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Eliana Muccillo	Ipen	Intragranular phenomena in Ceramic Oxides Technology: Development of Ceramic Sensors
Maria Aparecida Zaghete	UNESP	Powder Synthesis
Carlos de Oliveira Paiva Santos	UNESP	XRD and Rietveld Method

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- 1) Marcello R. Barsi Andreeta - Prof. Dr. Antonio Carlos Hernandes.

- 2) Graziela Pereira Casali - Prof. Dr. Elson Longo.
- 3) Alexandre Z. Simões - Prof. Dr. Elson Longo
- 4) Rodrigo Parra - Prof. Dr. José Arana Varela

Pos-docs

- 1) Carla dos Santos Riccardi - Prof. Dr. Elson Longo.
- 2) Márcio Luiz dos Santos - Prof. Dr. Elson Longo.
- 3) Andreas Ries - Prof. Dr. José Arana Varela.
- 4) Daniela Russo - Prof. Dr. José Arana Varela.
- 5) Vicente P B Marques - Prof. Dr. José Arana Varela.
- 6) Márcio José Bertolini - Prof. Dr. Maria Aparecida Zaghete.
- 7) Fabiana Villela da Motta- Prof. Dr. José Arana Varela.
- 8) Rodrigo Parra- Prof. Dr. José Arana Varela.
- 9) Laécio Santos Cavalcante- Prof. Dr. José Arana Varela.
- 10) Elaine Cristina Paris- Prof. Dr. José Arana Varela.

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- 5) Diogo Paschoalini Volanti - Prof. Dr. Elson Longo.
- 6) Elídia Aparecida Vetter Ferri Prof. Dr. Elson Longo.
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- 8) Júlio César Sczancoski - Prof. Dr. Elson Longo.
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- 13) Franciele de O. F. Bergamaski - Prof. Dr. Ernesto Chaves Pereira
- 14) Leandro Aparecido Pocrifka - Prof. Dr. Ernesto Chaves Pereira.
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- 2) Cleocir José Dalmaschio - Prof. Dr. Edson Roberto Leite
- 3) Ricardo Henrique Gonçalves - Prof. Dr.Edson Roberto Leite.
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Scientific Initiation Students

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- 26) Renata Lang Sala- Prof. Dr. Emerson Rodrigues de Camargo.
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International Articles

- 1- "Improvement of fatigue resistance on La modified BiFeO₃ thin films" A.Z. Simões, L.S. Cavalcante, C.S. Riccardi, J.A. Varela, E. Longo, *Current Applied Physics* 9 (2) 520-523, 2009.
- 2- "Influence of synthesis conditions on carbonate entrapment in perovskite SrSnO₃" M.C.F. Alves, M.R. Nascimento, S.J.G. Lima, P.S. Pizani, J.W.M. Espinosa, E. Longo, L.E.B. Soledade, A.G. Souza, I.M.G. Santos, *Materials Letters* 63 (1) 118-120, 2009.
- 3- "Development of metal oxide nanoparticles by soft chemical method" M.I.B. Bernardi, C.A.C. Feitosa, C.A. Paskocimas, E. Longo, C.O. Paiva-Santos, *Ceramics International* 35 (1) 463-466, 2009.
- 4- "Synthesis, growth process and photoluminescence properties of SrWO₄ powders" J.C. Sczancoski, L.S. Cavalcante, M.R. Joya, J.W.M. Espinosa, P.S. Pizani, J.A. Varela, E. Longo, *Journal of Colloid Interface Science* 330 (1) 227-236, 2009.
- 5- "NiTiO₃ powders obtained by polymeric precursor method: synthesis and characterization" K.P. Lopes, L.S. Cavalcante, A.Z. Simões, J.A. Varela, E. Longo, E.R. Leite, *Journal of Alloys and Compounds* 468 (1-2) 327-332, 2009.
- 6- "Effect of TiO₂ surface modification in Rhodamine B photodegradation" R. Libanori, T.R. Giraldi, E. Longo, E.R. Leite, C. Ribeiro, *Journal of Sol Gel Science and Technology* 49 (1) 95-100, 2009.
- 7- "Microstructure, dielectric properties and optical band gap control on the photoluminescence behavior of Ba[Zr_{0.25}Ti_{0.75}]O₃ thin films" L.S. Cavalcante, J.C. Sczancoski, F.S. de Vicente, M.T. Fabbro, M. Siu Li, J.A. Varela, E. Longo, *Journal of Sol Gel Science and Technology* 49 (1) 35-46, 2009.
- 8- "The influence of area/volume ratio on microstructure and non-Ohmic properties of SnO₂-based varistor ceramic blocks" M.A. Ramirez, J.F. Fernandez, M. de la Rubia, J. de Frutos, P.R. Bueno, E. Longo, J.A. Varela, *Journal of Materials Science: Materials in Electronics* 20 (1) 49-54, 2009.
- 9- "Production of biodiesel by esterification on palmitic acid over mesoporous aluminosilicate Al-MCM-41" A.C. Carmo Jr, L.K.C. de Souza, C.E.F. Costa, E. Longo, J.R. Zamian, G.N. da Rocha Filho, *Fuel* 88 (3) 461-468, 2009.
- 10- "Comparison of non-Ohmic accelerated ageing of the ZnO- and SnO₂-based voltage dependent resistors" M.A. Ramirez, M. Cilense, P.R. Bueno, E. Longo, J.A. Varela, *Journal of Physics D- Applied Physics* 42 (1) Art. n. 015503, 2009.
- 11- "Synthesis and characterization of lead zirconate titanate powders obtained by the oxidant peroxo method" E.R. Camargo, E.R. Leite, E. Longo, *Journal of Alloys and Compounds* 469 (1-2) 523-528, 2009.
- 12- "Synthesis, characterization, anisotropic growth and photoluminescence of BaWO₄" L.S. Cavalcante, J.C. Sczancoski, L.F. Lima, J.W.M. Espinosa, P.S. Pizani, J.A. Varela, E. Longo, *Crystal Growth and Design* 9 (2) 1002-1012, 2009.
- 13- "Synthesis of fine micro-sized BaZrO₃ powders based on a decaoctahedron shape by a microwave-assisted hydrothermal method" M.L. Moreira, J. Andrés, J.A. Varela, E. Longo, *Crystal Growth and Design* 9 (2) 833-839, 2009.
- 14- "Phase transformation in titania nanocrystals by the oriented attachment mechanism: The role of the pH value" C. Ribeiro, C.M. Barrado, E.R. Camargo, E. Longo, E.R. Leite, *Chemistry- A European Journal* 15 (9) 2217-2222, 2009.
- 15- "Preparation of CeO₂ by a simple microwave-hydrothermal method" C.S. Riccardi, R.C. Lima, M.L. dos Santos, P.R. Bueno, J.A. Varela, E. Longo, *Solid State Ionics* 180 (2-3) 288-291, 2009.
- 16- "Intense blue and green photoluminescence emissions at room temperature in barium zirconate powders" L.S. Cavalcante, J.C. Sczancoski, J.W.M. Espinosa, V.R. Mastelaro, A. Michalowicz, P.S. Pizani, F.S. de Vicente, M.S. Li, J.A. Varela, E. Longo, *Journal of Alloys and Compounds* 471 (1-2) 253-258, 2009.

- 17- "Retention characteristics of lanthanum-doped bismuth titanate films annealed at different furnaces" A.Z. Simões, E.C. Aguiar, E. Longo, J.A. Varela, *Materials Chemistry and Physics* 115 (1) 434-438, 2009.
- 18- "Fatigue and retention properties of Bi_{3.25}La_{0.75}Ti₃O₁₂ thin films using LaNiO₃ bottom electrodes" A.Z. Simões, E.C. Aguiar, C.S. Riccardi, E. Longo, J.A. Varela, *Materials Characterization* 60 (5) 353-356, 2009.
- 19- "The influence of temperature on the color of TiO₂: Cr pigments" F.T.G. Vieira, D.S. Melo, S.J.G. Lima, E. Longo, C.A. Paskocimas, W. Silva Jr, A.G. Souza, I.M.G. Santos, *Materials Research Bulletin* 44 (5) 1086-1092, 2009.
- 20- "The role of the Eu³⁺ ions in structure and photoluminescence properties of SrBi₂Nb₂O₉ powders" D.P. Volanti, I.L.V. Rosa, E.C. Paris, C.A. Paskocimas, P.S. Pizani, J.A. Varela, E. Longo, *Optical Materials*, 31 (6) 995-999, 2009.
- 21- "Antimony-doped tin oxide nanocrystals: Synthesis and solubility behavior in organic solvents" R.O. Silva, T.G. Conti, A.F. Moura, D.G. Stroppa, L.C.G. Freitas, C. Ribeiro, E.R. Camargo, E. Longo, E.R. Leite, *ChemPhysChem* 10 (5) 841-846, 2009.
- 22- "A polaronic stacking fault defect model for CaCu₃Ti₄O₁₂ material: an approach for the origin of the huge dielectric constant and semiconducting coexistent features" P.R. Bueno, R. Tararam, R. Parra, E. Joanni, M.A. Ramirez, W.C. Ribeiro, E. Longo, J.A. Varela, *Journal of Physics D-Applied Physics* 42 (5) Art. n. 055404, 2009.
- 23- "The influence of the film thickness of nanostructured alpha-Fe₂O₃ on water photooxidation" F.L. Souza, K.P. Lopes, E. Longo, E.R. Leite, *Physical Chemistry Chemical Physics* 11 (8) 1215-1219, 2009.
- 24- "Morphology and blue photoluminescence emission of PbMoO₄ processed in conventional hydrothermal" J.C. Sczancoski, M.R.D. Bomio, L.S. Cavalcante, M.R. Joya, P.S. Pizani, J.A. Varela, E. Longo, M.S. Li, J.A. Andrés, *Journal of Physical Chemistry C* 113 (14) 5812-5822, 2009.
- 25- "Effect of strontium addition on ferroelectric phase transition of PZT thin films prepared by chemical route" F.M. Pontes, M.S. Galhiane, L.S. Santos, A. Gavino, L.A. Petit, D.S.L. Pontes, E. Longo, A.J. Chiquito, C.E.F. Costa, *Applied Physics A* 95 (3) 693-698, 2009.
- 26- "Carbon-coated SnO₂ nanobelts nanoparticles by single catalytic step" N.L.V. Carreño, M.R. Nunes, I.T.S. Garcia, M.O. Orlandi, H.V. Fajardo, E. Longo, *Journal of Nanoparticle Research* 11 (4) 955-963, 2009.
- 27- "Nanosized lead lanthanum titanate (PLT) ceramic powders synthesized by the oxidant peroxo method" E.R. Camargo, C.M. Barrado, C. Ribeiro, E. Longo, E.R. Leite, *Journal of Alloys and Compounds* 475 (1-2) 817-821, 2009.
- 28- "Structural transition on Pb_{1-x}Sr_xTiO₃ produced by chemical method" S.H. Leal, M.T. Escote, F.M. Pontes, E.R. Leite, M.R. Joya, P.S. Pizani, E. Longo, J.A. Varela, *Journal of Alloys and Compounds* 475 (1-2) 940-945, 2009.
- 29- "Disorder-dependent photoluminescence in Ba_{0.8}Ca_{0.2}TiO₃ at room temperature" F.V. Motta, A.T. de Figueiredo, V.M. Longo, V.R. Mastelaro, A.Z. Freitas, L. Gomes, N.D. Vieira Jr., E. Longo, J.A. Varela, *Journal of Luminescence* 129 (7) 686-690, 2009.
- 30- "Influence of the modifier on the short and long range disorder of stannate perovskites" M.C.F. Alves, S.C. Souza, H.H.S. Lima, M.R. Nascimento, M.R.S. Silva, J.W.M. Espinosa, S.J.G. Lima, E. Longo, P.S. Pizani, L.E.B. Soledade, A.G. Souza, I.M.G. Santos, *Journal of Alloys and Compounds* 476 (1-2) 507-512, 2009.
- 31- "Structural and dielectric properties of Ba_{0.5}Sr_{0.5}(Sn_xTi_{1-x})O₃ ceramics obtained by the soft chemical method" I.A. Souza, L.S. Cavalcante, J.C. Sczancoski, F. Moura, C.O. Paiva-Santos, J.A. Varela, A.Z. Simões, E. Longo, *Journal of Alloys and Compounds* 477 (1-2) 877-882, 2009.
- 32- "Structure and ferro/piezoelectric properties of SrBi₄Ti₄O₁₅ films deposited on TiO₂ buffer layer" A.Z. Simões, E.C. Aguiar, C.S. Riccardi, F. Moura, E. Longo, J.A. Varela, *Journal of Alloys and Compounds* 477 (1-2) 85-89, 2009.
- 33- "Polymeric precursor method to the synthesis of XWO₄ (X= Ca and Sr) thin films- Structural, microstructural and spectroscopy investigations" F.M. Pontes, M.S. Galhiane, L.S. Santos, L.A. Petit, F.P. Kataoka, G.H. Mabuchi,

- E. Longo, M. Zampieri, P.S. Pizani, *Journal of Alloys and Compounds* 477 (1-2) 608-615, 2009.
- 34- "Photoluminescent behavior of SrZrO₃/SrTiO₃ multilayer thin films" M.L. Moreira, J. Andrés, V.M. Longo, M.S. Li, J.A. Varela, E. Longo, *Chemical Physics Letters* 473 (4-6) 293-298, 2009.
- 35- "Nanocomposites of styrene-butadiene rubber and synthetic anatase obtained by a colloidal route and their photooxidation" T.M. Arantes, E.R. Leite, E. Longo, E.R. Camargo, *Journal of Applied Polymer Science* 113 (3) 1898-1904, 2009.
- 36- "Effect of niobium dopant on fatigue characteristics of BiFeO₃ thin films grown Pt electrodes" A.Z. Simões, R.F. Pianno, E.C. Aguiar, E. Longo, J.A. Varela, *Journal of Alloys and Compounds* 479 (1-2) 274-279, 2009.
- 37- "Dielectric investigations of vanadium modified barium zirconium titanate ceramics obtained from mixed oxide method" F. Moura, A.Z. Simões, E.C. Aguiar, I.C. Nogueira, M.A. Zaghete, J.A. Varela, E. Longo, *Journal of Alloys and Compounds* 479 (1-2) 280-283, 2009.
- 38- "(Sr,Tm)ZrO₃ powders prepared by the polymeric precursor method: Synthesis, optical properties and morphological characteristics" M.D. Gonçalves, L.S. Cavalcante, J.C. Sczancoski, J.W.M. Espinosa, P.S. Pizani, E. Longo, I.L.V. Rosa, *Optical Materials* 31 (8) 1134-1143, 2009.
- 39- "Grain size effect on the electrical response of SnO₂ thin and thick film gas sensors" R. Savu, M.A. Ponce, E. Joanni, P.R. Bueno, M. Castro, M. Cilense, J.A. Varela, E. Longo, *Materials Research-Ibero-American Journal of Materials* 12 (1) 83-87, 2009.
- 40- "Europium (III) concentration effect on the spectroscopy and photoluminescent properties of BaMoO₄: Eu" I.L.V. Rosa, A.P.A. Marques, M.T.S. Tanaka, F.V. Motta, J.A. Varela, E.R. Leite, E. Longo, *Journal of Fluorescence* 19 (3) 495-500, 2009.
- 41- "NMR study of styrene-butadiene rubber (SBR) and TiO₂ nanocomposites" T.M. Arantes, K.V. Leão, M.I.B. Tavares, A.G. Ferreira, E. Longo, E.R. Camargo, *Polymer Testing* 28 (5) 490-494, 2009.
- 42- "Photoluminescence in quasi-amorphous Pb_{0.8}X_{0.2}Zr_{0.53}Ti_{0.47}O₃ (X=Ca, Sr and Ba) Powders: An optical and structural study" V.M. Longo, M.S. Silva, A.T. de Figueiredo, R.W.A. Franco, C. Vila, M. Cilense, J.A. Varela, E. Longo, J. Andrés, *Chemical Physics Letters* 475 (1-3) 96-100, 2009.
- 43- "Effect of annealing atmosphere on phase formation and electrical characteristics of bismuth ferrite thin films" A.Z. Simões, C.S. Riccardi, M.L. dos Santos, F. González Garcia, E. Longo, J.A. Varela, *Materials Research Bulletin* 44 (8) 1747-1752, 2009.
- 44- "Single walled MgF₂ nanotubes" M.D. Ferreira, J.D. Santos, C.A. Taft, E. Longo, J.B.L. Martins, *Computational Materials Science* 46 (1) 233-238, 2009.
- 45- "Photoluminescent behavior of BaWO₄ powders processed in microwave-hydrothermal" L.S. Cavalcante, J.C. Sczancoski, J.W.M. Espinosa, J.A. Varela, P.S. Pizani, E. Longo, *Journal of Alloys and Compounds*, 474 195-200, 2009.
- 46- "Synthesis and photoluminescence behavior of Bi₄Ti₃O₁₂ powders obtained by the complex polymerization method" R.C. Oliveira, L.S. Cavalcante, J.C. Sczancoski, E.C. Aguiar, J.W.M. Espinosa, J.A. Varela, P.S. Pizani, E. Longo, *Journal of Alloys and Compounds*, 478 661-670, 2009.
- 47- "Effects of strontium and calcium simultaneous substitution on electrical and structural properties of Pb_{1-x}Ca_xSr_yTiO₃ thin films" D.S.L. Pontes, E. Longo, F.M. Pontes, M.A. Galhiane, L.S. Santos, M.A. Pereira da Silva, J.H.D. da Silva, A.J. Chiquito, P.S. Pizani, *Applied Physics A: Materials Science & Processing* 96 (3) 731-740, 2009.
- 48- "Photoluminescence behavior in MgTiO₃ powders with vacancy/distorted clusters and octahedral tilting" E.A.V. Ferri, J.C. Sczancoski, L.S. Cavalcante, E.C. Paris, J.W.M. Espinosa, A.T. de Figueiredo, P.S. Pizani, V.R. Mastelaro, J.A. Varela, E. Longo, *Materials Chemistry and Physics* 117 (1) 192-198, 2009.
- 49- "Behavior of biofuel addition on metallurgical properties of sinter" S.N. Silva, F. Vernilli, D.G. Pinatti, V.F. do Nascimento, E. Saito, M.P.

- Cangani, E.S. Neves, E. Longo, *Ironmaking and Steelmaking* 36 (5) 333-340, 2009.
- 50- "Reflux synthesis and hydrothermal processing of ZrO₂ nanopowders at low temperature" J.M.E. Matos, F.M.A. Júnior, L.S. Cavalcante, V. Santos, S.H. Leal, L.S. Santos- Júnior, M.R.M.C. Santos, e. Longo, *Materials Chemistry and Physics* 117 (2-3) 455-459, 2009.
- 51- "The effect of cooling rate during hydrothermal synthesis of ZnO nanorods" R. Savu, R. Parra, E. Joanni, B. Jancar, S.A. Eliziário, R. de Camargo, P.R. Bueno, J.A. Varela, E. Longo, M.A. Zaghete, *Journal of Crystal Growth* 311 (16) 4102-4108, 2009.
- 52- "Optical and dielectric relaxor behaviour of Ba(Zr_{0.25}Ti_{0.75})O₃ ceramic explained by means of distorted clusters" T. Badapanda, S.K. Rout, L.S. Cavalcante, J.C. Sczancoski, S. Panigrahi, E. Longo, M.S. Li, *Journal of Physics D: Applied Physics* 42 (17) Art. n. 175414, 2009.
- 53- "Evaluation of the effect of the stoichiometric ratio of Ca/Cu on the electrical and microstructural properties of the CaCuTi₄O₁₂ polycrystalline system" M.A. Ramirez, P.R. Bueno, R. Tararam, A.A. Cavalheiro, E. Longo, J.A. Varela, *Journal of Physics D: Applied Physics* 42 (18) Art. n. 185503, 2009.
- 54- "Structural and optical properties of CaTiO₃ perovskite-based materials obtained by microwave-assisted hydrothermal synthesis: An experimental and theoretical insight" M.L. Moreira, E.C. Paris, G.S. Nascimento, V.M. Longo, J.R. Sambrano, V.R. Mastelaro, M.I.B. Bernardi, J. Andrés, J.A. Varela, E. Longo, *Acta Materialia* 57 (17) 5174-5185, 2009.
- 55- "Heterogeneous Fenton reactants: a study of the behavior of iron oxide nanoparticles obtained by the polymeric precursor method" T.R. Giraldo, C.C. Arruda, G.M. da Costa, E. Longo, C. Ribeiro, *Journal of Sol-Gel Science and Technology* 52(2) 299-303, 2009.
- 56- "The role of oxygen vacancy in the photoluminescence property at room temperature of the CaTiO₃" J. Milanez, A.T. de Figueiredo, S.R. de lázaro, V.M. Longo, R. Erlo, V.R. Mastelaro, R.W.A. Franco, E. Longo, J.A. Varela, *Journal of Applied Physics* 106 (4) Art. n. 043526, 2009.
- 57- " Photoluminescence property of Ba (Zr_{0.25}Ti_{0.75})O₃ powders prepared by solid state reaction and polymeric precursor method" S.K. Rout, L.S. Cavalcante, J.C. Sczancoski, T.Badapanda, S.Panigrahi, M.S. Li, E. Longo, *Physica B* 404 (20) 3341-3347, 2009.
- 58- "Morphology and photoluminescence of HfO₂ obtained by microwave-hydrothermal" S.A. Eliziário, L.S. Cavalcante, J.C. Sczancoski, P.S. Pizani, J.A. Varela, J.W.M. Espinosa, E. Longo, *Nanoscale Research Letters* 4 (11) 1371-1379, 2009.
- 59- "Growth mechanism of octahedron-like BaMoO₄ microcrystals processed in microwave-hydrothermal: Experimental observations and computational modelin" L.S. Cavalcante, J.C. Sczancoski, R.L. Tranquilin, J.A. Varela, E. Longo, M.O. Orlandi, *Particuology* 7 (5) 353-362, 2009.
- 60- "Structural and thermal characterization of Zn_{2-x}CoxTiO₄" C.L. Santos, B.J.S. Capistrano, F.T.G. Vieira, M.R.C. Santos, S.J.G. Lima, E. Longo, C.A. Paskocimas, A.G. Souza, L.E.B. Soledade, I.M.G. Santos, *Journal of Thermal Analysis and Calorimetry* 97 (1) 137-141, 2009.
- 61- "Thermal analysis applied in the crystallization study of SrSnO₃" M.C.F. Alves, S.C. Souza, M.R.S. Silva, E.C. Paris, S.J.G. Lima, R.M. Gomes, E. Longo, A.G. Souza, I.M.G. Santos, *Journal of Thermal Analysis and Calorimetry* 97 (1) 179-183, 2009
- 62- " Influence of thermal treatment in the crystallization of NiWO₄ and ZnWO₄" A.L.M. de Oliveira, J.M. Ferreira, M.R.S. Silva, S.C. Souza, F.T.G. Vieira, E. Longo, A.G. Souza, I.M.G. Santos, *Journal of Thermal Analysis and Calorimetry* 97 (1) 167-172, 2009.
- 63- "Thermogravimetric and UV-vis spectroscopic studies of chromium redox reactions in rutile pigments" F.T.G. Vieira, S.C. Souza, A.L.M. de Oliveira, S.J.G. Lima, E. Longo, C.A. Paskocimas, L.E.B. Soledade, A.G. Souza, I.M.G. Santos, *Journal of Thermal Analysis and Calorimetry* 97 (1) 99-103, 2009.
- 64- "Thermal and structural characterization of SrTi_{1-x}NdxO₃" M.R.S. Silva, M.C.F. Alves, S.J.G. Lima, L.E.B. Soledade, E.C. Paris, E. Longo, A.G. de

- Souza, I.M.G. Santos, *Journal of Thermal Analysis and Calorimetry* 97 (2) 559-564, 2009.
- 65- "SrSnO₃:Nd obtained by the polymeric precursor method" S.C. Souza, M.C.F. Alves, A.L.M. Oliveira, E. Longo, F.T.G. Vieira, R.M. Gomes, L.E.B. Soledade, A.G. Souza, I.M.G. Santos, *Journal of Thermal Analysis and Calorimetry* 97 (1) 185-190, 2009.
- 66- "First principles calculations on the origin of violet-blue and green light photoluminescence emission in SrZrO₃ and SrTiO₃ perovskites" V.M. Longo, L.S. Cavalcante, M.G.S. Costa, M.L. Moreira, A.T. de Figueiredo, J. Andrés, J.A. Varela, E. Longo, *Theoretical Chemistry Accounts* (5-6) 385-394, 2009.
- 67- "Synthesis of (Ca, Nd) TiO₃ powders by complex polymerization, Rietveld refinement and optical properties" V.S. Marques, L.S. Cavalcante, J.C. Sczancoski, E.C. Paris, J.M.C. Teixeira, J.A. Varela, F.S. de Vicente, M.R. Joya, P.S. Pizani, M. S. Li, M.R.M.C. Santos, E. Longo, *Spectrochimica Acta* 74 (5) 1050-1059, 2009.
- 68- "High-efficient microwave synthesis and characterization of SrSnO₃" J. Bohnemann, R.Libanori, M.L. Moreira, E. Longo, *Chemical Engineering Journal* 155 (3) 905-909, 2009.
- 69- "Unveiling the chemical and morphological features of Sb-SnO₂ nanocrystals by the combined use of high-resolution transmission electron microscopy and ab initio surface energy calculations" D.G. Stroppa, L.A. Montoro, A. Berltran, T.G. Conti, R.O. da Silva, J. Andrés, E. Longo, E.R. Leite, A.J. Ramirez, *Journal of the American Chemical Society* 131 (40) 14544-14548, 2009.
- 70- "A new processing method of CaZn₂(OH)₆.2H₂O powders: Photoluminescence and growth mechanism" C.S. Xavier, J.C. Sczancoski, L.S. Cavalcante, C.O. Paiva-Santos, J.A. Varela, E. Longo, M.S. Li, *Solid State Sciences* 11 (12) 2173-2179, 2009.
- 71- "Effect of pH on the production of dispersed Bi₄Ge₃O₁₂ nanoparticles by combustion synthesis" F.A.A. de Jesus, R.S. Silva. A.C. Hernandez, Z.S. Macedo, *Journal of the European Ceramic Society* 29 (1) 125-130, 2009.
- 72- "High-temperature electrical properties of lanthanum beta-alumina solid electrolytes" G.C.C. Costa, R. Muccillo, *Ceramics International* 35 (1) 467-470, 2009.
- 73- "Synthesis and characterization of spherical and narrow size distribution indium oxide nanoparticles" C.C. Souza, J.F.Q. Rey, E.N.S Muccillo, *Applied Surface Science* 255 (6) 3779-3783, 2009.
- 74- "Microstructural, structural and electrical properties of La³⁺-modified Bi₄Ti₃O₁₂ ferroelectric ceramics" V.B. Santos, J.C. M'Peko, M. Mir, V.R. Mastelaro, A.C. Hernandez, *Journal of the European Ceramic Society* 29 (4) 751-756, 2009.
- 75- "Pt film electrodes prepared by the Pechini method for electrochemical decolourisation of Reactive Orange 16" L. Gomes, R. G. Freitas, G. R. P. Malpass, E. C. Pereira, A. J. Motheo, *Journal of Applied Electrochemistry* 39 (1) 117-121, 2009.
- 76- "Electron transport properties of undoped SnO₂ monocrystals" A.J.C. Lanfredi, R.G. Geraldés, O.M. Berengue, E.R. Leite, A.J. Chiquito, *Journal of Applied Physics* 105 (2) Art. n. 023708, 2009.
- 77- "Electrical transport in disordered and ordered magnetic domains under pressures and magnetic fields" J.A. Souza, R.F. Jardim, *Journal of Physics D-Applied Physics* 42 (3) Art. N. 032006, 2009.
- 78- "Brittle and ductile removal modes observed during diamond turning of carbon nanotube composites" R.G. Jasinevicius, M.R.B. Andreetta, J.S. Fossa, A.C. Hernandez, J.G. Duduch, P. Demont, P. Puech, *Proceedings of the Institution of Mechanical Engineers Part B-Journal of Engineering Manufacture* 223 (1) 1-8, 2009.
- 79- "Is the electrochemically-induced crystallization in lead oxifluoroborate glasses indeed an electrode- or/and an electric field-promoted phenomenon?" J.C. M'Peko, J.E. de Souza, A.C. Hernandez, *Scripta Materialia* 60 (3) 133-136, 2009.

- 80- "Structural and optical properties on thulium-doped LH PG-grown Ta₂O₅ fibres" M. Macatrão, M. Peres, C.P.L. Rubinger, M.J. Soares, L.C Costa, F.M. Costa, T. Monteiro, N. Franco, E. Alves, B.Z. Saggiaro, M.R.B. Andreetta, A.C. Hernandez, *Microelectronics Journal* 40 (2) Sp. Iss. Sl. 309-312, 2009.
- 81- "Synthesis of nanoparticles and nanofibers of polyaniline by potentiodynamic electrochemical polymerization" M.G. Xavier, E.C. Venancio, E.C. Pereira, F. L. Leite, E.R. Leite, A.G. MacDiarmid, L.H.C. Mattoso, *Journal of Nanoscience and Nanotechnology* 9 (3) 2169-2172, 2009.
- 82- "Nanostructured hematite thin films produced by spin-coating deposition solution: Application in water splitting" F.L. Souza, K.P. Lopes, P.A.P. Nascente, E.R. Leite, *Solar Energy Materials & Solar Cells* 93 (3) 362-638, 2009.
- 83- "Short-range structure of Pb_{1-x}BaxZr_{0.65}Ti_{0.35}O₃ ceramic compounds probed by XAS and Raman scattering techniques" V.R. Mastelaro, A. Mesquita, P.P. Neves, A. Michalovicz, M. Bounif, P.S. Pizani, M.R. Joya, J.A. Eiras, *Journal of Applied Physics* 105 (3) Art n. 033508, 2009.
- 84- "Electronic perspective on the electrochemistry of prussian blue films" Agrisuelas, P.R. Bueno, F.F. Ferreira. C. Gabrielli, J.J. Garcia- Jarreño, D. Gimenez-Romero, H. Perrot, F. Vicente, *Journal of the Electrochemistry Society* 156 (4) 74-80, 2009.
- 85- "Powder X-ray characterization of lithium thiazoildine-4-carboxylate" S.G. Antonio, C.O. Paiva-Santos, P.P. Corbi, A.C. Massabni, F.C. Andrade, *Powder Diffraction* 24 (1) 44-47, 2009.
- 86- "Effect of solvent on physical properties of samaria-doped ceria prepared by homogeneous precipitation" E.C.C. Souza, E.N.S. Muccillo, *Journal of Alloys and Compounds* 473 560-566, 2009.
- 87- "Electrophoretic deposition of ZrO₂-Y₂O₃: a bi-component study concerning self-assemblies" R.H.R. Castro, P.K. Kodama, D. Gouvêa, R. Muccillo, *Journal of Materials Science* 44 1851-1857, 2009.
- 88- "CO and methanol electrooxidation on Pt/Ir/Pt multilayers electrodes" R.G. Freitas, E.P. Antunes, E.C. Pereira, *Electrochimica Acta* 54 1999-2003, 2009.
- 89- "Thermal and structural investigation of Er:YAl₃(BO₃)₄ nanocrystalline powders" C.R. Ferrari, M. Baccia, A. Ibanez, A.C. Hernandez, *Journal of Therm. Analysis and Calorimetry*, 95 (1) 59-62, 2009.
- 90- "Microstructural, structural and dielectric properties of Er³⁺-modified BaTi_{0.85}Zr_{0.15}O₃ ceramics" E. Antonelli, M. Letonturier, J.C. MPeko, A.C. Hernandez, *Journal of the European Ceramic Society* 29 1449-1455, 2009.
- 91- "Thermoluminescent and optical absorption properties of neodymium doped yttrium aluminoborate and yttrium calcium borate glasses" E.M. Yoshimura, C.N. Santos, A. Ibanes, A.C. Hernandez, *Optical Materials* 31 795-799, 2009.
- 92- "Structural, dielectric, and optical properties of yttrium calcium borate glasses" C.N. Santos, D.S. Meneses, P. Echegut, D.R. Neuville, A.C. Hernandez, A. Ibanez, *Applied Physics Letters* 94 Art.n. 151901, 2009.
- 93- "Magnetic Fluids Based on γ -Fe₂O₃ and CoFe₂O₄ Nanoparticles Dispersed in Ionic Liquids" F.C.C. Oliveira, L.M. Rossi, R.F. Jardim, J.C. Rubim, *J. Phys. Chem. C* 113 8566-8572, 2009.
- 94- "Kinetics of interface state-limited hole injection in alfa naphthylphenylbiphenyl diamine (alfa-NPD) thin layers" G.G. Belmonte, J. Bisquert, P.R. Bueno, CF.O. Graeff, F.A. Castro, *Synthetic Metals* 159 480-486, 2009.
- 95- "Electrical relaxation in proton conductor composites based on (NH₄)H₂PO₄/TiO₂" J. Castillo, .E. M Matteron, R. Castillo, R.A. Vargas, P.R. Bueno, J.A. Varela, *Ionics* 15 (3) 329-336, 2009.
- 96- "Synthesis of YAP nanopowder by a soft chemistry route" J.F. Carvalho, F.S. de Vicente, S. Pairis, P. Odier, A.C. Hernandez, A. Ibanez, *Journal of the European Ceramic Society* 29 (12) 2511-2515, 2009.
- 97- "Al₂O₃/GdAlO(3) fiber for dental porcelain reinforcement" I.S. Medeiros, L.A. Luz, H.N. Yoshimura, P.F. César, A.C. Hernandez, *Journal of the Mechanical Behavior of Biomedical Materials* 2 (5) 471-477, 2009.

- 98- "Electron-phonon scattering in Sn-doped In₂O₃ FET nanowires probed by temperature-dependent measurements" O.M. Berengue, A.J. Chiquito, L.P. Pozzi, A.J.C. Lanfredi, E.R. Leite, *Nanotechnology* 20 (24) Art.n. 245706, 2009.
- 99- "Nanostructured Alumina-Coated Implant Surface: Effect on Osteoblast-Related Gene Expression and Bone-to-Implant Contact In Vivo" G. Mendonça, D.B.S. Mendonça, L.G.P. Simões, A.L. Araújo, E.R. Leite, W.R. Duarte, L.F. Cooper, F.J.L. Aragão, *International Journal of Oral & Maxillofacial Implants* 24 (2) 205-215, 2009.
- 100- "Magnetoresistance in Sn-Doped In₂O₃ Nanowires" O.M. Berengue, A.J.C. Lanfredi, L.P. Pozzi, J.F.Q. Rey, E.R. Leite, A.J. Chiquito, *Nanoscale Research Letters* 4 (8) 921-925, 2009.
- 101- "Impedance spectroscopy analysis of zirconia:8 mol% yttria solid electrolytes with graphite pore former" R. Muccillo, *Journal of Materials Research* 24 (5) 1780-1784, 2009.
- 102- "Impedance spectroscopy study of the sintering of yttria-stabilized zirconia/magnesia composites" F.C. Fonseca, D.Z. de Flório, R. Muccillo, *Solid State Ionics* 180 (11-13) 822-826, 2009.
- 103- "Electrical conductivity of yttria-stabilized zirconia with cobalt addition" G.C.T. Silva, E.N.S. Muccillo, *Solid State Ionics* 180 835-838, 2009.
- 104- "Preparation of recoverable Ru catalysts for liquid-phase oxidation and hydrogenation reactions" M.J. Jacinto, O.H.C.F. Santos, R.F. Jardim, R. Landers, L.M. Rossi, *Applied Catalysis A: General* 360 177-182, 2009.
- 105- "Nanocomposites Materials Generated from a Spray" R.F.C. Marques, J.M.A. Caiut, C.O. Paiva-Santos, S.J.L. Ribeiro, Y. Messaddeq, *Brazilian Journal of Physics* 39 (1) 176-181, 2009.
- 106- "Vanadium pentoxide nanostructures: An effective control of morphology and crystal structure in hydrothermal conditions" W. Avansi, Jr, C. Ribeiro, E.R. Leite, V.R. Mastelaro, *Crystal Growth and Design* 9 (8) 3626-3631, 2009.
- 107- "The effects of implant surface nanoscale features on osteoblast-specific gene expression" G. Mendonça, D.B.S. Mendonça, L.G.P. Simões, A.L. Araújo, E.R. Leite, W.R. Duarte, F.J.L. Aragão, L.F. Cooper, *Biomaterials* 30 (25) 4053-4062, 2009.
- 108- "Electron-phonon scattering in Sn-doped In₂O₃ FET nanowires probed by temperature-dependent measurements" O.M. Berengue, A.J. Chiquito, L.P. Pozzi, A.J.C. Lanfredi, E.R. Leite, *Nanotechnology* 20 (24) Art.n. 245706, 2009.
- 109- "Development of individual semiconductor nanowire for bioelectrochemical device at low overpotential conditions" F.N. Crespilho, A.J.C. Lanfredi, E.R. Leite, A.J. Chiquito, *Electrochemistry Communications* 11 (9) 1744-1747, 2009.
- 110- "Reply to 'Comment on "Electron-phonon scattering in Sn-doped In₂O₃ FET nanowires probed by temperature-dependent measurements" O.M. Berengue, A.J. Chiquito, L.P. Pozzi, A.J.C. Lanfredi, E.R. Leite, *Nanotechnology* 20 (46) Art. n. 468002, 2009.
- 111- "Impedance spectroscopy analysis of TiO₂ thin film gas sensors obtained from water-based anatase colloids" M.A. Ponce. R. Parra, R. Savu, E. Joanni, P.R. Bueno, M. Cilense, J.A. Varela, M.S. Castro, *Sensors and Actuators B-Chemical* 139 (2) 447-452, 2009.
- 112- "Study on the K₃Li₂Nb₅O₁₅ formation during the production of (Na_{0.5}K_{0.5})((1-x))Li_xNbO₃ lead-free piezoceramics at the morphotropic phase boundary" A.J. Paula, R. Parra, M.A. Zaghete, J.A. Varela, *Solid State Communications* 149 (39-40) 1587-1590, 2009.
- 113- "Correlation between the spectroscopic and structural properties with the occupation of Eu³⁺ sites in powdered Eu³⁺-doped LiTaO₃ prepared by the Pechini method" G. Gasparotto, M.A. Cebim, M.S. Góes, S.A.M. Lima, M.R. Davalos, J.A. Varela, C.O. Paiva-Santos, M.A. Zaghete, *Journal of Applied Physics* 106 (6) Art. n. 063509, 2009.
- 114- "Al₂O₃/GdAlO(3) fiber for dental porcelain reinforcement" I.S. Medeiros, L.A. Luz, H.N. Yoshimura, P.F. César, A.C. Hernandez, *Journal of the Mechanical Behavior of Biomedical Materials* 2 (5) 471-477, 2009.

- 115- "Luminescent and thermo-optical properties of Nd³⁺-doped yttrium aluminoborate laser glasses" C.N. Santos, D. Mohr, W.F. Silva, A.S.S. de Camargo, H. Eckert, M.S. Li, M.V.D. Vermelho, A.C. Hernandez, A. Ibanhez, C. Jacinto, *Journal of Applied Physics* 106 (2) Art. n. 023512, 2009.
- 116- "Synthesis of YAP phase by a polymeric method and phase progression mechanisms" J.F. Carvalho, F.S de Vicente, N. Marcellin, P. Odier, A.C. Hernandez, A. Ibanhez, *Journal of Thermal Analysis and Calorimetry* 96 (3) 891-896, 2009.
- 117- "Structural Characterization of Rare-Earth Doped Yttrium Aluminoborate Laser Glasses Using Solid State NMR" H. Deters, A.S.S. de Camargo, C.N. Santos, C.R. Ferrari, A.C. Hernandez, A. Ibanhez, M.T. Rinke, H. Eckert, *Journal of Physical Chemistry C* 113 (36) 16216-16225, 2009.
- 118- "Er:YAl₃(BO₃)(4) glassy thin films from polymeric precursor and sol-gel methods: Waveguides for integrated optics" L.J.Q. Maia, V.R. Mastelaro, A.C. Hernandez, J. Fick, A. Ibanhez, *Thin Solid Films* 517 (24) 6584-6587, 2009.
- 119- "Simple Optical Apparatus for Trepanning and Percussion Microdrilling Using Pulsed Green Nd:YAG Laser" J.S Fossa, M.R.B. Andreeta, A.C. Hernandez, *Laser Physics* 19 (10) 2045-2049, 2009.
- 120- "Simultaneous observation of the magnetic and electric behavior in a correlated system near a metal-semiconductor transition: ESR in pellets of conducting polymers" J.M. Kondo, L. Walmsley, C. Rettori, M.S. Sercheli, A.A. Correia, E.C. Pereira, *Physical Review B* 80 (1) Art. n. 014410, 2009.
- 121- "Electrochemical Preparation of Overlapped Porous Layers on Anodic Alumina" C.P.Oliveira, M.L. Cardoso, A.J.A. Oliveira, E.C. Pereira, *Journal of Nanoscience and Nanotechnology* 9 (11) 6487-6493, 2009.
- 122- "Nanograined Ferroelectric Ceramics Prepared by High-Pressure Densification Technique" A. Mesquita, M.I.B. Bernardi, V.R. Mastelaro, M. H. Lente, J.A. Eiras, M.R. Gallas, T.M.H. Costa, *Journal of the American Ceramic Society* 92 (8) 1679-1683, 2009.
- 123- "Synthesis and thermal decomposition of SrTi_{1-x}Fe (x) O-3 (0.0 a parts per thousand currency sign x a parts per thousand currency sign 0.1) powders obtained by the polymeric precursor method" L.F. da Silva, M.I.B. Bernardi, L.J.Q. Maia, G.J.M. Frigo, V.R. Mastelaro, *Journal of Thermal Analysis and Calorimetry* 97 (1) 173-177, 2009.
- 124- "Master sintering curve for Gd-doped CeO₂ solid electrolytes" D.Z. de Florio, V. Esposito, E. Traversa, R. Muccillo, F.C. Fonseca, *Journal of Thermal Analysis and Calorimetry* 97 (1) 143-147, 2009.
- 125- "Preparation and evaluation of an experimental luting glass ionomer cement to be used in dentistry" M.J. Bertolini, M.A. Zaghete, R. Gimenes, G.C. Padovani, A.S. Cruz, *Journal of Materials Science- Materials in Medicine* 20 (9) 1781-1785, 2009.
- 126- "Use of infrared and magnetic nuclear resonance techniques in the characterization of the acid-base reaction of an experimental dental cement" M.J. Bertolini, M.A. Zaghete, R. Gimenes, *Química Nova* 32 (5) 1231-1234, 2009.
- 127- "Application of impedance spectroscopy to evaluate the effect of different setting accelerators on the developed microstructures of calcium phosphate cements" H.E. Romeo, P.R. Bueno, M.A. Fanovich, *Journal of Materials Science- Materials in Medicine* 20 (8) 1619-1627, 2009.
- 128- "Dielectric relaxation and dc conductivity on the PVOH-CF₃COONH₄ polymer system" J. Castillo, M. Chacon, R. Castillo, R.A Vargas, P.R. Bueno, J.A. Varela, *Ionics* 15 (5) 537-544, 2009.
- 129- "Surface Passivation of Nanoporous TiO₂ via Atomic Layer Deposition of ZrO₂ for Solid-State Dye-Sensitized Solar Cell Applications" T.C. Li, M.S. Góes, F. Fabregat-Santiago, J. Bisquert, P.R. Bueno, C. Prasittichai, J.T. Hupp, T.J. Marks, *Journal of Physical Chemistry C* 113 (42) 18385-18390, 2009.
- 130- "Pure and Gd doped LAMOX powders and thin films obtained by chemical route" I.T. Weber, P.R. Baracho, F. Rangel, E.C. Paris, E.N.S. Muccillo, *Materials Science and Technology* 25 (11) 1346-1350, 2009.

- 131- "Effect of the excess of bismuth on the morphology and properties of the BaBi₂Nb₂O₉ thin films" T. Mazon, M.A. Zaghete, M. Cilense, J.A. Varela, *Ceramics International* 35 (8) 3143-3146, 2009.
- 132- "Cation Size Effects-Modified Phase and PTCR Development in Er³⁺ and Ca²⁺ Co-Doped BaTiO₃ Ceramics During Sintering" R.S. da Silva, J.C. M'Peko, L.D. Fontes, A.C. Hernandez, *Materials Research Ibero American Journal of Materials* 12 (3) 287-290, 2009.
- 133- "Using a galvanostatic anodization system as a water heater" M.S. Sikora, F. Trivinho-Strixino, M.E.B.R. Bello, E.C. Pereira, *Journal of Applied Electrochemistry* 39 (10) 1883-1887, 2009.
- 134- "DC conductivity study of polyaniline and poly(acrylonitrile-butadiene-styrene) blends" F.H. Cristovan, F.R. de Paula, S.G. Lemos, A.J.A. de Oliveira, E.C. Pereira, *Synthetic Metals* 159 (21-22) 2188-2190, 2009.
- 135- "Physical properties of alumina/yttria-stabilized zirconia composites with improved microstructure" R.H.L. Garcia, V. Ussui, N.B. de Lima, E.N.S. Muccillo, D.R.R. Lazar, *Journal of Alloys and Compounds* 486 (1-2) 747-753, 2009.
- 136- "Role of dipolar interactions in a system of Ni nanoparticles studied by magnetic susceptibility measurements" S.H. Masunaga, R.F. Jardim, P.F.P. Fichtner, J. Rivas, *Physical Review B* 80 (18) Art. n. 184428, 2009.
- 137- "Logarithmic contribution to the electrical resistivity in (Ru_{1-x}Ir_x)Sr₂GdCu₂O₈ compounds" S. Garcia, S. Andrade, R.F. Jardim, F.C. Fonseca, M.S. Torikachvili, A.H. Lacerda, *Physical Review B* 80 (13) Art. n. 134520, 2009.
- 138- "Thermal, structural and optical properties of Al₂CoO₄ crocoite composite nanoparticles used as pigments" M.I.B. Bernardi, V.D. Araújo, A. Mesquita, G.J.M. Frigo, L.J.Q. Maia, *Journal of Thermal Analysis and Calorimetry* (97) 923-928, 2009.
- 139- "Dynamics of normal to diffuse and relaxor phase transition in lead metaniobate-based ferroelectric ceramics" M. Venet, J.C. M'Peko, F.L. Zabotto, F. Guerrero, D. Garcia, J.A. Eiras, *Applied Physics Letters* 94 Art. n. 172901, 2009.
- 140- "Effect of adding CaO to ZrO₂ support on nickel catalyst activity in dry reforming of methane" J.D.A. Bellido, J.E. Souza, J.C. M'Peko, E.M. Assaf, *Applied Catalysis A: General* 358 215-222, 2009.

National Articles

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- 2- "Electrochromic Switching Mechanism of Iron Hexacyanoferrates Molecular Compounds: The Role of Fe²⁺(CN)₆ Vacancies" P.R. Bueno, D. Gimenez-Romero, F.F. Ferreira, G.O. Setti, J.J. Garcia-Jareno, J. Agrisuelas, F. Vicente, *Journal of Physical Chemistry C* 113 (22) 9916-9920, 2009.

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- 3- C. A. Taft, J. B. L. Martins, J. D. dos Santos, E. Moraes, E. Longo "Theoretical models of zinc oxide nanotubes" 11° ICAM, 2009, Rio de Janeiro.
- 4- E. Longo, J. B. L. Martins, C. A. Taft, E. Moraes, J. D. dos Santos "Diversity of the nanotubes, which are possible?" 11° ICAM, 2009, Rio de Janeiro.
- 5- R. L. Erlo, L. S. Cavalcante, E. Longo "A theoretical study of PbWO₄ disordered models and their electronic levels into a band gap" 11° ICAM, 2009, Rio de Janeiro.
- 6- E. Longo, C. A. Taft, J. D. dos Santos, E. Moraes, J. B. L. Martins "Semiempirical strain energy for nanotubes" 11° ICAM, 2009, Rio de Janeiro
- 7- C. A. Taft, E. Longo, J. B. L. Martins, J. D. dos Santos, M. R. Vargas "Interaction of BUCKYBALLS in (100) planes of FULLERITES [C₆₀]₅, [C₇₀]₅, [C₈₀]₅ and [C₉₆]₅: Analysis of the HOMO-LUMO, charges, distances, dipoles, using the MNDO, HF and DFT methods with Huzinaga 6-31G basis set" 11° ICAM, 2009, Rio de Janeiro
- 8- E. Longo, C. A. Taft, J. D. dos Santos, M. D. Ferreira, J. B. L. Martins "Carbide and Nitride nanotubes" 11° ICAM, 2009, Rio de Janeiro
- 9- E. Longo, C. A. Taft, J. D. dos Santos, M. D. Ferreira, J. B. L. Martins "Modification of the rutile plane of [(SnO₂)_n]m to a nanotube" 11° ICAM, 2009, Rio de Janeiro
- 10- J. B. L. Martins, J. D. dos Santos, E. Longo, C. A. Taft "Zigzag and armchair nanotubes interacting in the forms { [(XY)_n]m ... [(XY)_n]m }_k, using molecular mechanics, quantum mechanics semi-empirical as well as Ab-initio, HF and DFT methods, with k = 2, ..., 5; X e Y: B, Al, C, Si, Ge, N, P, O, S" 11° ICAM, 2009, Rio de Janeiro
- 11- J. B. L. Martins, J. D. dos Santos, E. Longo, C. A. Taft "Oxi-reduction of nanotube structures of the form [(XY)_n]m, with ARMCHAIR and ZIGZAG configurations, +1, 0, -1 charges, using both semiempirical, Ab-initio HF, and DFT methods with 3-21G, 6-31G and Huzinaga basis sets, whereas X, Y: B, Al, C, Si, Ge, N, P, O, S; n, m = 4, ..., 11" ICAM, 2009, Rio de Janeiro
- 12- A. P. A. Marques, M. A. Cruz, F. V. Motta, E. Longo, I. L. V. Rosa "Luminescent BaMoO₄:Eu³⁺ thin films" ICAM, 2009, Rio de Janeiro
- 13- R. C. Lima, F. V. Motta, M. F. C. Abreu, A. P. A. Marques, E. Longo, I. L. V. Rosa "Microwave-hydrothermal method used to prepare molybdates nanostructures" 11° ICAM, 2009, Rio de Janeiro
- 14- F. Trivinho Strixino, H. Guerra, C. S. Gomes, E. C. Pereira, F. G. Guimarães "Active waveguides made from porous anodic alumina filled with luminescent polymer: an optical sensor proposition" 11° ICAM, 2009, Rio de Janeiro
- 15- C. A. Taft, E. Longo, J. B. L. Martins, J. D. dos Santos, M. R. Vargas "Interactions of gases on the surface of carbon nanotubes of the armchair and zigzag type, using AM1, MNDO, HF and DFT methods with 3-21G, 6-31G and Huzinaga basis sets" 11° ICAM, 2009, Rio de Janeiro
- 16- E. Longo, J. A. Varela, L. H. Oliveira, A. P. Moura, I. L. V. Rosa "Photoluminescent study of Y₂O₃: Eu³⁺ powder prepared by Microwave-Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 17- I. M. G. dos Santos, A. G. Souza, E. Longo, S. J. G. Lima, M. Silva Jr, R. M. Marinho, D. M. Ribeiro "Synthesis of SrSnO₃:Cu by the polymeric precursor method" 11° ICAM, 2009, Rio de Janeiro
- 18- J. A. Varela, J. C. Sczancoski, L. S. Cavalcante, R. L. Tranquilin, E. Longo, M. O. Orlandi "Growth mechanism of BaMoO₄ microcrystals processed in microwave-hydrothermal: Experimental observations and computational modeling" 11° ICAM, 2009, Rio de Janeiro

- 19- R. A. Silva ,A. E. Souza, G. T. A. Santos, M. L. Moreira, D. P. Volanti, S. R. Teixeira, E. Longo "Synthesis of CaTiO₃ nanoparticles using Hydrothermal Microwave Method" 11° ICAM, 2009, Rio de Janeiro
- 20- E. C. Paris, E. Longo, M. S. Li, A.L. M.de Oliveira, A. G. Souza ,I. M. G. dos Santos, D. Keyson "Photoluminescence in the ZnO synthesized by the Domestic Microwave Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 21- A. G. Souza, E. Longo ,E. C. Paris, J. M.,A. L.M. de Oliveira,I. M. G. dos Santos, D. Keyson "Influence of the solvent in the morphology of ZnO" 11° ICAM, 2009, Rio de Janeiro
- 22- E. Longo, E. C. Paris, J. M.,A. L. M. de Oliveira, A. G. Souza,I. M.G. dos Santos, D. Keyson "Influence of the alkaline chemical precursor in the morphologies of the ZnO particles synthesized by the Domestic Microwave Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 23- A. Spinelli, K. P. Lopes, D. M. A. Melo, F. C. D. Lemos, M. S. C. Câmara, E. Longo "Pigments Inorganic Of Li₂Zn_{1-3x/2}Fe_xTi₃O₈ e Li₂Zn_{1-3x}Cr_xTi₃O₈; Li_{2-x}Zn_{1-x}Pr_xTi₃O₈ and Li_{2-x}Zn_{1-x}Nd_xTi₃O₈ : Effect of doping" 11° ICAM, 2009, Rio de Janeiro
- 24- M. S. C. Câmara, F. J. S. Lima, R. M. Melo, K. P. Lopes, E. Longo "Effect of the temperature in optical parameters in the reflectance spectrum of the composition Li₂Co(1-x)Ni_xTi₃O₈ doped with nickel to 8%" 11° ICAM, 2009, Rio de Janeiro
- 25- S. H. B. S. Leal, J. A. Nunes, M. F. C. Gurgel, V. C. Albarici, J. M. E. Matos, E. Longo, M.R. M. C. Santos "Structural and photoluminescent properties of lead zirconate powders" 11° ICAM, 2009, Rio de Janeiro
- 26- L. F. Gorup, E. R. Leite, E. Longo, E. R. Camargo "Ammonia as Moderator Agent for Growth Kinetics of Stable Colloidal Silver Nanoparticles Obtained by the Turkevitch Method" 11° ICAM, 2009, Rio de Janeiro
- 27- A. G. Souza, I. M. G. dos Santos, P. S. Pizani, M. A. M. A. Maurera, E. Longo, J. W. M. Espinoza, J. M. Ferreira "Influence of the modifier cation in the photoluminescent emission of Zn_{1-x}Co_xWO₄" 11° ICAM, 2009, Rio de Janeiro
- 28- E. Longo, P. R. Bueno, M. S. Castro, M.A. Ramirez, M. A. Ponce, J.A. Varela "Tunnelling conduction process introduction during the degradation phenomena process in SnO₂ and ZnO varistors" 11° ICAM, 2009, Rio de Janeiro
- 29- E. Antonelli, A. C. Hernandez "Scanning laser sintering: A two step sintering process?" 11° ICAM, 2009, Rio de Janeiro
- 30- F. L. Souza, B. H. R. Lima, E. Longo, E. R. Leite "Photoelectrochemical studies of oriented 3D crystalline nanorod arrays of hematite" 11° ICAM, 2009, Rio de Janeiro
- 31- B. H. R. Lima,F. L. Souza, E. R. Leite, E. Longo "Important Parameters on Development of Nanostructured Films of Alpha-Hematite" 11° ICAM, 2009, Rio de Janeiro
- 32- M. R. . M. C. Santos, L. S. Santos , S. H. B. S. Leal, V. Santos,J.S. Gonçalves, J. M. E. Matos, E. Longo "Experimental variables in the synthesis of anatase phase TiO₂ nanoparticles" 11° ICAM, 2009, Rio de Janeiro
- 33- S. R. de Lazaro, D. Berger, L. A. M. Cury, S. M. Tebcherani,C. R. Oliveira, K. C. C. W. S. Klider, E. Longo "Influence of the interface STO in the Rodamine B photodegradation process" 11° ICAM, 2009, Rio de Janeiro
- 34- L. S. Santos, S. H. B. S. Leal, V. Santos ,L. S. Cavalcante, J. M. E. Matos, M. R. M. C. Santos, E. Longo "Reflux synthesis and hydrothermal processing of ZrO₂ nanopowders at low temperature" 11° ICAM, 2009, Rio de Janeiro
- 35- E. Longo, M.A.a Zaghete, A. Z. Simoes, G. Biasotto, J. A. Varela "Microwave synthesis of single-crystalline perovskite BiFeO₃" 11° ICAM, 2009, Rio de Janeiro

- 36- E. R. Leite, C. J. Dalmaschio, E. Longo "Atomic-scale structure of zirconia-supported on alumina" 11° ICAM, 2009, Rio de Janeiro
- 37- E. Longo, M. R. Vargas, J. D. Santos, C. A. Taft, J. B. L. Martins, E. Moraes "Analysis of nanotube p-n doping of [(CC)n]m, [(GeGe)n]m, and [(SiSi)n]m using semiempirical, HF, and DFT methods" 11° ICAM, 2009, Rio de Janeiro
- 38- E. Longo, J. B. L. Martins, J. D. Santos, M. R. Vargas, R. Silva, C. A. Taft "Study of the new structures of nanotubes [(XY)n]m with the armchair and CHIRAL forms, according to the folding of planes, using the quantum theoretical methods of AM1, MNDO, HF and DFT with the 3-21G, 6-31G and Huzinaga basis sets" 11° ICAM, 2009, Rio de Janeiro
- 39- J. B. L. Martins, J. D. Santos, M. R. Vargas, R. Silva, E. Longo, C. A. Taft "Interaction between the Li and planes (100) of FULLERITES of the form [C60]5, [C70]5, [C80]5 e [C96]5, with analysis of the HOMO-LUMO, charges, distances, dipoles, using MNDO, HF and DFT methods" 11° ICAM, 2009, Rio de Janeiro
- 40- F. H. Cristovan, C. S. Quintans, E. C. Pereira "Synthesis and characterization of PANI/ABS polymeric varistors" 11° ICAM, 2009, Rio de Janeiro.
- 41- E. V. Ferri, E. C. Paris, J. W. M. Espinoza, P. S. Pizani, V. R. Mastelaro, J. A. Varela, E. Longo "Structural and optical properties of MgTiO₃ powders based on the vacancy/distorted clusters and octahedral tilting" 11° ICAM, 2009, Rio de Janeiro
- 42- J. A. Varela, R. C. Lima, E. R. Leite, A. P. A. Marques, F. V. Motta, E. Longo "Preparation of In(OH)₃ and In₂O₃ by the Microwave-Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 43- E. R. Leite, M. S. Li, A. P. A. Marques, F. V. Motta, J. A. Varela, E. Longo "Synthesis, characterization and photoluminescent property of In₂O₃:Eu" 11° ICAM, 2009, Rio de Janeiro
- 44- I. M. G. dos Santos, A. G. Souza, E. Longo, E. C. Paris, M. S. Li, F. T. G. Vieira, S. C. Souza "Photoluminescence in the SrSnO₃:Nd³⁺ perovskite" 11° ICAM, 2009, Rio de Janeiro
- 45- C. F. O. Graeff, B. Antoniassi, S. L. Fernandes, A. H. M. González, J. A. Varela, E. Longo "Lithium lanthanum titanate thin films prepared through polymeric precursor method" 11° ICAM, 2009, Rio de Janeiro
- 46- E. Longo, C. A. Paskocimas, M. S. Li, E. C. Paris, M. R. S. Silva, A. G. Souza, I. M. G. Santos "SrTiO₃ with cubic and tetragonal phases at room temperature" 11° ICAM, 2009, Rio de Janeiro
- 47- A. G. Souza, E. Longo, M. S. Li, P. S. Pizani, E. C. Paris, M. R. S. Silva, I. M. G. Santos "Photoluminescence in the SrTi_{1-x}Nd_xO₃ System" 11° ICAM, 2009, Rio de Janeiro
- 48- L. A. Perazolli, G. S. Nascimento, L. R. Macário, T. M. Mazzo, E. Longo "The use of photoluminescence as a tool to investigate the nature of disorder degree at CaTiO₃ compounds." 11° ICAM, 2009, Rio de Janeiro
- 49- J. A. Varela, J. Andrés, M. O. Orlandi, D. P. Volanti, E. Longo "An Efficient Synthetic Route towards Sea Urchin-like CuO Mesocrystals" 11° ICAM, 2009, Rio de Janeiro
- 50- A. G. Souza, T. A. Passos, S. J. G. Lima, S. C. Souza, E. Longo, F. T. G. Vieira, I. M. G. Santos "Influence of Fe³⁺ doping in the crystallization behavior of SrSnO₃ perovskite" 11° ICAM, 2009, Rio de Janeiro
- 51- L. R. Macário, M. L. Moreira, E. Longo "Growth and investigations of BaZrO₃ mesocrystals under different reaction conditions" 11° ICAM, 2009, Rio de Janeiro
- 52- L. R. Macário, T. M. Mazzo, E. Longo "Synthesis and photoluminescent properties of barium zirconate doped with Eu³⁺" 11° ICAM, 2009, Rio de Janeiro

- 53- E. Longo, J.A. Varela, E. A. Urquieta-Gonzalez, C. A. Sierra Pereira, E. D. Silva, R. C. Lima, A. P. Moura "Synthesis and characterization of NiO plates through thermal decomposition of Ni(OH)₂ precursors by microwave heating" 11° ICAM, 2009, Rio de Janeiro
- 54- S. M. Zanetti, M. S. Carmo, A. J. Chiquito, E.Longo "Structural characteristics and properties of nanocrystalline WO₃/TiO₂-based powders and thin films for humidity sensors" 11° ICAM, 2009, Rio de Janeiro
- 55- J. A. Varela, M. S. Li, L. S. Cavalcante, J. C. Sczancoski, S. A. Eliziário, C. S. Xavier, E. Longo "Photoluminescence Property of CaZn₂(OH)₆.2H₂O Processed by Microwave-Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 56- A. Zenatti, A. C. Lanfredi, F. Q. Rey, E. R. Leite, E. Longo, R. F. Jardim, M. T. Escote "Synthesis the Nanotubes of lanthanum-nickel oxid" 11° ICAM, 2009, Rio de Janeiro
- 57- V. M. Longo, M. G. Costa, C. P. Santos, E. Longo, J. A. Varela "Origin of Photoluminescence of Samarium_Doped Strontium Titanate Nanostructure Under UV Light" 11° ICAM, 2009, Rio de Janeiro
- 58- E. Longo, J. A. Varela, M. E. G. Valerio, P. Montes, J. M. Andrés, D. P. Volanti, M.L. Moreira "Radioluminescence and Photoluminescence Properties of BaZrO₃ Decaohedrons obtained by Microwave-Assisted Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 59- G. T. A. Santos, A. E. Souza, R. A. Silva, M. L. Moreira, D. P. Volanti, S.R. Teixeira, E. Longo "Synthesis of Ba_xSr_{1-x}TiO₃ nanoparticles obtained by Microwave-Assisted Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 60- M. V. S. Lima, A. P. Moura, L. S.s Cavalcante, J.C.Sczancoski, J. A. Varela, E. Longo "Influence of the growth process on the photoluminescence behavior of BaWO₄" 11° ICAM, 2009, Rio de Janeiro
- 61- A. E. Souza, R. A. Silva, G. T.A. Santos, M. L. Moreira, D. P. Volanti, S. R. Teixeira, E. Longo "Synthesis of Ba_xCa_{1-x}TiO₃ Nanoparticles using Microwave-assisted Hydrothermal Method" 11° ICAM, 2009, Rio de Janeiro
- 62- F. R. Simões, M. Ferreira, O. N.Oliveira Jr, L. F. P. Q. Marchesi, E. C. Pereira "Synthesis and Characterization of Polyaniline / Multiwalled Carbon Nanotubes Composites Deposited onto ITO Substrates" 11° ICAM, 2009, Rio de Janeiro
- 63- G. F. Teixeira, M. G. Costa, M. A. Zaghete, E. Longo, J. A. Varela "Crystalline SrTiO₃ nanoparticles obtained by Hydrothermal Microwave synthesis" 11° ICAM, 2009, Rio de Janeiro
- 64- T. M.i Mazzo, I.L. V.Rosa, M. L. Moreira, I. M. Pinatti, J. A. Varela, E. Longo "CaTiO₃:Eu powders: synthesis and morphology approaches" 11° ICAM, 2009, Rio de Janeiro
- 65- M. R. Vargas, E.Moraes, J. D. Santos, T. P. Ferreira, O. A. Araújo, E. Longo, C. A. Taft "Theoretical study of the composites CNTs/ polyaniline" 11° ICAM, 2009, Rio de Janeiro
- 66- E. Longo, J. A. Varela, M. S. Li, F. Gurgel, I. V. Rosa, E. C.Paris, R. S. André "Eu-doped hydroxyapatite obtained by hydrothermal-microwave method" 11° ICAM, 2009, Rio de Janeiro
- 67- P. F. S. Pereira, A. P. Moura, E. R. Leite, I. L. V. Rosa, J. A. Varela, E. Longo "Synthesis and Characterization of SrWO₄:Eu³⁺ by Microwave-Hydrothermal (MH)" 11° ICAM, 2009, Rio de Janeiro
- 68- L. S. Cavalcante, J. C. Sczancoski, F. C.i Picon, E. Longo, J. A. Varela "Structural and optical properties of SrWO₄ powders prepared by the microwave-hydrothermal and polymeric precursor methods" 11° ICAM, 2009, Rio de Janeiro
- 69- A. C. Hernandez, R. S. Silva "Two-step sintering and dielectric properties of translucent nanocrystalline BaTiO₃ ceramics" 11° ICAM, 2009, Rio de Janeiro
- 70- A. V. Rosario, R.N. Barreto, W. A. Cristinelli, E. C. Pereira "Dopant influence on the photocatalytic activity of TiO₂ system" 11° ICAM, 2009, Rio de Janeiro

- 71- E. Longo, J. A. Varela, M. S. Li, M. R. Joya, R. S. André, E. C. Paris "Synthesis and PTCR characterization of Ca-doped BaTiO₃ ceramics by proteic sol-gel method" 11° ICAM, 2009, Rio de Janeiro
- 72- J.C. M'Peko, E. Antonelli, Z. S. Macedo, J. C. A. Santos, R. S. Silva, D. V. Sampaio, A.C. Hernandez "Synthesis and PTCR characterization of Ca-doped BaTiO₃ ceramics by proteic sol-gel method" 11° ICAM, 2009, Rio de Janeiro
- 73- R. C. Lima, L. R. Macário, J. W. M. Espinoza, E. Longo, J. A. Varela "Effect of microwave-hydrothermal rapid treatment in the ZnO nanostructures" 11° ICAM, 2009, Rio de Janeiro
- 74- S. A. Eliziário, C. S. Xavier, T. Sequinel, E. Longo, J. A. Varela "The effect of Pb on the growth mechanism of CaTiO₃ mesocrystals by template-free" 11° ICAM, 2009, Rio de Janeiro
- 75- S. A. Eliziário, C. S. Xavier, E. Longo, J. A. Varela "Microwave Hydrothermal Synthesis and Optical Properties of HfO₂ rice-like." 11° ICAM, 2009, Rio de Janeiro
- 76- P. Goncalves Junior, M.L. Moreira, M.M. Oliveira, P. S. Santos, H. G. Rangel, E. Longo "Synthesis and characterization of SnO₂ thin films deposited on stainless steel AISI 304 substrate" 11° ICAM, 2009, Rio de Janeiro
- 77- J.C. M'Peko, A.C. Hernandez, E. Antonelli, Z. S. Macedo, D. V. Sampaio, R. S. Silva, J. C. A Santos "Electrical and dielectrical properties of BaTiO₃ and Ba_{0.77}Ca_{0.23}TiO₃ ceramics synthesized by the proteic sol-gel method" 11° ICAM, 2009, Rio de Janeiro
- 78- E.n Longo, A. S. T. Delben, J. R. J. Delben, M. S. Li, S. P. Marcondes, F. S. Vicente "Intense White Photoluminescence of Zirconia Nanoparticles obtained by sol-gel" 11° ICAM, 2009, Rio de Janeiro
- 79- M. R. M. C. Santos, L. S. Santos Junior, E. Longo, L. S. Cavalcante, J. C. Sczancoski, A. F. P. Alcântara, V. S. Marques "Photoluminescence of CaMoO₄ powder processed in a microwave-hydrothermal" 11° ICAM, 2009, Rio de Janeiro
- 80- M. R. M. C. Santos, L. S. Santos Júnior, E. Longo, J. C.r Sczancoski, L.S. Cavalcante, V. S. Marques, A. F. P. Alcântara "Investigation of ethylene glycol on the photoluminescence behavior of PbWO₄ powders processed in microwave-hydrothermal" 11° ICAM, 2009, Rio de Janeiro
- 81- E. Longo, I. L. V. Rosa, A. P. A. Marques, M. T. S. Tanaka "Annealing temperature effect on the optical and photoluminescent properties of Sr_{0.97}Eu_{0.03}MoO₄ powders" 11° ICAM, 2009, Rio de Janeiro
- 82- L. S. Santos Junior, M.R. M. C. Santos, J. M. E. Matos, E. Longo, M.F. C. Gurgel, V. S. Marques, E. B. Sá "Synthesis and Characterization of BaZrO₃ Pr-doped by Pechinni Method" 11° ICAM, 2009, Rio de Janeiro
- 83- A.B. Lourenço, G.G. Costa, A.C. Hernandez "Actividad de investigación científica con alumnos de nivel medio: Un estudio de caso" Enseñansa de las Ciencias Numero Extra VIII Congresso Internacional sobre Investigación em Didáctica de las Ciencias 2013-2018, 2009.

NATIONAL CONFERENCE

Basic Research Highlights

Defesas Concluídas em 2009

Mestrado

Tatiane Moraes Arantes

"Incorporação de nanopartículas sintéticas em polímeros comerciais"

Orientador: Prof. Dr. Emerson Camargo

Rafael Augusto Nicolasi Libanori

"Estratégias para a síntese de nanocompósitos moleculares derivados de poliuretanas"

Orientador: Prof. Dr. Edson Roberto Leite

Ricardo Henrique Gonçalves

"Síntese coloidal de nanocristais magnéticos com superfície macromolecular"

Orientador: Prof. Dr. Edson Roberto Leite

Doutorado

Laécio Santos Cavalcante

"Ordem-desordem: Uma avaliação estrutural do Ba(ZrxTi1-x) O3"

Orientador: Prof. Dr. Elson Longo

Fernando Henrique Cristovan

"Preparação e caracterização de blendas de PANI com ABS"

Orientador: Prof. Dr. Ernesto Chaves Pereira de Souza

Cristiane Pontes de Oliveira

"Eletrodeposição de nanoestruturas de cobalto em AAP e sua caracterização magnética"

Orientador: Prof. Dr. Ernesto Chaves Pereira de Souza

Roberto de Matos

"Estudo microgravimétrico da eletrodeposição de filmes de prata"

Orientador: Prof. Dr. Ernesto Chaves Pereira de Souza

Leandro Aparecido Pocrifka

"Síntese e caracterização de capacitores eletroquímicos à base de RuO2"

Orientador: Prof. Dr. Ernesto Chaves Pereira de Souza

Notices

Matéria: CMDMC vai desenvolver matéria-prima para nova fábrica de chips em São Carlos

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data acesso: 07/01/2009

Matéria: Pesquisadores do CMDMC participam na produção de um livro internacional sobre Fotoluminescência

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 23/01/2009

Matéria: CMDMC é um dos novos Institutos Nacionais de Ciência e Tecnologia

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 06/02/2009

Matéria: CMDMC dá início à Primeira Escola de Verão em Física dos Materiais

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 10/02/2009

Matéria: CNPq escolhe Centro da Unesp para ser Instituto Nacional

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 17/02/2009

Matéria: UFMA consolida interação com a UNESP

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 02/04/2009

Matéria: TOP 25 HOTTEST ARTICLES - Utilizando metodo hidortermal assistido por microondas obteve-se céria na morfologia de nanoesferas

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 15/04/2009

Matéria: Pesquisador de inciação científica do INCTMN/CMDMC é selecionado pela FAPESP para estágio nos EUA

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 29/05/2009

Matéria: Exposição de Nanoarte na Uniara

Fonte: Jornal O Imparcial

Data: 14/06/2009

Matéria: Nanoarte

Fonte: Jornal Tribuna Imprensa

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Matéria: Uniara promove exposição de Nanoarte para alunos de Engenharia

Fonte: Jornal O Imparcial

Data: 18/06/2009

Matéria: Exposição de Nanoarte na Uniara

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 22/06/2009

Matéria: Excelência premiada - Seis cientistas brasileiros recebem bolsa prêmio da Fundação Memorial John Simon Guggenheim, dos Estados Unido

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 30/06/2009

Matéria: Pesquisa com nanomateriais receb prêmio internacional

Fonte: Jornal O Imparcial

Data: 16/07/2009

Matéria: Unveiling the Chemical and Morphological Features of Sb-SnO₂ Nanocrystals by the Combined Use of High-Resolution Transmission Electron Microscopy and ab Initio Surface Energy Calculations

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Data do acesso: 10/09/2009

Matéria: Nanociência e Nanotecnologia: o tempo da nanoarte

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 14/09/2009

Matéria: A dança da nanoarte

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Data do acesso: 15/09/2009

Matéria: Nanotecnologia em benefício da vida

Fonte: Jornal O Imparcial

Data: 17/09/2009

Matéria: Bebedouros com nanotecnologia ajudam a salvar vidas

Fonte: Jornal A Folha

Data: 18/09/2009

Matéria: Top 25 Hottest Articles - NMR study of styrene-butadiene rubber (SBR) and TiO₂ nanocomposites

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 02/10/2009

Matéria: Arquitetura do invisível

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 16/10/2009

Matéria: Exposição de fotografias no Centro Cultural: Nanoarte

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 22/10/2009

Matéria: XIV Semana da Óptica - Jogos de Nanotecnologia do CMDMC são apresentados em feira no Shopping Iguatemi São Carlos.

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 26/10/2009

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Matéria: 20 anos de parceria entre UFSCar / UNESP e CSN

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 30/10/2009

Matéria: Brasileiros vencem competição internacional nos EUA - Nanoita tem um modo mais barato e mais eficiente para deposição de dióxido de titânio em pisos cerâmicos bactericidas.

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 06/11/2009

Matéria: Parceria Inédita na História Brasileira

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 06/11/2009

Matéria: Parceria da CSN e universidades da região completa 20 anos

Fonte: Jornal O Imparcial

Data: 08/11/2009

Matéria: Doutorando do IQ/UNESP vence competição internacional

Fonte: Jornal O Imparcial

Data: 15/11/2009

Matéria: Angelus vence Categoria Pequena Empresa do Prêmio FINEP

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 09/12/2009

Matéria: A Nanox foi vencedora da categoria Crescimento

Site: www.cmdmc.com.br/redecmdmc/lab/noticias

Data do acesso: 09/12/2009