Elson Longo

List of Publications by Year
in descending order

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1,382 papers	42,075 citations	3933 88 h-index	16183 124 g-index
1393 all docs	1393 docs citations	1393 times ranked	31997 citing authors

#	Article	IF	Citations
1	Impedance of constant phase element (CPE)-blocked diffusion in film electrodes. Journal of Electroanalytical Chemistry, 1998, 452, 229-234.	3.8	396
2	A New Method to Control Particle Size and Particle Size Distribution of SnO2 Nanoparticles for Gas Sensor Applications. Advanced Materials, 2000, 12, 965-968.	21.0	352
3	A new SnO2-based varistor system. Journal of Materials Science Letters, 1995, 14, 692.	0.5	272
4	Crystal growth in colloidal tin oxide nanocrystals induced by coalescence at room temperature. Applied Physics Letters, 2003, 83, 1566-1568.	3.3	257
5	Effect of the ZrO2 phase on the structure and behavior of supported Cu catalysts for ethanol conversion. Journal of Catalysis, 2013, 307, 1-17.	6.2	255
6	The Role of Hierarchical Morphologies in the Superior Gas Sensing Performance of CuOâ€Based Chemiresistors. Advanced Functional Materials, 2013, 23, 1759-1766.	14.9	255
7	SnO2, ZnO and related polycrystalline compound semiconductors: An overview and review on the voltage-dependent resistance (non-ohmic) feature. Journal of the European Ceramic Society, 2008, 28, 505-529.	5.7	252
8	Photoluminescence in quantum-confined SnO2 nanocrystals: Evidence of free exciton decay. Applied Physics Letters, 2004, 84, 1745-1747.	3.3	237
9	Synthesis and characterization of CuO flower-nanostructure processing by a domestic hydrothermal microwave. Journal of Alloys and Compounds, 2008, 459, 537-542.	5.5	235
10	Structural characterization of phase transition of Al2O3 nanopowders obtained by polymeric precursor method. Materials Chemistry and Physics, 2007, 103, 394-399.	4.0	216
11	Superparamagnetism and magnetic properties of Ni nanoparticles embedded inSiO2. Physical Review B, 2002, 66, .	3.2	210
12	Preparation and characterization of ceria nanospheres by microwave-hydrothermal method. Materials Letters, 2008, 62, 4509-4511.	2.6	206
13	Effect of Different Solvent Ratios (Water/Ethylene Glycol) on the Growth Process of CaMoO₄ Crystals and Their Optical Properties. Crystal Growth and Design, 2010, 10, 4752-4768.	3.0	204
14	Oriented Attachment:Â An Effective Mechanism in the Formation of Anisotropic Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 20842-20846.	2.6	201
15	Electronic structure, growth mechanism and photoluminescence of CaWO₄crystals. CrystEngComm, 2012, 14, 853-868.	2.6	200
16	Structural and optical properties of CaTiO3 perovskite-based materials obtained by microwave-assisted hydrothermal synthesis: An experimental and theoretical insight. Acta Materialia, 2009, 57, 5174-5185.	7.9	194
17	Synthesis, structural refinement and optical behavior of CaTiO3 powders: A comparative study of processing in different furnaces. Chemical Engineering Journal, 2008, 143, 299-307.	12.7	188
18	SrMoO4 powders processed in microwave-hydrothermal: Synthesis, characterization and optical properties. Chemical Engineering Journal, 2008, 140, 632-637.	12.7	187

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19	Production of biodiesel by esterification of palmitic acid over mesoporous aluminosilicate Al-MCM-41. Fuel, 2009, 88, 461-468.	6.4	187
20	Photoluminescence of disordered ABO3 perovskites. Applied Physics Letters, 2000, 77, 824-826.	3.3	171
21	Morphology and Blue Photoluminescence Emission of PbMoO₄ Processed in Conventional Hydrothermal. Journal of Physical Chemistry C, 2009, 113, 5812-5822.	3.1	171
22	Effect of Cobalt(II) Oxide and Manganese(IV) Oxide on Sintering of Tin(IV) Oxide. Journal of the American Ceramic Society, 1996, 79, 799-804.	3.8	170
23	Cluster Coordination and Photoluminescence Properties of Î±-Ag₂WO₄ Microcrystals. Inorganic Chemistry, 2012, 51, 10675-10687.	4.0	168
24	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO₃ Nanoparticles. Chemistry of Materials, 2008, 20, 5381-5387.	6.7	166
25	Role of oxygen at the grain boundary of metal oxide varistors: A potential barrier formation mechanism. Applied Physics Letters, 2001, 79, 48-50.	3.3	163
26	A Kinetic Model to Describe Nanocrystal Growth by the Oriented Attachment Mechanism. ChemPhysChem, 2005, 6, 690-696.	2.1	155
27	Investigation of the electrical properties of SnO2 varistor system using impedance spectroscopy. Journal of Applied Physics, 1998, 84, 3700-3705.	2.5	150
28	Electronic structure and optical properties of BaMoO4 powders. Current Applied Physics, 2010, 10, 614-624.	2.4	150
29	Dielectric and ferroelectric characteristics of barium zirconate titanate ceramics prepared from mixed oxide method. Journal of Alloys and Compounds, 2008, 462, 129-134.	5.5	146
30	Structural conditions that leads to photoluminescence emission in SrTiO3: An experimental and theoretical approach. Journal of Applied Physics, 2008, 104, .	2.5	143
31	A polaronic stacking fault defect model for CaCu₃Ti₄O₁₂material: an approach for the origin of the huge dielectric constant and semiconducting coexistent features. Journal Physics D: Applied Physics, 2009, 42, 055404.	2.8	143
32	Effects of the postannealing atmosphere on the dielectric properties of (Ba,â€ŠSr)TiO3 capacitors: Evidence of an interfacial space charge layer. Applied Physics Letters, 2000, 76, 2433-2435.	3.3	141
33	Synthesis, growth process and photoluminescence properties of SrWO4 powders. Journal of Colloid and Interface Science, 2009, 330, 227-236.	9.4	141
34	Reaction Pathway to the Synthesis of Anatase via the Chemical Modification of Titanium Isopropoxide with Acetic Acid. Chemistry of Materials, 2008, 20, 143-150.	6.7	140
35	Photoluminescence of SrTiO₃: Influence of Particle Size and Morphology. Crystal Growth and Design, 2012, 12, 5671-5679.	3.0	138
36	Development of Metal Oxide Nanoparticles with High Stability Against Particle Growth Using a Metastable Solid Solution. Advanced Materials, 2002, 14, 905.	21.0	133

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37	Experimental and Theoretical Investigations of Electronic Structure and Photoluminescence Properties of Î²-Ag₂MoO₄ Microcrystals. Inorganic Chemistry, 2014, 53, 5589-5599.	4.0	133
38	Strong violetâ€“blue light photoluminescence emission at room temperature in SrZrO3: Joint experimental and theoretical study. Acta Materialia, 2008, 56, 2191-2202.	7.9	132
39	Hierarchical Assembly of CaMoO₄ Nano-Octahedrons and Their Photoluminescence Properties. Journal of Physical Chemistry C, 2011, 115, 5207-5219.	3.1	130
40	Title is missing!. Journal of Materials Science Letters, 1997, 16, 634-638.	0.5	127
41	Synthesis and characterization of spinel pigment CaFe2O4 obtained by the polymeric precursor method. Materials Letters, 2004, 58, 569-572.	2.6	127
42	Toward an Understanding of the Growth of Ag Filaments on Î±-Ag₂WO₄ and Their Photoluminescent Properties: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2014, 118, 1229-1239.	3.1	124
43	Facet-dependent photocatalytic and antibacterial properties of Î±-Ag₂WO₄crystals: combining experimental data and theoretical insights. Catalysis Science and Technology, 2015, 5, 4091-4107.	4.1	123
44	Pore size evolution during sintering of ceramic oxides. Ceramics International, 1990, 16, 177-189.	4.8	121
45	Experimental and Theoretical Study on the Structure, Optical Properties, and Growth of Metallic Silver Nanostructures in Ag₃PO₄. Journal of Physical Chemistry C, 2015, 119, 6293-6306.	3.1	120
46	NiTiO3 powders obtained by polymeric precursor method: Synthesis and characterization. Journal of Alloys and Compounds, 2009, 468, 327-332.	5.5	118
47	The influence of the film thickness of nanostructured Î±-Fe2O3 on water photooxidation. Physical Chemistry Chemical Physics, 2009, 11, 1215.	2.8	116
48	Thermodynamic argument about SnO2 nanoribbon growth. Applied Physics Letters, 2003, 83, 635-637.	3.3	115
49	Synthesis, Characterization, Anisotropic Growth and Photoluminescence of BaWO₄. Crystal Growth and Design, 2009, 9, 1002-1012.	3.0	115
50	Different Origins of Green-Light Photoluminescence Emission in Structurally Ordered and Disordered Powders of Calcium Molybdate. Journal of Physical Chemistry A, 2008, 112, 8920-8928.	2.5	112
51	Photoluminescent BaMoO4 nanopowders prepared by complex polymerization method (CPM). Journal of Solid State Chemistry, 2006, 179, 671-678.	2.9	111
52	Structure and growth mechanism of CuO plates obtained by microwave-hydrothermal without surfactants. Advanced Powder Technology, 2010, 21, 197-202.	4.1	110
53	Highly intense violet-blue light emission at room temperature in structurally disordered SrZrO3 powders. Applied Physics Letters, 2007, 90, 091906.	3.3	109
54	Efficient microwave-assisted hydrothermal synthesis of CuO sea urchin-like architectures via a mesoscale self-assembly. CrystEngComm, 2010, 12, 1696.	2.6	109

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55	CeO₂nanoparticles synthesized by a microwave-assisted hydrothermal method: evolution from nanospheres to nanorods. CrystEngComm, 2012, 14, 1150-1154.	2.6	108
56	UV-enhanced ozone gas sensing response of ZnO-SnO2 heterojunctions at room temperature. Sensors and Actuators B: Chemical, 2017, 240, 573-579.	7.8	108
57	Synthesis of wurtzite ZnS nanoparticles using the microwave assisted solvothermal method. Journal of Alloys and Compounds, 2013, 556, 153-159.	5.5	105
58	A novel ozone gas sensor based on one-dimensional (1D) Î±-Ag₂WO₄ nanostructures. Nanoscale, 2014, 6, 4058-4062.	5.6	105
59	Rietveld refinement, microstructure, conductivity and impedance properties of Ba[Zr0.25Ti0.75]O3 ceramic. Current Applied Physics, 2011, 11, 1282-1293.	2.4	104
60	Structural refinement, optical and microwave dielectric properties of BaZrO3. Ceramics International, 2012, 38, 2129-2138.	4.8	104
61	Room-temperature photoluminescence ofBaTiO3:â€ƒJoint experimental and theoretical study. Physical Review B, 2005, 71, .	3.2	103
62	Room temperature co-precipitation of nanocrystalline CeO2 and Ce0.8Gd0.2O1.9â˜Î´ powder. Materials Letters, 2007, 61, 1904-1907.	2.6	103
63	Direct in situ observation of the electron-driven synthesis of Ag filaments on Î±-Ag2WO4 crystals. Scientific Reports, 2013, 3, 1676.	3.3	103
64	ZnWO₄ nanocrystals: synthesis, morphology, photoluminescence and photocatalytic properties. Physical Chemistry Chemical Physics, 2018, 20, 1923-1937.	2.8	103
65	Microstructure and electric properties of a SnO2 based varistor. Ceramics International, 1999, 25, 1-6.	4.8	102
66	Preparation, structural and optical characterization of BaWO4 and PbWO4 thin films prepared by a chemical route. Journal of the European Ceramic Society, 2003, 23, 3001-3007.	5.7	102
67	Periodic study on the structural and electronic properties of bulk, oxidized and reduced SnO 2 (1 1 0) surfaces and the interaction with O 2. Surface Science, 2002, 511, 408-420.	1.9	100
68	BaMoO4 powders processed in domestic microwave-hydrothermal: Synthesis, characterization and photoluminescence at room temperature. Journal of Physics and Chemistry of Solids, 2008, 69, 2674-2680.	4.0	100
69	Site-selective ethanol conversion over supported copper catalysts. Catalysis Communications, 2012, 26, 122-126.	3.3	100
70	Zinc blende versus wurtzite ZnS nanoparticles: control of the phase and optical properties by tetrabutylammonium hydroxide. Physical Chemistry Chemical Physics, 2014, 16, 20127-20137.	2.8	100
71	Nature of the Schottky-type barrier of highly dense SnO2 systems displaying nonohmic behavior. Journal of Applied Physics, 2000, 88, 6545-6548.	2.5	99
72	Microstructural and optical characterization of CaWO4 and SrWO4 thin films prepared by a chemical solution method. Materials Letters, 2004, 58, 727-732.	2.6	99

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73	Influence of Microwave Heating on the Growth of Gadolinium-Doped Cerium Oxide Nanorods. Crystal Growth and Design, 2008, 8, 384-386.	3.0	99
74	Potentiated Electron Transference in Î±-Ag₂WO₄ Microcrystals with Ag Nanofilaments as Microbial Agent. Journal of Physical Chemistry A, 2014, 118, 5769-5778.	2.5	99
75	Structural and electronic analysis of the atomic scale nucleation of Ag on Î±-Ag2WO4 induced by electron irradiation. Scientific Reports, 2014, 4, 5391.	3.3	99
76	Density functional theory calculation of the electronic structure ofBa0.5Sr0.5TiO3:Photoluminescent properties and structural disorder. Physical Review B, 2004, 69, .	3.2	98
77	Non-Ohmic and dielectric properties of a Ca2Cu2Ti4O12 polycrystalline system. Applied Physics Letters, 2006, 89, 212102.	3.3	98
78	Mechanisms behind blue, green, and red photoluminescence emissions in CaWO4 and CaMoO4 powders. Applied Physics Letters, 2007, 91, .	3.3	97
79	Reuse of sugarcane bagasse ash (SCBA) to produce ceramic materials. Journal of Environmental Management, 2011, 92, 2774-2780.	7.8	97
80	Photoluminescence behavior in MgTiO3 powders with vacancy/distorted clusters and octahedral tilting. Materials Chemistry and Physics, 2009, 117, 192-198.	4.0	96
81	A relationship between structural and electronic orderâ€“disorder effects and optical properties in crystalline TiO₂nanomaterials. Dalton Transactions, 2015, 44, 3159-3175.	3.3	96
82	Sintering of ultrafine undoped SnO2 powder. Journal of the European Ceramic Society, 2001, 21, 669-675.	5.7	95
83	Optical and dielectric relaxor behaviour of Ba(Zr_{0.25}Ti_{0.75})O₃ceramic explained by means of distorted clusters. Journal Physics D: Applied Physics, 2009, 42, 175414.	2.8	93
84	Photoluminescent behavior of BaWO4 powders processed in microwave-hydrothermal. Journal of Alloys and Compounds, 2009, 474, 195-200.	5.5	92
85	ZnO architectures synthesized by a microwave-assisted hydrothermal method and their photoluminescence properties. Solid State Ionics, 2010, 181, 775-780.	2.7	92
86	Photoluminescence at room temperature in amorphous SrTiO3 thin films obtained by chemical solution deposition. Materials Chemistry and Physics, 2003, 77, 598-602.	4.0	91
87	Long-range and short-range structures of cube-like shape SrTiO3 powders: microwave-assisted hydrothermal synthesis and photocatalytic activity. Physical Chemistry Chemical Physics, 2013, 15, 12386.	2.8	91
88	Structural and spectroscopic analysis of -Al2O3 to -Al2O3-CoAl2O4 phase transition. Materials Chemistry and Physics, 2006, 97, 102-108.	4.0	90
89	New strategies in the preparation of exfoliated thermoplastic starchâ€“montmorillonite nanocomposites. Industrial Crops and Products, 2011, 34, 1502-1508.	5.2	90
90	Preparation and Characterization of a Dipâ€Coated SnO2 Film for Transparent Electrodes for Transmissive Electrochromic Devices. Journal of the Electrochemical Society, 1993, 140, L81-L82.	2.9	89

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91	Moderating effect of ammonia on particle growth and stability of quasi-monodisperse silver nanoparticles synthesized by the Turkevich method. Journal of Colloid and Interface Science, 2011, 360, 355-358.	9.4	89
92	Growth mechanism and photocatalytic properties of SrWO4 microcrystals synthesized by injection of ions into a hot aqueous solution. Advanced Powder Technology, 2013, 24, 344-353.	4.1	89
93	Microstructural and morphological analysis of pure and Ce-doped tin dioxide nanoparticles. Journal of the European Ceramic Society, 2003, 23, 707-713.	5.7	87
94	CeO₂ Nanoparticle Morphologies and Their Corresponding Crystalline Planes for the Photocatalytic Degradation of Organic Pollutants. ACS Applied Nano Materials, 2019, 2, 6513-6526.	5.0	87
95	Effect of oxidizing and reducing atmospheres on the electrical properties of dense SnO2-based varistors. Journal of the European Ceramic Society, 2001, 21, 161-167.	5.7	86
96	Synthesis of Fine Micro-sized BaZrO₃ Powders Based on a Decaoctahedron Shape by the Microwave-Assisted Hydrothermal Method. Crystal Growth and Design, 2009, 9, 833-839.	3.0	86
97	Influence of polymerization on the synthesis of SrTiO3: Part I. Characteristics of the polymeric precursors and their thermal decomposition. Ceramics International, 1995, 21, 143-152.	4.8	85
98	Oriented Attachment Mechanism in Anisotropic Nanocrystals: A â€œPolymerizationâ€•Approach. ChemPhysChem, 2006, 7, 664-670.	2.1	85
99	The role of network modifiers in the creation of photoluminescence in CaTiO3. Materials Chemistry and Physics, 2003, 78, 227-233.	4.0	84
100	Experimental and theoretical correlation of very intense visible green photoluminescence in BaZrO3 powders. Journal of Applied Physics, 2008, 103, .	2.5	84
101	Structure and optical properties of [Ba1â€“xY2x/3](Zr0.25Ti0.75)O3 powders. Solid State Sciences, 2010, 12, 1160-1167.	3.2	84
102	Presence of excited electronic state in CaWO4 crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation. Journal of Applied Physics, 2011, 110, .	2.5	84
103	Study of the annealing temperature effect on the structural and luminescent properties of SrWO4:Eu phosphors prepared by a non-hydrolytic solâ€“gel process. Journal of Alloys and Compounds, 2012, 526, 11-21.	5.5	84
104	Effects of surface stability on the morphological transformation of metals and metal oxides as investigated by first-principles calculations. Nanotechnology, 2015, 26, 405703.	2.6	84
105	Microstructural evolution during sintering of CoO doped SnO2 ceramics. Ceramics International, 1999, 25, 253-256.	4.8	83
106	Study of Synthesis Variables in the Nanocrystal Growth Behavior of Tin Oxide Processed by Controlled Hydrolysis. Journal of Physical Chemistry B, 2004, 108, 15612-15617.	2.6	83
107	Electronic and Structural Properties of the (101Ì…0) and (112Ì…0) ZnO Surfaces. Journal of Physical Chemistry A, 2008, 112, 8958-8963.	2.5	83
108	A combined theoretical and experimental study of electronic structure and optical properties of Î²-ZnMoO4 microcrystals. Polyhedron, 2013, 54, 13-25.	2.2	83

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109	Silver Molybdate and Silver Tungstate Nanocomposites with Enhanced Photoluminescence. Nanomaterials and Nanotechnology, 2014, 4, 22.	3.0	83
110	Synthesis and sintering of ultra fine NaNbO3 powder by use of polymeric precursors. Materials Letters, 1996, 28, 215-220.	2.6	82
111	Teraelectronvolt pulsed emission from the Crab Pulsar detected by MAGIC. Astronomy and Astrophysics, 2016, 585, A133.	5.1	82
112	High dielectric constant of SrTiO3 thin films prepared by chemical process. Journal of Materials Science, 2000, 35, 4783-4787.	3.7	81
113	Preparation of CeO2 by a simple microwaveâ€“hydrothermal method. Solid State Ionics, 2009, 180, 288-291.	2.7	81
114	Microstructure, dielectric properties and optical band gap control on the photoluminescence behavior of Ba[Zr0.25Ti0.75]O3 thin films. Journal of Sol-Gel Science and Technology, 2009, 49, 35-46.	2.4	81
115	Photoluminescence properties of praseodymium doped cerium oxide nanocrystals. Ceramics International, 2014, 40, 4445-4453.	4.8	81
116	Influence of order-disorder effects on the magnetic and optical properties of NiFe2O4 nanoparticles. Ceramics International, 2018, 44, 17290-17297.	4.8	81
117	CuO urchin-nanostructures synthesized from a domestic hydrothermal microwave method. Materials Research Bulletin, 2008, 43, 771-775.	5.2	79
118	Structural refinement, growth process, photoluminescence and photocatalytic properties of (Ba1-xPr2x/3)WO4 crystals synthesized by the coprecipitation method. RSC Advances, 2012, 2, 6438.	3.6	79
119	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. Materials and Design, 2017, 120, 363-375.	7.0	79
120	Anisotropic Growth of Oxide Nanocrystals:â€‰ Insights into the Rutile TiO2 Phase. Journal of Physical Chemistry C, 2007, 111, 5871-5875.	3.1	78
121	Relation between photoluminescence emission and local order-disorder in the CaTiO3 lattice modifier. Applied Physics Letters, 2007, 90, 111904.	3.3	78
122	Growth of SnO Nanobelts and Dendrites by a Self-Catalytic VLS Process. Journal of Physical Chemistry B, 2006, 110, 6621-6625.	2.6	77
123	Rietveld refinement, cluster modelling, growth mechanism and photoluminescence properties of CaWO₄:Eu³⁺microcrystals. CrystEngComm, 2015, 17, 1654-1666.	2.6	77
124	A new interpretation for the degradation phenomenon of ZnO varistors. Journal of Materials Science, 1992, 27, 5325-5329.	3.7	76
125	Study of the dielectric and ferroelectric properties of chemically processed BaxSr1â^'xTiO3 thin films. Thin Solid Films, 2001, 386, 91-98.	1.8	76
126	Growth mechanism of octahedron-like BaMoO4 microcrystals processed in microwave-hydrothermal: Experimental observations and computational modeling. Particuology, 2009, 7, 353-362.	3.6	76

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127	Toward Understanding the Photocatalytic Activity of PbMoO₄ Powders with Predominant (111), (100), (011), and (110) Facets. A Combined Experimental and Theoretical Study. Journal of Physical Chemistry C, 2013, 117, 21382-21395.	3.1	76
128	Title is missing!. Journal of Materials Science: Materials in Electronics, 1999, 10, 321-327.	2.2	75
129	Recent research developments in SnO2-based varistors. Materials Chemistry and Physics, 2005, 90, 1-9.	4.0	75
130	Ferroelectric and optical properties of Ba0.8Sr0.2TiO3 thin film. Journal of Applied Physics, 2002, 91, 5972-5978.	2.5	74
131	Theoretical and experimental study on the photoluminescence in BaTiO3 amorphous thin films prepared by the chemical route. Journal of Luminescence, 2003, 104, 175-185.	3.1	73
132	A Joint Experimental and Theoretical Study on the Nanomorphology of CaWO₄ Crystals. Journal of Physical Chemistry C, 2011, 115, 20113-20119.	3.1	73
133	Structure, ferroelectric/magnetoelectric properties and leakage current density of (Bi0.85Nd0.15)FeO3 thin films. Journal of Alloys and Compounds, 2011, 509, 5326-5335.	5.5	73
134	Photoluminescence of Barium Titanate and Barium Zirconate in Multilayer Disordered Thin Films at Room temperature. Journal of Physical Chemistry A, 2008, 112, 8938-8942.	2.5	72
135	An efficient microwave-assisted hydrothermal synthesis of BaZrO3 microcrystals: growth mechanism and photoluminescence emissions. CrystEngComm, 2010, 12, 3612.	2.6	72
136	Photoluminescence properties of cerium oxide nanoparticles as a function of lanthanum content. Materials Research Bulletin, 2015, 70, 416-423.	5.2	72
137	Electronic and structural properties of SnxTi1â^'xO2 solid solutions: a periodic DFT study. Catalysis Today, 2003, 85, 145-152.	4.4	71
138	Structure, microstructure and dielectric properties of 100â^'x(Bi0.5Na0.5)TiO3â^'x[SrTiO3] composites ceramics. Applied Physics A: Materials Science and Processing, 2012, 109, 715-723.	2.3	71
139	Rietveld refinement and optical properties of SrWO4:Eu3+ powders prepared by the non-hydrolytic sol-gel method. Journal of Rare Earths, 2015, 33, 113-128.	4.8	71
140	The interaction of H2, CO, CO2, H2O and NH3 on ZnO surfaces: an Oniom Study. Chemical Physics Letters, 2004, 400, 481-486.	2.6	70
141	Photoluminescence and Photocatalytic Properties of Ag₃PO₄ Microcrystals: An Experimental and Theoretical Investigation. ChemPlusChem, 2016, 81, 202-212.	2.8	70
142	Monoferrite BaFe2O4 applied as ceramic pigment. Ceramics International, 2007, 33, 521-525.	4.8	69
143	First principles calculations on the origin of violet-blue and green light photoluminescence emission in SrZrO3 and SrTiO3 perovskites. Theoretical Chemistry Accounts, 2009, 124, 385-394.	1.4	69
144	Intense blue and green photoluminescence emissions at room temperature in barium zirconate powders. Journal of Alloys and Compounds, 2009, 471, 253-258.	5.5	69

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145	On the photoluminescence behavior of samarium-doped strontium titanate nanostructures under UV light. A structural and electronic understanding. Physical Chemistry Chemical Physics, 2010, 12, 7566.	2.8	68
146	Application of polysaccharide hydrogels in adsorption and controlledâ€extended release of fertilizers processes. Journal of Applied Polymer Science, 2012, 123, 2291-2298.	2.6	68
147	An easy method of preparing ozone gas sensors based on ZnO nanorods. RSC Advances, 2015, 5, 19528-19533.	3.6	68
148	CaTiO3:Eu3+ obtained by microwave assisted hydrothermal method: A photoluminescent approach. Optical Materials, 2010, 32, 990-997.	3.6	67
149	Well-designed Î²-Ag2MoO4 crystals with photocatalytic and antibacterial activity. Materials and Design, 2017, 115, 73-81.	7.0	67
150	Low-temperature synthesis of single-phase crystalline LaNiO3 perovskite via Pechini method. Materials Letters, 2002, 53, 122-125.	2.6	66
151	Photoluminescence in disordered Zn2TiO4. Journal of Solid State Chemistry, 2006, 179, 985-992.	2.9	66
152	MgFe2O4 pigment obtained at low temperature. Materials Research Bulletin, 2006, 41, 183-190.	5.2	66
153	Î²-ZnMoO4 microcrystals synthesized by the surfactant-assisted hydrothermal method: Growth process and photoluminescence properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 396, 346-351.	4.7	66
154	Acetone gas sensor based on Î±-Ag2WO4 nanorods obtained via a microwave-assisted hydrothermal route. Journal of Alloys and Compounds, 2016, 683, 186-190.	5.5	66
155	Electrical properties of the SnO2-based varistor. Journal of Materials Science: Materials in Electronics, 1998, 9, 159-165.	2.2	65
156	Density Functional Theory Study on the Structural and Electronic Properties of Low Index Rutile Surfaces for TiO₂/SnO₂/TiO₂ and SnO₂/TiO₂/SnO₂ Composite Systems. Journal of Physical Chemistry A, 2008, 112, 8943-8952.	2.5	65
157	Morphology and Photoluminescence of HfO2Obtained by Microwave-Hydrothermal. Nanoscale Research Letters, 2009, 4, 1371-1379.	5.7	65
158	Different dye degradation mechanisms for ZnO and ZnO doped with N (ZnO:N). Journal of Molecular Catalysis A, 2016, 417, 89-100.	4.8	65
159	Dye-sensitized solar cell architecture based on indiumâ€“tin oxide nanowires coated with titanium dioxide. Scripta Materialia, 2007, 57, 277-280.	5.2	64
160	Synthesis, Characterization and Photophysical Properties of Eu3+ Doped in BaMoO4. Journal of Fluorescence, 2008, 18, 239-245.	2.5	64
161	Microwave-assisted hydrothermal synthesis of nanocrystalline SnO powders. Materials Letters, 2008, 62, 239-242.	2.6	64
162	Toward an Understanding of Intermediate- and Short-Range Defects in ZnO Single Crystals. A Combined Experimental and Theoretical Study. Journal of Physical Chemistry A, 2008, 112, 8970-8978.	2.5	64

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163	Effect of TiO2 surface modification in Rhodamine B photodegradation. Journal of Sol-Gel Science and Technology, 2009, 49, 95-100.	2.4	64
164	Influence of mineralizer agents on the growth of crystalline CeO2 nanospheres by the microwave-hydrothermal method. Journal of Alloys and Compounds, 2013, 550, 245-251.	5.5	64
165	Structural, Optical, and Magnetic Properties of NiMoO₄Nanorods Prepared by Microwave Sintering. Scientific World Journal, The, 2015, 2015, 1-8.	2.1	64
166	Microstructural development of ZnO varistor during reactive liquid phase sintering. Journal of Materials Science, 1996, 31, 5391-5398.	3.7	63
167	Comparison of blue pigments prepared by two different methods. Journal of the European Ceramic Society, 2002, 22, 2911-2919.	5.7	63
168	Characterization of BaTi1âˆ'xZrxO3 thin films obtained by a soft chemical spin-coating technique. Journal of Applied Physics, 2004, 96, 4386-4391.	2.5	63
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