V R Mastelaro

List of Publications by Year
in descending order

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219 papers	6,904 citations	53794 45 h-index	82547 72 g-index
224 all docs	224 docs citations	224 times ranked	7736 citing authors

#	Article	IF	Citations
1	Activity and Characterization by XPS, HR-TEM, Raman Spectroscopy, and BET Surface Area of CuO/CeO2-TiO2 Catalysts. Journal of Physical Chemistry B, 2001, 105, 10515-10522.	2.6	243
2	Inhibition of the Anataseâ^'Rutile Phase Transformation with Addition of CeO2to CuOâ^'TiO2System:Â Raman Spectroscopy, X-ray Diffraction, and Textural Studies. Chemistry of Materials, 2002, 14, 2514-2518.	6.7	211
3	Yolk-shelled ZnCo2O4 microspheres: Surface properties and gas sensing application. Sensors and Actuators B: Chemical, 2018, 257, 906-915.	7.8	197
4	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
5	Cluster Coordination and Photoluminescence Properties of Î±-Ag₂WO₄ Microcrystals. Inorganic Chemistry, 2012, 51, 10675-10687.	4.0	168
6	Hydrothermal Microwave: A New Route to Obtain Photoluminescent Crystalline BaTiO₃ Nanoparticles. Chemistry of Materials, 2008, 20, 5381-5387.	6.7	166
7	Structural conditions that leads to photoluminescence emission in SrTiO3: An experimental and theoretical approach. Journal of Applied Physics, 2008, 104, .	2.5	143
8	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
9	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, 13917-13927.	8.0	125
10	One-step approach for preparing ozone gas sensors based on hierarchical NiCo₂O₄ structures. RSC Advances, 2016, 6, 92655-92662.	3.6	114
11	Vanadium Pentoxide Nanostructures: An Effective Control of Morphology and Crystal Structure in Hydrothermal Conditions. Crystal Growth and Design, 2009, 9, 3626-3631.	3.0	112
12	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. Mikrochimica Acta, 2019, 186, 418.	5.0	109
13	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
14	A novel ozone gas sensor based on one-dimensional (1D) Î±-Ag₂WO₄ nanostructures. Nanoscale, 2014, 6, 4058-4062.	5.6	105
15	29Si MASâ€“NMR studies of Qn structural units in metasilicate glasses and their nucleating ability. Journal of Non-Crystalline Solids, 2000, 273, 8-18.	3.1	102
16	Photocatalytic degradation of organic dyes under visible light irradiation by floral-like LaFeO₃nanostructures comprised of nanosheet petals. New Journal of Chemistry, 2014, 38, 5480-5490.	2.8	97
17	Qn distribution in stoichiometric silicate glasses: thermodynamic calculations and 29Si high resolution NMR measurements. Journal of Non-Crystalline Solids, 2003, 325, 164-178.	3.1	96
18	Photoluminescence behavior in MgTiO3 powders with vacancy/distorted clusters and octahedral tilting. Materials Chemistry and Physics, 2009, 117, 192-198.	4.0	96

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19	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
20	Structural studies in lead germanate glasses: EXAFS and vibrational spectroscopy. Journal of Non-Crystalline Solids, 1993, 159, 213-221.	3.1	85
21	Structure and optical properties of [Ba1â€“xY2x/3](Zr0.25Ti0.75)O3 powders. Solid State Sciences, 2010, 12, 1160-1167.	3.2	84
22	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
23	Relationship between short-range order and ease of nucleation in Na2Ca2Si3O9, CaSiO3 and PbSiO3 glasses. Journal of Non-Crystalline Solids, 2000, 262, 191-199.	3.1	83
24	Anisotropic Growth of Oxide Nanocrystals:â€‰ Insights into the Rutile TiO2 Phase. Journal of Physical Chemistry C, 2007, 111, 5871-5875.	3.1	78
25	Relation between photoluminescence emission and local order-disorder in the CaTiO3 lattice modifier. Applied Physics Letters, 2007, 90, 111904.	3.3	78
26	Rietveld refinement, cluster modelling, growth mechanism and photoluminescence properties of CaWO₄:Eu³⁺microcrystals. CrystEngComm, 2015, 17, 1654-1666.	2.6	77
27	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
28	An improved method for preparation of SrTiO3 nanoparticles. Materials Chemistry and Physics, 2011, 125, 168-173.	4.0	69
29	An easy method of preparing ozone gas sensors based on ZnO nanorods. RSC Advances, 2015, 5, 19528-19533.	3.6	68
30	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
31	Photocatalytic degradation of organic pollutants by shape selective synthesis of Î²-Ga₂O₃ microspheres constituted by nanospheres for environmental remediation. Journal of Materials Chemistry A, 2015, 3, 2617-2627.	10.3	64
32	Quantum Mechanics Insight into the Microwave Nucleation of SrTiO₃ Nanospheres. Journal of Physical Chemistry C, 2012, 116, 24792-24808.	3.1	62
33	Amorphous lead titanate: a new wide-band gap semiconductor with photoluminescence at room temperature. Advanced Materials for Optics and Electronics, 2000, 10, 235-240.	0.4	58
34	XAS and XRD Structural Characterization of Lanthanum-Modified PbTiO3 Ceramic Materials. Journal of Physical Chemistry B, 2004, 108, 14840-14849.	2.6	57
35	Local Structure and Surface Properties of Co_xZn_{1â€“x}O Thin Films for Ozone Gas Sensing. ACS Applied Materials & Interfaces, 2016, 8, 26066-26072.	8.0	57
36	Structural studies of a ZrO2â€“CeO2 doped system. Journal of the European Ceramic Society, 2003, 23, 273-282.	5.7	56

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37	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, 21739-21749.	8.0	56
38	X-ray Absorption Fine Structure (XAFS) Studies of Oxide Glassesâ€"A 45-Year Overview. Materials, 2018, 11, 204.	2.9	55
39	Residual stresses in a soda-lime-silica glass-ceramic. Journal of Non-Crystalline Solids, 1996, 194, 297-304.	3.1	54
40	Blue-green and red photoluminescence in CaTiO3:Sm. Journal of Luminescence, 2007, 126, 403-407.	3.1	53
41	Highly selective ozone gas sensor based on nanocrystalline Zn0.95Co0.05O thin film obtained via spray pyrolysis technique. Applied Surface Science, 2019, 478, 347-354.	6.1	53
42	Anisotropic residual stresses in partially crystallized Li2Oâ€"2SiO2 glass-ceramics. Journal of Non-Crystalline Solids, 1999, 247, 79-86.	3.1	49
43	An Understanding of the Photocatalytic Properties and Pollutant Degradation Mechanism of SrTiO₃ Nanoparticles. Photochemistry and Photobiology, 2016, 92, 371-378.	2.5	49
44	Structural characterization of the V2O5/TiO2 system obtained by the solâ€"gel method. Journal of Physics and Chemistry of Solids, 2003, 64, 833-839.	4.0	47
45	On the reversed crystal growth of BaZrO3 decaoctahedron: shape evolution and mechanism. CrystEngComm, 2011, 13, 5818.	2.6	47
46	Insight into the Effects of Fe Addition on the Local Structure and Electronic Properties of SrTiO₃. Journal of Physical Chemistry C, 2014, 118, 4930-4940.	3.1	45
47	Unvealing the role of Î²-Ag2MoO4 microcrystals to the improvement of antibacterial activity. Materials Science and Engineering C, 2020, 111, 110765.	7.3	44
48	Rapid hydrothermal synthesis and pH-dependent photocatalysis of strontium titanate microspheres. Materials Science in Semiconductor Processing, 2015, 30, 651-657.	4.0	43
49	Ozone gas sensor based on nanocrystalline SrTi1â^'Fe O3 thin films. Sensors and Actuators B: Chemical, 2013, 181, 919-924.	7.8	41
50	One-Dimensional V₂O₅/TiO₂ Heterostructures for Chemiresistive Ozone Sensors. ACS Applied Nano Materials, 2019, 2, 4756-4764.	5.0	41
51	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.	3.6	40
52	Ozone and nitrogen dioxide gas sensor based on a nanostructured SrTi0.85Fe0.15O3 thin film. Journal of Alloys and Compounds, 2015, 638, 374-379.	5.5	40
53	Local structure and hybridization states in Ba0.9Ca0.1Ti1â^'Zr O3 ceramic compounds: Correlation with a normal or relaxor ferroelectric character. Acta Materialia, 2015, 84, 164-171.	7.9	40
54	The role of oxygen vacancy in the photoluminescence property at room temperature of the CaTiO3. Journal of Applied Physics, 2009, 106, .	2.5	39

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55	Correlation Between Photoluminescence and Structural Defects in <scp><scp>Ca</scp></scp>_{1+x}<scp><scp>Cu</scp></scp>_{3â^'x}<scp><scp>Ti</scp></scp> Systems. Journal of the American Ceramic Society, 2013, 96, 209-217.	3.8	37
56	A novel organic pollutants gas sensing material p-type CuAlO 2 microsphere constituted of nanoparticles for environmental remediation. Sensors and Actuators B: Chemical, 2016, 223, 138-148.	7.8	37
57	On the structural properties ofaâ€Si1â^'xCx:H thin films. Journal of Applied Physics, 1996, 79, 1324-1329.	2.5	36
58	Syngas for Fischer-Tropsch synthesis by methane tri-reforming using nickel supported on MgAl2O4 promoted with Zr, Ce and Ce-Zr. Applied Surface Science, 2019, 481, 747-760.	6.1	36
59	Cellulose nanofibers production using a set of recombinant enzymes. Carbohydrate Polymers, 2021, 256, 117510.	10.2	35
60	Characterization of the third-order optical nonlinearity spectrum of barium borate glasses. Optical Materials, 2017, 73, 16-19.	3.6	34
61	Phase evolution of lead titanate from its amorphous precursor synthesized by the OPM wet-chemical route. Journal of Solid State Chemistry, 2004, 177, 1994-2001.	2.9	33
62	Synthesis of ZnO Nanoparticles Assisted by N Sources and their Application in the Photodegradation of Organic Contaminants. ChemCatChem, 2017, 9, 3795-3804.	3.7	33
63	Local structure study of vanadium pentoxide 1D-nanostructures. Journal of Nanoparticle Research, 2011, 13, 4937-4946.	1.9	32
64	Local electronic structure, optical bandgap and photoluminescence (PL) properties of Ba(Zr0.75Ti0.25)O3 powders. Materials Science in Semiconductor Processing, 2013, 16, 1035-1045.	4.0	31
65	Fabrication of SrTiO3/g-C3N4 heterostructures for visible light-induced photocatalysis. Materials Science in Semiconductor Processing, 2020, 108, 104887.	4.0	31
66	Investigation on magnetic and electric properties of morphologically different perovskite LaFeO3 nanostructures. Journal of Materials Science: Materials in Electronics, 2015, 26, 8652-8662.	2.2	30
67	Ag and Cu doped ZnO nanowires: A pH-Controlled synthesis via chemical bath deposition. Materialia, 2019, 5, 100212.	2.7	30
68	Synthesis and thermal decomposition of SrTi1â^'x Fe x O3 (0.0Ââ‰ÂxÂâ‰Â0.1) powders obtained by the polymeric precursor method. Journal of Thermal Analysis and Calorimetry, 2009, 97, 173-177.	3.6	29
69	Wavelength effect of ns-pulsed radiation on the reduction of graphene oxide. Applied Surface Science, 2020, 506, 144808.	6.1	29
70	Microstructural, structural and electrical properties of La3+-modified Bi4Ti3O12 ferroelectric ceramics. Journal of the European Ceramic Society, 2009, 29, 751-756.	5.7	28
71	Relationship between Crystal Shape, Photoluminescence, and Local Structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrTiO</mml:mtext></mml:mrow><mml:mtext> by Microwave-Assisted Hydrothermal Method. Journal of Nanomaterials, 2012, 2012, 1-6.	2.7	28
72	ProzacÂ® photodegradation mediated by Mn-doped TiO2 nanoparticles: Evaluation of by-products and mechanisms proposal. Journal of Environmental Chemical Engineering, 2020, 8, 104543.	6.7	28

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73	The influence of oxygen in the photoexpansion of GaGeS glasses. Applied Surface Science, 2003, 205, 143-150.	6.1	27
74	Synthesis optimization, structural evolution and optical properties of Y0.9Er0.1Al3(BO3)4 nanopowders obtained by soft chemistry methods. Solid State Sciences, 2008, 10, 1835-1845.	3.2	27
75	Catalyst free vaporâ€“solid deposition of morphologically different Î²-Ga₂O₃ nanostructure thin films for selective CO gas sensors at low temperature. Analytical Methods, 2016, 8, 3224-3235.	2.7	27
76	X-ray photoelectron spectroscopy study on sintered Pb1â^'xLaxTiO3 ferroelectric ceramics. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 476-481.	1.7	26
77	Effect of different strontium precursors on the growth process and optical properties of SrWO4 microcrystals. Journal of Materials Science, 2015, 50, 8089-8103.	3.7	26
78	Development of Co₃[Co(CN)₆]₂/Fe₃O₄ Bifunctional Nanocomposite for Clinical Sensor Applications. ACS Applied Nano Materials, 2018, 1, 4283-4293.	5.0	26
79	Femtosecond laser processing of glassy and polymeric matrices containing metals and semiconductor nanostructures. Optical Materials, 2013, 35, 2643-2648.	3.6	25
80	Fundamental studies of magneto-optical borogermanate glasses and derived optical fibers containing Tb3+. Journal of Materials Research and Technology, 2021, 11, 312-327.	5.8	25
81	Ozone detection in the ppt-level with rGO-ZnO based sensor. Sensors and Actuators B: Chemical, 2021, 338, 129779.	7.8	25
82	Electronic structure of Pb1â^'xLaxTiO3 ferroelectric materials from Ti 2p and O 1s soft x-ray absorption spectroscopy. Journal of Applied Physics, 2006, 99, 044104.	2.5	24
83	Growth kinetics of vanadium pentoxide nanostructures under hydrothermal conditions. Journal of Crystal Growth, 2010, 312, 3555-3559.	1.5	24
84	Ion-sensing properties of 1D vanadium pentoxide nanostructures. Nanoscale Research Letters, 2012, 7, 310.	5.7	24
85	Structural refinement and photoluminescence properties of irregular cube-like (Ca1â^'xCux)TiO3 microcrystals synthesized by the microwaveâ€“hydrothermal method. Materials Chemistry and Physics, 2012, 136, 130-139.	4.0	24
86	Influence of Cu substitution on the structural ordering, photocatalytic activity and photoluminescence emission of Ag Cu PO4 powders. Applied Surface Science, 2018, 440, 61-72.	6.1	24
87	Silver-controlled evolution of morphological, structural, and optical properties of three-dimensional hierarchical WO 3 structures synthesized from hydrothermal method. Journal of Alloys and Compounds, 2018, 736, 143-151.	5.5	24
88	Structure study of donor doped barium titan ate prepared from citrate solutions. Science of Sintering, 2004, 36, 179-188.	1.4	24
89	Surface Characterisation of V2O5/TiO2 Catalytic System. Physica Status Solidi A, 2001, 187, 161-169.	1.7	23
90	Induction of relaxor state in ordinary ferroelectrics by isovalent ion substitution: A pretransitional martensitic texture case. Physical Review B, 2006, 73, .	3.2	23

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91	One-Step Synthesis of Nickel Sulfides and Their Electrocatalytic Activities for Hydrogen Evolution Reaction: A Case Study of Crystalline h-NiS and o-Ni₉S₈ Nanoparticles. ACS Applied Energy Materials, 2020, 3, 9498-9503.	5.1	23
92	Asx Se1â^'x system (0.20â‰¤xâ‰¤0.57): EXAFS study of the glass region. Journal of Solid State Chemistry, 1992, 96, 301-310.	2.9	22
93	X-ray photoelectron spectroscopy, x-ray absorption spectroscopy, and x-ray diffraction characterization of CuOâ€“TiO2â€“CeO2 catalyst system. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1150-1157.	2.1	22
94	Surface crystallization of Î²-BaB2O4 phase using a CO2 laser source. Journal of Non-Crystalline Solids, 2002, 306, 309-312.	3.1	22
95	Er:YAB nanoparticles and vitreous thin films by the polymeric precursor method. Journal of Nanoparticle Research, 2008, 10, 1251-1262.	1.9	22
96	An efficient synthesis route of Na2V6O16Â·nH2O nanowires in hydrothermal conditions. Materials Chemistry and Physics, 2011, 127, 56-61.	4.0	22
97	Thermal and structural modification in transparent and magnetic germanoborate glasses induced by Gd2O3. Ceramics International, 2020, 46, 22079-22089.	4.8	22
98	Influence of Structural Disorder on the Photoluminescence Emission of PZT Powders. Journal of Physical Chemistry A, 2008, 112, 8953-8957.	2.5	21
99	Novel SrTi1â^'xFexO3 nanocubes synthesized by microwave-assisted hydrothermal method. CrystEngComm, 2012, 14, 4068.	2.6	21
100	Local order and electronic structure of Pb1â^'xLaxZr0.40Ti0.60O3 materials and its relation with ferroelectric properties. Journal of Applied Physics, 2012, 111, .	2.5	21
101	Heterogeneous Fenton-like surface properties of oxygenated graphitic carbon nitride. Journal of Colloid and Interface Science, 2021, 587, 479-488.	9.4	21
102	Structure of the Agî—¸Asî—¸Se chalcogenide glasses: the AsSeî—¸Ag2Se line. Journal of Non-Crystalline Solids, 1992, 151, 1-12.	3.1	20
103	Crystallization, texture and second-harmonic generation in TiO2â€“BaOâ€“B2O3 glasses. Optical Materials, 2006, 28, 935-943.	3.6	20
104	X-ray powder diffraction structural characterization of Pb_{1â€…â^'â€…x}Ba_xZr_{0.65}Ti_{0.35}O₃ ceramic. Acta Crystallographica Section B: Structural Science, 2007, 63, 713-718.	1.8	20
105	Er:YAl3(BO3)4 glassy thin films from polymeric precursor and sol-gel methods: Waveguides for integrated optics. Thin Solid Films, 2009, 517, 6584-6587.	1.8	20
106	Comparative EXAFS study of (Ag2X)y(As2X3)1â^'y glasses (X = Se or S). Journal of Non-Crystalline Solids, 1995, 185, 274-282.	3.1	19
107	An investigation into the influence of zinc precursor on the microstructural, photoluminescence, and gas-sensing properties of ZnO nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	19
108	Insights on the mechanism of solid state reaction between TiO2 and BaCO3 to produce BaTiO3 powders: The role of calcination, milling, and mixing solvent. Ceramics International, 2020, 46, 2987-3001.	4.8	19

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109	Crystallization study of SrTiO3 thin films prepared by dip coating. Materials Research, 1999, 2, 93-97.	1.3	18
110	Internal Residual Stress Measurements in a Bioactive Glassâ€“Ceramic Using Vickers Indentation. Journal of the American Ceramic Society, 2010, 93, 2359-2368.	3.8	18
111	One-step controllable synthesis of three-dimensional WO₃ hierarchical architectures with different morphologies decorated with silver nanoparticles: enhancing the photocatalytic activity. RSC Advances, 2020, 10, 6625-6639.	3.6	18
112	EXAFS and Raman spectroscopy study of binary indium fluoride glasses. Journal of Materials Science, 1996, 31, 3441-3446.	3.7	17
113	Synthesis and Characterization of the Â-BaB2O4Phase Obtained by the Polymeric Precursor Method. Journal of Sol-Gel Science and Technology, 2004, 29, 89-96.	2.4	17
114	Synthesis and characterization of Pb1â€“xLaxTiO3 nanocrystalline powders. Journal of Thermal Analysis and Calorimetry, 2007, 87, 747-751.	3.6	17
115	Disorder-dependent photoluminescence in Ba0.8Ca0.2TiO3 at room temperature. Journal of Luminescence, 2009, 129, 686-690.	3.1	17
116	Oxide surface modification: Synthesis and characterization of zirconia-coated alumina. Journal of Colloid and Interface Science, 2010, 343, 256-262.	9.4	17
117	Europium-doped calcium titanate: Optical and structural evaluations. Journal of Alloys and Compounds, 2014, 585, 154-162.	5.5	17
118	CuO nanoparticles decorated on hydroxyapatite/ferrite magnetic support: photocatalysis, cytotoxicity, and antimicrobial response. Environmental Science and Pollution Research, 2022, 29, 41505-41519.	5.3	17
119	Grain size effect on the structural and dielectric properties of Pb0.85La0.15TiO3 ferroelectric ceramic compound. Ceramics International, 2012, 38, 5879-5887.	4.8	16
120	Structural XANES characterization of Ca0.99Sm0.01TiO3 perovskite and correlation with photoluminescence emission. Chemical Physics Letters, 2012, 544, 43-48.	2.6	16
121	The effect of morphology on the ozone-gas sensing properties of zinc oxide sputtered films. Thin Solid Films, 2020, 703, 137975.	1.8	16
122	Fabrication of waveguides by fs-laser micromachining in Dy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml6" display="inline" overflow="scroll" altimg="si1.gif"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>/Eu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml7" display="inline" overflow="scroll" altimg="si1.gif"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></	2.1	15
123	The role of counter-ions in crystal morphology, surface structure and photocatalytic activity of ZnO crystals grown onto a substrate. Applied Surface Science, 2020, 529, 147057.	6.1	15
124	Cu-Modified SrTiO₃Perovskites Toward Enhanced Waterâ€“Gas Shift Catalysis: A Combined Experimental and Computational Study. ACS Applied Energy Materials, 2021, 4, 452-461.	5.1	15
125	Chemical and structural characterization of V2O5/TiO2 catalysts. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1158-1163.	2.1	14
126	A solâ€“gel route for the development of rare-earth aluminum borate nanopowders and transparent thin films. Journal of Solid State Chemistry, 2007, 180, 611-618.	2.9	14

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127	Structural Role of Fluoride in the Ion-Conducting Glass System B₂O₃â^'PbOâ^'LiF Studied by Single- and Double-Resonance NMR. Journal of Physical Chemistry C, 2008, 112, 10462-10471.	3.1	14
128	Nanograined Ferroelectric Ceramics Prepared by Highâ€Pressure Densification Technique. Journal of the American Ceramic Society, 2009, 92, 1679-1683.	3.8	14
129	In situ X-ray diffraction studies of phase transition in Pb_{1â^'}_xLa_xZr_{0.40}Ti_{0.60}O₃ ferroelectric ceramics. Phase Transitions, 2010, 83, 251-262.	1.4	14
130	Fe valence fluctuations and magnetoelastic coupling in Pbâ€based multiferroics perovskites. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 386-390.	1.8	14
131	In situ study of copper reduction in SrTi_{1â^'x}Cu_xO₃ nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 2070-2079.	2.8	14
132	Direct photo-oxidation and superoxide radical as major responsible for dye photodegradation mechanism promoted by TiO2â€“rGO heterostructure. Journal of Materials Science: Materials in Electronics, 2018, 29, 17022-17037.	2.2	14
133	Effective removal of basic dye onto sustainable chitosan beads: Batch and fixed-bed column adsorption, beads stability and mechanism. Sustainable Chemistry and Pharmacy, 2020, 18, 100348.	3.3	14
134	Short-range structure of Pb1â^'xBaxZr0.65Ti0.35O3 ceramic compounds probed by XAS and Raman scattering techniques. Journal of Applied Physics, 2009, 105, 033508.	2.5	13
135	Local structure around Fe ions on multiferroic Pb(Fe1/2Nb1/2)O3 ceramics probed by x-ray absorption spectroscopy. Applied Physics Letters, 2012, 100, .	3.3	13
136	X-ray absorption spectroscopic studies of Mn atoms in La1?xSrxMnO3+? compounds. X-Ray Spectrometry, 2002, 31, 154-157.	1.4	12
137	Î²-BaB2O4 nanometric powder obtained from the ternary BaOâ€“B2O3â€“TiO2 system using the polymeric precursor method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 107, 33-38.	3.5	12
138	Elaboration and optimization of (Y,Er)Al3(BO3)4 glassy planar waveguides through the solâ€“gel process. Optical Materials, 2010, 32, 484-490.	3.6	12
139	Ozone sensing properties of nickel phthalocyanine:ZnO nanorod heterostructures. , 2016, , .		12
140	Crystallization mechanism and kinetics of a Fe-diopside (25CaOÂ·25MgOÂ·50SiO2) glassâ€“ceramic. Journal of Materials Science, 2019, 54, 9313-9320.	3.7	12
141	Photo-induced effects in Ge25Ga10S65 glasses studied by XPS and XAS. Solid State Ionics, 2005, 176, 1403-1409.	2.7	11
142	Laser induced modification on 40BaOâ€“45B2O3â€“15TiO2 glass composition. Journal of Non-Crystalline Solids, 2006, 352, 3398-3403.	3.1	11
143	Structural and electrical characterization of glasses in the Li2Oâ€“CaOâ€“B2O3 system. Journal of Non-Crystalline Solids, 2018, 499, 272-277.	3.1	11
144	Unveiling the efficiency of microwave-assisted hydrothermal treatment for the preparation of SrTiO₃ mesocrystals. Physical Chemistry Chemical Physics, 2019, 21, 22031-22038.	2.8	11

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145	Exploiting oxidative coupling of methane performed over La₂(Ce_{1â^'x}Mg_x)₂O_{7â^'Î´} catalysts with disordered defective cubic fluorite structure. Catalysis Science and Technology, 2021, 11, 4471-4481.	4.1	11
146	Experimental and Theoretical Insights into the Structural Disorder and Gas Sensing Properties of ZnO. ACS Applied Electronic Materials, 2021, 3, 1447-1457.	4.3	11
147	Phase control and optimization of photocatalytical properties of samarium doped TiO2 synthesized by coupled ultraviolet and microwave radiations. Journal of Alloys and Compounds, 2022, 905, 164217.	5.5	11
148	X-ray absorption spectroscopy investigation of Ba2TiSi2O8+xSiO2 glasses. Journal of Non-Crystalline Solids, 2001, 282, 181-187.	3.1	10
149	Influence of titanium precursor on photoluminescent emission of micro-cube-shaped CaTiO3. Journal of Luminescence, 2015, 165, 130-137.	3.1	10
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