

# Santosh K Gupta

## 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.

199  
papers

4,173  
citations

37  
h-index

52  
g-index

211  
ext. papers

4,970  
ext. citations

4.3  
avg, IF

6.3  
L-index

#	Paper	IF	Citations
199	Harvesting Light from BaHfO/Eu through Ultraviolet, X-ray, and Heat Stimulation: An Optically Multifunctional Perovskite.. <i>ACS Omega</i> , <b>2022</b> , 7, 5311-5323	3.9	2
198	Probing defect-originated properties, actinide-lanthanide doping, and gamma irradiation effect in Lu <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> pyrochlore nanocrystals for phosphor and nuclear applications. <i>Materials Today Chemistry</i> , <b>2022</b> , 23, 100761	6.2	
197	Photon energy dependent appearance and disappearance of magnetic dipole transition in Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Sm <sup>3+</sup> nanophosphors. <i>Journal of Luminescence</i> , <b>2022</b> , 245, 118789	3.8	0
196	Efficient near infrared to visible light upconversion from Er/Yb codoped PVDF fibrous mats synthesized using a direct polymer doping technique. <i>Optical Materials</i> , <b>2022</b> , 123, 111866	3.3	2
195	Multifunctional delafossite CuFeO <sub>2</sub> as water splitting catalyst and rhodamine B sensor. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 278, 125643	4.4	2
194	MnFe <sub>2</sub> O <sub>4</sub> nano-flower: A prospective material for bimodal hyperthermia. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 899, 163192	5.7	1
193	Stabilization of UO <sub>2</sub> <sup>2+</sup> in SrHfO <sub>3</sub> perovskite and probing defects, local structure and photo/thermoluminescence. <i>Journal of Luminescence</i> , <b>2022</b> , 243, 118663	3.8	0
192	Light emission of Lu <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> pyrochlore driven by oxygen vacancy and local site engineering. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 893, 162249	5.7	0
191	Suppressing disorder-order phase transition of Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> pyrochlore by Dy <sup>3+</sup> doping and their impact on luminescence. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100931	6.2	
190	Synergistic effect of doping and defect in achieving white light emission and oxygen reduction catalysis in Ce <sub>1-x</sub> Sm <sub>x</sub> PO <sub>4</sub> . <i>Materials Today Chemistry</i> , <b>2022</b> , 25, 100947	6.2	
189	Redox and emission characteristics of Eu <sup>3+</sup> in deep eutectic solvent: Unraveling the hidden potential of DES as luminescent media. <i>Journal of Molecular Structure</i> , <b>2021</b> , 132000	3.4	0
188	Defect engineering in trivalent ion doped ceria through vanadium assisted charge compensation: insight using photoluminescence, positron annihilation and electron spin resonance spectroscopy. <i>Dalton Transactions</i> , <b>2021</b> , 50, 17378-17389	4.3	1
187	Electrochemical and thermodynamic insights on actinide type (IV) deep eutectic solvent. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 329, 115550	6	6
186	Optical nanomaterials with focus on rare earth doped oxide: A Review. <i>Materials Today Communications</i> , <b>2021</b> , 27, 102277	2.5	16
185	Inversion in usual excitation intensities from solid state phosphor and improved fluorescence of Eu <sup>3+</sup> ion in type (IV) deep eutectic solvent. <i>Journal of Luminescence</i> , <b>2021</b> , 235, 118026	3.8	4
184	Molten-Salt-Assisted Annealing for Making Colloidal ZnGa O :Cr Nanocrystals with High Persistent Luminescence. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11398-11405	4.8	5
183	Light Harvesting from Oxygen Vacancies and A- and B-Site Dopants in CaSnO <sub>3</sub> Perovskite through Efficient Photon Utilization and Local Site Engineering. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 3256-3270	4.7	2

182	Europium luminescence as a structural probe to understand defect evolution in CeO <sub>2</sub> /Eu <sup>3+</sup> , M <sup>3+</sup> (M = Y and La): contrasting role of codopant ionic size. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 17205-17220	4.3	4
181	High pressure responsive luminescence of flexible Eu <sup>3+</sup> doped PVDF fibrous mats. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 66, 103-111	9.1	5
180	A review on molten salt synthesis of metal oxide nanomaterials: Status, opportunity, and challenge. <i>Progress in Materials Science</i> , <b>2021</b> , 117, 100734	42.2	39
179	Bright and persistent green and red light-emitting fine fibers: A potential candidate for smart textiles. <i>Journal of Luminescence</i> , <b>2021</b> , 231, 117760	3.8	7
178	White light emission from co-doped La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> nanoparticles with suppressed host -fEu <sup>3+</sup> energy transfer via a U <sup>6+</sup> co-dopant. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 3830-3842	6.8	4
177	Rare earth free bright and persistent white light emitting zinc gallo-germanate nanosheets: technological advancement to fibers with enhanced quantum efficiency. <i>Materials Advances</i> , <b>2021</b> , 2, 4058-4067	3.3	5
176	Bright aspects of defects and dark traits of dopants in the photoluminescence of Er <sub>2</sub> X <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> (X = Ti and Zr) pyrochlore: an insight using EXAFS, positron annihilation and DFT. <i>Materials Advances</i> , <b>2021</b> , 2, 3075-3087	3.3	0
175	Pressure-induced site swapping, luminescence quenching, and color tunability of Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles. <i>Optical Materials</i> , <b>2021</b> , 112, 110789	3.3	1
174	Recent Developments on Molten Salt Synthesis of Inorganic Nanomaterials: A Review. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 6508-6533	3.8	20
173	Appearance of new photoluminescence peak and spectral evolution of Eu <sup>3+</sup> in La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> nanoparticles at high pressure. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 870, 159438	5.7	2
172	Disorder driven asymmetry and singular red emission in doped Lu <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> nanocrystals with no charge compensating defects. <i>Journal of Luminescence</i> , <b>2021</b> , 235, 118057	3.8	2
171	Doped lanthanum cerate pyrochlore for multicolor luminescent phosphor: Decisive role of energy transfer and defects. <i>Journal of Luminescence</i> , <b>2021</b> , 236, 118072	3.8	1
170	Cr <sup>3+</sup> assisted energy transfer for Mn <sup>2+</sup> doped zinc gallogermanate with narrow and bright green emission. <i>Materials Letters</i> , <b>2021</b> , 297, 129964	3.3	1
169	□Fe <sub>2</sub> O <sub>3</sub> nanoflowers as efficient magnetic hyperthermia and photothermal agent. <i>Applied Surface Science</i> , <b>2021</b> , 560, 150025	6.7	13
168	Enhanced sensitivity of caterpillar-like ZnO nanostructure towards amine vapor sensing. <i>Materials Research Bulletin</i> , <b>2021</b> , 142, 111419	5.1	3
167	High pressure induced disappearing 5D <sub>0</sub> -fF <sub>2</sub> and broadening 5D <sub>0</sub> -fF <sub>1</sub> transitions from Y <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles. <i>Materials Letters</i> , <b>2021</b> , 303, 130560	3.3	0
166	Ultraviolet, blue and singular green upconversion from Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> nanocrystals through dopant manipulation. <i>Solid State Communications</i> , <b>2021</b> , 338, 114458	1.6	
165	Multiphoton light emission in barium stannate perovskites driven by oxygen vacancies, Eu and La: accessing the role of defects and local structures. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 17479-17492	3.6	3

164	Tunable CsPb(Br/Cl) <sub>3</sub> perovskite nanocrystals and further advancement in designing light emitting fiber membranes. <i>Materials Advances</i> , <b>2021</b> , 2, 2700-2710	3.3	8
163	Structural Evolution and Magnetic Properties of GdHfO Nanocrystals: Computational and Experimental Investigations. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
162	Role of energy transfer, defect, and lattice dimension in photophysical characteristics of AWO <sub>4</sub> :Nd <sup>3+</sup> (A=Ca, Sr and Ba). <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 5098-5110	3.8	3
161	Recent advances, challenges, and opportunities of inorganic nanoscintillators. <i>Frontiers of Optoelectronics</i> , <b>2020</b> , 13, 156-187	2.8	16
160	Probing emission and defects in BaW <sub>x</sub> Mo <sub>1-x</sub> O <sub>4</sub> solid solutions: achieving color tunable luminescence by W/Mo ratio and size manipulation. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 10380-10389	3.6	6
159	Achieving blue emission via f-d transition from pyrochlore Eu <sup>2+</sup> and Ce <sup>3+</sup> -doped La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> nanoparticles. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1220, 128688	3.4	4
158	Luminescent PVDF nanocomposite films and fibers encapsulated with La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	8
157	Remarkable enhancement of photoluminescence and persistent luminescence of NIR emitting ZnGa <sub>2</sub> O <sub>4</sub> :Cr <sup>3+</sup> nanoparticles. <i>CrystEngComm</i> , <b>2020</b> , 22, 2491-2501	3.3	17
156	Single red emission from upconverting ZnGa <sub>2</sub> O <sub>4</sub> :Yb,Er nanoparticles co-doped by Cr <sup>3+</sup> . <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6370-6379	7.1	23
155	High pressure induced local ordering and tunable luminescence of La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 5463-5472	3.6	8
154	Bright persistent green emitting water-dispersible ZnGeO:Mn nanorods. <i>Dalton Transactions</i> , <b>2020</b> , 49, 7328-7340	4.3	21
153	Effect of hydrothermal temperature treatment on the variance of fluorescence in Ca <sub>2</sub> SiO <sub>4</sub> :Tb <sup>3+</sup> . <i>Journal of Science: Advanced Materials and Devices</i> , <b>2020</b> , 5, 250-255	4.2	2
152	Color tuning in CaZrO <sub>3</sub> :RE <sup>3+</sup> perovskite by choice of rare earth ion. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1221, 128776	3.4	7
151	Achieving Bright Blue and Red Luminescence in Ca <sub>2</sub> SnO <sub>4</sub> through Defect and Doping Manipulation. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16090-16101	3.8	10
150	Probing structural evolution in thorium/berium mixed oxides thermally annealed in oxidizing and reducing conditions. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 539, 152344	3.3	1
149	Lanthanide spectroscopy in probing structure-property correlation in multi-site photoluminescent phosphors. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 420, 213405	23.2	32
148	Influence of Li <sup>+</sup> co-doping on the luminescence of MgO:Eu <sup>3+</sup> nanocrystals: Probing asymmetry, energy transfer and defects. <i>Solid State Sciences</i> , <b>2020</b> , 105, 106286	3.4	5
147	Li <sup>+</sup> co-doping induced phase transition as an efficient strategy to enhance upconversion of La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> :Er,Yb nanoparticles. <i>Journal of Luminescence</i> , <b>2020</b> , 224, 117312	3.8	10

146	Role of alkali charge compensation in the luminescence of CaWO <sub>4</sub> :Nd <sup>3+</sup> and SrWO <sub>4</sub> :Nd <sup>3+</sup> Scheelites. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 7300-7309	3.6	15
145	Defect-induced optical and electrochemical properties of Pr <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> nanoparticles enhanced by Bi <sup>3+</sup> doping. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 1214-1224	2.5	10
144	Excitation dependent site-specific luminescence and structure-optical property correlation of Lu <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles. <i>Optical Materials</i> , <b>2020</b> , 109, 110357	3.3	3
143	Optical properties of undoped, Eu <sup>3+</sup> doped and Li <sup>+</sup> co-doped Y <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> nanoparticles and polymer nanocomposite films. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 505-518	6.8	26
142	Singular orange emission in Zn <sub>2</sub> SnO <sub>4</sub> :Eu <sup>3+</sup> . <i>Materials Letters</i> , <b>2020</b> , 279, 128511	3.3	1
141	pH induced size tuning of Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles and its effect on their UV and X-ray excited luminescence. <i>Journal of Luminescence</i> , <b>2020</b> , 228, 117605	3.8	4
140	Effect of Oxide Ion Distribution on a Uranium Structure in Highly U-Doped REHfO (RE = La and Gd) Nanoparticles. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 14070-14077	5.1	6
139	Ultraviolet emission and electron spin characteristics of Th(C <sub>2</sub> O <sub>4</sub> ) <sub>2</sub> ·xH <sub>2</sub> O:Gd <sup>3+</sup> . <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 16036-16044	3.6	0
138	Controlling the luminescence in K <sub>2</sub> Th(PO <sub>4</sub> ) <sub>2</sub> :Eu <sup>3+</sup> 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
137	Effects of molten-salt processing parameters on the structural and optical properties of preformed La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles. <i>Ceramics International</i> , <b>2020</b> , 46, 1352-1361	5.1	11
136	On comparison of luminescence properties of La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> and La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> nanoparticles. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 235-248	3.8	27
135	Lanthanide-doped lanthanum hafnate nanoparticles as multicolor phosphors for warm white lighting and scintillators. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122314	14.7	56
134	Direct dissolution of uranium oxides in deep eutectic solvent: An insight using electrochemical and luminescence study. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1215, 128266	3.4	13
133	Roles of oxygen vacancies and pH induced size changes on photo- and radioluminescence of undoped and Eu <sup>3+</sup> -doped La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> nanoparticles. <i>Journal of Luminescence</i> , <b>2019</b> , 209, 302-315	3.8	26
132	Enhanced Photoelectrochemical Water Splitting with Er- and W-Codoped Bismuth Vanadate with WO Heterojunction-Based Two-Dimensional Photoelectrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19029-19039	9.5	36
131	Room temperature synthesis, concentration quenching study and defect formation in BaAg <sub>2</sub> MoO <sub>4</sub> :Dy <sup>3+</sup> photoluminescence and positron annihilation spectroscopy. <i>Journal of Luminescence</i> , <b>2019</b> , 212, 293-299	3.8	10
130	Lithium doped zinc oxide based flexible piezoelectric-triboelectric hybrid nanogenerator. <i>Nano Energy</i> , <b>2019</b> , 61, 327-336	17.1	51
129	Insight into the effect of A-site cations on structural and optical properties of RE <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :U nanoparticles. <i>Journal of Luminescence</i> , <b>2019</b> , 210, 425-434	3.8	15

128	Thermally Induced Disorder-Order Phase Transition of GdHfO:Eu Nanoparticles and Its Implication on Photo- and Radioluminescence. <i>ACS Omega</i> , <b>2019</b> , 4, 2779-2791	3.9	46
127	Visible and ultraviolet upconversion and near infrared downconversion luminescence from lanthanide doped La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> nanoparticles. <i>Journal of Luminescence</i> , <b>2019</b> , 214, 116591	3.8	18
126	Defect and dopant induced photoluminescence of molten salt synthesized BaZrO <sub>3</sub> crystals. <i>Journal of Luminescence</i> , <b>2019</b> , 214, 116599	3.8	5
125	Defect evolution in Eu <sup>3+</sup> , Nb <sup>5+</sup> doped and co-doped CeO <sub>2</sub> : X-ray diffraction, positron annihilation lifetime and photoluminescence studies. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2167-2177	6.8	16
124	Size, structure, and luminescence of Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> nanoparticles by molten salt synthesis. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 12411-12423	4.3	13
123	ForceSpun polydiacetylene nanofibers as colorimetric sensor for food spoilage detection. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 297, 126734	8.5	45
122	Performance evaluation of Ce <sup>3+</sup> doped flexible PVDF fibers for efficient optical pressure sensors. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 298, 111595	3.9	24
121	A carnegieite type red emitting NaAlSiO <sub>4</sub> :Eu <sup>3+</sup> phosphor: Concentration dependent time resolved photoluminescence and Judd-Ofelt analysis. <i>Journal of Luminescence</i> , <b>2019</b> , 209, 283-290	3.8	11
120	Samarium-Activated LaHfO Nanoparticles as Multifunctional Phosphors. <i>ACS Omega</i> , <b>2019</b> , 4, 17956-17966	3.9	31
119	On high purity fullerenol obtained by combined dialysis and freeze-drying method with its morphostructural transition and photoluminescence. <i>Separation and Purification Technology</i> , <b>2019</b> , 210, 927-934	8.3	1
118	Pyrochlore Rare-Earth Hafnate REHfO (RE = La and Pr) Nanoparticles Stabilized by Molten-Salt Synthesis at Low Temperature. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1241-1251	5.1	20
117	Investigating the impact of gamma radiation on structural and optical properties of Eu <sup>3+</sup> doped rare-earth hafnate pyrochlore nanocrystals. <i>Journal of Luminescence</i> , <b>2019</b> , 207, 1-13	3.8	11
116	MgAl <sub>2</sub> O <sub>4</sub> both as short and long persistent phosphor material: Role of antisite defect centers in determining the decay kinetics. <i>Solid State Sciences</i> , <b>2019</b> , 88, 13-19	3.4	11
115	Solid state speciation of uranium and its local structure in SrCeO using photoluminescence spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 195, 113-119	4.4	10
114	Orange-red emitting Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> :Sm <sup>3+</sup> : Structure-property correlation, optical properties and defect spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , <b>2018</b> , 116, 360-366	3.9	25
113	Exploring the optical properties of La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Pr <sup>3+</sup> nanoparticles under UV and X-ray excitation for potential lighting and scintillating applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 9381-9392	3.6	42
112	Role of Synthesis Method on Luminescence Properties of Europium(II, III) Ions in ECaSiO: Probing Local Site and Structure. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 935-950	5.1	31
111	Deciphering the Role of Charge Compensator in Optical Properties of SrWO:Eu:A (A = Li, Na, K): Spectroscopic Insight Using Photoluminescence, Positron Annihilation, and X-ray Absorption. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 821-832	5.1	56

110	A step towards synthesizing unique UV and visible light excitable AWO <sub>4</sub> :Eu <sup>3+</sup> (A = Ca and Sr) nanophosphors using high energy ball milling method: luminescence differences in going from Ca <sup>2+</sup> to Sr <sup>2+</sup> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 13751-13765	2.1	5
109	Effect of Molten Salt Synthesis Processing Duration on the Photo- and Radioluminescence of UV-, Visible-, and X-ray-Excitable LaHfO:Eu Nanoparticles. <i>ACS Omega</i> , <b>2018</b> , 3, 7757-7770	3.9	37
108	On structure and phase transformation of uranium doped La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> nanoparticles as an efficient nuclear waste host. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 2201-2211	7.8	37
107	Yellow Emission from Low Coordination Site of Sr SiO :Eu, Ce : Influence of Lanthanide Dopants on the Electron Density and Crystallinity in Crystal Site Engineering Approach. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 16149-16159	4.8	16
106	Thermal annealing effects on La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> nanoparticles: a curious case study of structural evolution and site-specific photo- and radio-luminescence. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2508-2521	6.8	39
105	Unraveling doping induced anatase-rutile phase transition in TiO using electron, X-ray and gamma-ray as spectroscopic probes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 28699-28711	3.6	12
104	Molten-Salt Synthesis of Complex Metal Oxide Nanoparticles. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	4
103	Correlating Structure and Luminescence Properties of Undoped and Eu-Doped LaHfO Nanoparticles Prepared with Different Coprecipitating pH Values through Experimental and Theoretical Studies. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 11815-11830	5.1	42
102	Speciation of uranium and doping induced defects in Gd <sub>1.98</sub> U <sub>0.02</sub> Zr <sub>2</sub> O <sub>7</sub> : Photoluminescence, X-ray photoelectron and positron annihilation lifetime spectroscopy. <i>Chemical Physics Letters</i> , <b>2017</b> , 669, 245-250	2.5	22
101	Dopant Concentration induced optical changes in Ba <sub>1-x</sub> Eu <sub>x</sub> MoO <sub>4</sub> : A green and facile approach towards tunable photoluminescent material. <i>Journal of Luminescence</i> , <b>2017</b> , 188, 67-74	3.8	10
100	Defect induced ferromagnetism in MgO and its exceptional enhancement upon thermal annealing: a case of transformation of various defect states. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 11975-11989	3.6	41
99	Redox and Photophysical Behaviour of Complexes of NpO <sub>2</sub> <sup>+</sup> Ions with Carbomyl methyl phosphine oxide in 1-Hexyl-3-methylimidazolium bis (trifluoromethylsulfonyl) imide Ionic Liquid. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 269-277	6.7	9
98	Tunable white light emitting Sr <sub>2</sub> V <sub>2</sub> O <sub>7</sub> :Bi <sup>3+</sup> phosphors: Role of bismuth ion. <i>Materials and Design</i> , <b>2017</b> , 130, 208-214	8.1	30
97	Origin of visible photoluminescence in combustion synthesized BaAl <sub>2</sub> O <sub>3</sub> : Photoluminescence and EPR spectroscopy. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 1505-1510	4.6	7
96	Crystal structure of Ba(LaBaM)MO (M = Nb, Sb, Bi): symmetry nuance identified in photoluminescence and IR spectroscopy studies. <i>Dalton Transactions</i> , <b>2017</b> , 46, 1694-1703	4.3	6
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93	Role of surface defects in catalytic properties of CeO <sub>2</sub> nanoparticles towards oxygen reduction reaction. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 200, 99-106	4.4	14

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87	Ab-initio study of oxygen defects in pure ThO <sub>2</sub> <b>2016</b> ,		1
86	Revealing the oxidation number and local coordination of uranium in Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> pyrochlore: A photoluminescence study. <i>Journal of Luminescence</i> , <b>2016</b> , 177, 166-171	3.8	23
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83	Doping-Induced Room Temperature Stabilization of Metastable $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> and Origin of Visible Emission in $\beta$ -Ag <sub>2</sub> WO <sub>4</sub> : Low Temperature Photoluminescence Studies. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7265-7276	3.8	41
82	An Insight into the Various Defects-Induced Emission in MgAl <sub>2</sub> O <sub>4</sub> and Their Tunability with Phase Behavior: Combined Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 4016-4031	3.8	74
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2 Anomalous temperature dependence of resistance observed for high TC Y-Ba-Cu-O thin films.  
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1 Resistivity behaviour of ultra thin Pd films with respect to temperature for sensing applications 2