

V R Mastelaro

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#	Paper	IF	Citations
207	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
206	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
205	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
204	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2008 , 20, 5381-5387	9.6	147
203	Cluster coordination and photoluminescence properties of Ag ₂ WO ₄ microcrystals. <i>Inorganic Chemistry</i> , 2012 , 51, 10675-87	5.1	143
202	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
201	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
200	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
199	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
198	One-step approach for preparing ozone gas sensors based on hierarchical NiCo ₂ O ₄ structures. <i>RSC Advances</i> , 2016 , 6, 92655-92662	3.7	94
197	A novel ozone gas sensor based on one-dimensional (1D) Ag ₂ WO ₄ nanostructures. <i>Nanoscale</i> , 2014 , 6, 4058-62	7.7	92
196	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
195	Surface morphology-dependent room-temperature LaFeO ₃ nanostructure thin films as selective NO ₂ gas sensor prepared by radio frequency magnetron sputtering. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13917-27	9.5	87
194	Structural studies in lead germanate glasses: EXAFS and vibrational spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1993 , 159, 213-221	3.9	84
193	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
192	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
191	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

190	Photocatalytic degradation of organic dyes under visible light irradiation by floral-like LaFeO ₃ nanostructures comprised of nanosheet petals. <i>New Journal of Chemistry</i> , 2014 , 38, 5480-5490	3.6	78
189	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
188	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
187	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
186	Structure and optical properties of [Ba _{1-x} Y _{2x/3}](Zr _{0.25} Ti _{0.75})O ₃ powders. <i>Solid State Sciences</i> , 2010 , 12, 1160-1167	3.4	74
185	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
184	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
183	An improved method for preparation of SrTiO ₃ nanoparticles. <i>Materials Chemistry and Physics</i> , 2011 , 125, 168-173	4.4	63
182	Rietveld refinement, cluster modelling, growth mechanism and photoluminescence properties of CaWO ₄ :Eu ³⁺ microcrystals. <i>CrystEngComm</i> , 2015 , 17, 1654-1666	3.3	62
181	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
180	An easy method of preparing ozone gas sensors based on ZnO nanorods. <i>RSC Advances</i> , 2015 , 5, 19528-19533	3.7	58
179	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
178	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
177	Acetone gas sensor based on Ag 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
176	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
175	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
174	Blue-green and red photoluminescence in CaTiO ₃ :Sm. <i>Journal of Luminescence</i> , 2007 , 126, 403-407	3.8	49
173	Structural studies of a ZrO ₂ -TeO ₂ doped system. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 273-282		48

172	Photocatalytic degradation of organic pollutants by shape selective synthesis of EGa_2O_3 microspheres constituted by nanospheres for environmental remediation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2617-2627	13	46
171	Residual stresses in a soda-lime-silica glass-ceramic. <i>Journal of Non-Crystalline Solids</i> , 1996 , 194, 297-304	3.9	46
170	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
169	Structural characterization of the $\text{V}_2\text{O}_5/\text{TiO}_2$ system obtained by the sol-gel method. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 833-839	3.9	42
168	Anisotropic residual stresses in partially crystallized $\text{Li}_2\text{O} \cdot \text{SiO}_2$ glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 1999 , 247, 79-86	3.9	41
167	Rapid hydrothermal synthesis and pH-dependent photocatalysis of strontium titanate microspheres. <i>Materials Science in Semiconductor Processing</i> , 2015 , 30, 651-657	4.3	40
166	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
165	On the reversed crystal growth of BaZrO_3 decaoctahedron: shape evolution and mechanism. <i>CrystEngComm</i> , 2011 , 13, 5818	3.3	39
164	Ozone and nitrogen dioxide gas sensor based on a nanostructured $\text{SrTi}_{0.85}\text{Fe}_{0.15}\text{O}_3$ thin film. <i>Journal of Alloys and Compounds</i> , 2015 , 638, 374-379	5.7	37
163	Local structure and hybridization states in $\text{Ba}_{0.9}\text{Ca}_{0.1}\text{Ti}_{1-x}\text{Zr}_x\text{O}_3$ ceramic compounds: Correlation with a normal or relaxor ferroelectric character. <i>Acta Materialia</i> , 2015 , 84, 164-171	8.4	35
162	Ozone gas sensor based on nanocrystalline $\text{SrTi}_{1-x}\text{FexO}_3$ thin films. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 919-924	8.5	35
161	In-depth understanding of the relation between CuAlO_2 particle size and morphology for ozone gas sensor detection at a nanoscale level. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21739-49	9.5	33
160	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
159	X-ray Absorption Fine Structure (XAFS) Studies of Oxide Glasses-A 45-Year Overview. <i>Materials</i> , 2018 , 11,	3.5	32
158	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
157	Detection of the neurotransmitter dopamine by a glassy carbon electrode modified with self-assembled perovskite LaFeO_3 microspheres made up of nanospheres. <i>RSC Advances</i> , 2014 , 4, 25957-25962	3.7	29
156	Local structure study of vanadium pentoxide 1D-nanostructures. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4937-4946	2.3	29
155	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

154	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
153	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
152	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
151	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
150	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
149	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
148	The influence of oxygen in the photoexpansion of GaGeS glasses. <i>Applied Surface Science</i> , 2003 , 205, 143-150	6.7	25
147	Characterization of the third-order optical nonlinearity spectrum of barium borate glasses. <i>Optical Materials</i> , 2017 , 73, 16-19	3.3	24
146	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
145	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
144	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
143	Growth kinetics of vanadium pentoxide nanostructures under hydrothermal conditions. <i>Journal of Crystal Growth</i> , 2010 , 312, 3555-3559	1.6	23
142	Investigation on magnetic and electric properties of morphologically different perovskite LaFeO ₃ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 8652-8662	2.1	22
141	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
140	Electronic structure of Pb _{1-x} La _x TiO 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
139	Surface Characterisation of V ₂ O ₅ /TiO ₂ Catalytic System. <i>Physica Status Solidi A</i> , 2001 , 187, 161-169		22
138	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
137	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

136	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
135	Femtosecond laser processing of glassy and polymeric matrices containing metals and semiconductor nanostructures. <i>Optical Materials</i> , 2013 , 35, 2643-2648	3.3	21
134	Ion-sensing properties of 1D vanadium pentoxide nanostructures. <i>Nanoscale Research Letters</i> , 2012 , 7, 310	5	21
133	Synthesis and thermal decomposition of SrTi _{1-x} Fe _x O ₃ (0.0 ≤ x ≤ 0.1) powders obtained by the polymeric precursor method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 97, 173-177	4.1	21
132	X-ray photoelectron spectroscopy study on sintered Pb _{1-x} La _x TiO ₃ ferroelectric ceramics. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007 , 156-158, 476-481	1.7	21
131	Structure study of donor doped barium titanate prepared from citrate solutions. <i>Science of Sintering</i> , 2004 , 36, 179-188	0.7	21
130	Effect of different strontium precursors on the growth process and optical properties of SrWO ₄ microcrystals. <i>Journal of Materials Science</i> , 2015 , 50, 8089-8103	4.3	20
129	Catalyst free vapor-solid deposition of morphologically different BiGa ₂ O ₃ nanostructure thin films for selective CO gas sensors at low temperature. <i>Analytical Methods</i> , 2016 , 8, 3224-3235	3.2	20
128	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
127	Novel SrTi _{1-x} Fe _x O ₃ nanocubes synthesized by microwave-assisted hydrothermal method. <i>CrystEngComm</i> , 2012 , 14, 4068	3.3	20
126	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
125	X-ray powder diffraction structural characterization of Pb _{1-x} Ba _x Zr _{0.65} Ti _{0.35} O ₃ ceramic. <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 713-8		20
124	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
123	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
122	Crystallization, texture and second-harmonic generation in TiO ₂ BaO·B ₂ O ₃ glasses. <i>Optical Materials</i> , 2006 , 28, 935-943	3.3	19
121	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
120	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
119	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

118	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
117	Local order and electronic structure of Pb _{1-x} La _x Zr _{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
116	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
115	Disorder-dependent photoluminescence in Ba _{0.8} Ca _{0.2} TiO ₃ at room temperature. <i>Journal of Luminescence</i> , 2009 , 129, 686-690	3.8	17
114	X-ray photoelectron spectroscopy, x-ray absorption spectroscopy, and x-ray diffraction characterization of CuO/TiO ₂ /TeO ₂ catalyst system. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 1150-1157	2.9	17
113	Crystallization study of SrTiO ₃ thin films prepared by dip coating. <i>Materials Research</i> , 1999 , 2, 93-97	1.5	17
112	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
111	Ag and Cu doped ZnO nanowires: A pH-Controlled synthesis via chemical bath deposition. <i>Materialia</i> , 2019 , 5, 100212	3.2	17
110	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
109	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
108	Synthesis and characterization of Pb _{1-x} La _x TiO ₃ nanocrystalline powders. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007 , 87, 747-751	4.1	16
107	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
106	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
105	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
104	In situ X-ray diffraction studies of phase transition in Pb _{1-x} La _x Zr _{0.40} Ti _{0.60} O ₃ ferroelectric ceramics. <i>Phase Transitions</i> , 2010 , 83, 251-262	1.3	14
103	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
102	Synthesis and Characterization of the 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
101	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

100	EXAFS and Raman spectroscopy study of binary indium fluoride glasses. <i>Journal of Materials Science</i> , 1996 , 31, 3441-3446	4.3	14
99	Europium-doped calcium titanate: Optical and structural evaluations. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 154-162	5.7	13
98	Short-range structure of $Pb_{1-x}Ba_xZr_{0.65}Ti_{0.35}O_3$ ceramic compounds probed by XAS and Raman scattering techniques. <i>Journal of Applied Physics</i> , 2009 , 105, 033508	2.5	13
97	Prozac \square 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
96	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
95	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
94	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
93	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
92	Nanograined Ferroelectric Ceramics Prepared by High-Pressure Densification Technique. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1679-1683	3.8	12
91	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
90	Wavelength effect of ns-pulsed radiation on the reduction of graphene oxide. <i>Applied Surface Science</i> , 2020 , 506, 144808	6.7	12
89	Ozone sensing properties of nickel phthalocyanine:ZnO nanorod heterostructures 2016 ,		12
88	Cellulose nanofibers production using a set of recombinant enzymes. <i>Carbohydrate Polymers</i> , 2021 , 256, 117510	10.3	12
87	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
86	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
85	Structural Role of Fluoride in the Ion-Conducting Glass System B ₂ O ₃ -B ₂ O ₃ -F Studied by Single- and Double-Resonance NMR. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10462-10471	3.8	11
84	BaB_2O_4 nanometric powder obtained from the ternary BaO-B ₂ O ₃ -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
83	X-ray absorption spectroscopic studies of Mn atoms in La _{1-x} Sr _x MnO ₃ + \square compounds. <i>X-Ray Spectrometry</i> , 2002 , 31, 154-157	0.9	11

82	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
81	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
80	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
79	Laser induced modification on 40BaO-5B ₂ O ₃ -15TiO ₂ glass composition. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 3398-3403	3.9	10
78	X-ray absorption spectroscopy investigation of Ba ₂ TiSi ₂ O _{8+x} SiO ₂ glasses. <i>Journal of Non-Crystalline Solids</i> , 2001 , 282, 181-187	3.9	10
77	Fingerprints of short-range and long-range structure in BaZr _(1-x) Hf _x O ₃ solid solutions: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11341-9	3.6	9
76	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
75	Elaboration and optimization of (Y,Er)Al ₃ (BO ₃) ₄ glassy planar waveguides through the sol-gel process. <i>Optical Materials</i> , 2010 , 32, 484-490	3.3	9
74	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
73	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
72	Influence of titanium precursor on photoluminescent emission of micro-cube-shaped CaTiO ₃ . <i>Journal of Luminescence</i> , 2015 , 165, 130-137	3.8	8
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