

# Avesh Tyagi

## List of Publications by Year in Descending Order

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

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	Synthesis of Materials with Unusual Oxidation State. <i>Indian Institute of Metals Series</i> , <b>2021</b> , 137-158	0.3	
314	A new strategic approach to modify electrode and electrolyte for high performance LiB battery. <i>Journal of Power Sources</i> , <b>2021</b> , 488, 229456	8.9	2
313	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> , <b>2021</b> , 328, 519-526	1.5	2
312	Preparation, thermal stability and crystal structure of Li <sub>3</sub> UF <sub>7</sub> : New insights into LiF-UF <sub>4</sub> binary phase diagram. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 856, 158181	5.7	1
311	Development of LiMgBO <sub>3</sub> :Tb <sup>3+</sup> as a new generation material for thermoluminescence based personnel neutron dosimetry. <i>Materials Advances</i> , <b>2021</b> ,	3.3	4
310	Stoichiometric tuning of lattice flexibility and Na diffusion in NaAlSiO <sub>4</sub> : quasielastic neutron scattering experiment and ab initio molecular dynamics simulations. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16129-16136	13	0
309	An insight into the effect of g-C <sub>3</sub> N <sub>4</sub> support on the enhanced performance of ZnS nanoparticles as anode material for lithium-ion and sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 370, 137715	6.7	14
308	Experimental and Theoretical Study on rGO-Decorated Mo <sub>2</sub> C Composite as the Anode Material for Lithium Ion Batteries. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 12556-12568	4.1	6
307	Superior electrochemical performance of MoS <sub>2</sub> decorated on functionalized carbon nanotubes as anode material for sodium ion battery. <i>Carbon Trends</i> , <b>2021</b> , 5, 100103	0	1
306	Variation of structural disorder in Zr substituted Y <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> : Its impact on photocatalysis. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 303, 122472	3.3	
305	Solid State Synthesis of Materials. <i>Indian Institute of Metals Series</i> , <b>2021</b> , 1-49	0.3	
304	Selective CO <sub>2</sub> Photoreduction with Cu-Doped TiO <sub>2</sub> Photocatalyst: Delineating the Crucial Role of Cu-Oxidation State and Oxygen Vacancies. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 1793-1810	3.8	15
303	Insights into the Effect of Particle Size on the Low Energy Radiation Response of Ceria. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15489-15499	3.8	2
302	Mo-substituted CeVO <sub>4</sub> system: solid solution formation and implications on sorption behaviour. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 5690-5704	4.3	1
301	Diffusion of sodium ions in amorphous Na <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> : Quasielastic neutron scattering and ab initio molecular dynamics simulations. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	3
300	Polysulfone-Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> 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> , <b>2020</b> , 1, 100006	3.6	1
299	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> , <b>2020</b> , 59, 12659-12671	5.1	7

298	Controlling the luminescence in $K_2Th(PO_4)_2:Eu^{3+}$ by energy transfer and excitation photon: a multicolor emitting phosphor. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14703-14711	3.6	2
297	Role of surface functionalization of ZnO nanoparticles as sorbents for heavy metal ions. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 1922-1931	2.5	3
296	Rapid, Room Temperature Synthesis of $Eu^{3+}$ Doped $NaBi(MoO_4)_2$ Nanomaterials: Structural, Optical, and Photoluminescence Properties. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 3379-3388	3.5	12
295	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> , <b>2019</b> , 125, 115902	2.5	9
294	Pressure-Induced Hexagonal to Monoclinic Phase Transition of Partially Hydrated CePO. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 4480-4490	5.1	5
293	A brief review on the effect of preparation conditions on magnetic properties of some $A_2MMnO_6$ (A = La, Eu and Y; M = Mg, Co, Ni) type perovskites. <i>Journal of Chemical Sciences</i> , <b>2019</b> , 131, 1	1.8	0
292	Thermodynamic investigations on $K_3Ln_5(PO_4)_6$ (Ln = Eu and Gd) compounds. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 771, 936-943	5.7	0
291	Pressure and Temperature Dependent Structural Studies on Hollandite Type Ferrotitanate and Crystal Structure of a High Pressure Phase. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 2157-2168	5.1	4
290	High-temperature crystallographic and thermodynamic investigations on synthetic zirconolite ( $CaZrTi_2O_7$ ). <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 131, 2709-2718	4.1	6
289	Optimization of lithium content in $LiFePO_4$ for superior electrochemical performance: the role of impurities.. <i>RSC Advances</i> , <b>2018</b> , 8, 1140-1147	3.7	12
288	Rare earth indates (RE: La-Yb): influence of the synthesis route and heat treatment on the crystal structure. <i>Dalton Transactions</i> , <b>2018</b> , 47, 6787-6799	4.3	8
287	Separation of $^{90}Sr$ from nuclear waste by crystalline complex phosphates of Ce(IV) and Zr(IV). <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 2248-2261	6.8	10
286	Role of palladium crystallite size on CO oxidation over $CeZrO_4$ -supported Pd catalysts. <i>Molecular Catalysis</i> , <b>2018</b> , 455, 1-5	3.3	23
285	High Pressure Phases and Amorphization of a Negative Thermal Expansion Compound $TaVO_5$ . <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 6973-6980	5.1	6
284	Stability of $FeVO_4$ under Pressure: An X-ray Diffraction and First-Principles Study. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 7860-7876	5.1	17
283	Synthetic Na/K-birnessite for efficient management of Sr(II) from nuclear waste. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 7200-7213	6.8	11
282	Facile One-Pot Synthesis of Intrinsically Radiolabeled and Cyclic RGD Conjugated $^{199}Au$ Nanoparticles for Potential Use in Nanoscale Brachytherapy. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 14337-14346	3.9	13
281	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> , <b>2018</b> , 3, 10670-10676	1.8	3

280	Solution combustion synthesis, energy and environment: Best parameters for better materials. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2018</b> , 64, 23-61	3.5	133
279	Temperature dependent structural, vibrational and magnetic properties of KGd(PO). <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 6030-6041	3.6	10
278	Revealing magnetic ordering and spin-phonon coupling in Y Tb MnO (0.1 ? x ? 0.3) compounds. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 155804	1.8	3
277	Phase Transformation, Vibrational and Electronic Properties of KCe(PO): A Combined Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 3335-3348	5.1	13
276	Phase-dependent radiation-resistant behavior of BaTiO <sub>3</sub> : An in situ X-ray diffraction study. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 4263-4269	3.8	6
275	Superionic conduction in Æucryptite: inelastic neutron scattering and computational studies. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15512-15520	3.6	10
274	Role of phonons in negative thermal expansion and high pressure phase transitions in Æucryptite: An ab-initio lattice dynamics and inelastic neutron scattering study. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 085106	2.5	11
273	Experimental and theoretical investigation of the high dielectric permittivity of tantalum doped titania. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 13067-13075	3.6	5
272	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> , <b>2017</b> , 122, 025902	2.5	16
271	Phase characterization and thermal study of SrF <sub>2</sub> and NdF <sub>3</sub> doped fluoride salt containing 78 mol% LiF $\bar{2}$ 0 mol% ThF $\bar{4}$ $\bar{2}$ mol% UF <sub>4</sub> . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2017</b> , 314, 1267-1271	1.5	2
270	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 8363-8371	5.1	12
269	Structural manipulation and tailoring of dielectric properties in SrTi <sub>1-x</sub> FexTaO <sub>3</sub> perovskites: Design of new lead free relaxors. <i>Scientific Reports</i> , <b>2016</b> , 6, 23400	4.9	5
268	Structural Stability and Anharmonicity of PrTiO: Raman Spectroscopic and XRD Studies. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 11791-11800	5.1	14
267	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> , <b>2016</b> , 307, 217-223	1.5	3
266	Synthesis, Characterization and Exploration of Multiferroic Properties in Nano-Crystalline Tb <sub>1-x</sub> Y <sub>x</sub> MnO <sub>3</sub> (0 $\bar{x}$ $\bar{1}$ .4). <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 4094-9	1.3	1
265	Study of Phase Transformation in BaTe <sub>2</sub> O <sub>6</sub> by in Situ High-Pressure X-ray Diffraction, Raman Spectroscopy, and First-Principles Calculations. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 227-38	5.1	9
264	Phase evolution in sonochemically synthesized Fe(3+) doped BaTiO <sub>3</sub> nanocrystallites: structural, magnetic and ferroelectric characterisation. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 9758-69	3.6	45
263	Enhancement of dielectric, ferroelectric and magneto-dielectric properties in PVDFBaFe <sub>12</sub> O <sub>19</sub> composites: a step towards miniaturized electronic devices. <i>RSC Advances</i> , <b>2016</b> , 6, 16073-16080	3.7	45

262	Multiferroic PVDF/BiFeO <sub>3</sub> hybrid films with reduced graphene oxide and ZnO nanofillers. <i>RSC Advances</i> , <b>2016</b> , 6, 20089-20094	3.7	35
261	Preparation and crystal structure of K <sub>2</sub> Ce(PO <sub>4</sub> ) <sub>2</sub> : a new complex phosphate of Ce(IV) having structure with one-dimensional channels. <i>Dalton Transactions</i> , <b>2016</b> , 45, 980-91	4.3	17
260	Corrosion of Borosilicate Glasses Subjected to Aggressive Test Conditions: Structural Investigations. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 3251-3259	3.8	3
259	Effect of Preparation Conditions on Magnetic and Dielectric Properties of Y <sub>2</sub> MnO <sub>6</sub> (M = Co, Ni). <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 499-506	3.8	17
258	Corundum type indium oxide nanostructures: ambient pressure synthesis from InOOH, and optical and photocatalytic properties. <i>RSC Advances</i> , <b>2016</b> , 6, 108393-108403	3.7	8
257	High temperature crystallographic and thermodynamic investigations on synthetic calzirtite (Ca <sub>2</sub> Zr <sub>5</sub> Ti <sub>2</sub> O <sub>16</sub> ). <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 682, 284-293	5.7	7
256	Structure-modulated ionic transport behavior in zirconia-dysprosia mixed oxides. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6711-6721	4.3	
255	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO <sub>4</sub> . <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 4958-69	5.1	47
254	Utilizing non-stoichiometry in Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> pyrochlore: exploring superior ionic conductors. <i>RSC Advances</i> , <b>2016</b> , 6, 97566-97579	3.7	23
253	Enhancement of dielectric constant in a niobium doped titania system: an experimental and theoretical study. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 9526-9536	3.6	20
252	Palladium Supported on Fluorite Structured Redox CeZrO <sub>4</sub> -F for Heterogeneous Suzuki Coupling in Water: A Green Protocol. <i>ChemistrySelect</i> , <b>2016</b> , 1, 2673-2681	1.8	14
251	Structural and Thermal Properties of BaTe <sub>2</sub> O <sub>6</sub> : Combined Variable-Temperature Synchrotron X-ray Diffraction, Raman Spectroscopy, and ab Initio Calculations. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 8994-9005	5.1	10
250	Evolution of lattice dynamics in ferroelectric hexagonal REInO <sub>3</sub> (RE = Ho, Dy, Tb, Gd, Eu, Sm) perovskites. <i>Materials Research Express</i> , <b>2016</b> , 3, 075703	1.7	11
249	Enhancement of dielectric permittivity and ferroelectricity of a modified cobalt nanoparticle and polyvinylidene fluoride based composite. <i>RSC Advances</i> , <b>2015</b> , 5, 8591-8597	3.7	33
248	Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type Sr <sub>2</sub> ZnGe <sub>2</sub> O <sub>7</sub> at High Pressure and Delineation of a High-Pressure Monoclinic Phase. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 6594-605	5.1	17
247	Structural and electrical properties of layered perovskite type Pr <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> : experimental and theoretical investigations. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 4570-4584	7.1	34
246	Inelastic neutron scattering studies of phonon spectra, and simulations of pressure-induced amorphization in tungstates AWO <sub>4</sub> (A=Ba,Sr,Ca, and Pb). <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	22
245	An efficient robust fluorite CeZrO <sub>4</sub> oxide catalyst for the eco-benign synthesis of styrene. <i>RSC Advances</i> , <b>2015</b> , 5, 3619-3626	3.7	15

244	Exploring the high-pressure behavior of the three known polymorphs of BiPO <sub>4</sub> : Discovery of a new polymorph. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 105902	2.5	49
243	Water-dispersible polyphosphate-grafted Fe <sub>3</sub> O <sub>4</sub> nanomagnets for cancer therapy. <i>RSC Advances</i> , <b>2015</b> , 5, 86754-86762	3.7	25
242	Preparation and structure of uranium-incorporated Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> compounds and their thermodynamic stabilities under oxidizing and reducing conditions. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 9447-57 <sup>1</sup>	5.1	32
241	Selective sorption and subsequent photocatalytic degradation of cationic dyes by sonochemically synthesized nano CuWO <sub>4</sub> and Cu <sub>3</sub> Mo <sub>2</sub> O <sub>9</sub> . <i>RSC Advances</i> , <b>2015</b> , 5, 94866-94878	3.7	30
240	Soft modes and anharmonicity in H <sub>3</sub> [Co(CN) <sub>6</sub> ]: Raman spectroscopy and first-principles calculations. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	14
239	High pressure phase transitions in NdVO <sub>4</sub> <b>2015</b> ,		8
238	Tuning of magnetic ordering by Y substitution onto Tb site in the nanocrystalline TbMnO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 164307	2.5	1
237	Raman spectroscopic studies of Pr <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> at high pressures <b>2015</b> ,		1
236	Europium Luminescence as a Structural Probe: Structure-Dependent Changes in Eu <sup>3+</sup> -Substituted Th(C <sub>2</sub> O <sub>4</sub> ) <sub>2</sub> ·xH <sub>2</sub> O (x = 6, 2, and 0). <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 4429-4436	2.3	25
235	Spin-phonon coupling in scandium doped gallium ferrite. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 123915	2.5	5
234	Effect of Synthesis Protocol on the Surface Charge of Zinc Oxide Nanoparticles and its Consequence on Sorption Ability. <i>Separation Science and Technology</i> , <b>2015</b> , 50, 404-410	2.5	4
233	The role of reaction conditions in the polymorphic control of Eu <sup>3+</sup> doped YInO <sub>3</sub> : structure and size sensitive luminescence. <i>Dalton Transactions</i> , <b>2015</b> , 44, 10628-35	4.3	40
232	Preparation, thermal and magnetic properties of Mn <sub>5</sub> (HPO <sub>4</sub> ) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> ·4H <sub>2</sub> O <b>2015</b> ,		1
231	Disorder-induced room temperature ferromagnetism in glassy chromites. <i>Scientific Reports</i> , <b>2014</b> , 4, 4686	4.9	8
230	Sorption of americium from low-level liquid wastes by nanocrystalline MnO <sub>2</sub> . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2014</b> , 299, 1433-1437	1.5	7
229	Phase Evolution and Microstructural Studies in CaZrTi <sub>2</sub> O <sub>7</sub> /Nd <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> System. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 609-616	3.8	58
228	Ag incorporated nano BiPO <sub>4</sub> : sonochemical synthesis, characterization and improved visible light photocatalytic properties. <i>RSC Advances</i> , <b>2014</b> , 4, 10097	3.7	65
227	Photocatalytic hydrogen generation from water using a hybrid of graphene nanoplatelets and self doped TiO <sub>2</sub> Bd. <i>RSC Advances</i> , <b>2014</b> , 4, 13469-13476	3.7	18



226	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> , <b>2014</b> , 53, 10101-11	5.1	20
225	Sorption of dyes and Cu(II) ions from wastewater by sonochemically synthesized $\text{MnWO}_4$ and $\text{MnMoO}_4$ nanostructures. <i>RSC Advances</i> , <b>2014</b> , 4, 37027-37035	3.7	19
224	Phonons, lithium diffusion and thermodynamics of $\text{LiMPO}_4$ (M = Mn, Fe). <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14729-14738	13	11
223	Improvement of Magnetodielectric Coupling by Surface Functionalization of Nickel Nanoparticles in Ni and Polyvinylidene Fluoride Nanohybrids. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20819-20825	3.8	42
222	Enhanced specific absorption rate in silanol functionalized $\text{Fe}_3\text{O}_4$ core-shell nanoparticles: study of Fe leaching in $\text{Fe}_3\text{O}_4$ and hyperthermia in L929 and HeLa cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 122, 396-403	6	53
221	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> , <b>2014</b> , 280, 63-70	12.8	44
220	Effect of Annealing Environment on Low-Temperature Magnetic and Dielectric Properties of $\text{EuCo}_0.5\text{Mn}_0.5\text{O}_3$ . <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 17900-17913	3.8	21
219	Effect of Mo-Incorporation in the $\text{TiO}_2$ Lattice: A Mechanistic Basis for Photocatalytic Dye Degradation. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 15946-15962	3.8	49
218	Role of Annealing Atmosphere on Structure, Dielectric and Magnetic Properties of $\text{La}_2\text{CoMnO}_6$ and $\text{La}_2\text{MgMnO}_6$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 1907-1921	1.3	23
217	Efficient Photocatalytic Degradation of Rhodamine B Dye by Aligned Arrays of Self-Assembled Hydrogen Titanate Nanotubes. <i>Journal of Nanomaterials</i> , <b>2014</b> , 2014, 1-7	3.2	27
216	Effect of grain size and microstructure on radiation stability of $\text{CeO}_2$ : an extensive study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 27065-73	3.6	37
215	Phase evolution studies in $\text{CaZrTi}_2\text{O}_7\text{RE}_2\text{Ti}_2\text{O}_7$ (RE = $\text{Nd}^{3+}$ , $\text{Sm}^{3+}$ ) system: Futuristic ceramic host matrices for nuclear waste immobilization <b>2014</b> ,		1
214	$\text{Fe}_3\text{O}_4@\text{SiO}_2$ core-shell nanoparticles: Synthesis, characterization and application in environmental remediation <b>2014</b> ,		5
213	Structural and Luminescence Studies on Barium Sodium Borosilicate Glasses Containing Uranium Oxides. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 427-431	3.8	9
212	Phase transitions in delafossite $\text{CuLaO}_2$ at high pressures. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 133507	2.5	7
211	High Adsorption Capacity for Cationic Dye Removal and Antibacterial Properties of Sonochemically Synthesized $\text{Ag}_2\text{WO}_4$ Nanorods. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 5724-5732	2.3	53
210	Sonochemical synthesis, characterization, and photocatalytic properties of $\text{Bi}_2\text{Sb}_x\text{WO}_6$ nanorods. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 2085-2097	4.3	18
209	Sorption characteristics of nano manganese oxide: efficient sorbent for removal of metal ions from aqueous streams. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2013</b> , 297, 49-57	1.5	23

208	UV-shielding transparent PMMA/In <sub>2</sub> O <sub>3</sub> nanocomposite films based on In <sub>2</sub> O <sub>3</sub> nanoparticles. <i>RSC Advances</i> , <b>2013</b> , 3, 20913	3.7	48
207	Multifunctional hybrid structures of ferromagnetic FePt and ferroelectric BaTiO <sub>3</sub> nanoparticles: facile synthesis and characterization. <i>RSC Advances</i> , <b>2013</b> , 3, 596-602	3.7	7
206	Kinetic modeling: dependence of structural and sorption properties of ZnO—crucial role of synthesis. <i>RSC Advances</i> , <b>2013</b> , 3, 3365	3.7	10
205	Phase evolution and oxide ion conduction behavior of Dy <sub>1-x</sub> BixO <sub>1.5</sub> (0.00 ≤ x ≤ 0.50) composite system. <i>RSC Advances</i> , <b>2013</b> , 3, 236	3.7	4
204	An electrochemical technique to prepare <sup>55</sup> Fe source for the calibration of the X-ray detectors. <i>Radiochimica Acta</i> , <b>2013</b> , 101, 185-194	1.9	3
203	Sorption of plutonium from low level liquid waste using nano MnO <sub>2</sub> . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2013</b> , 295, 1561-1566	1.5	9
202	Magnetic, Ferroelectric, and Magnetocapacitive Properties of Sonochemically Synthesized Sc-Doped BiFeO <sub>3</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 2382-2389	3.8	134
201	High Temperature Structural, Dielectric, and Ion Conduction Properties of Orthorhombic InVO <sub>4</sub> . <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 166-173	3.8	11
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