

Avesh Tyagi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4439293/avesh-tyagi-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

315
papers

6,671
citations

46
h-index

63
g-index

333
ext. papers

7,372
ext. citations

3.5
avg, IF

5.96
L-index

#	Paper	IF	Citations
315	Magnetic, Ferroelectric, and Magnetocapacitive Properties of Sonochemically Synthesized Sc-Doped BiFeO ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2382-2389	3.8	134
314	Solution combustion synthesis, energy and environment: Best parameters for better materials. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2018 , 64, 23-61	3.5	133
313	Effect of doping on the morphology and multiferroic properties of BiFeO ₃ nanorods. <i>Nanoscale</i> , 2010 , 2, 1149-54	7.7	108
312	Rare-earth doped gadolinia based phosphors for potential multicolor and white light emitting deep UV LEDs. <i>Nanotechnology</i> , 2009 , 20, 125707	3.4	108
311	Size dependent magnetic and dielectric properties of nano CoFe ₂ O ₄ prepared by a salt assisted gel-combustion method. <i>Journal of Applied Physics</i> , 2013 , 113, 194101	2.5	99
310	Colloidal Fe-Doped Indium Oxide Nanoparticles: Facile Synthesis, Structural, and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3600-3606	3.8	97
309	Photochemical Hydrogen Generation Using Nitrogen-Doped TiO ₂ Bd Nanoparticles: Facile Synthesis and Effect of Ti ³⁺ Incorporation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12462-12467	3.8	94
308	Effect of Vanadia Doping and Its Oxidation State on the Photocatalytic Activity of TiO ₂ for Gas-Phase Oxidation of Ethene. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19102-19112	3.8	93
307	Copper(I) Oxide Nanocrystals [One Step Synthesis, Characterization, Formation Mechanism, and Photocatalytic Properties. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 2640-2651	2.3	85
306	Chemical Synthesis and Structural and Magnetic Properties of Dispersible Cobalt- and Nickel-Doped ZnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3422-3430	3.8	85
305	Coexistence of sign reversal of both magnetization and exchange bias field in the core-shell type La _{0.2} Ce _{0.8} CrO ₃ nanoparticles. <i>Applied Physics Letters</i> , 2010 , 96, 242508	3.4	80
304	High-pressure structural investigation of several zircon-type orthovanadates. <i>Physical Review B</i> , 2009 , 79,	3.3	79
303	Effect of structure, particle size and relative concentration of Eu(3+) and Tb(3+) ions on the luminescence properties of Eu(3+) co-doped Y(2)O(3):Tb nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 325704	3.4	78
302	Sm(2-x)Dy(x)Zr ₂ O ₇ pyrochlores: probing order-disorder dynamics and multifunctionality. <i>Inorganic Chemistry</i> , 2011 , 50, 2354-65	5.1	77
301	X-Ray Diffraction and Raman Spectroscopic Investigation on the Phase Relations in Yb ₂ O ₃ - and Tm ₂ O ₃ -Substituted CeO ₂ . <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2961-2965	3.8	76
300	Theoretical and experimental evidence of enhanced ferromagnetism in Ba and Mn cosubstituted BiFeO ₃ . <i>Applied Physics Letters</i> , 2010 , 96, 032903	3.4	74
299	SnO ₂ :Eu ³⁺ nanoparticles dispersed in TiO ₂ matrix: Improved energy transfer between semiconductor host and Eu ³⁺ ions for the low temperature synthesized samples. <i>Applied Physics Letters</i> , 2007 , 90, 173113	3.4	74

298	Inorganic-organic multiferroic hybrid films of Fe ₃ O ₄ and PVDF with significant magneto-dielectric coupling. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 3710	7.1	72
297	Luminescent Properties of Doped Zinc Aluminate and Zinc Gallate White Light Emitting Nanophosphors Prepared via Sonochemical Method. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16954-16961	3.8	72
296	Zircon to monazite phase transition in CeVO ₄ : X-ray diffraction and Raman-scattering measurements. <i>Physical Review B</i> , 2011 , 84,	3.3	71
295	Ag incorporated nano BiPO ₄ : sonochemical synthesis, characterization and improved visible light photocatalytic properties. <i>RSC Advances</i> , 2014 , 4, 10097	3.7	65
294	Photocatalytic Properties of One-Dimensional Nanostructured Titanates. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9424-9430	3.8	65
293	Intercalation/Deintercalation of Oxygen: A Sequential Evolution of Phases in Ce ₂ O ₃ /CeO ₂ -xO ₂ Pyrochlores. <i>Chemistry of Materials</i> , 2009 , 21, 5848-5859	9.6	65
292	Magnetic properties of sonochemically synthesized CoCr ₂ O ₄ nanoparticles. <i>Journal of Applied Physics</i> , 2009 , 106, 043915	2.5	65
291	Phase Evolution and Microstructural Studies in CaZrTi ₂ O ₇ -Nd ₂ Ti ₂ O ₇ System. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 609-616	3.8	58
290	Evolution of the local structure at the phase transition in CeO ₂ -Gd ₂ O ₃ solid solutions. <i>Physical Review B</i> , 2013 , 87,	3.3	58
289	In situ high-pressure synchrotron x-ray diffraction study of CeVO ₄ and TbVO ₄ up to 50 GPa. <i>Physical Review B</i> , 2011 , 84,	3.3	54
288	Multifunctional Nanocrystalline CeCrO ₃ : Antiferromagnetic, Relaxor, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12663-12668	3.8	54
287	Enhanced specific absorption rate in silanol functionalized Fe ₃ O ₄ core-shell nanoparticles: study of Fe leaching in Fe ₃ O ₄ and hyperthermia in L929 and HeLa cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 122, 396-403	6	53
286	High Adsorption Capacity for Cationic Dye Removal and Antibacterial Properties of Sonochemically Synthesized Ag ₂ WO ₄ Nanorods. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 5724-5732	2.3	53
285	Role of Sulfate in Structural Modifications of Sodium Barium Borosilicate Glasses Developed for Nuclear Waste Immobilization. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3903-3907	3.8	53
284	Gd ₂ O ₃ :Eu ³⁺ particles prepared by glycine-nitrate combustion: Phase, concentration, annealing, and luminescence studies. <i>Journal of Applied Physics</i> , 2009 , 105, 084304	2.5	52
283	Indium Oxide and Europium/Dysprosium Doped Indium Oxide Nanoparticles: Sonochemical Synthesis, Characterization, and Photoluminescence Studies. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6781-6785	3.8	52
282	New polymorph of InVO ₄ : a high-pressure structure with six-coordinated vanadium. <i>Inorganic Chemistry</i> , 2013 , 52, 12790-8	5.1	51
281	La _(1-x) Ce _(x) CrO ₍₃₎ (0.0 . <i>Inorganic Chemistry</i> , 2009 , 48, 11691-6	5.1	51

280	Auto-ignition synthesis of nanocrystalline BaTi ₄ O ₉ powder. <i>Journal of Materials Chemistry</i> , 2002 , 12, 312-316		51
279	Hybrid multiferroic nanostructure with magnetic-dielectric coupling. <i>Nano Letters</i> , 2012 , 12, 3025-30	11.5	50
278	Exploring the high-pressure behavior of the three known polymorphs of BiPO ₄ : Discovery of a new polymorph. <i>Journal of Applied Physics</i> , 2015 , 117, 105902	2.5	49
277	Effect of Mo-Incorporation in the TiO ₂ Lattice: A Mechanistic Basis for Photocatalytic Dye Degradation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15946-15962	3.8	49
276	High-pressure lattice dynamical study of bulk and nanocrystalline In ₂ O ₃ . <i>Journal of Applied Physics</i> , 2012 , 112, 123511	2.5	49
275	Pressure-induced transformations in PrVO ₄ and SmVO ₄ and isolation of high-pressure metastable phases. <i>Inorganic Chemistry</i> , 2013 , 52, 5464-9	5.1	49
274	High-pressure study of ScVO ₄ by Raman scattering and ab initio calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	49
273	FeTiTaO ₆ : A Lead-Free Relaxor Ferroelectric Based on the Rutile Structure. <i>Advanced Materials</i> , 2008 , 20, 1348-1352	24	49
272	UV-shielding transparent PMMA/In ₂ O ₃ nanocomposite films based on In ₂ O ₃ nanoparticles. <i>RSC Advances</i> , 2013 , 3, 20913	3.7	48
271	Nanoceria-PAN composite-based advanced sorbent material: a major step forward in the field of clinical-grade ⁶⁸ Ge/ ⁶⁸ Ga generator. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2069-75	9.5	47
270	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO ₄ . <i>Inorganic Chemistry</i> , 2016 , 55, 4958-69	5.1	47
269	Development of a nano-zirconia based ⁶⁸ Ge/ ⁶⁸ Ga generator for biomedical applications. <i>Nuclear Medicine and Biology</i> , 2011 , 38, 575-83	2.1	46
268	Phase evolution in sonochemically synthesized Fe(3+) doped BaTiO ₃ nanocrystallites: structural, magnetic and ferroelectric characterisation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 9758-69	3.6	45
267	Enhancement of dielectric, ferroelectric and magneto-dielectric properties in PVDFBaFe ₁₂ O ₁₉ composites: a step towards miniaturized electronic devices. <i>RSC Advances</i> , 2016 , 6, 16073-16080	3.7	45
266	Role of annealing conditions on the ferromagnetic and dielectric properties of La ₂ NiMnO ₆ . <i>Journal of Materials Research</i> , 2011 , 26, 567-577	2.5	45
265	Nano-cerium vanadate: a novel inorganic ion exchanger for removal of americium and uranium from simulated aqueous nuclear waste. <i>Journal of Hazardous Materials</i> , 2014 , 280, 63-70	12.8	44
264	Effect of Host Structure and Concentration on the Luminescence of Eu ³⁺ and Tb ³⁺ in Borate Phosphors. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 696-704	3.8	43
263	Improvement of Magnetodielectric Coupling by Surface Functionalization of Nickel Nanoparticles in Ni and Polyvinylidene Fluoride Nanohybrids. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20819-20825	3.8	42

262	The role of reaction conditions in the polymorphic control of Eu ³⁺ doped YInO ₃ : structure and size sensitive luminescence. <i>Dalton Transactions</i> , 2015 , 44, 10628-35	4.3	40
261	Solid state white light emitting systems based on CeF ₃ : RE ³⁺ nanoparticles and their composites with polymers. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 445-53	9.3	40
260	Nanocrystalline YCrO ₃ with onion-like structure and unusual magnetic behaviour. <i>Nanotechnology</i> , 2007 , 18, 155706	3.4	40
259	Decomposition of lanthanum hafnate at high pressures. <i>Physical Review B</i> , 2008 , 77,	3.3	39
258	Low-temperature polaronic relaxations with variable range hopping conductivity in FeTiMO ₆ (M=Ta, Nb, Sb). <i>Physical Review B</i> , 2011 , 84,	3.3	38
257	Effect of grain size and microstructure on radiation stability of CeO ₂ : an extensive study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 27065-73	3.6	37
256	Biomimetic synthesis of nanocrystalline silver sol using cysteine: stability aspects and antibacterial activities. <i>RSC Advances</i> , 2012 , 2, 6496	3.7	37
255	Effect of Surfactant Treatment on the Magnetic Properties of Mn-Doped ZnO Bulk and Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4814-4819	3.8	37
254	Complex GdSc _{1-x} In _x O ₃ Oxides: Synthesis and Structure Driven Tunable Electrical Properties. <i>Chemistry of Materials</i> , 2012 , 24, 2186-2196	9.6	36
253	Multiferroic PVDF/Ba ₃ Co ₂ Fe ₂ O ₁₂ hybrid films with reduced graphene oxide and ZnO nanofillers. <i>RSC Advances</i> , 2016 , 6, 20089-20094	3.7	35
252	Color tunable YF ₃ : Ce ³⁺ /Ln ³⁺ (Ln ³⁺ : Eu ³⁺ , Tb ³⁺ , Dy ³⁺ , Sm ³⁺) luminescent system: role of sensitizer and energy transfer study. <i>RSC Advances</i> , 2012 , 2, 1161-1167	3.7	35
251	Experimental and theoretical investigation of ThGeO ₄ at high pressure. <i>Physical Review B</i> , 2009 , 80,	3.3	35
250	Nanocrystalline Nd ₂ Gd ₂ Zr ₂ O ₇ pyrochlore: Facile synthesis and electrical characterization. <i>Journal of Materials Research</i> , 2009 , 24, 2855-2862	2.5	35
249	Practicality of Tetragonal Nano-Zirconia as a Prospective Sorbent in the Preparation of ⁹⁹ Mo/ ^{99m} Tc Generator for Biomedical Applications. <i>Chromatographia</i> , 2010 , 72, 875-884	2.1	35
248	Polymer embedded nanocrystalline titania sorbent for ⁹⁹ Mo- ^{99m} Tc generator. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4447-52	1.3	35
247	Structural analysis of excess-anion C-type rare earth oxide: a case study with Gd _{1-x} Ce _x O _{1.5+x/2} (x= 0.20 and 0.40). <i>Journal of Applied Crystallography</i> , 2003 , 36, 1082-1084	3.8	35
246	Structural and electrical properties of layered perovskite type Pr ₂ Ti ₂ O ₇ : experimental and theoretical investigations. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4570-4584	7.1	34
245	Enhanced magnetic and ferroelectric properties in scandium doped nano Bi ₂ Fe ₄ O ₉ . <i>Materials Chemistry and Physics</i> , 2012 , 135, 998-1004	4.4	34

- 244 Enhancement of dielectric permittivity and ferroelectricity of a modified cobalt nanoparticle and polyvinylidene fluoride based composite. *RSC Advances*, **2015**, 5, 8591-8597 3.7 33
- 243 Preparation and structure of uranium-incorporated Gd₂Zr₂O₇ compounds and their thermodynamic stabilities under oxidizing and reducing conditions. *Inorganic Chemistry*, **2015**, 54, 9447-57¹ 3²
- 242 Preparation and characterization of Sr_{0.09}Ce_{0.91}O_{1.91}, SrCeO₃, and Sr₂CeO₄ by glycine nitrate combustion: Crucial role of oxidant-to-fuel ratio. *Journal of Materials Research*, **2004**, 19, 3181-3188 2.5 32
- 241 Selective sorption and subsequent photocatalytic degradation of cationic dyes by sonochemically synthesized nano CuWO₄ and Cu₃Mo₂O₉. *RSC Advances*, **2015**, 5, 94866-94878 3.7 30
- 240 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 3.5 30
- 239 Oxidation of benzylic alcohols to carbonyls using tert-butyl hydroperoxide over pure phase nanocrystalline CeCrO₃. *Catalysis Communications*, **2013**, 40, 27-31 3.2 29
- 238 High-pressure x-ray diffraction study of bulk and nanocrystalline PbMoO₄. *Journal of Applied Physics*, **2010**, 108, 073518 2.5 29
- 237 Crucial role of the reaction conditions in isolating several metastable phases in a Gd-Ce-Zr-O system. *Inorganic Chemistry*, **2010**, 49, 10415-21 5.1 29
- 236 Influence of La³⁺ Substitution on Electrical and Photocatalytic Behavior of Complex Bi₂Sn₂O₇ Oxides. *Journal of Physical Chemistry C*, **2013**, 117, 10929-10938 3.8 28
- 235 Observation of a new cryogenic temperature dielectric relaxation in multiferroic Bi₇Fe₃Ti₃O₂₁. *Applied Physics Letters*, **2013**, 103, 122901 3.4 28
- 234 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, 171-84 3.1 28
- 233 Efficient Photocatalytic Degradation of Rhodamine B Dye by Aligned Arrays of Self-Assembled Hydrogen Titanate Nanotubes. *Journal of Nanomaterials*, **2014**, 2014, 1-7 3.2 27
- 232 Phase transitions and thermodynamic properties of yttria, Y₂O₃: Inelastic neutron scattering shell model and first-principles calculations. *Physical Review B*, **2011**, 84, 3.3 27
- 231 High-pressure x-ray diffraction study of CdMoO₄ and EuMoO₄. *Journal of Applied Physics*, **2011**, 109, 043510-043510-5 2.5 27
- 230 Lattice thermal expansion of zircon-type LuPO₄ and LuVO₄: A comparative study. *American Mineralogist*, **2009**, 94, 98-104 2.9 27
- 229 Nanocrystalline zirconia: a novel sorbent for the preparation of (188)W/(188)Re generator. *Applied Radiation and Isotopes*, **2010**, 68, 229-38 1.7 27
- 228 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, 148-52 9.3 26
- 227 Serendipitous discovery of super adsorbent properties of sonochemically synthesized nano BaWO₄. *RSC Advances*, **2013**, 3, 22580 3.7 26

- 226 Palladium(II)/allylpalladium(II) complexes with xanthate ligands: Single-source precursors for the generation of palladium sulfide nanocrystals. *Journal of Organometallic Chemistry*, **2007**, 692, 5285-5294²⁻³ 26
- 225 Water-dispersible polyphosphate-grafted Fe₃O₄ nanomagnets for cancer therapy. *RSC Advances*, **2015**, 5, 86754-86762 3-7 25
- 224 Europium Luminescence as a Structural Probe: Structure-Dependent Changes in Eu³⁺-Substituted Th(C₂O₄)₂·xH₂O (x = 6, 2, and 0). *European Journal of Inorganic Chemistry*, **2015**, 2015, 4429-4436 2-3 25
- 223 Tunability of structure from ordered to disordered and its impact on ionic conductivity behavior in the Nd₂Zr₂O₇ (0.0 ≤ x ≤ 1.0) system. *RSC Advances*, **2012**, 2, 8341 3-7 25
- 222 Multicolored and white-light phosphors based on doped GdF₃ nanoparticles and their potential bio-applications. *Journal of Colloid and Interface Science*, **2012**, 367, 161-70 9-3 24
- 221 Luminescence properties of Sm³⁺ doped YPO₄: Effect of solvent, heat-treatment, Ca²⁺/W⁶⁺-co-doping and its hyperthermia application. *AIP Advances*, **2012**, 2, 042184 1-5 24
- 220 Role of palladium crystallite size on CO oxidation over CeZrO₄-supported Pd catalysts. *Molecular Catalysis*, **2018**, 455, 1-5 3-3 23
- 219 Role of Annealing Atmosphere on Structure, Dielectric and Magnetic Properties of La₂CoMnO₆ and La₂MgMnO₆. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 1907-1921 1-3 23
- 218 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 1-5 23
- 217 Sonochemically synthesized rare earth double-doped zirconia nanoparticles: probable candidate for white light emission. *Journal of Nanoparticle Research*, **2012**, 14, 1 2-3 23
- 216 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, 6342-8 7-8 23
- 215 CePO₄:Ln (Ln = Tb³⁺ and Dy³⁺) Nanoleaves Incorporated in Silica Sols. *Crystal Growth and Design*, **2009**, 9, 2451-2456 3-5 23
- 214 Utilizing non-stoichiometry in Nd₂Zr₂O₇ pyrochlore: exploring superior ionic conductors. *RSC Advances*, **2016**, 6, 97566-97579 3-7 23
- 213 Inelastic neutron scattering studies of phonon spectra, and simulations of pressure-induced amorphization in tungstates AWO₄ (A=Ba,Sr,Ca, and Pb). *Physical Review B*, **2015**, 91, 3-3 22
- 212 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 3-8 21
- 211 Rare examples of fluoride-based multiferroic materials in Mn-substituted BaMgF₄ systems: experimental and theoretical studies. *Inorganic Chemistry*, **2011**, 50, 11765-72 5-1 21
- 210 In situ formation of stable gold nanoparticles in polymer inclusion membranes. *Journal of Colloid and Interface Science*, **2009**, 337, 523-30 9-3 21
- 209 New high-pressure phase and equation of state of Ce₂Zr₂O₈. *Journal of Applied Physics*, **2012**, 111, 053519 3-5 21

208	Quest for lead free relaxors in $\text{YIn}_{(1-x)}\text{Fe}_x\text{O}_{(0.0 \leq x \leq 1.0)}$ system: role of synthesis and structure. <i>Inorganic Chemistry</i> , 2014 , 53, 10101-11	5.1	20
207	Barium borosilicate glass as a matrix for the uptake of dyes. <i>Journal of Hazardous Materials</i> , 2009 , 172, 457-64	12.8	20
206	Phase transitions in $\text{Al}_2(\text{WO}_4)_3$: high pressure investigations of low frequency dielectric constant and crystal structure. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 7321-7330	1.8	20
205	Enhancement of dielectric constant in a niobium doped titania system: an experimental and theoretical study. <i>New Journal of Chemistry</i> , 2016 , 40, 9526-9536	3.6	20
204	Sorption of dyes and Cu(II) ions from wastewater by sonochemically synthesized MnWO_4 and MnMoO_4 nanostructures. <i>RSC Advances</i> , 2014 , 4, 37027-37035	3.7	19
203	Combustion synthesis of nanocrystalline yttria-doped ceria. <i>Journal of Materials Research</i> , 2004 , 19, 474-480	4.3	19
202	Photocatalytic hydrogen generation from water using a hybrid of graphene nanoplatelets and self doped TiO_2 . <i>RSC Advances</i> , 2014 , 4, 13469-13476	3.7	18
201	Sonochemical synthesis, characterization, and photocatalytic properties of $\text{Bi}_{2-x}\text{Sb}_x\text{WO}_6$ nanorods. <i>Journal of Materials Science</i> , 2014 , 49, 2085-2097	4.3	18
200	Inorganic-organic Ag-rhodamine 6G hybrid nanorods: "turn on" fluorescent sensors for highly selective detection of Pb^{2+} ions in aqueous solution. <i>Analyst, The</i> , 2012 , 137, 760-4	5	18
199	Microstructure Characterization and Electrical Conductivity Measurement of $\text{La}_{1-x}\text{CaxCrO}_3$ ($x=0.25, 0.4, 0.5$) Prepared by Aspartic Acid-Assisted Solution Combustion. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 290-295	3.8	18
198	High pressure structural stability of BaLiF_3 . <i>Journal of Applied Physics</i> , 2011 , 110, 123505	2.5	18
197	Raman spectroscopic study of high-pressure behavior of $\text{Ag}_3[\text{Co}(\text{CN})_6]$. <i>Physical Review B</i> , 2011 , 84,	3.3	18
196	Room temperature exciton formation in SnO_2 nanocrystals in $\text{SiO}_2:\text{Eu}$ matrix: quantum dot system, heat-treatment effect. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 2634-8	1.3	18
195	Decrease of superparamagnetic fraction at room temperature in ultrafine CoFe_2O_4 particles by Ag doping. <i>Hyperfine Interactions</i> , 2008 , 184, 217-225	0.8	18
194	Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type $\text{Sr}_2\text{ZnGe}_2\text{O}_7$ at High Pressure and Delineation of a High-Pressure Monoclinic Phase. <i>Inorganic Chemistry</i> , 2015 , 54, 6594-605	5.1	17
193	Preparation and crystal structure of $\text{K}_2\text{Ce}(\text{PO}_4)_2$: a new complex phosphate of Ce(IV) having structure with one-dimensional channels. <i>Dalton Transactions</i> , 2016 , 45, 980-91	4.3	17
192	Stability of FeVO under Pressure: An X-ray Diffraction and First-Principles Study. <i>Inorganic Chemistry</i> , 2018 , 57, 7860-7876	5.1	17
191	Raman scattering study of bulk and nanocrystalline PbMoO_4 at high pressures. <i>Journal of Applied Physics</i> , 2012 , 112, 103510	2.5	17

190	Probing the Local Structure and Phase Transitions of Bi ₄ V ₂ O ₁₁ -Based Fast Ionic Conductors by Combined Raman and XRD Studies. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3448-3456	3.8	17
189	Interconversion of perovskite and fluorite structures in Ce-Sc-O system. <i>Inorganic Chemistry</i> , 2010 , 49, 1152-7	5.1	17
188	Thermally stimulated luminescence and electron paramagnetic resonance studies of Eu ³⁺ -doped yttrium borate. <i>Journal of Materials Research</i> , 2006 , 21, 1117-1123	2.5	17
187	Effect of Preparation Conditions on Magnetic and Dielectric Properties of Y ₂ MMnO ₆ (M = Co, Ni). <i>Journal of the American Ceramic Society</i> , 2016 , 99, 499-506	3.8	17
186	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. <i>Journal of Applied Physics</i> , 2017 , 122, 025902	2.5	16
185	Enhancement of ferromagnetic properties in Zn _{0.95} Co _{0.05} O nanoparticles by indium codoping: An experimental and theoretical study. <i>Applied Physics Letters</i> , 2010 , 97, 232510	3.4	16
184	An efficient robust fluorite CeZrO ₄ oxide catalyst for the eco-benign synthesis of styrene. <i>RSC Advances</i> , 2015 , 5, 3619-3626	3.7	15
183	Synthesis and structural and electrical investigations of a hexagonal Y(1-x)Gd(x)InO ₃ (0.0 ≤ x ≤ 1.0) system obtained via metastable C-type intermediates. <i>Inorganic Chemistry</i> , 2013 , 52, 13179-87	5.1	15
182	Eu ³⁺ and Dy ³⁺ doped YPO ₄ nanoparticles: low temperature synthesis and luminescence studies. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3034-9	1.3	15
181	Non-Debye to Debye transition of ac dielectric response in YCrO ₃ nanoceramic under sintering: effect of pore structure. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 345201	1.8	15
180	Highly sinter-active nanocrystalline RE ₂ O ₃ (RE = Gd, Eu, Dy) by a combustion process, and role of oxidant-to-fuel ratio in preparing their different crystallographic modifications. <i>Journal of Materials Research</i> , 2007 , 22, 587-594	2.5	15
179	Large negative thermal expansion and phase transition in (Pb _{1-x} Ca _x)TiO ₃ (0.30 ≤ x ≤ 0.45) ceramics. <i>Journal of Materials Research</i> , 2005 , 20, 350-356	2.5	15
178	On fluorine incorporation into YBa ₂ Cu ₃ O _{6.5+δ} <i>Journal of Materials Science Letters</i> , 1992 , 11, 1288-1290		15
177	Selective CO ₂ Photoreduction with Cu-Doped TiO ₂ Photocatalyst: Delineating the Crucial Role of Cu-Oxidation State and Oxygen Vacancies. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1793-1810	3.8	15
176	Structural Stability and Anharmonicity of PrTiO: Raman Spectroscopic and XRD Studies. <i>Inorganic Chemistry</i> , 2016 , 55, 11791-11800	5.1	14
175	Improved ionic conductivity in NdGdZr ₂ O ₇ : Influence of Sc ³⁺ substitution. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3221-3228	6	14
174	Soft modes and anharmonicity in H ₃ [Co(CN) ₆]: Raman spectroscopy and first-principles calculations. <i>Physical Review B</i> , 2015 , 92,	3.3	14
173	Tin oxide nanocrystals: controllable synthesis, characterization, optical properties and mechanistic insights into the formation process. <i>RSC Advances</i> , 2011 , 1, 903	3.7	14

172	Experimental and theoretical investigations on magnetic behavior of (Al,Co) co-doped ZnO nanoparticles. <i>Nanoscale</i> , 2010 , 2, 1505-11	7.7	14
171	A rare defect free 3D ZnO rod structure with strong UV emission. <i>CrystEngComm</i> , 2011 , 13, 2187	3.3	14
170	Mechanistic insight by in situ FTIR for the gas phase photo-oxidation of ethylene by V-doped titania and nano titania. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 5917-28	3.4	14
169	Luminescence studies on low temperature synthesized ZnGa ₂ O ₄ :Ln ³⁺ (Ln = Tb and Eu) nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5776-80	1.3	14
168	Palladium Supported on Fluorite Structured Redox CeZrO ₄ -IFor Heterogeneous Suzuki Coupling in Water: A Green Protocol. <i>ChemistrySelect</i> , 2016 , 1, 2673-2681	1.8	14
167	An insight into the effect of g-C ₃ N ₄ support on the enhanced performance of ZnS nanoparticles as anode material for lithium-ion and sodium-ion batteries. <i>Electrochimica Acta</i> , 2021 , 370, 137715	6.7	14
166	Phase Transformation, Vibrational and Electronic Properties of KCe(PO): A Combined Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2017 , 56, 3335-3348	5.1	13
165	Phonons and colossal thermal expansion behavior of Ag ₃ Co(CN) ₆ and Ag ₃ Fe(CN) ₆ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 505404	1.8	13
164	Tunable Ferromagnetism accompanied by Morphology Control in Li-doped Zn _{0.97} Ni _{0.03} O. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17428-17433	3.8	13
163	Borosilicate glasses modified with organic ligands: a new selective approach for the removal of uranyl ion. <i>Journal of Hazardous Materials</i> , 2008 , 154, 513-8	12.8	13
162	Facile One-Pot Synthesis of Intrinsically Radiolabeled and Cyclic RGD Conjugated 199Au Nanoparticles for Potential Use in Nanoscale Brachytherapy. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14337-14346	3.9	13
161	Rapid, Room Temperature Synthesis of Eu ³⁺ Doped NaBi(MoO ₄) ₂ Nanomaterials: Structural, Optical, and Photoluminescence Properties. <i>Crystal Growth and Design</i> , 2019 , 19, 3379-3388	3.5	12
160	Optimization of lithium content in LiFePO for superior electrochemical performance: the role of impurities.. <i>RSC Advances</i> , 2018 , 8, 1140-1147	3.7	12
159	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO. <i>Inorganic Chemistry</i> , 2017 , 56, 8363-8371	5.1	12
158	Photoelectrochemical properties of porous silicon based novel photoelectrodes. <i>Progress in Photovoltaics: Research and Applications</i> , 2011 , 19, 266-274	6.8	12
157	Ferroelectric and proton conducting behavior of a new elpasolite-related vanadium oxyfluoride (NH ₄ ,K) ₃ VO ₂ F ₄ . <i>Journal of Materials Research</i> , 2010 , 25, 1251-1263	2.5	12
156	Structural evolution of double perovskite Sr ₂ MgWO ₆ under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1773-1777	1.3	12
155	Effect of barium on diffusion of sodium in borosilicate glass. <i>Journal of Hazardous Materials</i> , 2008 , 156, 129-34	12.8	12

154	Synthesis of monophasic Ba ₂ Ti ₉ O ₂₀ through gel combustion. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1218-1221		12
153	Preparation of YBa ₂ F ₇ and its other rare-earth analogues. <i>Journal of Materials Science Letters</i> , 1992 , 11, 435-436		12
152	Role of phonons in negative thermal expansion and high pressure phase transitions in Eu ₂ cryptite: An ab-initio lattice dynamics and inelastic neutron scattering study. <i>Journal of Applied Physics</i> , 2017 , 121, 085106	2.5	11
151	Phonons, lithium diffusion and thermodynamics of LiMPO ₄ (M = Mn, Fe). <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14729-14738	1.3	11
150	High Temperature Structural, Dielectric, and Ion Conduction Properties of Orthorhombic InVO ₄ . <i>Journal of the American Ceramic Society</i> , 2013 , 96, 166-173	3.8	11
149	Interaction of bilirubin with Ag and Au ions: green synthesis of bilirubin-stabilized nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	11
148	Water dispersible Fe ₃ O ₄ nanoparticles carrying doxorubicin for cancer therapy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6344-8	1.3	11
147	Evolution of lattice dynamics in ferroelectric hexagonal REInO ₃ (RE = Ho, Dy, Tb, Gd, Eu, Sm) perovskites. <i>Materials Research Express</i> , 2016 , 3, 075703	1.7	11
146	Synthetic Na/K-birnessite for efficient management of Sr(II) from nuclear waste. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 7200-7213	6.8	11
145	Temperature dependent structural, vibrational and magnetic properties of KGd(PO ₄). <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6030-6041	3.6	10
144	Superionic conduction in Eu ₂ cryptite: inelastic neutron scattering and computational studies. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15512-15520	3.6	10
143	Separation of ⁹⁰ Sr from nuclear waste by crystalline complex phosphates of Ce(IV) and Zr(IV). <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2248-2261	6.8	10
142	Kinetic modeling: dependence of structural and sorption properties of ZnO crucial role of synthesis. <i>RSC Advances</i> , 2013 , 3, 3365	3.7	10
141	Photodegradation of methanol under UV-visible irradiation by titania dispersed on polyester cloth. <i>Photochemistry and Photobiology</i> , 2010 , 86, 241-6	3.6	10
140	Sonochemical synthesis of lanthanide ions doped CeF ₃ nanoparticles: potential materials for solid state lighting devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4715-20	1.3	10
139	Template-Assisted Synthesis of Room-Temperature Ferromagnetic Mn-Doped ZnO: First Example of a High-Temperature Synthesis Using Polystyrene. <i>Crystal Growth and Design</i> , 2009 , 9, 1944-1948	3.5	10
138	White light emission from spin coated Gd ₂ O ₃ :Dy nano phosphors synthesized using polyol technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 8234-8	1.3	10
137	Template-based fabrication of Ag/ZnO core-shell nanorod arrays. <i>Journal of Crystal Growth</i> , 2010 , 312, 2724-2728	1.6	10

136	Structural study of La(0.75)Sr(0.25)CrO(3) at high temperatures. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 8661-72	1.8	10
135	Phase transition in disordered ferroelectric ceramic Pb _{0.70} Ca _{0.30} TiO ₃ under pressure. <i>Applied Physics Letters</i> , 2007 , 90, 142903	3.4	10
134	Nanocrystalline GdFeO ₃ via the gel-combustion process. <i>Journal of Materials Research</i> , 2005 , 20, 2654-2659	6.59	10
133	Effects of Gold Nanoparticles on Rheology of Nanofluids Containing Poly(vinylidene fluoride) Molecules. <i>Journal of Nanofluids</i> , 2012 , 1, 120-127	2.2	10
132	Structural and Thermal Properties of BaTe ₂ O ₆ : Combined Variable-Temperature Synchrotron X-ray Diffraction, Raman Spectroscopy, and ab Initio Calculations. <i>Inorganic Chemistry</i> , 2016 , 55, 8994-9005	5.1	10
131	Investigating the effect of material microstructure and irradiation temperature on the radiation tolerance of yttria stabilized zirconia against high energy heavy ions. <i>Journal of Applied Physics</i> , 2019 , 125, 115902	2.5	9
130	Study of Phase Transformation in BaTe ₂ O ₆ by in Situ High-Pressure X-ray Diffraction, Raman Spectroscopy, and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2016 , 55, 227-38	5.1	9
129	Sorption of plutonium from low level liquid waste using nano MnO ₂ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 295, 1561-1566	1.5	9
128	Structural and Luminescence Studies on Barium Sodium Borosilicate Glasses Containing Uranium Oxides. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 427-431	3.8	9
127	Gas-phase photooxidation of alkenes by V-doped TiO ₂ -MCM-41: mechanistic insights of ethylene photooxidation and understanding the structure-activity correlation. <i>Chemistry - A European Journal</i> , 2011 , 17, 12310-25	4.8	9
126	A rapid method for the synthesis of nitrogen doped TiO ₂ nanoparticles for photocatalytic hydrogen generation. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4663-7	1.3	9
125	Disorder-induced room temperature ferromagnetism in glassy chromites. <i>Scientific Reports</i> , 2014 , 4, 4686	4.9	8
124	Rare earth indates (RE: La-Yb): influence of the synthesis route and heat treatment on the crystal structure. <i>Dalton Transactions</i> , 2018 , 47, 6787-6799	4.3	8
123	High pressure phase transitions in NdVO ₄ 2015 ,		8
122	Synthesis and photocatalytic activity of nano V-doped TiO ₂ particles in MCM-41 under UV-visible irradiation. <i>Journal of Materials Research</i> , 2010 , 25, 125-133	2.5	8
121	High pressure behavior of ZrGeO ₄ : A Raman spectroscopic and photoluminescence study. <i>Journal of Applied Physics</i> , 2009 , 106, 123517	2.5	8
120	Improvement of physico-chemical properties by addition of H ₂ O ₂ : An extensive case study on the RE-doped ceria system (RE = Gd, Sm. <i>Journal of Materials Research</i> , 2009 , 24, 2845-2854	2.5	8
119	Development of a micro electrochemical cell for in-situ deposition of ⁶³ Ni for use in electron capture detector (ECD) in gas chromatography. <i>Radiochimica Acta</i> , 2011 , 99, 733-741	1.9	8

118	Investigations on silicon/amorphous-carbon and silicon/nanocrystalline palladium/amorphous-carbon interfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4295-302	1.3	8
117	Magnetic and Mössbauer studies on nanocrystalline $\text{Co}_{1-x}\text{Li}_x\text{Fe}_2\text{O}_4$ ($x = 0, 0.2$). <i>Hyperfine Interactions</i> , 2008 , 184, 227-233	0.8	8
116	Controlled in situ boron doping of diamond thin films using solution phase. <i>Journal of Applied Physics</i> , 2006 , 100, 124506	2.5	8
115	Nano crystalline ceria-neodymia solid solutions by combustion route: effect of agglomeration on powder properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3214-20	1.3	8
114	Comment on high-quality luminescent tellurium nanowires of several nanometers in diameter and high aspect ratio synthesized by a poly (vinyl pyrrolidone)-assisted hydrothermal process. <i>Langmuir</i> , 2007 , 23, 10873	4	8
113	Anchoring Silver with Poly(vinylidene fluoride) Molecules in Model Flocculates and Its Effects on Rheology in Stable Nanofluids. <i>Journal of Nanofluids</i> , 2013 , 2, 249-260	2.2	8
112	Morphological study of SiC coating developed on 2D carbon composites using MTS precursor in a hot-wall vertical reactor. <i>International Journal of Materials Research</i> , 2012 , 103, 1251-1256	0.5	8
111	Corundum type indium oxide nanostructures: ambient pressure synthesis from InOOH, and optical and photocatalytic properties. <i>RSC Advances</i> , 2016 , 6, 108393-108403	3.7	8
110	Sorption of americium from low-level liquid wastes by nanocrystalline MnO ₂ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014 , 299, 1433-1437	1.5	7
109	Multifunctional hybrid structures of ferromagnetic FePt and ferroelectric BaTiO ₃ nanoparticles: facile synthesis and characterization. <i>RSC Advances</i> , 2013 , 3, 596-602	3.7	7
108	Phase transitions in delafossite CuLaO ₂ at high pressures. <i>Journal of Applied Physics</i> , 2014 , 115, 133507	2.5	7
107	Reappearance of ferroelectric soft modes in the paraelectric phase of Pb(1-x)Ca(x)TiO ₃ at high pressures: Raman and x-ray diffraction studies. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 115404	1.8	7
106	High-temperature phonon spectra of multiferroic BiFeO ₃ from inelastic neutron spectroscopy. <i>Applied Physics Letters</i> , 2012 , 100, 142901	3.4	7
105	Synthesis, characterization and photocatalytic H ₂ generation over ternary indium titanate nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 1957-66	1.3	7
104	Piezoelectric inkjet printed films and patterns of ZnO and Mn doped ZnO: formation of bifunctional Zn _{0.98} Mn _{0.02} O films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12246		7
103	Crystal structure, electrical, and thermal properties of Ca _{0.5} Th _{0.5} VO ₄ . <i>Journal of Materials Research</i> , 2009 , 24, 3551-3558	2.5	7
102	Room Temperature Ferromagnetism and Lack of Ferroelectricity in Thin films of Biferroic? YbCrO ₃ . <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1161, 7041		7
101	Why Do Relative Intensities of Charge Transfer and Intra-4f Transitions of Eu Ion Invert in Yttrium Germanate Hosts? Unravelling the Underlying Intricacies from Experimental and Theoretical Investigations. <i>Inorganic Chemistry</i> , 2020 , 59, 12659-12671	5.1	7

100	High temperature crystallographic and thermodynamic investigations on synthetic calzirtite (Ca ₂ Zr ₅ Ti ₂ O ₁₆). <i>Journal of Alloys and Compounds</i> , 2016 , 682, 284-293	5.7	7
99	Phase-dependent radiation-resistant behavior of BaTiO ₃ : An in situ X-ray diffraction study. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4263-4269	3.8	6
98	High-temperature crystallographic and thermodynamic investigations on synthetic zirconolite (CaZrTi ₂ O ₇). <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 2709-2718	4.1	6
97	High Pressure Phases and Amorphization of a Negative Thermal Expansion Compound TaVO. <i>Inorganic Chemistry</i> , 2018 , 57, 6973-6980	5.1	6
96	Possible weak ferromagnetism in pure and M (Mn, Cu, Co, Fe and Tb) doped NiGa ₂ O ₄ nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3363-9	1.3	6
95	Nanocrystalline gadolinium doped ceria: combustion synthesis and electrical characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3075-83	1.3	6
94	Growth of aligned ZnO nanorod arrays from an aqueous solution: effect of additives and substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 10379-86	1.3	6
93	Synthesis, Structural Characterization and Thermal Stability of Nanocrystalline Rare-Earth Chromates (RECrO ₄) and Rare-Earth Chromites (RECrO ₃). <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 648-654	0.8	6
92	Cation disorder and structural studies on Bi _{4-x} Nd _x Ti ₃ O ₁₂ (0.0 ≤ x ≤ 0.0) 2008 , 71, 935-940		6
91	A facile synthesis of CuInS ₂ nanoparticles from molecular single source precursors. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 4353-8	1.3	6
90	Powder X-ray diffraction data of a new polymorph of HfMo ₂ O ₈ . <i>Powder Diffraction</i> , 2003 , 18, 147-149	1.8	6
89	Role of size of rare earth ion in the homogeneity range of RE ₃ BE ₂ O ₃ (RE = La, Nd, Y) systems. <i>Journal of Materials Science Letters</i> , 1995 , 14, 1502-1504		6
88	Experimental and Theoretical Study on rGO-Decorated Mo ₂ C Composite as the Anode Material for Lithium Ion Batteries. <i>Energy & Fuels</i> , 2021 , 35, 12556-12568	4.1	6
87	Experimental and theoretical investigation of the high dielectric permittivity of tantalum doped titania. <i>New Journal of Chemistry</i> , 2017 , 41, 13067-13075	3.6	5
86	Pressure-Induced Hexagonal to Monoclinic Phase Transition of Partially Hydrated CePO. <i>Inorganic Chemistry</i> , 2019 , 58, 4480-4490	5.1	5
85	Structural manipulation and tailoring of dielectric properties in SrTi _{1-x} FexTaxO ₃ perovskites: Design of new lead free relaxors. <i>Scientific Reports</i> , 2016 , 6, 23400	4.9	5
84	Spin-phonon coupling in scandium doped gallium ferrite. <i>Journal of Applied Physics</i> , 2015 , 117, 123915	2.5	5
83	Fe ₃ O ₄ @SiO ₂ core-shell nanoparticles: Synthesis, characterization and application in environmental remediation 2014 ,		5

82	Sequential evolution of different phases in metastable Gd(2-x)Ce(x)Zr(2-x)Al(x)O7 (0.0 ≤ x ≤ 2.0) system: crucial role of reaction conditions. <i>Inorganic Chemistry</i> , 2013 , 52, 7873-80	5.1	5
81	Structural phase transition in lanthanum gallate as studied by Raman and X-ray diffraction measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 1884-1893	1.3	5
80	Room temperature ferromagnetism in Ce(1-x)Fe(x)O(2-delta) (x = 0.0, 0.05, 0.10, 0.15 and 0.20) nanoparticles synthesised by combustion method. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2299-303	1.3	5
79	Evaluation of Nickel Sulphide Prepared by Different Routes for Removal of 106Ru from Alkaline Radioactive Liquid Waste. <i>Separation Science and Technology</i> , 2010 , 45, 2064-2075	2.5	5
78	Correlation of phase transition with the change in TL characteristics in CaSO4:Dy phosphor--effect of thermal treatment. <i>Radiation Protection Dosimetry</i> , 2006 , 119, 139-42	0.9	5
77	A neutron diffraction study on ceria-neodia solid solutions. <i>Powder Diffraction</i> , 2006 , 21, 36-39	1.8	5
76	Powder XRD study of Ba4Eu3F17: A new anion rich fluorite related mixed fluoride. <i>Powder Diffraction</i> , 2002 , 17, 225-229	1.8	5
75	Pressure and Temperature Dependent Structural Studies on Hollandite Type Ferrotitanate and Crystal Structure of a High Pressure Phase. <i>Inorganic Chemistry</i> , 2018 , 57, 2157-2168	5.1	4
74	Phase evolution and oxide ion conduction behavior of Dy1-xBixO1.5 (0.00 ≤ x ≤ 0.50) composite system. <i>RSC Advances</i> , 2013 , 3, 236	3.7	4
73	Effect of Synthesis Protocol on the Surface Charge of Zinc Oxide Nanoparticles and its Consequence on Sorption Ability. <i>Separation Science and Technology</i> , 2015 , 50, 404-410	2.5	4
72	White Light Emission from Microwave Synthesized Spin Coated Gd2O3:Dy:Tb Nano Phosphors. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2012 , 82, 53-57	0.9	4
71	Magnetic Behavior of Gallium Doped Zn0.95Co0.05O Nanoparticles. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 140-145	0.8	4
70	Development of LiMgBO3:Tb3+ as a new generation material for thermoluminescence based personnel neutron dosimetry. <i>Materials Advances</i> , 2021 ,	3.3	4
69	Revealing magnetic ordering and spin-phonon coupling in Y Tb MnO (0.1 ≤ x ≤ 0.3) compounds. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 155804	1.8	3
68	Decontamination of discharged aluminum brass condenser tubes of a BWR: evolving the chemical formulation for copper oxide dissolution. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 307, 217-223	1.5	3
67	An electrochemical technique to prepare 55Fe source for the calibration of the X-ray detectors. <i>Radiochimica Acta</i> , 2013 , 101, 185-194	1.9	3
66	Ionic transport behavior of BaO containing sodium borosilicate glasses. <i>Journal of Hazardous Materials</i> , 2009 , 161, 1450-3	12.8	3
65	Inkjet Printed Films and Patterns of Undoped and Co Doped ZnO Using Solvent Based Precursor Inks. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 136-139	0.8	3

64	Transition Metal Oxide Nanoparticles as Potential Room Temperature Sorbents. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 693-700	0.8	3
63	Nanocrystalline HoCrO ₄ : facile synthesis and magnetic properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 501-5	1.3	3
62	Amorphization-decomposition behavior of HfW ₂ O ₈ at high pressure. <i>Journal of Applied Physics</i> , 2008 , 104, 063506	2.5	3
61	Neutron diffraction studies on Ca _{1-x} Ba _x Zr ₄ P ₆ O ₂₄ solid solutions 2008 , 71, 941-946		3
60	Crystal structure of low-cristobalite-type Al _{0.5} Ga _{0.5} PO ₄ : A combined Rietveld refinement of neutron and X-ray diffraction data. <i>Powder Diffraction</i> , 2005 , 20, 207-211	1.8	3
59	Structural elucidation of stabilized tetragonal ThSiO ₄ : A neutron diffraction study. <i>Powder Diffraction</i> , 2005 , 20, 215-217	1.8	3
58	Synthesis and characterization of mixed fluorides with PbF ₂ and ScF ₃ . <i>Powder Diffraction</i> , 2005 , 20, 254-258		3
57	Synthesis and structural elucidation of Ba ₄ Nd ₃ F ₁₇ : A powder XRD study. <i>Powder Diffraction</i> , 2002 , 17, 326-330	1.8	3
56	The effect of pressure and temperature on nanocrystalline α -AlF ₃ . <i>Journal of Materials Science Letters</i> , 2000 , 19, 1305-1306		3
55	Diffusion of sodium ions in amorphous Na ₂ Si ₂ O ₅ : Quasielastic neutron scattering and ab initio molecular dynamics simulations. <i>Physical Review Materials</i> , 2020 , 4,	3.2	3
54	Ferromagnetism in Mn Doped ZnO Nanoparticles: An EPR Study. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 584-590	0.8	3
53	Corrosion of Borosilicate Glasses Subjected to Aggressive Test Conditions: Structural Investigations. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3251-3259	3.8	3
52	Role of surface functionalization of ZnO nanoparticles as sorbents for heavy metal ions. <i>Separation Science and Technology</i> , 2020 , 55, 1922-1931	2.5	3
51	Birnessite: A New-Generation and Cost Effective Ion Exchange Material for Separation of Clinical-Grade ⁹⁰ Y from ⁹⁰ Sr/ ⁹⁰ Y Mixture. <i>ChemistrySelect</i> , 2018 , 3, 10670-10676	1.8	3
50	Insights into the Effect of Particle Size on the Low Energy Radiation Response of Ceria. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15489-15499	3.8	2
49	Phase characterization and thermal study of SrF ₂ and NdF ₃ doped fluoride salt containing 78 mol% LiF \cdot 0 mol% ThF ₄ \cdot 0 mol% UF ₄ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 314, 1267-1271	1.5	2
48	Recovery and purification of Sr(II) in perchloric acid medium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013 , 295, 1737-1742	1.5	2
47	Evaluation of Metal Antimonate Compounds for the Removal of Radiostrontium from Radioactive Liquid Waste: Characterization and Sorption Behavior. <i>Separation Science and Technology</i> , 2011 , 46, 1776-1787	2.5	2

46	Comment On 1D Tellurium Nanostructures: Photothermally Assisted Morphology-Controlled Synthesis and Applications in Preparing Functional Nanoscale Materials <i>Advanced Functional Materials</i> , 2009 , 19, 3191-3192	15.6	2
45	Defect stabilization in ZnO nanorods by Mg ²⁺ doping. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3273-7	1.3	2
44	Study of the oxidation state and the structural aspects of the V-doped TiO ₂ . <i>Journal of Applied Physics</i> , 2009 , 106, 093503	2.5	2
43	Effects of sintering on microstructure and dielectric response in YCrO ₃ nanoceramic 2008 , 71, 959-963		2
42	Nanocrystalline Electroceramics by Combustion Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2007 , 37, 321-326		2
41	Structural stability of orthorhombic and rhombohedral La _{0.75} Nd _{0.25} CrO ₃ : a high-temperature neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 216207	1.8	2
40	Neutron diffraction study of La _{1-x} Nd _x CrO ₃ for x=0.0, 0.05, 0.1, 0.2, and 0.25. <i>Powder Diffraction</i> , 2003 , 18, 285-287	1.8	2
39	Synthesis and Rietveld refinements of monoclinic Er ₂ BaF ₈ . <i>Powder Diffraction</i> , 2004 , 19, 265-269	1.8	2
38	Controlling the luminescence in K ₂ Th(PO ₄) ₂ :Eu ³⁺ by energy transfer and excitation photon: a multicolor emitting phosphor. <i>New Journal of Chemistry</i> , 2020 , 44, 14703-14711	3.6	2
37	A new strategic approach to modify electrode and electrolyte for high performance LiS battery. <i>Journal of Power Sources</i> , 2021 , 488, 229456	8.9	2
36	Simultaneous quantification of low Z elements in phosphorus containing alkali borosilicate glass samples by in situ Current normalized external (in air) PIGE method utilizing proton beam from FOTIA. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , 328, 519-526	1.5	2
35	Mo-substituted CeVO ₄ system: solid solution formation and implications on sorption behaviour. <i>Journal of Materials Science</i> , 2020 , 55, 5690-5704	4.3	1
34	Synthesis, Characterization and Exploration of Multiferroic Properties in Nano-Crystalline Tb _{1-x} Y _x MnO ₃ (0 ≤ x ≤ 0.4). <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 4094-9	1.3	1
33	Tuning of magnetic ordering by Y substitution onto Tb site in the nanocrystalline TbMnO ₃ . <i>Journal of Applied Physics</i> , 2015 , 118, 164307	2.5	1
32	Raman spectroscopic studies of Pr ₂ Ti ₂ O ₇ at high pressures 2015 ,		1
31	Phase evolution studies in CaZrTi ₂ O ₇ RE ₂ Ti ₂ O ₇ (RE = Nd ³⁺ , Sm ³⁺) system: Futuristic ceramic host matrices for nuclear waste immobilization 2014 ,		1
30	Pressure dependent phase transitions in (Pb,Ca)TiO ₃ : Determination of structure using high pressure synchrotron X-ray and Raman studies. <i>Journal of Electroceramics</i> , 2011 , 26, 191-199	1.5	1
29	Diffraction and Thermal Expansion of Solids 2010 , 197-267		1

28	STRUCTURE AND MAGNETIC PROPERTIES OF Co-DOPED SnO ₂ NANOWIRES. <i>International Journal of Nanoscience</i> , 2011 , 10, 967-971	0.6	1
27	Sonochemical synthesis of doped CeF ₃ nanoparticles exhibiting room temperature ferromagnetism and white light emission. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4981-7	1.3	1
26	Formation of water soluble complexes of : solid-state reaction between tertiary amines and. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996 , 29, 5015-5021	1.3	1
25	Powder X-ray diffraction study of a new polymorph of Al ₂ (WO ₄) ₃ . <i>Powder Diffraction</i> , 2006 , 21, 63-66	1.8	1
24	X-ray powder diffraction data and thermal stability of a new high temperature phase of NaBi ₃ V ₂ O ₁₀ . <i>Powder Diffraction</i> , 2005 , 20, 51-57	1.8	1
23	A neutron diffraction study on a typical highly defective ceria/yttria solid solution. <i>Powder Diffraction</i> , 2002 , 17, 278-280	1.8	1
22	Preparation, thermal and magnetic properties of Mn ₅ (HPO ₄) ₂ (PO ₄) ₂ ·4H ₂ O 2015 ,		1
21	Polysulfone-Gd ₂ Zr ₂ O ₇ mixed-matrix membranes with superior radiation resistant properties: Fabrication and application of a membrane device for radioactive effluent treatment. <i>Chemical Engineering Journal Advances</i> , 2020 , 1, 100006	3.6	1
20	Preparation, thermal stability and crystal structure of Li ₃ UF ₇ : New insights into LiF-UF ₄ binary phase diagram. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 158181	5.7	1
19	Superior electrochemical performance of MoS ₂ decorated on functionalized carbon nanotubes as anode material for sodium ion battery. <i>Carbon Trends</i> , 2021 , 5, 100103	0	1
18	Luminescence properties of SnO ₂ nanoparticles dispersed in Eu ³⁺ doped SiO ₂ matrix. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1489-93	1.3	1
17	A brief review on the effect of preparation conditions on magnetic properties of some A ₂ MMnO ₆ (A = La, Eu and Y; M = Mg, Co, Ni) type perovskites. <i>Journal of Chemical Sciences</i> , 2019 , 131, 1	1.8	0
16	Thermodynamic investigations on K ₃ Ln ₅ (PO ₄) ₆ (Ln = Eu and Gd) compounds. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 936-943	5.7	0
15	Stoichiometric tuning of lattice flexibility and Na diffusion in NaAlSiO ₄ : quasielastic neutron scattering experiment and ab initio molecular dynamics simulations. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16129-16136	13	0
14	Nanocrystalline La _{0.84} Sr _{0.16} MnO ₃ and NiO-YSZ by Combustion of Metal Nitrate-Citric Acid/Glycine Gel [Phase Evolution and Powder Characteristics. <i>Transactions of the Indian Ceramic Society</i> , 2013 , 72, 182-190	1.8	
13	Nd ₂ CuO ₄ ·xH ₂ O System Revisited. <i>Journal of Materials Science Letters</i> , 1998 , 17, 1597-1599		
12	Small-angle neutron scattering investigations on sintering behavior of combustion synthesized La _{0.8} Sr _{0.2} CrO ₃ . <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 2157-62	1.3	
11	Small angle neutron scattering study of pore microstructure in ceria compacts 2008 , 71, 1057-1061		

- | | | |
|----|---|-----|
| 10 | Nanostructured La(Sr)CrO ₃ through gel combustion: sintering and electrical behavior. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2904-8 | 1.3 |
| 9 | Investigations of Ternary Phase Relations in a CeO ₂ -d ₂ O ₃ -h ₂ O System. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060628061644002-??? | 3.8 |
| 8 | Electron paramagnetic resonance, photo-acoustic spectroscopy and thermally stimulated luminescence for identification of thermally stimulated processes in gamma-irradiated LaBa ₂ F ₇ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2002 , 254, 227-230 | 1.5 |
| 7 | Substitutional solid solutions in the La _{1-x} Gd _x Ba ₂ F ₇ system. <i>Journal of Materials Science Letters</i> , 1994 , 13, 752-753 | |
| 6 | Synthesis of Materials with Unusual Oxidation State. <i>Indian Institute of Metals Series</i> , 2021 , 137-158 | 0.3 |
| 5 | Structure-modulated ionic transport behavior in zirconia-dysprosia mixed oxides. <i>Journal of Materials Science</i> , 2016 , 51, 6711-6721 | 4.3 |
| 4 | Variation of structural disorder in Zr substituted Y ₂ Sn ₂ O ₇ : Its impact on photocatalysis. <i>Journal of Solid State Chemistry</i> , 2021 , 303, 122472 | 3.3 |
| 3 | Solid State Synthesis of Materials. <i>Indian Institute of Metals Series</i> , 2021 , 1-49 | 0.3 |
| 2 | Nanocrystalline ceria powders through citrate-nitrate combustion. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 209-14 | 1.3 |
| 1 | Synthesis of nanocrystalline La(Ca)CrO ₃ through a novel gel combustion process and its characterization. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 756-61 | 1.3 |