Avesh Tyagi

List of Publications by Year in descending order

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330 papers	8,101 citations	38660 50 h-index	88477 70 g-index
333 all docs	333 docs citations	333 times ranked	9469 citing authors

#	Article	IF	Citations
1	Solution combustion synthesis, energy and environment: Best parameters for better materials. Progress in Crystal Growth and Characterization of Materials, 2018, 64, 23-61.	1.8	215
2	Magnetic, Ferroelectric, and Magnetocapacitive Properties of Sonochemically Synthesized Sc-Doped BiFeO₃ Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 2382-2389.	1.5	159
3	Effect of doping on the morphology and multiferroic properties of BiFeO3 nanorods. Nanoscale, 2010, 2, 1149.	2.8	137
4	Rare-earth doped gadolinia based phosphors for potential multicolor and white light emitting deep UV LEDs. Nanotechnology, 2009, 20, 125707.	1.3	120
5	Size dependent magnetic and dielectric properties of nano CoFe2O4 prepared by a salt assisted gel-combustion method. Journal of Applied Physics, 2013, 113, .	1.1	118
6	Copper(I) Oxide Nanocrystals â€“ One Step Synthesis, Characterization, Formation Mechanism, and Photocatalytic Properties. European Journal of Inorganic Chemistry, 2013, 2013, 2640-2651.	1.0	106
7	Effect of Vanadia Doping and Its Oxidation State on the Photocatalytic Activity of TiO₂ for Gas-Phase Oxidation of Ethene. Journal of Physical Chemistry C, 2008, 112, 19102-19112.	1.5	105
8	Photochemical Hydrogen Generation Using Nitrogen-Doped TiO₂â€“Pd Nanoparticles: Facile Synthesis and Effect of Ti³⁺ Incorporation. Journal of Physical Chemistry C, 2012, 116, 12462-12467.	1.5	105
9	Colloidal Fe-Doped Indium Oxide Nanoparticles: Facile Synthesis, Structural, and Magnetic Properties. Journal of Physical Chemistry C, 2009, 113, 3600-3606.	1.5	104
10	Sm_{2â^'x}Dy_xZr₂O₇ Pyrochlores: Probing Orderâ^'Disorder Dynamics and Multifunctionality. Inorganic Chemistry, 2011, 50, 2354-2365.	1.9	94
11	Chemical Synthesis and Structural and Magnetic Properties of Dispersible Cobalt- and Nickel-Doped ZnO Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 3422-3430.	1.5	91
12	High-pressure structural investigation of several zircon-type orthovanadates. Physical Review B, 2009, 79, .	1.1	90
13	Coexistence of sign reversal of both magnetization and exchange bias field in the core-shell type La0.2Ce0.8CrO3 nanoparticles. Applied Physics Letters, 2010, 96, 242508.	1.5	89
14	X-Ray Diffraction and Raman Spectroscopic Investigation on the Phase Relations in Yb2O3- and Tm2O3-Substituted CeO2. Journal of the American Ceramic Society, 2007, 90, 2961-2965.	1.9	88
15	Inorganicâ€“organic multiferroic hybrid films of Fe3O4 and PVDF with significant magneto-dielectric coupling. Journal of Materials Chemistry C, 2013, 1, 3710.	2.7	88
16	Effect of structure, particle size and relative concentration of Eu³⁺and Tb³⁺ions on the luminescence properties of Eu³⁺co-doped Y₂O₃:Tb nanoparticles. Nanotechnology, 2008, 19, 325704.	1.3	86
17	Luminescent Properties of Doped Zinc Aluminate and Zinc Gallate White Light Emitting Nanophosphors Prepared via Sonochemical Method. Journal of Physical Chemistry C, 2009, 113, 16954-16961.	1.5	83
18	Zircon to monazite phase transition in CeVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>: X-ray diffraction and Raman-scattering measurements. Physical Review B, 2011, 84, .	1.1	83

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19	Magnetic properties of sonochemically synthesized CoCr2O4 nanoparticles. Journal of Applied Physics, 2009, 106, 043915.	1.1	80
20	Theoretical and experimental evidence of enhanced ferromagnetism in Ba and Mn cosubstituted BiFeO3. Applied Physics Letters, 2010, 96, .	1.5	80
21	SnO2:Eu3+ nanoparticles dispersed in TiO2 matrix: Improved energy transfer between semiconductor host and Eu3+ ions for the low temperature synthesized samples. Applied Physics Letters, 2007, 90, 173113.	1.5	77
22	Photocatalytic Properties of One-Dimensional Nanostructured Titanates. Journal of Physical Chemistry C, 2010, 114, 9424-9430.	1.5	75
23	UV-shielding transparent PMMA/In2O3 nanocomposite films based on In2O3 nanoparticles. RSC Advances, 2013, 3, 20913.	1.7	74
24	Ag incorporated nano BiPO4: sonochemical synthesis, characterization and improved visible light photocatalytic properties. RSC Advances, 2014, 4, 10097.	1.7	74
25	Intercalation/Deintercalation of Oxygen: A Sequential Evolution of Phases in Ce2O3/CeO2âˆ'ZrO2 Pyrochlores. Chemistry of Materials, 2009, 21, 5848-5859.	3.2	71
26	Multifunctional Nanocrystalline CeCrO₃: Antiferromagnetic, Relaxor, and Optical Properties. Journal of Physical Chemistry C, 2009, 113, 12663-12668.	1.5	66
27	Phase Evolution and Microstructural Studies in <scp><scp>CaZrTi</scp></scp>₂<scp><scp>O</scp></scp>₇â€“<scp><scp>Nd</scp></scp>₂ System. Journal of the American Ceramic Society, 2014, 97, 609-616.	1.9	66
28	Gd2O3:Eu3+ particles prepared by glycine-nitrate combustion: Phase, concentration, annealing, and luminescence studies. Journal of Applied Physics, 2009, 105, 084304.	1.1	65
29	Enhanced specific absorption rate in silanol functionalized Fe 3 O 4 coreâ€“shell nanoparticles: Study of Fe leaching in Fe 3 O 4 and hyperthermia in L929 and HeLa cells. Colloids and Surfaces B:	2.5	65
30	Evolution of the local structure at the phase transition in CeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>-Gd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	64
31	Role of Sulfate in Structural Modifications of Sodium Barium Borosilicate Glasses Developed for Nuclear Waste Immobilization. Journal of the American Ceramic Society, 2008, 91, 3903-3907.	1.9	63
32	La_{1âˆ'x}Ce_xCrO₃ (0.0 â‰¤ x â‰¤ 1.0): A New Series of Solid Solutions with Tunable Magnetic and Optical Properties. Inorganic Chemistry, 2009, 48, 11691-11696.	1.9	63
33	New Polymorph of InVO₄: A High-Pressure Structure with Six-Coordinated Vanadium. Inorganic Chemistry, 2013, 52, 12790-12798.	1.9	63
34	In situhigh-pressure synchrotron x-ray diffraction study of CeVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>and TbVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>up to 50ÂGPa. Physical Review B, 2011, 84, .	1.1	62
35	High Adsorption Capacity for Cationic Dye Removal and Antibacterial Properties of Sonochemically Synthesized Ag₂WO₄ Nanorods. European Journal of Inorganic Chemistry, 2014, 2014, 5724-5732.	1.0	61
36	Phase evolution in sonochemically synthesized Fe³⁺ doped BaTiO₃ nanocrystallites: structural, magnetic and ferroelectric characterisation. Physical Chemistry Chemical Physics, 2016, 18, 9758-9769.	1.3	61

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37	Indium Oxide and Europium/Dysprosium Doped Indium Oxide Nanoparticles:â€‰ Sonochemical Synthesis, Characterization, and Photoluminescence Studies. Journal of Physical Chemistry C, 2008, 112, 6781-6785.	1.5	60
38	Pressure-Induced Transformations in PrVO₄ and SmVO₄ and Isolation of High-Pressure Metastable Phases. Inorganic Chemistry, 2013, 52, 5464-5469.	1.9	60
39	Nano-cerium vanadate: A novel inorganic ion exchanger for removal of americium and uranium from simulated aqueous nuclear waste. Journal of Hazardous Materials, 2014, 280, 63-70.	6.5	60
40	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO₄. Inorganic Chemistry, 2016, 55, 4958-4969.	1.9	60
41	Enhancement of dielectric, ferroelectric and magneto-dielectric properties in PVDFâ€“BaFe₁₂O₁₉ composites: a step towards miniaturizated electronic devices. RSC Advances, 2016, 6, 16073-16080.	1.7	60
42	FeTiTaO₆: A Leadâ€Free Relaxor Ferroelectric Based on the Rutile Structure. Advanced Materials, 2008, 20, 1348-1352.	11.1	55
43	High-pressure lattice dynamical study of bulk and nanocrystalline In2O3. Journal of Applied Physics, 2012, 112, .	1.1	55
44	Effect of Mo-Incorporation in the TiO₂ Lattice: A Mechanistic Basis for Photocatalytic Dye Degradation. Journal of Physical Chemistry C, 2014, 118, 15946-15962.	1.5	55
45	Exploring the high-pressure behavior of the three known polymorphs of BiPO4: Discovery of a new polymorph. Journal of Applied Physics, 2015, 117, .	1.1	55
46	Nanoceria-PAN Composite-Based Advanced Sorbent Material: A Major Step Forward in the Field of Clinical-Grade ⁶⁸Ge/⁶⁸Ga Generator. ACS Applied Materials & Interfaces, 2010, 2, 2069-2075.	4.0	54
47	High-pressure study of ScVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>by Raman scattering andab initiocalculations. Physical Review B, 2011, 83, .	1.1	54
48	Role of annealing conditions on the ferromagnetic and dielectric properties of La₂NiMnO₆. Journal of Materials Research, 2011, 26, 567-577.	1.2	54
49	Auto-ignition synthesis of nanocrystalline BaTi4O9 powder. Journal of Materials Chemistry, 2002, 12, 312-316.	6.7	53
50	Hybrid Multiferroic Nanostructure with Magneticâ€“Dielectric Coupling. Nano Letters, 2012, 12, 3025-3030.	4.5	53
51	Improvement of Magnetodielectric Coupling by Surface Functionalization of Nickel Nanoparticles in Ni and Polyvinylidene Fluoride Nanohybrids. Journal of Physical Chemistry C, 2014, 118, 20819-20825.	1.5	51
52	Multiferroic PVDFâ€“Fe₃O₄hybrid films with reduced graphene oxide and ZnO nanofillers. RSC Advances, 2016, 6, 20089-20094.	1.7	51
53	Development of a nano-zirconia based 68Ge/68Ga generator for biomedical applications. Nuclear Medicine and Biology, 2011, 38, 575-583.	0.3	49
54	Complex GdSc_{1â€“x}In_xO₃ Oxides: Synthesis and Structure Driven Tunable Electrical Properties. Chemistry of Materials, 2012, 24, 2186-2196.	3.2	49

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55	Effect of Host Structure and Concentration on the Luminescence of <scp><scp>Eu</scp>³⁺</scp> and <scp><scp>Tb</scp>³⁺</scp> in Borate Phosphors. Journal of the American Ceramic Society, 2012, 95, 696-704.	1.9	49
56	Effect of grain size and microstructure on radiation stability of CeO₂: an extensive study. Physical Chemistry Chemical Physics, 2014, 16, 27065-27073.	1.3	49
57	The role of reaction conditions in the polymorphic control of Eu³⁺ doped YInO₃: structure and size sensitive luminescence. Dalton Transactions, 2015, 44, 10628-10635.	1.6	49
58	Preparation and Structure of Uranium-Incorporated Gd₂Zr₂O₇ Compounds and Their Thermodynamic Stabilities under Oxidizing and Reducing Conditions. Inorganic Chemistry, 2015, 54, 9447-9457.	1.9	48
59	Selective CO₂ Photoreduction with Cu-Doped TiO₂ Photocatalyst: Delineating the Crucial Role of Cu-Oxidation State and Oxygen Vacancies. Journal of Physical Chemistry C, 2021, 125, 1793-1810.	1.5	48
60	Nanocrystalline YCrO3with onion-like structure and unusual magnetic behaviour. Nanotechnology, 2007, 18, 155706.	1.3	47
61	Structural and electrical properties of layered perovskite type Pr₂Ti₂O₇: experimental and theoretical investigations. Journal of Materials Chemistry C, 2015, 3, 4570-4584.	2.7	45
62	Low-temperature polaronic relaxations with variable range hopping conductivity in FeTi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>M</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mrow><mml:mspace		

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73	Enhanced magnetic and ferroelectric properties in scandium doped nano Bi2Fe4O9. Materials Chemistry and Physics, 2012, 135, 998-1004.	2.0	38
74	Color tunable YF₃: Ce³⁺/Ln³⁺(Ln³⁺: Eu³⁺,) Tj ETQq0 0 0 rgBT /Overlo energy transfer study. RSC Advances, 2012, 2, 1161-1167.	1.7	37
75	Oxidation of benzylic alcohols to carbonyls using tert-butyl hydroperoxide over pure phase nanocrystalline CeCrO3. Catalysis Communications, 2013, 40, 27-31.	1.6	37
76	Assessment of quality and geochemical processes occurring in groundwaters near central air conditioning plant site in Trombay, Maharashtra, India. Environmental Monitoring and Assessment, 2010, 163, 171-184.	1.3	35
77	Phase transition and thermodynamic properties of yttria, Y<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>: Inelastic neutron scattering shell model and first-principles calculations. Physical Review B, 2011, 84,	1.1	35
78	Observation of a new cryogenic temperature dielectric relaxation in multiferroic Bi7Fe3Ti3O21. Applied Physics Letters, 2013, 103, .	1.5	35
79	Selective sorption and subsequent photocatalytic degradation of cationic dyes by sonochemically synthesized nano CuWO₄and Cu₃Mo₂O₉. RSC Advances, 2015, 5, 94866-94878.	1.7	35
80	Preparation and characterization of Sr0.09Ce0.91O1.91, SrCeO3, and Sr2CeO4 by glycineâ€“nitrate combustion: Crucial role of oxidant-to-fuel ratio. Journal of Materials Research, 2004, 19, 3181-3188.	1.2	34
81	Europium Luminescence as a Structural Probe: Structure-Dependent Changes in Eu3+-Substituted Th(C2O4)2Â·xH2O (x= 6, 2, and 0). European Journal of Inorganic Chemistry, 2015, 2015, 4429-4436.	1.0	34
82	Water-dispersible polyphosphate-grafted Fe₃O₄ nanomagnets for cancer therapy. RSC Advances, 2015, 5, 86754-86762.	1.7	34
83	Crucial Role of the Reaction Conditions in Isolating Several Metastable Phases in a Gdâ^'Ceâ^'Zrâ^'O System. Inorganic Chemistry, 2010, 49, 10415-10421.	1.9	33
84	An insight into the effect of g-C3N4 support on the enhanced performance of ZnS nanoparticles as anode material for lithium-ion and sodium-ion batteries. Electrochimica Acta, 2021, 370, 137715.	2.6	33
85	1D Morphology Stabilization and Enhanced Magnetic Properties of Co:ZnO Nanostructures on Codoping with Li: A Template-Free Synthesis. Crystal Growth and Design, 2009, 9, 4450-4455.	1.4	32
86	Tunability of structure from ordered to disordered and its impact on ionic conductivity behavior in the Nd2â^'yHoyZr2O7 (0.0 â‰¤ y â‰¤ 2.0) system. RSC Advances, 2012, 2, 8341.	1.7	31
87	Influence of La³⁺ Substitution on Electrical and Photocatalytic Behavior of Complex Bi₂Sn₂O₇ Oxides. Journal of Physical Chemistry C, 2013, 117, 10929-10938.	1.5	31
88	Efficient Photocatalytic Degradation of Rhodamine B Dye by Aligned Arrays of Self-Assembled Hydrogen Titanate Nanotubes. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	31
89	Role of Annealing Atmosphere on Structure, Dielectric and Magnetic Properties of La₂CoMnO₆ and La₂MgMnO₆. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1907-1921.	0.6	31
90	High-pressure x-ray diffraction study of CdMoO4 and EuMoO4. Journal of Applied Physics, 2011, 109, 043510-043510-5.	1.1	30

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91	Role of palladium crystallite size on CO oxidation over CeZrO4-Î´ supported Pd catalysts. Molecular Catalysis, 2018, 455, 1-5.	1.0	30
92	Rapid, Room Temperature Synthesis of Eu³⁺ Doped NaBi(MoO₄)₂ Nanomaterials: Structural, Optical, and Photoluminescence Properties. Crystal Growth and Design, 2019, 19, 3379-3388.	1.4	30
93	Lattice thermal expansion of zircon-type LuPO4 and LuVO4: A comparative study. American Mineralogist, 2009, 94, 98-104.	0.9	29
94	Nanocrystalline zirconia: A novel sorbent for the preparation of 188W/188Re generator. Applied Radiation and Isotopes, 2010, 68, 229-238.	0.7	29
95	High-pressure x-ray diffraction study of bulk and nanocrystalline PbMoO4. Journal of Applied Physics, 2010, 108, 073518.	1.1	29
96	Synthesis of uniform gold nanoparticles using non-pathogenic bio-control agent: Evolution of morphology from nano-spheres to triangular nanoprisms. Journal of Colloid and Interface Science, 2012, 367, 148-152.	5.0	29
97	Multicolored and white-light phosphors based on doped GdF3 nanoparticles and their potential bio-applications. Journal of Colloid and Interface Science, 2012, 367, 161-170.	5.0	29
98	Effect of Annealing Environment on Low-Temperature Magnetic and Dielectric Properties of EuCo_{0.5}Mn_{0.5}O₃. Journal of Physical Chemistry C, 2014, 118, 17900-17913.	1.5	29
99	Utilizing non-stoichiometry in Nd₂Zr₂O₇pyrochlore: exploring superior ionic conductors. RSC Advances, 2016, 6, 97566-97579.	1.7	29
100	CePO4:Ln (Ln = Tb3+ and Dy3+) Nanoleaves Incorporated in Silica Sols. Crystal Growth and Design, 2009, 9, 2451-2456.	1.4	28
101	Serendipitous discovery of super adsorbent properties of sonochemically synthesized nano BaWO4. RSC Advances, 2013, 3, 22580.	1.7	28
102	Palladium(II)/allylpalladium(II) complexes with xanthate ligands: Single-source precursors for the generation of palladium sulfide nanocrystals. Journal of Organometallic Chemistry, 2007, 692, 5285-5294.	0.8	27
103	Luminescence properties of Sm3+ doped YPO4: Effect of solvent, heat-treatment, Ca2+/W6+-co-doping and its hyperthermia application. AIP Advances, 2012, 2, 042184.	0.6	27
104	Sorption characteristics of nano manganese oxide: efficient sorbent for removal of metal ions from aqueous streams. Journal of Radioanalytical and Nuclear Chemistry, 2013, 297, 49-57.	0.7	27
105	Probing the Local Structure and Phase Transitions of <scp><scp>Bi</scp></scp>₄<scp><scp>V</scp></scp>₂<scp><scp>O</scp></scp>₁₁â€Based Fast Ionic Conductors by Combined Raman and <scp>XRD</scp> Studies. Journal of the American Ceramic Society, 2013, 96, 3448-3456.	1.9	27
106	Stability of FeVO₄ under Pressure: An X-ray Diffraction and First-Principles Study. Inorganic Chemistry, 2018, 57, 7860-7876.	1.9	27
107	Exploitation of Nano Alumina for the Chromatographic Separation of Clinical Grade ¹⁸⁸Re from ¹⁸⁸W: A Renaissance of the ¹⁸⁸W/¹⁸⁸Re Generator Technology. Analytical Chemistry, 2011, 83, 6342-6348.	3.2	26
108	Enhancement of dielectric constant in a niobium doped titania system: an experimental and theoretical study. New Journal of Chemistry, 2016, 40, 9526-9536.	1.4	26

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109	Mechanistic Insight by in Situ FTIR for the Gas Phase Photo-oxidation of Ethylene by V-Doped Titania and Nano Titania. Journal of Physical Chemistry B, 2009, 113, 5917-5928.	1.2	25
110	Sonochemically synthesized rare earth double-doped zirconia nanoparticles: probable candidate for white light emission. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	25
111	Sorption of dyes and Cu(<scp>ii</scp>) ions from wastewater by sonochemically synthesized MnWO₄ and MnMoO₄ nanostructures. RSC Advances, 2014, 4, 37027-37035.	1.7	25
112	Role of temperature in the radiation stability of yttria stabilized zirconia under swift heavy ion irradiation: A study from the perspective of nuclear reactor applications. Journal of Applied Physics, 2017, 122, .	1.1	25
113	Quest for Lead Free Relaxors in YIn_{1â€“x}Fe_xO₃ (0.0 â‰¤ Tj ETQq1 1 0.784314 rgBT	1.9	24
114	Barium borosilicate glass as a matrix for the uptake of dyes. Journal of Hazardous Materials, 2009, 172, 457-464.	6.5	23
115	In situ formation of stable gold nanoparticles in polymer inclusion membranes. Journal of Colloid and Interface Science, 2009, 337, 523-530.	5.0	23
116	New high-pressure phase and equation of state of Ce2Zr2O8. Journal of Applied Physics, 2012, 111, .	1.1	23
117	Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type Sr₂ZnGe₂O₇ at High Pressure and Delineation of a High-Pressure Monoclinic Phase. Inorganic Chemistry, 2015, 54, 6594-6605.	1.9	23
118	Inelastic neutron scattering studies of phonon spectra, and simulations of pressure-induced amorphization in tungstates<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mi		

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127	Experimental and Theoretical Study on rGO-Decorated Mo₂C Composite as the Anode Material for Lithium Ion Batteries. Energy & Fuels, 2021, 35, 12556-12568.	2.5	21
128	Thermally stimulated luminescence and electron paramagnetic resonance studies of Eu3+-doped yttrium borate. Journal of Materials Research, 2006, 21, 1117-1123.	1.2	20
129	Room Temperature Exciton Formation in SnO₂ Nanocrystals in SiO₂:Eu Matrix: Quantum Dot System, Heat-Treatment Effect. Journal of Nanoscience and Nanotechnology, 2009, 9, 2634-2638.	0.9	20
130	Interconversion of Perovskite and Fluorite Structures in Ceâˆ'Scâˆ'O System. Inorganic Chemistry, 2010, 49, 1152-1157.	1.9	20
131	Microstructure Characterization and Electrical Conductivity Measurement of <scp><scp>La</scp>_{1â^'x}<scp>Ca</scp>_x<scp>CrO</scp>₃</scp> (xÂ=Â0.25, 0.4, 0.5) Prepared by Aspartic Acidâ€Assisted Solution Combustion. Journal of the American Ceramic Society, 2012, 95, 290-295.	1.9	20
132	Synthesis and Structural and Electrical Investigations of a Hexagonal Y_{1â€“x}Gd_xInO₃ (0.0 â‰¤ x â‰¤ 1.0) System Obtained via Metastable C-Type Intermediates. Inorganic Chemistry, 2013, 52, 13179-13187.	1.9	20
133	Palladium Supported on Fluorite Structured Redox CeZrO_{4-Î´}for Heterogeneous Suzuki Coupling in Water: A Green Protocol. ChemistrySelect, 2016, 1, 2673-2681.	0.7	20
134	Preparation and crystal structure of K₂Ce(PO₄)₂: a new complex phosphate of Ce(<scp>iv</scp>) having structure with one-dimensional channels. Dalton Transactions, 2016, 45, 980-991.	1.6	20
135	Optimization of lithium content in LiFePO₄ for superior electrochemical performance: the role of impurities. RSC Advances, 2018, 8, 1140-1147.	1.7	20
136	Combustion synthesis of nanocrystalline yttria-doped ceria. Journal of Materials Research, 2004, 19, 474-480.	1.2	19
137	Eu3+ and Dy3+ Doped YPO4 Nanoparticles: Low Temperature Synthesis and Luminescence Studies. Journal of Nanoscience and Nanotechnology, 2009, 9, 3034-3039.	0.9	19
138	Enhancement of ferromagnetic properties in Zn0.95Co0.05O nanoparticles by indium codoping: An experimental and theoretical study. Applied Physics Letters, 2010, 97, .	1.5	19
139	Inorganicâ€“organic Ag-rhodamine 6G hybrid nanorods: â€œTurn onâ€•fluorescent sensors for highly selective detection of Pb²⁺ions in aqueous solution. Analyst, The, 2012, 137, 760-764.	1.7	19
140	An efficient robust fluorite CeZrO_{4â^'Î´} oxide catalyst for the eco-benign synthesis of styrene. RSC Advances, 2015, 5, 3619-3626.	1.7	19
141	Investigating the effect of material microstructure and irradiation temperature on the radiation tolerance of yttria stabilized zirconia against high energy heavy ions. Journal of Applied Physics, 2019, 125, .	1.1	19
142	On fluorine incorporation into YBa2Cu3O6.5+?. Journal of Materials Science Letters, 1992, 11, 1288-1290.	0.5	18
143	Sonochemical synthesis, characterization, and photocatalytic properties of Bi2â^'x Sb x WO6 nanorods. Journal of Materials Science, 2014, 49, 2085-2097.	1.7	18
144	Photocatalytic hydrogen generation from water using a hybrid of graphene nanoplatelets and self doped TiO₂â€“Pd. RSC Advances, 2014, 4, 13469-13476.	1.7	18

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145	Structural Stability and Anharmonicity of Pr₂Ti₂O₇: Raman Spectroscopic and XRD Studies. Inorganic Chemistry, 2016, 55, 11791-11800.	1.9	18
146	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO₃. Inorganic Chemistry, 2017, 56, 8363-8371.	1.9	18
147	Highly sinter-active nanocrystalline RE2O3 (RE = Gd, Eu, Dy) by a combustion process, and role of oxidant-to-fuel ratio in preparing their different crystallographic modifications. Journal of Materials Research, 2007, 22, 587-594.	1.2	17
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