhes, A. L. B. Formiga, P. P. Corbi. *Spectrochimica Acta A* 78 (2011) 313–318. Palladium(II) complex with S-allyl-L-cysteine: New solid-state NMR spectroscopic measurements, molecular modeling and antibacterial assays. [doi:10.1016/j.saa.2010.10.012]
23. C. Abbehausen, J. F. Castro, M. B. M. Spera, T. A. Heinrich, C. M. Costa-Neto, W. L. Lustri, A. L. B. Formiga, P. P. Corbi. *Polyhedron* 30 (2011) 2354–2359. Synthesis, spectroscopic characterization, DFT studies and biological assays of a novel gold(I) complex with 2-mercaptothiazoline. [doi:10.1016/j.poly.2011.06.021]
22. L. P. Costa, A. L. B. Formiga, I. O. Mazali, F. A. Sigoli. *Synthetic Metals* 161 (2011) 1517–1521. Spontaneous formation of highly dispersed spheroidal metallic silver nanoparticles in surfactant-free N,N-dimethylacetamide. [doi:10.1016/j.synthmet.2011.04.018]
21. Z. A. Carneiro, J. C. B. Moraes, F. P. Rodrigues, R. G. Lima, C. Curtis, Z. N. Rocha, M. Paulo, L. M. Bendhack, A. C. Tedesco, A. L. B. Formiga, R. S. Silva. *Journal of Inorganic Biochemistry* 105 (2011) 1035–1043. Photocytotoxic activity of a nitrosyl phthalocyanine ruthenium complex – a system capable of producing nitric oxide and singlet oxygen. [doi:10.1016/j.jinorgbio.2011.04.011]
20. W. S. Castello, M. B. M. Spera, A. F. Gomes, F. C. Gozzo, W. R. Lustri, A. L. B. Formiga, P. P. Corbi. *Journal of Coordination Chemistry* 64 (2011) 272–280. Synthesis, spectroscopic characterization, and antibacterial assays in vitro of a new platinum(II) complex with methionine sulfoxide. [doi:10.1080/00958972.2010.540325]
19. R. S. Santos, S. A. V. Jannuzzi, A. L. B. Formiga. *Quimica Nova* 33 (2010) 1815–1820. Acetatos homo e heterotrínucleares de ferro: um experimento para o laboratório de química de coordenação. [doi:10.1590/S0100-40422010000800034]
18. H. E. Toma, K. Araki, A. L. B. Formiga, A. D. P. Alexiou, G. S. Nunes. *Quimica Nova* 33 (2010) 2046–2050. Electrocatalytic oxidation of methanol by the  $[\text{Ru}_3\text{O}(\text{OAc})_6(\text{py})_2(\text{CH}_3\text{OH})]^{3+}$  cluster: improving the metal-ligand electron transfer by accessing the higher oxidation states of a multicentered system. [doi:10.1590/S0100-40422010001000008]
17. S. Nikolaou, A. L. B. Formiga, H. E. Toma. *Inorganic Chemistry Communications* 13 (2010) 1032–1035. Probing the electronic delocalization in a cyclic pyrazine ruthenium cluster hexamer. [doi:10.1016/j.inoche.2010.06.003]
16. C. Abbehausen, A. L. B. Formiga, E. Sabadini, I. V. P. Yoshida. *Journal of the Brazilian Chemical Society* 21 (2010) 1867–1876. A beta-cyclodextrin/siloxane hybrid polymer: synthesis, characterization and inclusion complexes. [doi:10.1590/S0103-50532010001000011]
15. J. E. Benedetti, A. D. Goncalves, A. L. B. Formiga, M. -A. de Paoli, X. Li, J. R. Durrant, A. F. Nogueira. *Journal of Power Sources* 195 (2010) 1246–1255. A polymer gel electrolyte composed of a poly(ethylene oxide) copolymer and the influence of its composition on the dynamics and performance of dye-sensitized solar cells. [doi:10.1016/j.jpowsour.2009.09.008]
14. A. L. B. Formiga, A. F. Nogueira, K. Araki, H. E. Toma. *New Journal of Chemistry* 32 (2008) 1167–1174. Contrasting photoelectrochemical behavior of two isomeric supramolecular dyes based on meso-tetra(pyridyl)porphyrin incorporating four ( $\mu_3$ -oxo)- triruthenium(III) clusters. [doi:10.1039/b709888j]
13. R. A. Timm, J. A. Bonacin, A. L. B. Formiga, H. E. Toma. *Journal of the Brazilian Chemical Society* 19 (2008) 287–292. A Theoretical Study of the Tautomerism and Vibrational Spectra of 4,5-Diamine-2,6-dimercaptopyrimidine. [doi:10.1590/S0103-50532008000200013]
12. J. A. Bonacin, A. L. B. Formiga, V. H. S. Melo, H. E. Toma. *Vibrational Spectroscopy* 44 (2007) 133–141. Vibrational spectra and theoretical studies of tautomerism and hydrogen bonding in the violuric acid and 6-amino-5-nitrosouracil system. [doi:10.1016/j.vibspec.2006.10.007]

11. G. S. Nunes, A. D. P. Alexiou, K. Araki, A. L. B. Formiga, R. C. Rocha, H. E. Toma. *European Journal of Inorganic Chemistry* (2006) 1487–1495. Proton-Coupled Redox Chemistry, Oxidative Reactivity, and Electronic Characterization of Aqua-, Hydroxo-, and Oxo-Triruthenium Clusters. [doi:10.1002/ejic.200501089]
10. M. N. Eberlin, D. M. Tomazela, K. Araki, A. D. P. Alexiou, A. L. B. Formiga, H. E. Toma, S. Nikolaou. *Organometallics* 25 (2006) 3245–3250. Electrospray Ionization Tandem Mass Spectrometry of Polymetallic -Oxo- and Carboxylate-Bridged  $[\text{Ru}_3\text{O}(\text{CH}_3\text{COO})_6(\text{Py})_2(\text{L})]^+$  Complexes: Intrinsic Ligand (L) Affinities with Direct Access to Steric Effects. [doi:10.1021/om060026k]
9. A. F. Nogueira, S. H. Toma, M. Vidotti, A. L. B. Formiga, S. I. C. Torresi, H. E. Toma. *New Journal of Chemistry* 29 (2005) 320–324. A Highly Efficient Redox Chromophore for Simultaneous Application in Photoelectrochemical Dye Sensitized Solar Cell and Electrochromic Devices. [doi:10.1039/b411122b]
8. H. E. Toma, A. D. P. Alexiou, A. L. B. Formiga, M. Nakamura, S. Dovidauskas, M. N. Eberlin, D. M. Tomazela. *Inorganica Chimica Acta* 358 (2005) 2891–2899. A nitric oxide releaser based on the  $\mu$ -oxo-hexaacetate-bis(4-methylpyridine)triruthenium nitrosyl complex. [doi:10.1016/j.ica.2004.08.004]
7. H. Winnischofer, A. L. B. Formiga, M. Nakamura, H. E. Toma, K. Araki, A. F. Nogueira. *Photochemical & Photobiological Sciences* 4 (2005) 359–366. Conduction and photoelectrochemical properties of monomeric and electropolymerized tetra-ruthenated porphyrin films. [doi:10.1039/b417786j]
6. I. Mayer, A. L. B. Formiga, F. M. Engelmann, H. Winnischofer, P. V. Oliveira, D. M. Tomazela, M. N. Eberlin, H. E. Toma; K. Araki. *Inorganica Chimica Acta* 358 (2005) 2629–2642. Study of the spectroscopic and electrochemical properties of tetra-ruthenated porphyrins by theoretical-experimental approach. [doi:10.1016/j.ica.2005.03.020]
5. J. M. T. Santos, R. R. Silva, A. L. B. Formiga, L. W. Tinoco, J. D. Figueroa-Villar. *Chemical Physics* 306 (2004) 143–151. NMR Study of the Leaving Ligand and Solvent Effects on the Solvolysis of  $(\mu$ -oxo)bis( $\mu$ -acetato)diruthenium(III) Complexes. [doi:10.1016/j.chemphys.2004.07.026]
4. A. F. Nogueira, A. L. B. Formiga, H. Winnischofer, M. Nakamura, F. M. Engelmann, K. Araki, H. E. Toma. *Photochemical & Photobiological Sciences* 3 (2004) 56–62. Photoelectrochemical properties of supramolecular species containing porphyrin and ruthenium complexes on  $\text{TiO}_2$  films. [doi:10.1039/b306702e]
3. A. F. Nogueira, L. F. O. Furtado, A. L. B. Formiga, M. Nakamura, K. Araki, H. E. Toma. *Inorganic Chemistry* 43 (2004) 396–398. Sensitization of  $\text{TiO}_2$  by supramolecules containing zinc porphyrins and ruthenium-polypyridyl complexes. [doi:10.1021/ic0345727]
2. K. Araki, H. Winnischofer, H. E. B. Viana, M. M. Toyama, F. M. Engelmann, I. Mayer, A. L. B. Formiga, H. E. Toma. *Journal of Electroanalytical Chemistry* 562 (2004) 145–152. Enhanced electrochemical and electrocatalytic activity of a new supramolecular manganese-porphyrin species containing four bis(bipyridine)(aqua)ruthenium(II) complexes. [doi:10.1016/j.jelechem.2003.08.025]
1. J. M. T. Santos, A. L. B. Formiga, J. D. Figueroa-Villar. *Journal of Molecular Structure* 608 (2002) 143–149. NMR and Molecular Modeling Study of Ligand Exchange Induced Structural Changes in Diruthenium Complexes. [doi:10.1016/S0022-2860(01)00922-X]