

Carlos O O Paiva-Santos

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citations

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h-index

50
g-index

88
ext. papers

2,842
ext. citations

3.9
avg, IF

4.37
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 87 | DBWS-9411: An upgrade of the DBWS*.* programs for Rietveld refinement with PC and mainframe computers. <i>Journal of Applied Crystallography</i> , 1995 , 28, 366-367 | 3.8 | 605 |
| 86 | Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 5381-5387 | 9.6 | 147 |
| 85 | Development of Metal Oxide Nanoparticles with High Stability Against Particle Growth Using a Metastable Solid Solution. <i>Advanced Materials</i> , 2002 , 14, 905 | 24 | 120 |
| 84 | Structural conditions that leads to photoluminescence emission in SrTiO ₃ : An experimental and theoretical approach. <i>Journal of Applied Physics</i> , 2008 , 104, 023515 | 2.5 | 118 |
| 83 | Mechanochemical synthesis of barium titanate. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 1985-1989 | 7.8 | 78 |
| 82 | Microstructural and morphological analysis of pure and Ce-doped tin dioxide nanoparticles. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 707-713 | 6 | 76 |
| 81 | Structural and electrochemical properties of LiCoO ₂ prepared by combustion synthesis. <i>Solid State Ionics</i> , 2003 , 158, 91-102 | 3.3 | 63 |
| 80 | On the photoluminescence behavior of samarium-doped strontium titanate nanostructures under UV light. A structural and electronic understanding. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7566-7569 | 2.6 | 58 |
| 79 | X-Ray diffraction and Mössbauer spectra of nickel ferrite prepared by combustion reaction. <i>Journal of Materials Science</i> , 2007 , 42, 3603-3606 | 4.3 | 58 |
| 78 | Comparison of blue pigments prepared by two different methods. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 2911-2919 | 6 | 55 |
| 77 | Conditions giving rise to intense visible room temperature photoluminescence in SrWO ₄ thin films: the role of disorder. <i>Chemical Physics</i> , 2005 , 312, 1-9 | 2.3 | 53 |
| 76 | Structural evolution of Eu-doped hydroxyapatite nanorods monitored by photoluminescence emission. <i>Journal of Alloys and Compounds</i> , 2012 , 531, 50-54 | 5.7 | 47 |
| 75 | Sintering and mass transport features of (Sn,Ti)O ₂ polycrystalline ceramics. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 887-896 | 6 | 47 |
| 74 | Theoretical analysis of the structural deformation in Mn-doped BaTiO ₃ . <i>Chemical Physics Letters</i> , 2005 , 402, 491-496 | 2.5 | 45 |
| 73 | The nature of the photoluminescence in amorphized PZT. <i>Journal of Luminescence</i> , 2005 , 111, 205-213 | 3.8 | 39 |
| 72 | The influence of cation segregation on the methanol decomposition on nanostructured SnO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2002 , 86, 185-192 | 8.5 | 38 |
| 71 | Crystal growth of Ce-doped and undoped LiCaAlF ₆ by the Czochralski technique under CF ₄ atmosphere. <i>Journal of Crystal Growth</i> , 2001 , 223, 383-388 | 1.6 | 38 |

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| 70 | The effects of ZnGa ₂ O ₄ formation on structural and optical properties of ZnO:Ga powders. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 1330-1334 | 3-3 | 37 |
| 69 | New X-ray powder diffraction data and Rietveld refinement for Gd ₂ O ₃ monodispersed fine spherical particles. <i>Journal of Solid State Chemistry</i> , 2003 , 171, 420-423 | 3-3 | 35 |
| 68 | Mechanically activating formation of layered structured bismuth titanate. <i>Materials Chemistry and Physics</i> , 2006 , 96, 471-476 | 4-4 | 33 |
| 67 | Structural and dielectric properties of Ba _{0.5} Sr _{0.5} (Sn _x Ti _{1-x})O ₃ ceramics obtained by the soft chemical method. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 877-882 | 5-7 | 31 |
| 66 | Theoretical and experimental study of disordered Ba _{0.45} Sr _{0.55} TiO ₃ photoluminescence at room temperature. <i>Chemical Physics</i> , 2006 , 322, 343-348 | 2-3 | 31 |
| 65 | Synthesis and characterization of Li ₂ ZnTi ₃ O ₈ spinel using the modified polymeric precursor method. <i>Materials Chemistry and Physics</i> , 2003 , 82, 68-72 | 4-4 | 31 |
| 64 | Structure study of Bi ₄ Ti ₃ O ₁₂ produced via mechanochemically assisted synthesis. <i>Materials Research Bulletin</i> , 2008 , 43, 1743-1753 | 5-1 | 30 |
| 63 | Effect of processing route on the phase formation and properties of Bi ₄ Ti ₃ O ₁₂ ceramics. <i>Ceramics International</i> , 2006 , 32, 707-712 | 5-1 | 30 |
| 62 | Effects of Synthesis and Processing on Supersaturated Rare Earth-Doped Nanometric SnO ₂ Powders. <i>Nano Letters</i> , 2002 , 2, 969-973 | 11-5 | 30 |
| 61 | A new processing method of CaZn ₂ (OH) ₆ ·2H ₂ O powders: Photoluminescence and growth mechanism. <i>Solid State Sciences</i> , 2009 , 11, 2173-2179 | 3-4 | 29 |
| 60 | Thermal decomposition of crystalline Ni(II)-Cr(III) layered double hydroxide: a structural study of the segregation process. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10137-41 | 3-4 | 29 |
| 59 | Plasma nitriding of sintered AISI 316L at several temperatures. <i>Surface and Coatings Technology</i> , 2004 , 184, 176-181 | 4-4 | 28 |
| 58 | Barium strontium titanate powders prepared by spray pyrolysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 122, 140-144 | 3-1 | 27 |
| 57 | Experimental and theoretical aspects of the stabilization of zirconia.. <i>Journal of Materials Science</i> , 1999 , 34, 2751-2756 | 4-3 | 27 |
| 56 | Contribution of structural order/disorder to the room-temperature photoluminescence of lead zirconate titanate powders. <i>Journal of Luminescence</i> , 2007 , 127, 689-695 | 3-8 | 26 |
| 55 | Crystal structure refinement of Co-doped lanthanum chromites. <i>Powder Diffraction</i> , 2008 , 23, S18-S22 | 1-8 | 25 |
| 54 | Phase Characterization of Lead Zirconate Titanate Obtained from Organic Solutions of Citrates. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2088-2093 | 3-8 | 25 |
| 53 | Nucleation and Growth of Mullite Whiskers from Lanthanum-Doped Aluminosilicate Melts. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 232-238 | 3-8 | 24 |

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| 52 | Influence of the morphology and microstructure on the photocatalytic properties of titanium oxide films obtained by sparking anodization in H ₃ PO ₄ . <i>Electrochimica Acta</i> , 2011 , 56, 3122-3127 | 6.7 | 22 |
| 51 | Methyl(2-mercapto-4-methylpyrimidinato)mercury(II): a methylmercury(II) derivative with an unusual metal-metal interaction. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 1100-1101 | | 22 |
| 50 | Correlation between the spectroscopic and structural properties with the occupation of Eu ³⁺ sites in powdered Eu ³⁺ -doped LiTaO ₃ prepared by the Pechini method. <i>Journal of Applied Physics</i> , 2009 , 106, 063509 | 2.5 | 21 |
| 49 | Structure study of donor doped barium titanate prepared from citrate solutions. <i>Science of Sintering</i> , 2004 , 36, 179-188 | 0.7 | 21 |
| 48 | Correlation of reactivity with structural factors in a series of Fe(II) substituted cobalt ferrites. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 2237-2244 | 3.3 | 20 |
| 47 | Sr ₂ CeO ₄ : Electronic and structural properties. <i>Journal of Alloys and Compounds</i> , 2014 , 608, 73-78 | 5.7 | 19 |
| 46 | Crystallographic and magnetic structure of polycrystalline Zn _{7-x} Ni _x Sb ₂ O ₁₂ spinels. <i>Materials Chemistry and Physics</i> , 2000 , 65, 208-211 | 4.4 | 19 |
| 45 | Development of metal oxide nanoparticles by soft chemical method. <i>Ceramics International</i> , 2009 , 35, 463-466 | 5.1 | 18 |
| 44 | Seeding of PMN powders made by the Pechini method. <i>Ceramics International</i> , 2001 , 27, 509-515 | 5.1 | 18 |
| 43 | Structural deformation monitored by vibrational properties and orbital modeling in (Pb,Sm)TiO ₃ systems. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 12-17 | 3.9 | 16 |
| 42 | Structural and microstructural behaviour of SnO ₂ dense ceramics doped with ZnO and WO ₃ . <i>Materials Letters</i> , 2005 , 59, 1859-1865 | 3.3 | 16 |
| 41 | Composition and electronic structure of Zn _{7-x} M _x Sb ₂ O ₁₂ (M=Ni and Co) spinel compounds. <i>Materials Chemistry and Physics</i> , 2004 , 85, 377-382 | 4.4 | 15 |
| 40 | Gaussian basis sets to the theoretical study of the electronic structure of perovskite (LaMnO ₃). <i>Computational and Theoretical Chemistry</i> , 2003 , 631, 93-99 | | 14 |
| 39 | Tetragonal to monoclinic phase transition observed during Zr anodisation. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 191-199 | 2.6 | 13 |
| 38 | Structural study of a series of synthetic goethites obtained in aqueous solutions containing cadmium(II) ions. <i>Powder Diffraction</i> , 2003 , 18, 50-55 | 1.8 | 13 |
| 37 | Magnetic doping in Zn _{7-x} M _x Sb ₂ O ₁₂ spinels (M=Ni and Co). <i>Physica B: Condensed Matter</i> , 2002 , 320, 249-252 | 2.8 | 13 |
| 36 | Structural, electronic and photoluminescence properties of Eu ³⁺ -doped CaYAlO ₄ obtained by using citric acid complexes as precursors. <i>Optical Materials</i> , 2016 , 57, 45-55 | 3.3 | 13 |
| 35 | Synthesis and electrical characterization of tungsten doped Pb(Zr _{0.53} Ti _{0.47})O ₃ ceramics obtained from a hybrid process. <i>Materials Chemistry and Physics</i> , 2007 , 103, 371-374 | 4.4 | 12 |

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| 34 | The effect of isostructural seeding on the microstructure and piezoelectric properties of PZT ceramics. <i>Ceramics International</i> , 1999 , 25, 239-244 | 5.1 | 12 |
| 33 | Hot-pressed 9.5/65/35 PLZT prepared by the polymeric precursor method. <i>Ceramics International</i> , 2000 , 26, 625-630 | 5.1 | 11 |
| 32 | In situ solid state oxidation reaction for $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x=0, 0.1, 0.2$ and 0.3) formation. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 812-814 | 2.8 | 10 |
| 31 | Nanoparticle synthesis of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x=0.1, 0.2$ and 0.3) perovskites. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2892-2894 | 2 | 10 |
| 30 | X-ray powder data and bond valence of $\text{La}_{0.65}\text{Sr}_{0.35}\text{MnO}_3$ after Rietveld refinement. <i>Powder Diffraction</i> , 2002 , 17, 149-152 | 1.8 | 10 |
| 29 | Rietveld analysis of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ thin films obtained by RF-sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2175-2182 | 2.1 | 9 |
| 28 | Crystal structure of isotibolone: a major degradation product of tibolone. <i>CrystEngComm</i> , 2012 , 14, 2826-2833 | 5.3 | 9 |
| 27 | Influence of milling time on mechanically assisted synthesis of $\text{Pb}_{0.91}\text{Ca}_{0.1}\text{TiO}_3$ powders. <i>Ceramics International</i> , 2007 , 33, 937-941 | 5.1 | 9 |
| 26 | Effect of niobia on the crystal structure and dielectric characteristics of $\text{Pb}(\text{Zr}_{0.45}\text{Ti}_{0.55})\text{O}_3$ prepared from polymeric precursor. <i>Materials Research Bulletin</i> , 2000 , 35, 15-24 | 5.1 | 9 |
| 25 | Quantitative structural analysis of the transition from LT-LixCoO_2 to HT-LixCoO_2 using the rietveld method: correlation between structure and electrochemical performance. <i>Journal of Power Sources</i> , 2004 , 125, 103-113 | 8.9 | 8 |
| 24 | Effect of Barium Titanate Seed Particles on the Sintering and Lattice Parameters in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ Ceramics. <i>Journal of Materials Research</i> , 2002 , 17, 620-624 | 2.5 | 8 |
| 23 | Low-temperature synthesis of single-phase $\text{Co}_7\text{Sb}_2\text{O}_{12}$. <i>Materials Chemistry and Physics</i> , 2004 , 88, 404-409 | 4.9 | 7 |
| 22 | Lead-free $\text{BaBi}_4\text{Ti}_4\text{O}_{15}$ ceramics: Effect of synthesis methods on phase formation and electrical properties. <i>Ceramics International</i> , 2015 , 41, 309-316 | 5.1 | 6 |
| 21 | Limits of visual detection for finasteride polymorphs in prepared binary mixtures: analysis by X-ray powder diffraction. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 3567-3575 | 3.9 | 6 |
| 20 | Development of basis sets to calculations of the electronic structure of YMnO_3 . <i>Computational and Theoretical Chemistry</i> , 2003 , 629, 21-26 | | 6 |
| 19 | Thermal and Crystallographic Studies of Mixture $\text{La}_2\text{O}_3\text{-SrO}$ Prepared Via Reaction in the Solid State. <i>Magyar Árvíad Közlemények</i> , 1999 , 56, 143-149 | 0 | 6 |
| 18 | Structure and Properties of Barium Bismuth Titanate Prepared by Mechanochemical Synthesis. <i>Ferroelectrics</i> , 2008 , 368, 145-153 | 0.6 | 5 |
| 17 | Jahn-Teller effect on the structure of the Sm-doped PbTiO_3 : A theoretical approach. <i>Computational and Theoretical Chemistry</i> , 2007 , 813, 33-37 | | 5 |

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| 16 | Study of crystallite size and strain as a function of morphological evolution in zinc oxide powder obtained from hydroxycarbonate precursor. <i>Powder Diffraction</i> , 2001 , 16, 153-159 | 1.8 | 5 |
| 15 | Nanocomposites materials generated from a spray. <i>Brazilian Journal of Physics</i> , 2009 , 39, 176-181 | 1.2 | 4 |
| 14 | Characterization of nickel doped Zn ₇ Sb ₂ O ₁₂ spinel phase using Rietveld refinement. <i>Powder Diffraction</i> , 2003 , 18, 219-223 | 1.8 | 4 |
| 13 | Characterization of amorphous niobium silicates powders synthesized by polymeric precursor method. <i>Materials Letters</i> , 2005 , 59, 3196-3199 | 3.3 | 4 |
| 12 | Crystal structure of BaBi ₂ Ta ₂ O ₉ . <i>Powder Diffraction</i> , 2000 , 15, 134-138 | 1.8 | 4 |
| 11 | Influence of seed particle frequency on the phase formation and on the microstructure of 0.88 PZN _{0.07} BT _{0.05} PT ceramic. <i>Ceramics International</i> , 2000 , 26, 727-731 | 5.1 | 4 |
| 10 | Study of Structure and Properties of Bi ₄ Ti ₃ O ₁₂ Prepared by Mechanochemical Syntheses. <i>Ferroelectrics</i> , 2008 , 368, 154-162 | 0.6 | 3 |
| 9 | Structural characterization of organometallic-derived 9.5/65/35 PLZT ceramics. <i>Materials Chemistry and Physics</i> , 2001 , 68, 136-141 | 4.4 | 3 |
| 8 | Synthesis and characterization of 9.5/65/35 PLZT prepared from the polymeric precursors. <i>Materials Chemistry and Physics</i> , 2001 , 67, 282-287 | 4.4 | 3 |
| 7 | Characterization of bismuth titanate ceramics derived by mechanochemical synthesis. <i>Science of Sintering</i> , 2007 , 39, 267-272 | 0.7 | 2 |
| 6 | Atenolol characterization in solid formulations available in Brazilian market. <i>Powder Diffraction</i> , 2013 , 28, S448-S457 | 1.8 | 1 |
| 5 | Powder X-ray characterization of lithium thiazolidine-4-carboxylate. <i>Powder Diffraction</i> , 2009 , 24, 44-47 | 1.8 | 1 |
| 4 | Microstructure of organometallic derived PLZT ceramics. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 1491-1494 | 6 | 1 |
| 3 | Synthesis and Characterization of Cu _{0.5} Zn _{0.5} Fe ₂ O ₄ Ferrite for Application as a Soft Magnetic Material. <i>Materials Science Forum</i> , 2012 , 727-728, 1284-1289 | 0.4 | |
| 2 | X-ray powder diffraction analysis of a silver(I) cyclamate complex. <i>Powder Diffraction</i> , 2007 , 22, 68-70 | 1.8 | |
| 1 | X-ray powder diffraction analysis of a silver(I)-aspartame complex. <i>Powder Diffraction</i> , 2006 , 21, 314-317 | 1.8 | |