

V R Mastelaro

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.

207
papers

5,460
citations

40
h-index

64
g-index

224
ext. papers

6,163
ext. citations

4
avg, IF

5.68
L-index

#	Paper	IF	Citations
207	Tunning the Gas Sensing Properties of rGO with In ₂ O ₃ Nanoparticles. <i>Surfaces</i> , 2022 , 5, 127-142	2.9	0
206	CuO nanoparticles decorated on hydroxyapatite/ferrite magnetic support: photocatalysis, cytotoxicity, and antimicrobial response.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	3
205	Phase control and optimization of photocatalytical properties of Samarium doped TiO ₂ synthesized by coupled ultraviolet and microwave radiations. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164217	5.7	0
204	Cu-Modified SrTiO ₃ Perovskites Toward Enhanced Water Gas Shift Catalysis: A Combined Experimental and Computational Study. <i>ACS Applied Energy Materials</i> , 2021 , 4, 452-461	6.1	5
203	Experimental and Theoretical Insights into the Structural Disorder and Gas Sensing Properties of ZnO. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1447-1457	4	7
202	Heterogeneous Fenton-like surface properties of oxygenated graphitic carbon nitride. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 479-488	9.3	6
201	XPS Study of Long-Term Passivation of GaAs Surfaces Using Saturated Ammonium Sulfide Solution under Optimum Condition. <i>Russian Journal of Electrochemistry</i> , 2021 , 57, 471-477	1.2	1
200	A global pollutant (PVC-polyvinyl chloride) applied as heavy metal binder from aqueous samples: green principles from synthesis to application. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-13	2.6	1
199	Phase evolution and optical properties of nanometric Mn-doped TiO ₂ pigments. <i>Materials Today Communications</i> , 2021 , 27, 102295	2.5	0
198	Ozone detection in the ppt-level with rGO-ZnO based sensor. <i>Sensors and Actuators B: Chemical</i> , 2021 , 338, 129779	8.5	6
197	Enhancement of Ammonia Gas Sensing Properties of GaAs-Based Schottky Diodes Using Ammonium Sulfide Surface Passivation. <i>IEEE Sensors Journal</i> , 2021 , 21, 4209-4215	4	1
196	Effect of hydrothermal temperature on the antibacterial and photocatalytic activity of WO ₃ decorated with silver nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2021 , 97, 228-244	2.3	4
195	Cellulose nanofibers production using a set of recombinant enzymes. <i>Carbohydrate Polymers</i> , 2021 , 256, 117510	10.3	12
194	Sintering-driven effects on the band gap of (Pb,La)(Ti,Ni)O ₃ photovoltaic ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2600-2609	3.8	
193	Exploiting oxidative coupling of methane performed over La ₂ (Ce _{1-x} Mg _x) ₂ O ₇ catalysts with disordered defective cubic fluorite structure. <i>Catalysis Science and Technology</i> , 2021 , 11, 4471-4481	5.5	4
192	Fundamental studies of magneto-optical borogermanate glasses and derived optical fibers containing Tb ³⁺ . <i>Journal of Materials Research and Technology</i> , 2021 , 11, 312-327	5.5	9
191	Hybrid hematite/calcium ferrite fibers by solution blow spinning: Microstructural, optical and magnetic characterization. <i>Ceramics International</i> , 2021 , 47, 33363-33363	5.1	2

190	Doped Plasmonic Zinc Oxide Nanoparticles with Near-Infrared Absorption for Antitumor Activity. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9779-9789	5.6	1
189	Instantaneous adsorption and synergic effect in simultaneous removal of complex dyes through nanocellulose/graphene oxide nanocomposites: batch, fixed-bed experiments and mechanism. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021 , 16, 100584	3.3	3
188	One-pot exfoliation and surface functionalization of MoS ₂ : A potential nanofiller to overcome the brittleness of polystyrene (PS). <i>Polymer</i> , 2021 , 233, 124187	3.9	
187	Controlling the performance of one-dimensional homojunction UV detectors based on ZnO nanoneedles array. <i>Sensors and Actuators A: Physical</i> , 2021 , 331, 112916	3.9	2
186	Enhanced ultrasensitive detection of ozone gas using reduced graphene oxide-incorporated LaFeO ₃ nanospheres for environmental remediation process. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 8933-8945	2.1	1
185	GaAs Semiconductor Passivated by (NH ₄) ₂ Sx: Analysis of Different Passivation Methods Using Electrical Characteristics and XPS Measurements. <i>Semiconductors</i> , 2020 , 54, 817-826	0.7	1
184	Thermal and structural modification in transparent and magnetic germanoborate glasses induced by Gd ₂ O ₃ . <i>Ceramics International</i> , 2020 , 46, 22079-22089	5.1	9
183	The role of counter-ions in crystal morphology, surface structure and photocatalytic activity of ZnO crystals grown onto a substrate. <i>Applied Surface Science</i> , 2020 , 529, 147057	6.7	11
182	Unveiling the role of AgMoO microcrystals to the improvement of antibacterial activity. <i>Materials Science and Engineering C</i> , 2020 , 111, 110765	8.3	23
181	Graphene Oxide as a Platform for Copper Pentacyanonitrosylferrate Nanoparticles and their Behavior in the Electro-oxidation of N-Acetylcysteine. <i>Electroanalysis</i> , 2020 , 32, 1408-1416	3	2
180	One-step controllable synthesis of three-dimensional WO ₃ hierarchical architectures with different morphologies decorated with silver nanoparticles: enhancing the photocatalytic activity. <i>RSC Advances</i> , 2020 , 10, 6625-6639	3.7	8
179	The effect of morphology on the ozone-gas sensing properties of zinc oxide sputtered films. <i>Thin Solid Films</i> , 2020 , 703, 137975	2.2	4
178	Fabrication of SrTiO ₃ /g-C ₃ N ₄ heterostructures for visible light-induced photocatalysis. <i>Materials Science in Semiconductor Processing</i> , 2020 , 108, 104887	4.3	12
177	Wavelength effect of ns-pulsed radiation on the reduction of graphene oxide. <i>Applied Surface Science</i> , 2020 , 506, 144808	6.7	12
176	One-Step Synthesis of Nickel Sulfides and Their Electrocatalytic Activities for Hydrogen Evolution Reaction: A Case Study of Crystalline h-NiS and o-Ni ₉ S ₈ Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9498-9503	6.1	5
175	Effective removal of basic dye onto sustainable chitosan beads: Batch and fixed-bed column adsorption, beads stability and mechanism. <i>Sustainable Chemistry and Pharmacy</i> , 2020 , 18, 100348	3.9	9
174	Prozac photodegradation mediated by Mn-doped TiO ₂ nanoparticles: Evaluation of by-products and mechanisms proposal. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104543	6.8	13
173	Insights on the mechanism of solid state reaction between TiO ₂ and BaCO ₃ to produce BaTiO ₃ powders: The role of calcination, milling, and mixing solvent. <i>Ceramics International</i> , 2020 , 46, 2987-3001	5.1	11

172	Unveiling the efficiency of microwave-assisted hydrothermal treatment for the preparation of SrTiO mesocrystals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22031-22038	3.6	6
171	Highly selective ozone gas sensor based on nanocrystalline Zn _{0.95} Co _{0.05} O thin film obtained via spray pyrolysis technique. <i>Applied Surface Science</i> , 2019 , 478, 347-354	6.7	28
170	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. <i>Mikrochimica Acta</i> , 2019 , 186, 418	5.8	57
169	Syngas for Fischer-Tropsch synthesis by methane tri-reforming using nickel supported on MgAl ₂ O ₄ promoted with Zr, Ce and Ce-Zr. <i>Applied Surface Science</i> , 2019 , 481, 747-760	6.7	21
168	Crystallization mechanism and kinetics of a Fe-diopside (25CaO·25MgO·50SiO ₂) glass-ceramic. <i>Journal of Materials Science</i> , 2019 , 54, 9313-9320	4.3	3
167	One-Dimensional V ₂ O ₅ /TiO ₂ Heterostructures for Chemiresistive Ozone Sensors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4756-4764	5.6	28
166	Ag and Cu doped ZnO nanowires: A pH-Controlled synthesis via chemical bath deposition. <i>Materialia</i> , 2019 , 5, 100212	3.2	17
165	Order-disorder phenomena and octahedral tilting in SrTi _{1-x} Sn _x O ₃ perovskites: A structural and spectroscopic study. <i>Journal of Solid State Chemistry</i> , 2019 , 269, 521-531	3.3	2
164	Investigation of the Fe-Mo electrodeposition from sorbitol alkaline bath and characterization of the films produced. <i>Journal of Alloys and Compounds</i> , 2018 , 750, 577-586	5.7	5
163	Influence of Cu substitution on the structural ordering, photocatalytic activity and photoluminescence emission of Ag _{3-2x} Cu _x PO ₄ powders. <i>Applied Surface Science</i> , 2018 , 440, 61-72	6.7	17
162	Development of Co ₃ [Co(CN) ₆] ₂ /Fe ₃ O ₄ Bifunctional Nanocomposite for Clinical Sensor Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4283-4293	5.6	17
161	X-ray Absorption Fine Structure (XAFS) Studies of Oxide Glasses-A 45-Year Overview. <i>Materials</i> , 2018 , 11,	3.5	32
160	Structural and electrical characterization of glasses in the Li ₂ O·CaO·B ₂ O ₃ system. <i>Journal of Non-Crystalline Solids</i> , 2018 , 499, 272-277	3.9	7
159	The Role of Nb Addition in TiO ₂ Nanoparticles: Phase Transition and Photocatalytic Properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800321	1.6	6
158	Direct photo-oxidation and superoxide radical as major responsible for dye photodegradation mechanism promoted by TiO ₂ /GO heterostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 17022-17037	2.1	6
157	Fabrication of waveguides by fs-laser micromachining in Dy ³⁺ /Eu ³⁺ -doped barium borate glass with broad emission in the visible spectrum. <i>Optics Communications</i> , 2018 , 427, 33-36	2	11
156	Yolk-shelled ZnCo ₂ O ₄ microspheres: Surface properties and gas sensing application. <i>Sensors and Actuators B: Chemical</i> , 2018 , 257, 906-915	8.5	141
155	Silver-controlled evolution of morphological, structural, and optical properties of three-dimensional hierarchical WO ₃ structures synthesized from hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2018 , 736, 143-151	5.7	13

154	Electrical transport properties and complex impedance investigation of Fe ³⁺ and La ³⁺ co-doping (Pb,Sr)TiO ₃ thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018 , 236-237, 179-188	3.1	
153	Synthesis of ZnO Nanoparticles Assisted by N Sources and their Application in the Photodegradation of Organic Contaminants. <i>ChemCatChem</i> , 2017 , 9, 3795-3804	5.2	28
152	Atomic pair distribution function at the Brazilian Synchrotron Light Laboratory: application to the PbLaZrTiO ferroelectric system. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 1098-1104	2.4	3
151	Characterization of the third-order optical nonlinearity spectrum of barium borate glasses. <i>Optical Materials</i> , 2017 , 73, 16-19	3.3	24
150	SrTi _{1-x} Fe _y O ₃ samples obtained by hydrothermal method: The effect of the amount of Fe on structural and photocatalytic properties. <i>Materials Science in Semiconductor Processing</i> , 2017 , 68, 140-148	4.3	5
149	UV-enhanced ozone gas sensing response of ZnO-SnO ₂ heterojunctions at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 573-579	8.5	80
148	Deposition Rate Influence in O ₃ Sensing Response of Sputtered ZnO Thin Films. <i>Proceedings (mdpi)</i> , 2017 , 1, 429	0.3	2
147	Morphology and Optical Properties of SrWO ₄ Powders Synthesized by the Coprecipitation and Polymeric Precursor Methods 2017 , 131-154		1
146	Study of the morphological evolution of vanadium pentoxide nanostructures under hydrothermal conditions. <i>CrystEngComm</i> , 2016 , 18, 7636-7641	3.3	4
145	Catalyst free vapor-solid deposition of morphologically different Bi ₂ CO ₃ nanostructure thin films for selective CO gas sensors at low temperature. <i>Analytical Methods</i> , 2016 , 8, 3224-3235	3.2	20
144	In situ study of copper reduction in SrTi _{1-x} Cu _x O ₃ nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2070-9	3.6	10
143	A novel organic pollutants gas sensing material p-type CuAlO ₂ microsphere constituted of nanoparticles for environmental remediation. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 138-148	8.5	20
142	An Understanding of the Photocatalytic Properties and Pollutant Degradation Mechanism of SrTiO ₃ Nanoparticles. <i>Photochemistry and Photobiology</i> , 2016 , 92, 371-8	3.6	33
141	Ozone sensing properties of nickel phthalocyanine:ZnO nanorod heterostructures 2016 ,		12
140	Relationship between ferroelectric properties and local structure of Pb _{1-x} Ba _x Zr _{0.40} Ti _{0.60} O ₃ ceramic materials studied by X-ray absorption and Raman spectroscopies. <i>Journal of Solid State Chemistry</i> , 2016 , 240, 16-22	3.3	1
139	Potentiometric detection of chemical species by spin-assisted assembly of vanadium pentoxide nanorods. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 461-465	8.5	8
138	Acetone gas sensor based on BiAg ₂ WO ₄ nanorods obtained via a microwave-assisted hydrothermal route. <i>Journal of Alloys and Compounds</i> , 2016 , 683, 186-190	5.7	54
137	Local Structure and Surface Properties of CoZnO Thin Films for Ozone Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26066-26072	9.5	45

- 136 One-step approach for preparing ozone gas sensors based on hierarchical NiCo₂O₄ structures. *RSC Advances*, **2016**, 6, 92655-92662 3.7 94
- 135 XANES measurements probing the local order and electronic structure of Pb_{1-x}BaxZr_{0.40}Ti_{0.60}O₃ ferroelectric materials. *Journal of Alloys and Compounds*, **2015**, 640, 355-361 5.7 6
- 134 Ozone and nitrogen dioxide gas sensor based on a nanostructured SrTi_{0.85}Fe_{0.15}O₃ thin film. *Journal of Alloys and Compounds*, **2015**, 638, 374-379 5.7 37
- 133 Influence of titanium precursor on photoluminescent emission of micro-cube-shaped CaTiO₃. *Journal of Luminescence*, **2015**, 165, 130-137 3.8 8
- 132 Fingerprints of short-range and long-range structure in BaZr_(1-x)Hf_xO₃ solid solutions: an experimental and theoretical study. *Physical Chemistry Chemical Physics*, **2015**, 17, 11341-9 3.6 9
- 131 Investigation on magnetic and electric properties of morphologically different perovskite LaFeO₃ nanostructures. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 8652-8662 2.1 22
- 130 Effect of different strontium precursors on the growth process and optical properties of SrWO₄ microcrystals. *Journal of Materials Science*, **2015**, 50, 8089-8103 4.3 20
- 129 Photocatalytic degradation of organic pollutants by shape selective synthesis of FeGa₂O₃ microspheres constituted by nanospheres for environmental remediation. *Journal of Materials Chemistry A*, **2015**, 3, 2617-2627 13 46
- 128 Local structure and hybridization states in Ba_{0.9}Ca_{0.1}Ti_{1-x}Zr_xO₃ ceramic compounds: Correlation with a normal or relaxor ferroelectric character. *Acta Materialia*, **2015**, 84, 164-171 8.4 35
- 127 Rapid hydrothermal synthesis and pH-dependent photocatalysis of strontium titanate microspheres. *Materials Science in Semiconductor Processing*, **2015**, 30, 651-657 4.3 40
- 126 An easy method of preparing ozone gas sensors based on ZnO nanorods. *RSC Advances*, **2015**, 5, 19528-19533 3.7 58
- 125 Rietveld refinement, cluster modelling, growth mechanism and photoluminescence properties of CaWO₄:Eu³⁺ microcrystals. *CrystEngComm*, **2015**, 17, 1654-1666 3.3 62
- 124 A novel ozone gas sensor based on one-dimensional (1D) Ag₂WO₄ nanostructures. *Nanoscale*, **2014**, 6, 4058-62 7.7 92
- 123 Europium-doped calcium titanate: Optical and structural evaluations. *Journal of Alloys and Compounds*, **2014**, 585, 154-162 5.7 13
- 122 In-depth understanding of the relation between CuAlO₂ particle size and morphology for ozone gas sensor detection at a nanoscale level. *ACS Applied Materials & Interfaces*, **2014**, 6, 21739-49 9.5 33
- 121 Photocatalytic degradation of organic dyes under visible light irradiation by floral-like LaFeO₃ nanostructures comprised of nanosheet petals. *New Journal of Chemistry*, **2014**, 38, 5480-5490 3.6 78
- 120 Surface morphology-dependent room-temperature LaFeO₃ nanostructure thin films as selective NO₂ gas sensor prepared by radio frequency magnetron sputtering. *ACS Applied Materials & Interfaces*, **2014**, 6, 13917-27 9.5 87
- 119 Detection of the neurotransmitter dopamine by a glassy carbon electrode modified with self-assembled perovskite LaFeO₃ microspheres made up of nanospheres. *RSC Advances*, **2014**, 4, 25957-25962 2.9 29

118	Insight into the Effects of Fe Addition on the Local Structure and Electronic Properties of SrTiO ₃ . <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4930-4940	3.8	40
117	An investigation into the influence of zinc precursor on the microstructural, photoluminescence, and gas-sensing properties of ZnO nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	14
116	Titanium K-Edge XAS Study on Local Structure of Pb _{1-x} CaxTiO ₃ Ferroelectric Ceramics. <i>Advanced Materials Research</i> , 2014 , 975, 29-35	0.5	4
115	Local order of Pb _{1-x} LaxZr _{0.40} Ti _{0.60} O ₃ ferroelectric ceramic materials probed by X-ray absorption and Raman spectroscopies. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 680-687	5.7	6
114	Local electronic structure, optical bandgap and photoluminescence (PL) properties of Ba(Zr _{0.75} Ti _{0.25})O ₃ powders. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1035-1045	4.3	25
113	Femtosecond laser processing of glassy and polymeric matrices containing metals and semiconductor nanostructures. <i>Optical Materials</i> , 2013 , 35, 2643-2648	3.3	21
112	Ozone gas sensor based on nanocrystalline SrTi _{1-x} FexO ₃ thin films. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 919-924	8.5	35
111	Fe K-edge X-ray absorption spectroscopy study of Pb(Fe _{2/3} W _{1/3})O ₃ -PbTiO ₃ multiferroic ceramics. <i>Journal of Applied Physics</i> , 2013 , 113, 114104	2.5	3
110	Correlation Between Photoluminescence and Structural Defects in Ca _{1+x} Cu _{3-x} Ti ₄ O ₁₂ Systems. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 209-217	3.8	26
109	Long-range and short-range structures of cube-like shape SrTiO ₃ powders: microwave-assisted hydrothermal synthesis and photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12386-12393	3.6	74
108	Combination of guided mode and photometric optical metrology methods for precise determination of refractive index dispersion: application to polymer blend and ceramic thin films for gas sensors. <i>Optical Engineering</i> , 2013 , 52, 094104	1.1	2
107	Fe valence fluctuations and magnetoelastic coupling in Pb-based multiferroics perovskites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 386-390	1.6	12
106	W LIII-edge XANES and EXAFS studies of Pb(Fe _{2/3} W _{1/3})O ₃ -PbTiO ₃ multiferroic ceramics. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012111	0.3	1
105	Optical properties of amorphous, erbium-doped yttrium alumino-borate thin films. <i>Optical Materials</i> , 2012 , 34, 665-670	3.3	4
104	Grain size effect on the structural and dielectric properties of Pb _{0.85} La _{0.15} TiO ₃ ferroelectric ceramic compound. <i>Ceramics International</i> , 2012 , 38, 5879-5887	5.1	12
103	Structural XANES characterization of Ca _{0.99} Sm _{0.01} TiO ₃ perovskite and correlation with photoluminescence emission. <i>Chemical Physics Letters</i> , 2012 , 544, 43-48	2.5	15
102	Quantum Mechanics Insight into the Microwave Nucleation of SrTiO ₃ Nanospheres. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24792-24808	3.8	52
101	Cluster coordination and photoluminescence properties of Ag ₂ WO ₄ microcrystals. <i>Inorganic Chemistry</i> , 2012 , 51, 10675-87	5.1	143

100	Correlating phase and microstructure development versus dielectric properties in La ³⁺ and Er ³⁺ co-doped Bi ₄ Ti ₃ O ₁₂ ferroelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2012 , 510, 60-65	5.7	5
99	Local structure around Fe ions on multiferroic Pb(Fe _{1/2} Nb _{1/2})O ₃ ceramics probed by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2012 , 100, 172907	3.4	12
98	Ion-sensing properties of 1D vanadium pentoxide nanostructures. <i>Nanoscale Research Letters</i> , 2012 , 7, 310	5	21
97	Structural refinement and photoluminescence properties of irregular cube-like (Ca _{1-x} Cu _x)TiO ₃ microcrystals synthesized by the microwave hydrothermal method. <i>Materials Chemistry and Physics</i> , 2012 , 136, 130-139	4.4	22
96	Size-induced diffuse behavior in Pb _{0.89} La _{0.11} Zr _{0.40} Ti _{0.60} O ₃ nanocrystalline ferroelectric ceramics. <i>Solid State Sciences</i> , 2012 , 14, 1392-1397	3.4	2
95	Comparison of refractive indices measured by m-lines and ellipsometry: application to polymer blend and ceramic thin films for gas sensors 2012 ,		2
94	Novel SrTi _{1-x} FexO ₃ nanocubes synthesized by microwave-assisted hydrothermal method. <i>CrystEngComm</i> , 2012 , 14, 4068	3.3	20
93	Influence of Ba-substitution on the structural and ferroelectric properties of Pb _{1-x} Ba _x Zr _{0.40} Ti _{0.60} O ₃ ceramic materials. <i>Phase Transitions</i> , 2012 , 85, 659-674	1.3	4
92	Local order and electronic structure of Pb _{1-x} LaxZr _{0.40} Ti _{0.60} O ₃ materials and its relation with ferroelectric properties. <i>Journal of Applied Physics</i> , 2012 , 111, 104110	2.5	17
91	Pb _{0.90} Ba _{0.10} Zr _{0.40} Ti _{0.60} O ₃ Nanostructured Ferroelectric Ceramics Prepared by Spark Plasma Sintering. <i>Ferroelectrics</i> , 2012 , 429, 69-74	0.6	2
90	Relationship between Crystal Shape, Photoluminescence, and Local Structure in SrTiO ₃ Synthesized by Microwave-Assisted Hydrothermal Method. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-6	3.2	18
89	Presence of excited electronic state in CaWO ₄ crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation. <i>Journal of Applied Physics</i> , 2011 , 110, 043501	2.5	74
88	An improved method for preparation of SrTiO ₃ nanoparticles. <i>Materials Chemistry and Physics</i> , 2011 , 125, 168-173	4.4	63
87	An efficient synthesis route of Na ₂ V ₆ O ₁₆ ·nH ₂ O nanowires in hydrothermal conditions. <i>Materials Chemistry and Physics</i> , 2011 , 127, 56-61	4.4	20
86	Local structure study of vanadium pentoxide 1D-nanostructures. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4937-4946	2.3	29
85	On the reversed crystal growth of BaZrO ₃ decaoctahedron: shape evolution and mechanism. <i>CrystEngComm</i> , 2011 , 13, 5818	3.3	39
84	Internal Residual Stress Measurements in a Bioactive Glass Ceramic Using Vickers Indentation. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2359-2368	3.8	16
83	Spontaneous long and short-range ferroelectric ordering in Pb _{0.55} La _{0.30} TiO ₃ ceramics. <i>Journal of Applied Physics</i> , 2010 , 107, 114103	2.5	4

82	In situ X-ray diffraction studies of phase transition in $\text{Pb}_{1-x}\text{La}_x\text{Zr}_{0.40}\text{Ti}_{0.60}\text{O}_3$ ferroelectric ceramics. <i>Phase Transitions</i> , 2010 , 83, 251-262	1.3	14
81	Growth kinetics of vanadium pentoxide nanostructures under hydrothermal conditions. <i>Journal of Crystal Growth</i> , 2010 , 312, 3555-3559	1.6	23
80	Structure and optical properties of $[\text{Ba}_{1-x}\text{Y}_{2x/3}](\text{Zr}_{0.25}\text{Ti}_{0.75})\text{O}_3$ powders. <i>Solid State Sciences</i> , 2010 , 12, 1160-1167	3.4	74
79	Oxide surface modification: synthesis and characterization of zirconia-coated alumina. <i>Journal of Colloid and Interface Science</i> , 2010 , 343, 256-62	9.3	15
78	Elaboration and optimization of $(\text{Y},\text{Er})\text{Al}_3(\text{BO}_3)_4$ glassy planar waveguides through the sol-gel process. <i>Optical Materials</i> , 2010 , 32, 484-490	3.3	9
77	Phase-transition studies of $\text{Ba}_{0.90}\text{Ca}_{0.10}(\text{Ti}_{1-x}\text{Zr}_x)\text{O}_3$ ferroelectric ceramic compounds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2570-2577	1.6	6
76	The role of oxygen vacancy in the photoluminescence property at room temperature of the CaTiO_3 . <i>Journal of Applied Physics</i> , 2009 , 106, 043526	2.5	29
75	Photoluminescence behavior in MgTiO_3 powders with vacancy/distorted clusters and octahedral tilting. <i>Materials Chemistry and Physics</i> , 2009 , 117, 192-198	4.4	79
74	Synthesis and thermal decomposition of $\text{SrTi}_{1-x}\text{Fe}_x\text{O}_3$ (0.0 $\leq x \leq$ 0.1) powders obtained by the polymeric precursor method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 97, 173-177	4.1	21
73	Nanograined Ferroelectric Ceramics Prepared by High-Pressure Densification Technique. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1679-1683	3.8	12
72	Er:YAl ₃ (BO ₃) ₄ glassy thin films from polymeric precursor and sol-gel methods: Waveguides for integrated optics. <i>Thin Solid Films</i> , 2009 , 517, 6584-6587	2.2	17
71	Microstructural, structural and electrical properties of La ³⁺ -modified Bi ₄ Ti ₃ O ₁₂ ferroelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 751-756	6	24
70	Disorder-dependent photoluminescence in $\text{Ba}_{0.8}\text{Ca}_{0.2}\text{TiO}_3$ at room temperature. <i>Journal of Luminescence</i> , 2009 , 129, 686-690	3.8	17
69	Structural and optical properties of CaTiO_3 perovskite-based materials obtained by microwave-assisted hydrothermal synthesis: An experimental and theoretical insight. <i>Acta Materialia</i> , 2009 , 57, 5174-5185	8.4	157
68	Short-range structure of $\text{Pb}_{1-x}\text{Ba}_x\text{Zr}_{0.65}\text{Ti}_{0.35}\text{O}_3$ ceramic compounds probed by XAS and Raman scattering techniques. <i>Journal of Applied Physics</i> , 2009 , 105, 033508	2.5	13
67	Vanadium Pentoxide Nanostructures: An Effective Control of Morphology and Crystal Structure in Hydrothermal Conditions. <i>Crystal Growth and Design</i> , 2009 , 9, 3626-3631	3.5	97
66	Intense blue and green photoluminescence emissions at room temperature in barium zirconate powders. <i>Journal of Alloys and Compounds</i> , 2009 , 471, 253-258	5.7	59
65	Ti K-edge XANES and Pb LIII-edge EXAFS studies of $\text{PbZr}_{0.40}\text{Ti}_{0.60}\text{O}_3$ ferroelectric material. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012081	0.3	4

64	Synthesis optimization, structural evolution and optical properties of $Y_{0.9}Er_{0.1}Al_3(BO_3)_4$ nanopowders obtained by soft chemistry methods. <i>Solid State Sciences</i> , 2008 , 10, 1835-1845	3.4	24
63	Structural Role of Fluoride in the Ion-Conducting Glass System $B_2O_3-PbO-P_2O_5-F$ Studied by Single- and Double-Resonance NMR. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10462-10471	3.8	11
62	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline $BaTiO_3$ Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 5381-5387	9.6	147
61	Surface modification and crystallization of the $BaO-B_2O_3-Bi_2O_3$ glassy system using CO_2 laser irradiation. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 279-283	3.9	7
60	Influence of structural disorder on the photoluminescence emission of PZT powders. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 8953-7	2.8	16
59	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
58	Er:YAB nanoparticles and vitreous thin films by the polymeric precursor method. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 1251-1262	2.3	19
57	Strong violet/blue light photoluminescence emission at room temperature in $SrZrO_3$: Joint experimental and theoretical study. <i>Acta Materialia</i> , 2008 , 56, 2191-2202	8.4	122
56	Experimental and Calculated Ti K-Edge XANES Spectra of $Pb_{1-x}La_xTiO_3$ Ferroelectric Ceramic Compounds. <i>AIP Conference Proceedings</i> , 2007 ,	0	3
55	X-ray photoelectron spectroscopy study on sintered $Pb_{1-x}La_xTiO_3$ ferroelectric ceramics. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007 , 156-158, 476-481	1.7	21
54	A sol-gel route for the development of rare-earth aluminum borate nanopowders and transparent thin films. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 611-618	3.3	14
53	Blue-green and red photoluminescence in $CaTiO_3:Sm$. <i>Journal of Luminescence</i> , 2007 , 126, 403-407	3.8	49
52	X-ray powder diffraction structural characterization of $Pb_{1-x}Ba_xZr_{0.65}Ti_{0.35}O_3$ ceramic. <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 713-8		20
51	Electronic structure of $Pb_{1-x}Ba_xZr_{0.65}Ti_{0.35}O_3$ ferroelectric compounds probed by soft x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 226212	1.8	5
50	Synthesis and characterization of $Pb_{1-x}La_xTiO_3$ nanocrystalline powders. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007 , 87, 747-751	4.1	16
49	$Y_{0.9}Er_{0.1}Al_3(BO_3)_4$ thin films prepared by the polymeric precursor method for integrated optics. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3629-37	1.3	5
48	Anisotropic Growth of Oxide Nanocrystals: Insights into the Rutile TiO_2 Phase. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5871-5875	3.8	68
47	Relation between photoluminescence emission and local order-disorder in the $CaTiO_3$ lattice modifier. <i>Applied Physics Letters</i> , 2007 , 90, 111904	3.4	70

46	Crystallization, texture and second-harmonic generation in TiO ₂ BaO _{0.5} B ₂ O ₃ glasses. <i>Optical Materials</i> , 2006 , 28, 935-943	3.3	19
45	Structural Characterization of Pb _{1-x} BaxZr _{0.65} Ti _{0.35} O ₃ Ferroelectric Ceramics. <i>Ferroelectrics</i> , 2006 , 339, 219-226	0.6	6
44	Electronic structure of Pb _{1-x} LaxTiO ₃ ferroelectric materials from Ti 2p and O 1s soft x-ray absorption spectroscopy. <i>Journal of Applied Physics</i> , 2006 , 99, 044104	2.5	22
43	Induction of relaxor state in ordinary ferroelectrics by isovalent ion substitution: A pretransitional martensitic texture case. <i>Physical Review B</i> , 2006 , 73,	3.3	20
42	Laser induced modification on 40BaO ₄₅ B ₂ O ₃ ₁₅ TiO ₂ glass composition. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 3398-3403	3.9	10
41	Thermal properties of barium titanium borate glasses measured by thermal lens technique. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 3577-3581	3.9	7
40	Crossover from Ordinary Ferroelectric to Relaxor State: A Pre-Transitional Martensitic Transformation. <i>Ferroelectrics</i> , 2006 , 339, 121-128	0.6	1
39	Photo-induced effects in Ge ₂₅ Ga ₁₀ S ₆₅ glasses studied by XPS and XAS. <i>Solid State Ionics</i> , 2005 , 176, 1403-1409	3.3	11
38	Structural studies in the BaO _{0.5} B ₂ O ₃ ₁₅ TiO ₂ system by XAS and ¹¹ B-NMR. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1452-1463	3.3	6
37	Structural and optical characterization of beta barium borate thin films grown by electron beam evaporation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 2163-2167	2.9	5
36	Synthesis and Characterization of the β -BaB ₂ O ₄ Phase Obtained by the Polymeric Precursor Method. <i>Journal of Sol-Gel Science and Technology</i> , 2004 , 29, 89-96	2.3	14
35	XAS and XRD Structural Characterization of Lanthanum-Modified PbTiO ₃ Ceramic Materials. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14840-14849	3.4	52
34	Phase evolution of lead titanate from its amorphous precursor synthesized by the OPM wet-chemical route. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1994-2001	3.3	32
33	β -BaB ₂ O ₄ nanometric powder obtained from the ternary BaO _{0.5} B ₂ O ₃ ₁₅ TiO ₂ system using the polymeric precursor method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 107, 33-38	3.1	11
32	Synthesis and characterization of beta barium borate thin films obtained from the BaO _{0.5} B ₂ O ₃ ₁₅ TiO ₂ ternary system. <i>Thin Solid Films</i> , 2004 , 457, 246-252	2.2	7
31	Structure study of donor doped barium titan ate prepared from citrate solutions. <i>Science of Sintering</i> , 2004 , 36, 179-188	0.7	21
30	The influence of oxygen in the photoexpansion of GaGeS glasses. <i>Applied Surface Science</i> , 2003 , 205, 143-150	6.7	25
29	Structural studies of a ZrO ₂ _{1-x} GeO ₂ doped system. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 273-282	4.8	48

28	Structural characterization of the V ₂ O ₅ /TiO ₂ system obtained by the sol-gel method. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 833-839	3.9	42
27	Qn distribution in stoichiometric silicate glasses: thermodynamic calculations and ²⁹ Si high resolution NMR measurements. <i>Journal of Non-Crystalline Solids</i> , 2003 , 325, 164-178	3.9	82
26	Evidence for a new structure in a mixed metal sulphate system by EXAFS. <i>X-Ray Spectrometry</i> , 2002 , 31, 162-166	0.9	
25	X-ray absorption spectroscopic studies of Mn atoms in La _{1-x} Sr _x MnO ₃ + γ compounds. <i>X-Ray Spectrometry</i> , 2002 , 31, 154-157	0.9	11
24	Grazing incidence X-ray diffraction and atomic force microscopy analysis of BaBi ₂ Ta ₂ O ₉ thin films. <i>Thin Solid Films</i> , 2002 , 415, 57-63	2.2	5
23	Local order around of germanium atoms in Ga ₁₀ Ge ₂₅ S ₆₅ glass by EXAFS. <i>Journal of Non-Crystalline Solids</i> , 2002 , 304, 160-166	3.9	4
22	Surface crystallization of BaB ₂ O ₄ phase using a CO ₂ laser source. <i>Journal of Non-Crystalline Solids</i> , 2002 , 306, 309-312	3.9	22
21	Inhibition of the Anatase-Rutile Phase Transformation with Addition of CeO ₂ to CuO-TiO ₂ System: Raman Spectroscopy, X-ray Diffraction, and Textural Studies. <i>Chemistry of Materials</i> , 2002 , 14, 2514-2518	9.6	196
20	Structural characterization of W-Ni-Al ₂ O ₃ catalysts. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 648-50	2.4	3
19	Surface Characterisation of V ₂ O ₅ /TiO ₂ Catalytic System. <i>Physica Status Solidi A</i> , 2001 , 187, 161-169		22
18	X-ray photoelectron spectroscopy, x-ray absorption spectroscopy, and x-ray diffraction characterization of CuO-TiO ₂ -CeO ₂ catalyst system. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 1150-1157	2.9	17
17	Chemical and structural characterization of V ₂ O ₅ /TiO ₂ catalysts. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 1158-1163	2.9	14
16	Activity and Characterization by XPS, HR-TEM, Raman Spectroscopy, and BET Surface Area of CuO/CeO ₂ -TiO ₂ Catalysts. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10515-10522	3.4	210
15	X-ray absorption spectroscopy investigation of Ba ₂ TiSi ₂ O ₈ +xSiO ₂ glasses. <i>Journal of Non-Crystalline Solids</i> , 2001 , 282, 181-187	3.9	10
14	Amorphous lead titanate: a new wide-band gap semiconductor with photoluminescence at room temperature. <i>Advanced Materials for Optics and Electronics</i> , 2000 , 10, 235-240		57
13	²⁹ Si MAS-NMR studies of Qn structural units in metasilicate glasses and their nucleating ability. <i>Journal of Non-Crystalline Solids</i> , 2000 , 273, 8-18	3.9	89
12	Relationship between short-range order and ease of nucleation in Na ₂ Ca ₂ Si ₃ O ₉ , CaSiO ₃ and PbSiO ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 2000 , 262, 191-199	3.9	75
11	Crystallization study of SrTiO ₃ thin films prepared by dip coating. <i>Materials Research</i> , 1999 , 2, 93-97	1.5	17

10	Anisotropic residual stresses in partially crystallized Li ₂ O-SiO ₂ glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 1999 , 247, 79-86	3.9	41
9	Residual stresses in a soda-lime-silica glass-ceramic. <i>Journal of Non-Crystalline Solids</i> , 1996 , 194, 297-304	3.9	46
8	EXAFS and Raman spectroscopy study of binary indium fluoride glasses. <i>Journal of Materials Science</i> , 1996 , 31, 3441-3446	4.3	14
7	On the structural properties of a-Si _{1-x} C _x :H thin films. <i>Journal of Applied Physics</i> , 1996 , 79, 1324-1329	2.5	28
6	Comparative EXAFS study of (Ag ₂ X) _y (As ₂ X ₃) _{1-y} glasses (X = Se or S). <i>Journal of Non-Crystalline Solids</i> , 1995 , 185, 274-282	3.9	17
5	Structural studies in lead germanate glasses: EXAFS and vibrational spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1993 , 159, 213-221	3.9	84
4	Structural studies in lead fluorogermanate and fluorosilicate glasses. <i>Journal of Alloys and Compounds</i> , 1992 , 180, 117-124	5.7	4
3	Structure of the Ag ₂ As ₂ Se chalcogenide glasses: the AsSe ₂ Ag ₂ Se line. <i>Journal of Non-Crystalline Solids</i> , 1992 , 151, 1-12	3.9	19
2	As _x Se _{1-x} system (0.20 ≤ x ≤ 0.57): EXAFS study of the glass region. <i>Journal of Solid State Chemistry</i> , 1992 , 96, 301-310	3.3	22
1	A high-throughput, solvent free method for dispersing metal atoms directly onto supports. <i>Journal of Materials Chemistry A</i> ,	13	