

# Carlos O O Paiva-Santos

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

2,704  
citations

28  
h-index

50  
g-index

88  
ext. papers

2,842  
ext. citations

3.9  
avg, IF

4.37  
L-index

#	Paper	IF	Citations
87	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> , <b>2016</b> , 27, 2175-2182	2.1	9
86	Structural, electronic and photoluminescence properties of $\text{Eu}^{3+}$ -doped $\text{CaYAlO}_4$ obtained by using citric acid complexes as precursors. <i>Optical Materials</i> , <b>2016</b> , 57, 45-55	3.3	13
85	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> , <b>2015</b> , 41, 309-316	5.1	6
84	$\text{Sr}_2\text{CeO}_4$ : Electronic and structural properties. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 608, 73-78	5.7	19
83	Limits of visual detection for finasteride polymorphs in prepared binary mixtures: analysis by X-ray powder diffraction. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 3567-3575	3.9	6
82	Tetragonal to monoclinic phase transition observed during Zr anodisation. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 191-199	2.6	13
81	Atenolol characterization in solid formulations available in Brazilian market. <i>Powder Diffraction</i> , <b>2013</b> , 28, S448-S457	1.8	1
80	Synthesis and Characterization of $\text{Cu}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ Ferrite for Application as a Soft Magnetic Material. <i>Materials Science Forum</i> , <b>2012</b> , 727-728, 1284-1289	0.4	
79	Structural evolution of Eu-doped hydroxyapatite nanorods monitored by photoluminescence emission. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 531, 50-54	5.7	47
78	Crystal structure of isotibolone: a major degradation product of tibolone. <i>CrystEngComm</i> , <b>2012</b> , 14, 2826-2833	5.3	9
77	Influence of the morphology and microstructure on the photocatalytic properties of titanium oxide films obtained by sparking anodization in $\text{H}_3\text{PO}_4$ . <i>Electrochimica Acta</i> , <b>2011</b> , 56, 3122-3127	6.7	22
76	On the photoluminescence behavior of samarium-doped strontium titanate nanostructures under UV light. A structural and electronic understanding. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 7566-7579	3.6	58
75	Structural deformation monitored by vibrational properties and orbital modeling in $(\text{Pb},\text{Sm})\text{TiO}_3$ systems. <i>Journal of Physics and Chemistry of Solids</i> , <b>2010</b> , 71, 12-17	3.9	16
74	Nanocomposites materials generated from a spray. <i>Brazilian Journal of Physics</i> , <b>2009</b> , 39, 176-181	1.2	4
73	Correlation between the spectroscopic and structural properties with the occupation of $\text{Eu}^{3+}$ sites in powdered $\text{Eu}^{3+}$ -doped $\text{LiTaO}_3$ prepared by the Pechini method. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 063509	2.5	21
72	A new processing method of $\text{CaZn}_2(\text{OH})_6 \cdot 2\text{H}_2\text{O}$ powders: Photoluminescence and growth mechanism. <i>Solid State Sciences</i> , <b>2009</b> , 11, 2173-2179	3.4	29
71	Development of metal oxide nanoparticles by soft chemical method. <i>Ceramics International</i> , <b>2009</b> , 35, 463-466	5.1	18

70	Structural and dielectric properties of Ba <sub>0.5</sub> Sr <sub>0.5</sub> (Sn <sub>x</sub> Ti <sub>1-x</sub> )O <sub>3</sub> ceramics obtained by the soft chemical method. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 877-882	5.7	31
69	Powder X-ray characterization of lithium thiazolidine-4-carboxylate. <i>Powder Diffraction</i> , <b>2009</b> , 24, 44-47	1.8	1
68	Structure study of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> produced via mechanochemically assisted synthesis. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 1743-1753	5.1	30
67	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO <sub>3</sub> Nanoparticles. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5381-5387	9.6	147
66	Structure and Properties of Barium Bismuth Titanate Prepared by Mechanochemical Synthesis. <i>Ferroelectrics</i> , <b>2008</b> , 368, 145-153	0.6	5
65	Crystal structure refinement of Co-doped lanthanum chromites. <i>Powder Diffraction</i> , <b>2008</b> , 23, S18-S22	1.8	25
64	Study of Structure and Properties of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Prepared by Mechanochemical Syntheses. <i>Ferroelectrics</i> , <b>2008</b> , 368, 154-162	0.6	3
63	Structural conditions that leads to photoluminescence emission in SrTiO <sub>3</sub> : An experimental and theoretical approach. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 023515	2.5	118
62	Jahn-Teller effect on the structure of the Sm-doped PbTiO <sub>3</sub> : A theoretical approach. <i>Computational and Theoretical Chemistry</i> , <b>2007</b> , 813, 33-37		5
61	Influence of milling time on mechanically assisted synthesis of Pb <sub>0.91</sub> Ca <sub>0.1</sub> TiO <sub>3</sub> powders. <i>Ceramics International</i> , <b>2007</b> , 33, 937-941	5.1	9
60	Contribution of structural order-disorder to the room-temperature photoluminescence of lead zirconate titanate powders. <i>Journal of Luminescence</i> , <b>2007</b> , 127, 689-695	3.8	26
59	Synthesis and electrical characterization of tungsten doped Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> ceramics obtained from a hybrid process. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 103, 371-374	4.4	12
58	X-Ray diffraction and Mössbauer spectra of nickel ferrite prepared by combustion reaction. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 3603-3606	4.3	58
57	X-ray powder diffraction analysis of a silver(I) cyclamate complex. <i>Powder Diffraction</i> , <b>2007</b> , 22, 68-70	1.8	
56	Characterization of bismuth titanate ceramics derived by mechanochemical synthesis. <i>Science of Sintering</i> , <b>2007</b> , 39, 267-272	0.7	2
55	Mechanically activating formation of layered structured bismuth titanate. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 96, 471-476	4.4	33
54	X-ray powder diffraction analysis of a silver(I)-aspartame complex. <i>Powder Diffraction</i> , <b>2006</b> , 21, 314-317	1.8	
53	Theoretical and experimental study of disordered Ba <sub>0.45</sub> Sr <sub>0.55</sub> TiO <sub>3</sub> photoluminescence at room temperature. <i>Chemical Physics</i> , <b>2006</b> , 322, 343-348	2.3	31

52	Effect of processing route on the phase formation and properties of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ceramics. <i>Ceramics International</i> , <b>2006</b> , 32, 707-712	5.1	30
51	The effects of ZnGa <sub>2</sub> O <sub>4</sub> formation on structural and optical properties of ZnO:Ga powders. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 1330-1334	3.3	37
50	Correlation of reactivity with structural factors in a series of Fe(II) substituted cobalt ferrites. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 2237-2244	3.3	20
49	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> , <b>2005</b> , 109, 10137-41	3.4	29
48	The nature of the photoluminescence in amorphized PZT. <i>Journal of Luminescence</i> , <b>2005</b> , 111, 205-213	3.8	39
47	Barium strontium titanate powders prepared by spray pyrolysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 122, 140-144	3.1	27
46	Conditions giving rise to intense visible room temperature photoluminescence in SrWO <sub>4</sub> thin films: the role of disorder. <i>Chemical Physics</i> , <b>2005</b> , 312, 1-9	2.3	53
45	Theoretical analysis of the structural deformation in Mn-doped BaTiO <sub>3</sub> . <i>Chemical Physics Letters</i> , <b>2005</b> , 402, 491-496	2.5	45
44	Structural and microstructural behaviour of SnO <sub>2</sub> dense ceramics doped with ZnO and WO <sub>3</sub> . <i>Materials Letters</i> , <b>2005</b> , 59, 1859-1865	3.3	16
43	Characterization of amorphous niobium silicates powders synthesized by polymeric precursor method. <i>Materials Letters</i> , <b>2005</b> , 59, 3196-3199	3.3	4
42	Mechanochemical synthesis of barium titanate. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 1985-1989	7.8	
41	Nucleation and Growth of Mullite Whiskers from Lanthanum-Doped Aluminosilicate Melts. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 85, 232-238	3.8	24
40	Composition and electronic structure of Zn <sub>7-8</sub> MxSb <sub>2</sub> O <sub>12</sub> (M=Ni and Co) spinel compounds. <i>Materials Chemistry and Physics</i> , <b>2004</b> , 85, 377-382	4.4	15
39	Low-temperature synthesis of single-phase Co <sub>7</sub> Sb <sub>2</sub> O <sub>12</sub> . <i>Materials Chemistry and Physics</i> , <b>2004</b> , 88, 404-409	4.4	7
38	Plasma nitriding of sintered AISI 316L at several temperatures. <i>Surface and Coatings Technology</i> , <b>2004</b> , 184, 176-181	4.4	28
37	Quantitative structural analysis of the transition from LT-LixCoO <sub>2</sub> to HT-LixCoO <sub>2</sub> using the rietveld method: correlation between structure and electrochemical performance. <i>Journal of Power Sources</i> , <b>2004</b> , 125, 103-113	8.9	8
36	Structure study of donor doped barium titanate prepared from citrate solutions. <i>Science of Sintering</i> , <b>2004</b> , 36, 179-188	0.7	21
35	Structural study of a series of synthetic goethites obtained in aqueous solutions containing cadmium(II) ions. <i>Powder Diffraction</i> , <b>2003</b> , 18, 50-55	1.8	13

34	Characterization of nickel doped Zn <sub>7</sub> Sb <sub>2</sub> O <sub>12</sub> spinel phase using Rietveld refinement. <i>Powder Diffraction</i> , <b>2003</b> , 18, 219-223	1.8	4
33	Synthesis and characterization of Li <sub>2</sub> ZnTi <sub>3</sub> O <sub>8</sub> spinel using the modified polymeric precursor method. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 82, 68-72	4.4	31
32	New X-ray powder diffraction data and Rietveld refinement for Gd <sub>2</sub> O <sub>3</sub> monodispersed fine spherical particles. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 171, 420-423	3.3	35
31	Development of basis sets to calculations of the electronic structure of YMnO <sub>3</sub> . <i>Computational and Theoretical Chemistry</i> , <b>2003</b> , 629, 21-26		6
30	Gaussian basis sets to the theoretical study of the electronic structure of perovskite (LaMnO <sub>3</sub> ). <i>Computational and Theoretical Chemistry</i> , <b>2003</b> , 631, 93-99		14
29	Microstructural and morphological analysis of pure and Ce-doped tin dioxide nanoparticles. <i>Journal of the European Ceramic Society</i> , <b>2003</b> , 23, 707-713	6	76
28	Sintering and mass transport features of (Sn,Ti)O <sub>2</sub> polycrystalline ceramics. <i>Journal of the European Ceramic Society</i> , <b>2003</b> , 23, 887-896	6	47
27	Structural and electrochemical properties of LiCoO <sub>2</sub> prepared by combustion synthesis. <i>Solid State Ionics</i> , <b>2003</b> , 158, 91-102	3.3	63
26	Development of Metal Oxide Nanoparticles with High Stability Against Particle Growth Using a Metastable Solid Solution. <i>Advanced Materials</i> , <b>2002</b> , 14, 905	24	120
25	Magnetic doping in Zn <sub>7</sub> M <sub>x</sub> Sb <sub>2</sub> O <sub>12</sub> spinels (M=Ni and Co). <i>Physica B: Condensed Matter</i> , <b>2002</b> , 320, 249-252	2.8	13
24	The influence of cation segregation on the methanol decomposition on nanostructured SnO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 86, 185-192	8.5	38
23	Comparison of blue pigments prepared by two different methods. <i>Journal of the European Ceramic Society</i> , <b>2002</b> , 22, 2911-2919	6	55
22	Nanoparticle synthesis of La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> (0.1, 0.2 and 0.3) perovskites. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 2892-2894	2	10
21	X-ray powder data and bond valence of La <sub>0.65</sub> Sr <sub>0.35</sub> MnO <sub>3</sub> after Rietveld refinement. <i>Powder Diffraction</i> , <b>2002</b> , 17, 149-152	1.8	10
20	Effect of Barium Titanate Seed Particles on the Sintering and Lattice Parameters in PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> Ceramics. <i>Journal of Materials Research</i> , <b>2002</b> , 17, 620-624	2.5	8
19	Effects of Synthesis and Processing on Supersaturated Rare Earth-Doped Nanometric SnO <sub>2</sub> Powders. <i>Nano Letters</i> , <b>2002</b> , 2, 969-973	11.5	30
18	Seeding of PMN powders made by the Pechini method. <i>Ceramics International</i> , <b>2001</b> , 27, 509-515	5.1	18
17	Microstructure of organometallic derived PLZT ceramics. <i>Journal of the European Ceramic Society</i> , <b>2001</b> , 21, 1491-1494	6	1

16	Crystal growth of Ce-doped and undoped LiCaAlF <sub>6</sub> by the Czochralski technique under CF <sub>4</sub> atmosphere. <i>Journal of Crystal Growth</i> , <b>2001</b> , 223, 383-388	1.6	38
15	Structural characterization of organometallic-derived 9.5/65/35 PLZT ceramics. <i>Materials Chemistry and Physics</i> , <b>2001</b> , 68, 136-141	4.4	3
14	Synthesis and characterization of 9.5/65/35 PLZT prepared from the polymeric precursors. <i>Materials Chemistry and Physics</i> , <b>2001</b> , 67, 282-287	4.4	3
13	In situ solid state oxidation reaction for La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> (x=0, 0.1, 0.2 and 0.3) formation. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 226-230, 812-814	2.8	10
12	Study of crystallite size and strain as a function of morphological evolution in zinc oxide powder obtained from hydroxycarbonate precursor. <i>Powder Diffraction</i> , <b>2001</b> , 16, 153-159	1.8	5
11	Crystal structure of BaBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> . <i>Powder Diffraction</i> , <b>2000</b> , 15, 134-138	1.8	4
10	Influence of seed particle frequency on the phase formation and on the microstructure of 0.88 PZN0.07 BT0.05 PT ceramic. <i>Ceramics International</i> , <b>2000</b> , 26, 727-731	5.1	4
9	Hot-pressed 9.5/65/35 PLZT prepared by the polymeric precursor method. <i>Ceramics International</i> , <b>2000</b> , 26, 625-630	5.1	11
8	Crystallographic and magnetic structure of polycrystalline Zn <sub>7-x</sub> Ni <sub>x</sub> Sb <sub>2</sub> O <sub>12</sub> spinels. <i>Materials Chemistry and Physics</i> , <b>2000</b> , 65, 208-211	4.4	19
7	Effect of niobia on the crystal structure and dielectric characteristics of Pb(Zr <sub>0.45</sub> Ti <sub>0.55</sub> )O <sub>3</sub> prepared from polymeric precursor. <i>Materials Research Bulletin</i> , <b>2000</b> , 35, 15-24	5.1	9
6	The effect of isostructural seeding on the microstructure and piezoelectric properties of PZT ceramics. <i>Ceramics International</i> , <b>1999</b> , 25, 239-244	5.1	12
5	Experimental and theoretical aspects of the stabilization of zirconia.. <i>Journal of Materials Science</i> , <b>1999</b> , 34, 2751-2756	4.3	27
4	Thermal and Crystallographic Studies of Mixture La <sub>2</sub> O <sub>3</sub> -SrO Prepared Via Reaction in the Solid State. <i>Magyar Árvad Kémények</i> , <b>1999</b> , 56, 143-149	0	6
3	DBWS-9411 In upgrade of the DBWS*. * programs for Rietveld refinement with PC and mainframe computers. <i>Journal of Applied Crystallography</i> , <b>1995</b> , 28, 366-367	3.8	605
2	Phase Characterization of Lead Zirconate Titanate Obtained from Organic Solutions of Citrates. <i>Journal of the American Ceramic Society</i> , <b>1992</b> , 75, 2088-2093	3.8	25
1	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> , <b>1986</b> , 1100-1101		22