

# Lacio S Cavalcante

## 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.

151  
papers

6,747  
citations

52  
h-index

75  
g-index

154  
ext. papers

7,358  
ext. citations

3.9  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
151	Investigation of electronic structure, morphological features, optical, colorimetric, and supercapacitor electrode properties of CoWO <sub>4</sub> crystals. <i>Materials Science for Energy Technologies</i> , <b>2022</b> , 5, 125-144	5.2	0
150	CuWO <sub>4</sub>  MnWO <sub>4</sub> heterojunction thin film with improved photoelectrochemical and photocatalytic properties using simulated solar irradiation. <i>Journal of Solid State Electrochemistry</i> , <b>2022</b> , 26, 997-1011	2.6	1
149	Microwave-assisted hydrothermal synthesis of CuWO <sub>4</sub> -palygorskite nanocomposite for enhanced visible photocatalytic response. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 863, 158731	5.7	8
148	Structure, Morphology Features and Photocatalytic Properties of $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> Nanocrystals-modified Palygorskite Clay. <i>Journal of Photocatalysis</i> , <b>2021</b> , 2, 114-129	0.8	4
147	Structural Refinement, Morphological Features, and Optical, Photo- and Sonophotocatalytic Properties of (Ca <sub>1-x</sub> Sr <sub>x</sub> )WO <sub>4</sub> Synthesized by the Sonochemical Method. <i>Journal of Photocatalysis</i> , <b>2021</b> , 2, 147-164	0.8	0
146	Electronic structure, optical and sonophotocatalytic properties of spindle-like CaWO <sub>4</sub> microcrystals synthesized by the sonochemical method. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157377	5.7	6
145	An investigation of photovoltaic devices based on p-type Cu <sub>2</sub> O and n-type $\beta$ -WO <sub>3</sub> junction through an electrolyte solution containing a redox pair. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 2797-2809	4.5	1
144	Effect of plasma nitriding time on the structural and mechanical properties of AISI-O1 steel. <i>Engineering Reports</i> , <b>2020</b> , 2, e12279	1.2	0
143	Structural Refinement, Morphological Features, Optical Properties, and Adsorption Capacity of $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> Nanocrystals/SBA-15 Mesoporous on Rhodamine B Dye. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 3626-3645	3.2	4
142	Surface-dependent properties of $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> : a joint experimental and theoretical investigation. <i>Theoretical Chemistry Accounts</i> , <b>2020</b> , 139, 1	1.9	10
141	Structural characterization, morphology, optical and colorimetric properties of NiWO <sub>4</sub> crystals synthesized by the co-precipitation and polymeric precursor methods. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1221, 128774	3.4	5
140	Electronic Structure, Morphological Aspects, and Photocatalytic Discoloration of Three Organic Dyes with MgWO <sub>4</sub> Powders Synthesized by the Complex Polymerization Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 2952-2970	3.2	5
139	Effect of the applied potential condition on the photocatalytic properties of Fe <sub>2</sub> O <sub>3</sub>  WO <sub>3</sub> heterojunction films. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 2851-2862	3.2	9
138	TiO <sub>2</sub> -based dye-sensitized solar cells prepared with bixin and norbixin natural dyes: Effect of 2,2'-bipyridine additive on the current and voltage. <i>Optik</i> , <b>2020</b> , 218, 165236	2.5	1
137	Effect of the pH pre-adjustment on the formation of In <sub>2</sub> W <sub>3</sub> O <sub>12</sub> and In <sub>6</sub> W <sub>12</sub> powders: Cluster coordination and optical band gap. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , <b>2020</b> , 59, 2-14	1.9	
136	Hydrothermal synthesis, structural characterization and photocatalytic properties of $\beta$ -Ag <sub>2</sub> MoO <sub>4</sub> microcrystals: Correlation between experimental and theoretical data. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 2806-2825	5.9	19
135	Effect of different synthesis methods on the morphology, optical behavior, and superior photocatalytic performances of Ag <sub>3</sub> PO <sub>4</sub> sub-microcrystals using white-light-emitting diodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 377, 14-25	4.7	14

134	Electronic Structure, Morphological Aspects, Optical and Electrochemical Properties of RuO <sub>2</sub> Nanocrystals. <i>Electronic Materials Letters</i> , <b>2019</b> , 15, 645-653	2.9	2
133	Structural refinement, morphology and photocatalytic properties of $\text{[(Ag}_{2-x}\text{Zn}_x\text{)]MoO}_4$ microcrystals synthesized by the sonochemical method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 1322-1344	2.1	4
132	Improving the ozone gas-sensing properties of CuWO <sub>4</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 748, 411-417	5.7	33
131	Facile synthesis of ZnS/MnS nanocomposites for supercapacitor applications. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 303-313	2.6	34
130	Photocurrent Response and Progesterone Degradation by Employing WO Films Modified with Platinum and Silver Nanoparticles. <i>ChemPlusChem</i> , <b>2018</b> , 83, 1153-1161	2.8	9
129	Electronic structure, growth mechanism, and sonophotocatalytic properties of sphere-like self-assembled NiWO <sub>4</sub> nanocrystals. <i>Inorganic Chemistry Communication</i> , <b>2018</b> , 98, 34-40	3.1	11
128	Investigation of charge recombination lifetime in $\text{[WO}_3$ films modified with Ag <sub>0</sub> and Pt <sub>0</sub> nanoparticles and its influence on photocurrent density. <i>Ionics</i> , <b>2018</b> , 24, 3291-3297	2.7	11
127	Structural evolution, growth mechanism and photoluminescence properties of CuWO nanocrystals. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 38, 256-270	8.9	38
126	Synthesis, growth mechanism, optical properties and catalytic activity of ZnO microcrystals obtained via hydrothermal processing. <i>RSC Advances</i> , <b>2017</b> , 7, 24263-24281	3.7	38
125	Effect of metallic Ag growth on the electrical resistance of 3D flower-like Ag <sub>4</sub> V <sub>2</sub> O <sub>7</sub> crystals. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2358-2362	3.8	4
124	Facile preparation of CuWO <sub>4</sub> porous films and their photoelectrochemical properties. <i>Electrochimica Acta</i> , <b>2017</b> , 256, 139-145	6.7	42
123	Effect of sintering parameters using the central composite design method, electronic structure and physical properties of yttria-partially stabilized ZrO <sub>2</sub> commercial ceramics. <i>Materials Science-Poland</i> , <b>2017</b> , 35, 225-238	0.6	1
122	Structural investigation and photoluminescent properties of ZnWO <sub>4</sub> :Dy <sup>3+</sup> nanocrystals. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 15466-15479	2.1	14
121	Morphology and Optical Properties of SrWO <sub>4</sub> Powders Synthesized by the Coprecipitation and Polymeric Precursor Methods <b>2017</b> , 131-154		1
120	Determination of Ethambutol in Aqueous Medium Using an Inexpensive Gold Microelectrode Array as Amperometric Sensor. <i>Electroanalysis</i> , <b>2016</b> , 28, 985-989	3	8
119	Synthesis and characterization of metastable $\text{[Ag}_2\text{WO}_4$ : an experimental and theoretical approach. <i>Dalton Transactions</i> , <b>2016</b> , 45, 1185-91	4.3	18
118	Disclosing the electronic structure and optical properties of Ag <sub>4</sub> V <sub>2</sub> O <sub>7</sub> crystals: experimental and theoretical insights. <i>CrystEngComm</i> , <b>2016</b> , 18, 6483-6491	3.3	13
117	Acetone gas sensor based on $\text{[Ag}_2\text{WO}_4$ nanorods obtained via a microwave-assisted hydrothermal route. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 683, 186-190	5.7	54

116	Synthesis, Characterization and Photoluminescent Properties of ZrO <sub>2</sub> Nanocrystals. <i>Materials Science Forum</i> , <b>2016</b> , 869, 35-39	0.4	2
115	Anatase TiO <sub>2</sub> nanocrystals anchored at inside of SBA-15 mesopores and their optical behavior. <i>Applied Surface Science</i> , <b>2016</b> , 389, 1137-1147	6.7	39
114	A joint experimental and theoretical study on the electronic structure and photoluminescence properties of Al <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> powders. <i>Journal of Molecular Structure</i> , <b>2015</b> , 1081, 381-388	3.4	18
113	Structural refinement, Raman spectroscopy, optical and electrical properties of (Ba <sub>1-x</sub> Sr <sub>x</sub> )MoO <sub>4</sub> ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 8319-8335	2.1	25
112	Structure, morphology, and optical properties of (Ca <sub>1-x</sub> Eu <sub>2x</sub> )WO <sub>4</sub> microcrystals. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 193-197	2.9	8
111	Structural, morphological and optical investigation of $\beta$ -Ag <sub>2</sub> MoO <sub>4</sub> microcrystals obtained with different polar solvents. <i>CrystEngComm</i> , <b>2015</b> , 17, 8207-8211	3.3	33
110	Structure and electrochemical detection of xenobiotic micro-pollutant hydroquinone using CeO <sub>2</sub> nanocrystals. <i>RSC Advances</i> , <b>2015</b> , 5, 70558-70565	3.7	10
109	Effect of different strontium precursors on the growth process and optical properties of SrWO <sub>4</sub> microcrystals. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 8089-8103	4.3	20
108	Facet-dependent photocatalytic and antibacterial properties of $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> crystals: combining experimental data and theoretical insights. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 4091-4107	5.5	110
107	Structural and optical properties of ZnS/MgNb <sub>2</sub> O <sub>6</sub> heterostructures. <i>Superlattices and Microstructures</i> , <b>2015</b> , 79, 180-192	2.8	6
106	Rietveld refinement and optical properties of SrWO <sub>4</sub> :Eu <sup>3+</sup> powders prepared by the non-hydrolytic sol-gel method. <i>Journal of Rare Earths</i> , <b>2015</b> , 33, 113-128	3.7	54
105	Rietveld refinement, cluster modelling, growth mechanism and photoluminescence properties of CaWO <sub>4</sub> :Eu <sup>3+</sup> microcrystals. <i>CrystEngComm</i> , <b>2015</b> , 17, 1654-1666	3.3	62
104	A novel ozone gas sensor based on one-dimensional (1D) $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> nanostructures. <i>Nanoscale</i> , <b>2014</b> , 6, 4058-62	7.7	92
103	Potentiated electron transference in $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> microcrystals with Ag nanofilaments as microbial agent. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 5769-78	2.8	91
102	Structural refinement, optical and ferroelectric properties of microcrystalline Ba(Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> perovskite. <i>Current Applied Physics</i> , <b>2014</b> , 14, 708-715	2.6	30
101	Photoluminescence properties of praseodymium doped cerium oxide nanocrystals. <i>Ceramics International</i> , <b>2014</b> , 40, 4445-4453	5.1	71
100	Polymyxin use as a risk factor for colonization or infection with polymyxin-resistant <i>Acinetobacter baumannii</i> after liver transplantation. <i>Transplant Infectious Disease</i> , <b>2014</b> , 16, 369-78	2.7	14
99	Effect of Zn <sup>2+</sup> ions on the structure, morphology and optical properties of CaWO <sub>4</sub> microcrystals. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 72, 648-654	2.3	4

98	Structural refinement, optical and electrical properties of $[\text{Ba}_{1-x}\text{Sm}_{2x/3}](\text{Zr}_{0.05}\text{Ti}_{0.95})\text{O}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 3427-3439	2.1	15
97	Experimental and theoretical investigations of electronic structure and photoluminescence properties of $\text{PbAg}_2\text{MoO}_4$ microcrystals. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 5589-99	5.1	101
96	Toward an Understanding of the Growth of Ag Filaments on $\text{PbAg}_2\text{WO}_4$ and Their Photoluminescent Properties: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1229-1239	3.8	111
95	Effect of polyvinyl alcohol on the shape, photoluminescence and photocatalytic properties of $\text{PbMoO}_4$ microcrystals. <i>Materials Science in Semiconductor Processing</i> , <b>2014</b> , 26, 425-430	4.3	20
94	Local electronic structure, optical bandgap and photoluminescence (PL) properties of $\text{Ba}(\text{Zr}_{0.75}\text{Ti}_{0.25})\text{O}_3$ powders. <i>Materials Science in Semiconductor Processing</i> , <b>2013</b> , 16, 1035-1045	4.3	25
93	A combined theoretical and experimental study of electronic structure and optical properties of $\text{PbZnMoO}_4$ microcrystals. <i>Polyhedron</i> , <b>2013</b> , 54, 13-25	2.7	65
92	Direct in situ observation of the electron-driven synthesis of Ag filaments on $\text{PbAg}_2\text{WO}_4$ crystals. <i>Scientific Reports</i> , <b>2013</b> , 3, 1676	4.9	95
91	Rietveld refinement, morphology and optical properties of $(\text{Ba}_{1-x}\text{Sr}_x)\text{MoO}_4$ crystals. <i>Journal of Applied Crystallography</i> , <b>2013</b> , 46, 1434-1446	3.8	37
90	Growth mechanism and photocatalytic properties of $\text{SrWO}_4$ microcrystals synthesized by injection of ions into a hot aqueous solution. <i>Advanced Powder Technology</i> , <b>2013</b> , 24, 344-353	4.6	79
89	Structural refinement, growth mechanism, infrared/Raman spectroscopies and photoluminescence properties of $\text{PbMoO}_4$ crystals. <i>Polyhedron</i> , <b>2013</b> , 50, 532-545	2.7	57
88	Morphotropic phase boundary and electrical properties of $1-x[\text{Bi}_{0.5}\text{Na}_{0.5}]\text{TiO}_3$ $x\text{Ba}[\text{Zr}_{0.25}\text{Ti}_{0.75}]\text{O}_3$ lead-free piezoelectric ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 4877-4886	5.1	42
87	Structural investigation and improvement of photoluminescence properties in $\text{Ba}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ powders synthesized by the solid state reaction method. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 142, 70-76	4.4	16
86	Structural and dielectric properties of polyvinyl alcohol/barium zirconium titanate polymer/ceramic composite. <i>Current Applied Physics</i> , <b>2013</b> , 13, 1490-1495	2.6	32
85	Effect of Yttrium Doping in Barium Zirconium Titanate Ceramics: A Structural, Impedance, and Modulus Spectroscopy Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 4296-4309	2.3	15
84	Structural Refinement and Photoluminescence Properties of $\text{MnWO}_4$ Nanorods Obtained by Microwave-Hydrothermal Synthesis. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2012</b> , 22, 264-271	3.2	36
83	Structure, microstructure and dielectric properties of $100-x(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3-x[\text{SrTiO}_3]$ composites ceramics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 109, 715-723	2.6	61
82	Electronic structure, growth mechanism and photoluminescence of $\text{CaWO}_4$ crystals. <i>CrystEngComm</i> , <b>2012</b> , 14, 853-868	3.3	174
81	Structure, microstructure, ferroelectric/electromechanical properties and retention characteristics of $[\text{Bi}_{1-x}\text{Nb}_x]\text{FeO}_3$ thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 109, 703-714	2.6	9

80	Cluster coordination and photoluminescence properties of $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> microcrystals. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 10675-87	5.1	143
79	Electronic structure and magnetic properties of FeWO <sub>4</sub> nanocrystals synthesized by the microwave-hydrothermal method. <i>Materials Characterization</i> , <b>2012</b> , 73, 124-129	3.9	19
78	Structural refinement and photoluminescence properties of irregular cube-like (Ca <sub>1-x</sub> Cu <sub>x</sub> )TiO <sub>3</sub> microcrystals synthesized by the microwave-hydrothermal method. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 136, 130-139	4.4	22
77	Structural refinement, growth process, photoluminescence and photocatalytic properties of (Ba <sub>1-x</sub> Pr <sub>2x/3</sub> )WO <sub>4</sub> crystals synthesized by the coprecipitation method. <i>RSC Advances</i> , <b>2012</b> , 2, 6438	3.7	72
76	Effect of partial preferential orientation and distortions in octahedral clusters on the photoluminescence properties of FeWO <sub>4</sub> nanocrystals. <i>CrystEngComm</i> , <b>2012</b> , 14, 7127	3.3	26
75	Structural refinement, optical and microwave dielectric properties of BaZrO <sub>3</sub> . <i>Ceramics International</i> , <b>2012</b> , 38, 2129-2138	5.1	75
74	Effect of different surfactants on the shape, growth and photoluminescence behavior of MnWO <sub>4</sub> crystals synthesized by the microwave-hydrothermal method. <i>Advanced Powder Technology</i> , <b>2012</b> , 23, 124-128	4.6	30
73	ZnMoO <sub>4</sub> microcrystals synthesized by the surfactant-assisted hydrothermal method: Growth process and photoluminescence properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 396, 346-351	5.1	59
72	Photoluminescence Properties of Nanocrystals. <i>Journal of Nanomaterials</i> , <b>2012</b> , 2012, 1-2	3.2	3
71	Hierarchical Assembly of CaMoO <sub>4</sub> Nano-Octahedrons and Their Photoluminescence Properties. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5207-5219	3.8	113
70	Presence of excited electronic state in CaWO <sub>4</sub> crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 043501	2.5	74
69	A Joint Experimental and Theoretical Study on the Nanomorphology of CaWO <sub>4</sub> Crystals. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20113-20119	3.8	66
68	Structure, ferroelectric/magnetoelectric properties and leakage current density of (Bi <sub>0.85</sub> Nd <sub>0.15</sub> )FeO <sub>3</sub> thin films. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 5326-5335	5.7	55
67	Rietveld refinement, microstructure, conductivity and impedance properties of Ba[Zr <sub>0.25</sub> Ti <sub>0.75</sub> ]O <sub>3</sub> ceramic. <i>Current Applied Physics</i> , <b>2011</b> , 11, 1282-1293	2.6	86
66	Effect of Different Solvent Ratios (Water/Ethylene Glycol) on the Growth Process of CaMoO <sub>4</sub> Crystals and Their Optical Properties. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 4752-4768	3.5	186
65	Structural and morphological characteristics of (Pb <sub>1-x</sub> Sr <sub>x</sub> )TiO <sub>3</sub> powders obtained by polymeric precursor method. <i>Journal of Sol-Gel Science and Technology</i> , <b>2010</b> , 53, 21-29	2.3	6
64	Structural and dielectric relaxor properties of yttrium-doped Ba(Zr <sub>0.25</sub> Ti <sub>0.75</sub> )O <sub>3</sub> ceramics. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 121, 147-153	4.4	40
63	Structure and optical properties of [Ba <sub>1-x</sub> Y <sub>2x/3</sub> ](Zr <sub>0.25</sub> Ti <sub>0.75</sub> )O <sub>3</sub> powders. <i>Solid State Sciences</i> , <b>2010</b> , 12, 1160-1167	3.4	74

62	Structure and growth mechanism of CuO plates obtained by microwave-hydrothermal without surfactants. <i>Advanced Powder Technology</i> , <b>2010</b> , 21, 197-202	4.6	97
61	Electronic structure and optical properties of BaMoO <sub>4</sub> powders. <i>Current Applied Physics</i> , <b>2010</b> , 10, 614-624	4.6	130
60	A new processing method of CaZn <sub>2</sub> (OH) <sub>6</sub> ·2H <sub>2</sub> O powders: Photoluminescence and growth mechanism. <i>Solid State Sciences</i> , <b>2009</b> , 11, 2173-2179	3.4	29
59	Photoluminescence behavior in MgTiO <sub>3</sub> powders with vacancy/distorted clusters and octahedral tilting. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 117, 192-198	4.4	79
58	Reflux synthesis and hydrothermal processing of ZrO <sub>2</sub> nanopowders at low temperature. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 117, 455-459	4.4	50
57	Microstructure, dielectric properties and optical band gap control on the photoluminescence behavior of Ba[Zr <sub>0.25</sub> Ti <sub>0.75</sub> ]O <sub>3</sub> thin films. <i>Journal of Sol-Gel Science and Technology</i> , <b>2009</b> , 49, 35-46	2.3	75
56	Morphology and Photoluminescence of HfO <sub>2</sub> Obtained by Microwave-Hydrothermal. <i>Nanoscale Research Letters</i> , <b>2009</b> , 4, 1371-1379	5	56
55	First principles calculations on the origin of violet-blue and green light photoluminescence emission in SrZrO <sub>3</sub> and SrTiO <sub>3</sub> perovskites. <i>Theoretical Chemistry Accounts</i> , <b>2009</b> , 124, 385-394	1.9	63
54	(Sr,Tm)ZrO <sub>3</sub> powders prepared by the polymeric precursor method: Synthesis, optical properties and morphological characteristics. <i>Optical Materials</i> , <b>2009</b> , 31, 1134-1143	3.3	22
53	Growth mechanism of octahedron-like BaMoO <sub>4</sub> microcrystals processed in microwave-hydrothermal: Experimental observations and computational modeling. <i>Particuology</i> , <b>2009</b> , 7, 353-362	2.8	70
52	Photoluminescence property of powders prepared by solid state reaction and polymeric precursor method. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 3341-3347	2.8	42
51	Synthesis, growth process and photoluminescence properties of SrWO <sub>4</sub> powders. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 330, 227-36	9.3	124
50	Synthesis of (Ca,Nd)TiO <sub>3</sub> powders by complex polymerization, Rietveld refinement and optical properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2009</b> , 74, 1050-9	4.4	44
49	Improvement of fatigue resistance on La modified BiFeO <sub>3</sub> thin films. <i>Current Applied Physics</i> , <b>2009</b> , 9, 520-523	2.6	46
48	NiTiO <sub>3</sub> powders obtained by polymeric precursor method: Synthesis and characterization. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 468, 327-332	5.7	101
47	Intense blue and green photoluminescence emissions at room temperature in barium zirconate powders. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 471, 253-258	5.7	59
46	Photoluminescent behavior of BaWO <sub>4</sub> powders processed in microwave-hydrothermal. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 474, 195-200	5.7	75
45	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

44	Synthesis and photoluminescence behavior of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> powders obtained by the complex polymerization method. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 661-670	5.7	39
43	Synthesis, Characterization, Anisotropic Growth and Photoluminescence of BaWO <sub>4</sub> . <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1002-1012	3.5	102
42	Optical and dielectric relaxor behaviour of Ba(Zr <sub>0.25</sub> Ti <sub>0.75</sub> )O <sub>3</sub> ceramic explained by means of distorted clusters. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 175414	3	82
41	Morphology and Blue Photoluminescence Emission of PbMoO <sub>4</sub> Processed in Conventional Hydrothermal. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5812-5822	3.8	156
40	Size effects of polycrystalline lanthanum modified Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 158-167	5.1	21
39	CuO urchin-nanostructures synthesized from a domestic hydrothermal microwave method. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 771-775	5.1	72
38	Influence of microwave energy on structural and photoluminescent behavior of CaTiO <sub>3</sub> powders. <i>Solid State Sciences</i> , <b>2008</b> , 10, 1056-1061	3.4	49
37	Strain and vacancy cluster behavior of vanadium and tungsten-doped Ba[Zr <sub>0.10</sub> Ti <sub>0.90</sub> ]O <sub>3</sub> ceramics. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 032905	3.4	27
36	Dependence of annealing time on structural and morphological properties of Ca(Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> thin films. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 453, 386-391	5.7	3
35	Dielectric properties of pure and lanthanum modified bismuth titanate thin films. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 454, 66-71	5.7	10
34	Synthesis and characterization of CuO flower-nanostructure processing by a domestic hydrothermal microwave. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 459, 537-542	5.7	200
33	:W thin films obtained by chemical solution deposition: Morphological and ferroelectric characteristics. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 461, 326-330	5.7	3
32	Study of structural evolution and photoluminescent properties at room temperature of Ca(Zr,Ti)O <sub>3</sub> powders. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 464, 340-346	5.7	24
31	Ferroelectric and dielectric properties of vanadium-doped Ba(Ti <sub>0.90</sub> Zr <sub>0.10</sub> )O <sub>3</sub> ceramics. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 466, L15-L18	5.7	46
30	Experimental and theoretical correlation of very intense visible green photoluminescence in BaZrO <sub>3</sub> powders. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 063527	2.5	76
29	Synthesis, characterization, structural refinement and optical absorption behavior of PbWO <sub>4</sub> powders. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 150, 18-25	3.1	49
28	NiTiO <sub>3</sub> nanoparticles encapsulated with SiO <sub>2</sub> prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , <b>2008</b> , 45, 151-155	2.3	15
27	Sol-gel synthesis and characterization of Fe <sub>2</sub> O <sub>3</sub> □CeO <sub>2</sub> doped with Pr ceramic pigments. <i>Journal of Sol-Gel Science and Technology</i> , <b>2008</b> , 47, 38-43	2.3	17



26	Intense and broad photoluminescence at room temperature in structurally disordered Ba[Zr <sub>0.25</sub> Ti <sub>0.75</sub> ]O <sub>3</sub> powders: An experimental/theoretical correlation. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1782-1789	3.9	25
25	BaMoO <sub>4</sub> powders processed in domestic microwave-hydrothermal: Synthesis, characterization and photoluminescence at room temperature. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 2674-2680	3.9	90
24	Strong violet-blue light photoluminescence emission at room temperature in SrZrO <sub>3</sub> : Joint experimental and theoretical study. <i>Acta Materialia</i> , <b>2008</b> , 56, 2191-2202	8.4	122
23	SrMoO <sub>4</sub> powders processed in microwave-hydrothermal: Synthesis, characterization and optical properties. <i>Chemical Engineering Journal</i> , <b>2008</b> , 140, 632-637	14.7	165
22	Synthesis, structural refinement and optical behavior of CaTiO <sub>3</sub> powders: A comparative study of processing in different furnaces. <i>Chemical Engineering Journal</i> , <b>2008</b> , 143, 299-307	14.7	158
21	Intense violet-blue photoluminescence in BaZrO <sub>3</sub> powders: A theoretical and experimental investigation of structural order-disorder. <i>Optics Communications</i> , <b>2008</b> , 281, 3715-3720	2	48
20	Highly intense violet-blue light emission at room temperature in structurally disordered SrZrO <sub>3</sub> powders. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 091906	3.4	101
19	Understanding the origin of photoluminescence in disordered Ca <sub>0.60</sub> Sr <sub>0.40</sub> WO <sub>4</sub> : An experimental and first-principles study. <i>Chemical Physics</i> , <b>2007</b> , 334, 180-188	2.3	52
18	Impact of oxygen atmosphere on piezoelectric properties of CaBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> thin films. <i>Acta Materialia</i> , <b>2007</b> , 55, 4707-4712	8.4	24
17	Combined experimental and theoretical investigations of the photoluminescent behavior of Ba(Ti,Zr)O <sub>3</sub> thin films. <i>Acta Materialia</i> , <b>2007</b> , 55, 6416-6426	8.4	53
16	Domestic microwave oven adapted for fast heat treatment of Ba <sub>0.5</sub> Sr <sub>0.5</sub> (Ti <sub>0.8</sub> Sn <sub>0.2</sub> )O <sub>3</sub> powders. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 189, 316-319	5.3	35
15	Temperature dependence of dielectric properties for Ba(Zr <sub>0.25</sub> Ti <sub>0.75</sub> )O <sub>3</sub> thin films obtained from the soft chemical method. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 105, 293-297	4.4	26
14	Synthesis and characterization of CaBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> thin films annealed by microwave and conventional furnaces. <i>Solid State Sciences</i> , <b>2007</b> , 9, 756-760	3.4	17
13	SrZrO <sub>3</sub> powders obtained by chemical method: Synthesis, characterization and optical absorption behaviour. <i>Solid State Sciences</i> , <b>2007</b> , 9, 1020-1027	3.4	38
12	Ferroelectric and dielectric behaviour of Bi <sub>0.92</sub> La <sub>0.08</sub> FeO <sub>3</sub> multiferroic thin films prepared by soft chemistry route. <i>Journal of Sol-Gel Science and Technology</i> , <b>2007</b> , 44, 269-273	2.3	23
11	Nature of defects for bismuth layered thin films grown on Pt electrodes. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 082910	3.4	18
10	Ferroelectric fatigue endurance of Bi <sub>4-x</sub> LaxTi <sub>3</sub> O <sub>12</sub> thin films explained in terms of x-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 084112	2.5	24
9	Intense visible photoluminescence in Ba(Zr <sub>0.25</sub> Ti <sub>0.75</sub> )O <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 011901	3.4	58

8	Soft chemical deposition of BiFeO <sub>3</sub> multiferroic thin films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 052906	3-4	55
7	Photoluminescent behavior of SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> powders explained by means of Bi <sub>2</sub> O <sub>3</sub> phase. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 261913	3-4	30
6	Effect of annealing time on morphological characteristics of Ba(Zr,Ti)O <sub>3</sub> thin films. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 437, 269-273	5-7	19
5	Ferroelectric characteristics of BiFeO <sub>3</sub> thin films prepared via a simple chemical solution deposition. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 074108	2-5	53
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2	The role of structural order/disorder for visible intense photoluminescence in the BaZr <sub>0.5</sub> Ti <sub>0.5</sub> O <sub>3</sub> thin films. <i>Chemical Physics</i> , <b>2005</b> , 316, 260-266	2-3	34
1	Reading at exposed surfaces: theoretical insights into photocatalytic activity of ZnWO <sub>4</sub> , 1005		11