

# Santosh K Gupta

## List of Publications by Year in descending order

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211  
papers

6,057  
citations

53789

45  
h-index

110368

64  
g-index

211  
all docs

211  
docs citations

211  
times ranked

4346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of gas sensors using ZnO nanostructures. Journal of Chemical Sciences, 2010, 122, 57-62.	1.5	184
2	A review on molten salt synthesis of metal oxide nanomaterials: Status, opportunity, and challenge. Progress in Materials Science, 2021, 117, 100734.	32.8	153
3	Energy transfer dynamics and luminescence properties of Eu <sup>3+</sup> in CaMoO <sub>4</sub> and SrMoO <sub>4</sub> . Dalton Transactions, 2015, 44, 18957-18969.	3.3	137
4	Self-assembly of the 3-aminopropyltrimethoxysilane multilayers on Si and hysteretic current-voltage characteristics. Applied Physics A: Materials Science and Processing, 2008, 90, 581-589.	2.3	121
5	Photoluminescence and EPR studies on Fe <sup>3+</sup> doped ZnAl <sub>2</sub> O <sub>4</sub> : an evidence for local site swapping of Fe <sup>3+</sup> and formation of inverse and normal phase. Dalton Transactions, 2014, 43, 9313.	3.3	104
6	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. Journal of Physical Chemistry C, 2016, 120, 4016-4031.	3.1	100
7	Role of various defects in the photoluminescence characteristics of nanocrystalline Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> : an investigation through spectroscopic and DFT calculations. Journal of Materials Chemistry C, 2016, 4, 4988-5000.	5.5	99
8	Lanthanide-doped lanthanum hafnate nanoparticles as multicolor phosphors for warm white lighting and scintillators. Chemical Engineering Journal, 2020, 379, 122314.	12.7	99
9	Luminescence Properties of SrZrO <sub>3</sub> /Tb <sup>3+</sup> Perovskite: Host-Dopant Energy-Transfer Dynamics and Local Structure of Tb <sup>3+</sup> . Inorganic Chemistry, 2016, 55, 1728-1740.	4.0	96
10	Lithium doped zinc oxide based flexible piezoelectric-triboelectric hybrid nanogenerator. Nano Energy, 2019, 61, 327-336.	16.0	88
11	ForceSpun polydiacetylene nanofibers as colorimetric sensor for food spoilage detection. Sensors and Actuators B: Chemical, 2019, 297, 126734.	7.8	87
12	Understanding the local environment of Sm <sup>3+</sup> in doped SrZrO <sub>3</sub> and energy transfer mechanism using time-resolved luminescence: a combined theoretical and experimental approach. RSC Advances, 2014, 4, 29202-29215.	3.6	83
13	Lanthanide spectroscopy in probing structure-property correlation in multi-site photoluminescent phosphors. Coordination Chemistry Reviews, 2020, 420, 213405.	18.8	83
14	Recent Developments on Molten Salt Synthesis of Inorganic Nanomaterials: A Review. Journal of Physical Chemistry C, 2021, 125, 6508-6533.	3.1	83
15	Deciphering the Role of Charge Compensator in Optical Properties of SrWO <sub>4</sub> :Eu <sup>3+</sup> :A (A = Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> ): Spectroscopic Insight Using Photoluminescence, Positron Annihilation, and X-ray Absorption. Inorganic Chemistry, 2018, 57, 821-832.	4.0	82
16	Structure and site selective luminescence of sol-gel derived Eu:Sr <sub>2</sub> SiO <sub>4</sub> . Journal of Luminescence, 2012, 132, 1329-1338.	3.1	81
17	Intense red emitting monoclinic LaPO <sub>4</sub> :Eu <sup>3+</sup> nanoparticles: host-dopant energy transfer dynamics and photoluminescence properties. RSC Advances, 2015, 5, 58832-58842.	3.6	81
18	Nanospheres, Nanocubes, and Nanorods of Nickel Oxalate: Control of Shape and Size by Surfactant and Solvent. Journal of Physical Chemistry C, 2008, 112, 12610-12615.	3.1	80

#	ARTICLE	IF	CITATIONS
19	On the unusual photoluminescence of Eu <sup>3+</sup> in $\hat{\text{I}}\text{-Zn}_2\text{P}_2\text{O}_7$ : a time resolved emission spectrometric and Juddâ€“Ofelt study. RSC Advances, 2013, 3, 20046.	3.6	79
20	Eu <sup>3+</sup> local site analysis and emission characteristics of novel Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> :Eu phosphor: insight into the effect of europium concentration on its photoluminescence properties. RSC Advances, 2016, 6, 53614-53624.	3.6	78
21	Defects induced changes in the electronic structures of MgO and their correlation with the optical properties: a special case of electronâ€“hole recombination from the conduction band. RSC Advances, 2016, 6, 96398-96415.	3.6	78
22	An efficient gel-combustion synthesis of visible light emitting barium zirconate perovskite nanoceramics: Probing the photoluminescence of Sm <sup>3+</sup> and Eu <sup>3+</sup> doped BaZrO <sub>3</sub> . Journal of Luminescence, 2016, 169, 106-114.	3.1	73
23	Bluish white emitting Sr <sub>2</sub> CeO <sub>4</sub> and red emitting Sr <sub>2</sub> CeO <sub>4</sub> :Eu <sup>3+</sup> nanoparticles: optimization of synthesis parameters, characterization, energy transfer and photoluminescence. Journal of Materials Chemistry C, 2013, 1, 7054.	5.5	72
24	Experimental and theoretical approach to account for green luminescence from Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> pyrochlore: exploring the site occupancy and origin of host-dopant energy transfer in Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> . RSC Advances, 2016, 6, 44908-44920.	3.6	64
25	Multifunctional pure and Eu <sup>3+</sup> doped $\hat{\text{I}}^2\text{-Ag}_2\text{MoO}_4$ : photoluminescence, energy transfer dynamics and defect induced properties. Dalton Transactions, 2015, 44, 19097-19110.	3.3	62
26	Correlating Structure and Luminescence Properties of Undoped and Eu <sup>3+</sup> -Doped La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> Nanoparticles Prepared with Different Coprecipitating pH Values through Experimental and Theoretical Studies. Inorganic Chemistry, 2018, 57, 11815-11830.	4.0	61
27	Thermally Induced Disorderâ€“Order Phase Transition of Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> Nanoparticles and Its Implication on Photo- and Radioluminescence. ACS Omega, 2019, 4, 2779-2791.	3.5	61
28	Site-specific luminescence of Eu <sup>3+</sup> in gel-combustion-derived strontium zirconate perovskite nanophosphors. Journal of Materials Science, 2012, 47, 3504-3515.	3.7	60
29	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. New Journal of Chemistry, 2018, 42, 9381-9392.	2.8	59
30	Nature of defects in blue light emitting CaZrO <sub>3</sub> : spectroscopic and theoretical study. RSC Advances, 2015, 5, 56526-56533.	3.6	58
31	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. Materials Chemistry Frontiers, 2018, 2, 2201-2211.	5.9	58
32	Luminescence of undoped and Eu <sup>3+</sup> doped nanocrystalline SrWO <sub>4</sub> scheelite: time resolved fluorescence complimented by DFT and positron annihilation spectroscopic studies. RSC Advances, 2016, 6, 3792-3805.	3.6	57
33	Defect induced ferromagnetism in MgO and its exceptional enhancement upon thermal annealing: a case of transformation of various defect states. Physical Chemistry Chemical Physics, 2017, 19, 11975-11989.	2.8	56
34	Enhanced Photoelectrochemical Water Splitting with Er- and W-Codoped Bismuth Vanadate with WO <sub>3</sub> Heterojunction-Based Two-Dimensional Photoelectrode. ACS Applied Materials & Interfaces, 2019, 11, 19029-19039.	8.0	56
35	Optical nanomaterials with focus on rare earth doped oxide: A Review. Materials Today Communications, 2021, 27, 102277.	1.9	56
36	ZnO-nanowires modified polypyrrole films as highly selective and sensitive chlorine sensors. Applied Physics Letters, 2009, 94, .	3.3	54

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37	Optical properties of sol-gel derived Sr <sub>2</sub> SiO <sub>4</sub> :Dy <sup>3+</sup> Photo and thermally stimulated luminescence. <i>Optical Materials</i> , 2013, 35, 2320-2328.	3.6	54
38	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> , 2018, 5, 2508-2521.	6.0	54
39	Origin of Blue-Green Emission in $\hat{\text{I}}^{\pm}$ -Zn <sub>2</sub> P <sub>2</sub> O <sub>7</sub> and Local Structure of Ln <sup>3+</sup> Ion in $\hat{\text{I}}^{\pm}$ -Zn <sub>2</sub> P <sub>2</sub> O <sub>7</sub> :Ln <sup>3+</sup> (Ln = Sm,) <i>TJ ETQq</i> 1 0.784314 53 167-178.	4.0	53
40	Interfacial synthesis of long polyindole fibers. <i>Journal of Applied Polymer Science</i> , 2007, 103, 595-599.	2.6	51
41	Probing local site environments and distribution of manganese in SrZrO <sub>3</sub> :Mn; PL and EPR spectroscopy complimented by DFT calculations. <i>RSC Advances</i> , 2015, 5, 17501-17513.	3.6	51
42	Exploring pure and RE co-doped (Eu <sup>3+</sup> , Tb <sup>3+</sup> and Dy <sup>3+</sup> ) gadolinium scandate: Luminescence behaviour and dynamics of energy transfer. <i>Chemical Engineering Journal</i> , 2016, 283, 114-126.	12.7	51
43	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> , 2015, 44, 10628-10635.	3.3	49
44	Photoluminescence Investigations of the Near White Light Emitting Perovskite Ceramic $\langle \text{SrZrO}_3 \rangle \langle \text{Dy} \rangle \langle \text{Eu} \rangle$ Prepared Via Gel-Combustion Route. <i>International Journal of Applied Ceramic Technology</i> , 2013, 10, 593-602.	2.1	47
45	Crystallographic site swapping of La <sup>3+</sup> ion in BaA <sup>2</sup> LaTeO <sub>6</sub> (A <sup>2</sup> = Na, K, Rb) double perovskite type compounds: diffraction and photoluminescence evidence for the site swapping. <i>Dalton Transactions</i> , 2014, 43, 3306-3312.	3.3	47
46	Effect of Molten Salt Synthesis Processing Duration on the Photo- and Radioluminescence of UV-, Visible-, and X-ray-Excitable La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> :Eu <sup>3+</sup> Nanoparticles. <i>ACS Omega</i> , 2018, 3, 7757-7770.	3.5	47
47	Why host to dopant energy transfer is absent in the MgAl <sub>2</sub> O <sub>4</sub> :Eu <sup>3+</sup> spinel? And exploring Eu <sup>3+</sup> site distribution and local symmetry through its photoluminescence: interplay of experiment and theory. <i>RSC Advances</i> , 2016, 6, 42923-42932.	3.6	46
48	Doping-Induced Room Temperature Stabilization of Metastable $\hat{\text{I}}^2$ -Ag <sub>2</sub> WO <sub>4</sub> and Origin of Visible Emission in $\hat{\text{I}}^{\pm}$ - and $\hat{\text{I}}^2$ -Ag <sub>2</sub> WO <sub>4</sub> : Low Temperature Photoluminescence Studies. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7265-7276.	3.1	46
49	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> , 2020, 8, 6370-6379.	5.5	46
50	Origin of blue emission in ThO <sub>2</sub> nanorods: exploring it as a host for photoluminescence of Eu <sup>3+</sup> , Tb <sup>3+</sup> and Dy <sup>3+</sup> . <i>RSC Advances</i> , 2014, 4, 51244-51255.	3.6	45
51	Role of Synthesis Method on Luminescence Properties of Europium(II, III) Ions in $\hat{\text{I}}^2$ -Ca <sub>2</sub> SiO <sub>4</sub> : Probing Local Site and Structure. <i>Inorganic Chemistry</i> , 2018, 57, 935-950.	4.0	44
52	Samarium-Activated La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> Nanoparticles as Multifunctional Phosphors. <i>ACS Omega</i> , 2019, 4, 17956-17966.	3.5	44
53	Optical properties of Eu <sup>3+</sup> activated thorium molybdate and thorium tungstate: Structure, local symmetry and photophysical properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 311, 59-67.	3.9	43
54	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> , 2020, 7, 505-518.	6.0	43

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55	Recent advances, challenges, and opportunities of inorganic nanoscintillators. <i>Frontiers of Optoelectronics</i> , 2020, 13, 156-187.	3.7	42
56	On the photo-luminescence properties of sol-gel derived undoped and Dy <sup>3+</sup> ion doped nanocrystalline Scheelite type AMoO <sub>4</sub> (A = Ca, Sr and Ba). <i>Materials Research Bulletin</i> , 2015, 64, 223-232.	5.2	41
57	Structural characterization and photoluminescence properties of sol-gel derived nanocrystalline BaMoO <sub>4</sub> :Dy <sup>3+</sup> . <i>Journal of Luminescence</i> , 2015, 158, 203-210.	3.1	40
58	Probing Site Symmetry Around Eu <sup>3+</sup> in Nanocrystalline ThO <sub>2</sub> Using Time Resolved Emission Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3694-3701.	3.8	39
59	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> , 2020, 103, 235-248.	3.8	38
60	MgAl <sub>2</sub> O <sub>4</sub> spinel: Synthesis, carbon incorporation and defect-induced luminescence. <i>Journal of Molecular Structure</i> , 2015, 1089, 81-85.	3.6	37
61	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> , 2017, 130, 208-214.	7.0	37
62	Performance evaluation of Ce <sup>3+</sup> doped flexible PVDF fibers for efficient optical pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2019, 298, 111595.	4.1	37
63	Bright persistent green emitting water-dispersible Zn <sub>2</sub> GeO <sub>4</sub> :Mn nanorods. <i>Dalton Transactions</i> , 2020, 49, 7328-7340.	3.3	37
64	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> , 2019, 209, 302-315.	3.1	36
65	̂ <sup>3</sup> -Fe <sub>2</sub> O <sub>3</sub> nanoflowers as efficient magnetic hyperthermia and photothermal agent. <i>Applied Surface Science</i> , 2021, 560, 150025.	6.1	36
66	Visible light emitting Ln <sup>3+</sup> ion (Ln=Sm, Eu and Dy) as a structural probe: A case study with SrZrO <sub>3</sub> . <i>Journal of Luminescence</i> , 2015, 164, 1-22.	3.1	35
67	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> , 2015, 2015, 4429-4436.	2.0	34
68	Pyrochlore Rare-Earth Hafnate RE <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> (RE = La and Pr) Nanoparticles Stabilized by Molten-Salt Synthesis at Low Temperature. <i>Inorganic Chemistry</i> , 2019, 58, 1241-1251.	4.0	34
69	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> , 2020, 22, 2491-2501.	2.6	33
70	Nanoparticles of Sr <sub>0.995</sub> Gd <sub>0.005</sub> ZrO <sub>3</sub> -gel-combustion synthesis, characterization, fluorescence and EPR spectroscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 183, 6-11.	3.5	32
71	An insight into local environment of lanthanide ions in Sr <sub>2</sub> SiO <sub>4</sub> :Ln (Ln = Sm,) <i>Tj ETQq1 1,0,784314,rgBT/O</i>	2.8	32
72	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> , 2018, 116, 360-366.	4.0	32

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73	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. Journal of Luminescence, 2016, 177, 166-171.	3.1	30
74	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. Journal of Luminescence, 2019, 214, 116591.	3.1	30
75	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. New Journal of Chemistry, 2020, 44, 7300-7309.	2.8	30
76	Radiation effects on SBR/EPDM blends: A correlation with blend morphology. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1676-1689.	2.1	29
77	Bias and temperature dependent charge transport in high mobility cobalt-phthalocyanine thin films. Applied Physics Letters, 2010, 96, .	3.3	29
78	Probing the oxidation state and coordination geometry of uranium ion in SrZrO <sub>3</sub> perovskite. Journal of Molecular Structure, 2014, 1068, 204-209.	3.6	29
79	The effect of vanadium substitution on photoluminescent properties of K <sub>2</sub> SrLa(PO <sub>4</sub> ) <sub>4</sub> (VO <sub>4</sub> ) <sub>2</sub> :Eu <sup>3+</sup> phosphors, a new variant of phosphovanadates. New Journal of Chemistry, 2016, 40, 1799-1806.	2.8	29
80	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. Inorganic Chemistry Frontiers, 2019, 6, 2167-2177.	6.0	29
81	A Novel near white light emitting nanocrystalline Zn <sub>2</sub> P <sub>2</sub> O <sub>7</sub> :Sm <sup>3+</sup> derived using citrate precursor route: Photoluminescence spectroscopy. Advanced Powder Technology, 2014, 25, 1388-1393.	4.1	28
82	Warm white light emitting ThO <sub>2</sub> :Sm <sup>3+</sup> nanorods: Cationic surfactant assisted reverse micellar synthesis and Photoluminescence properties. Materials Research Bulletin, 2014, 49, 297-301.	5.2	28
83	Energy transfer dynamics and time resolved photoluminescence in BaWO <sub>4</sub> :Eu <sup>3+</sup> nanophosphors synthesized by mechanical activation. New Journal of Chemistry, 2017, 41, 8947-8958.	2.8	28
84	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. Chemical Physics Letters, 2017, 669, 245-250.	2.6	26
85	Evidence for the stabilization of manganese ion as Mn (II) and Mn (IV) in $\beta$ -Zn <sub>2</sub> P <sub>2</sub> O <sub>7</sub> : Probed by EPR, luminescence and electrochemical studies. Materials Chemistry and Physics, 2014, 145, 162-167.	4.0	25
86	Local site symmetry of Sm <sup>3+</sup> in sol-gel derived $\beta$ -Sr <sub>2</sub> SiO <sub>4</sub> : Probed by emission and fluorescence lifetime spectroscopy. Journal of Luminescence, 2016, 169, 669-673.	3.1	25
87	An insight into optical spectroscopy of intense green emitting ZnAl <sub>2</sub> O <sub>4</sub> :Tb <sup>3+</sup> nanoparticles: photo, thermally stimulated luminescence and EPR study. Journal of Luminescence, 2015, 168, 151-157.	3.1	24
88	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. Journal of Luminescence, 2020, 224, 117312.	3.1	24
89	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. Solid State Sciences, 2019, 88, 13-19.	3.2	23
90	Direct dissolution of uranium oxides in deep eutectic solvent: An insight using electrochemical and luminescence study. Journal of Molecular Structure, 2020, 1215, 128266.	3.6	22



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91	Oxygen induced hysteretic current-voltage characteristics of iron-phthalocyanine thin films. Journal of Applied Physics, 2008, 104, .	2.5	21
92	Near white light emitting ZnAl <sub>2</sub> O <sub>4</sub> :Dy <sup>3+</sup> nanocrystals: Sol-gel synthesis and luminescence studies. Materials Research Bulletin, 2016, 74, 182-187.	5.2	21
93	Visible light emission from bulk and nano SrWO <sub>4</sub> : Possible role of defects in photoluminescence. Journal of Luminescence, 2017, 192, 1220-1226.	3.1	21
94	Structural evolution and giant magnetoresistance in electrodeposited Co-Cu/Cu multilayers. Physical Review B, 2008, 77, .	3.2	20
95	Understanding the Dynamics of Eu <sup>3+</sup> Ions in Room-Temperature Ionic Liquids – Electrochemical and Time-Resolved Fluorescence Spectroscopy Studies. European Journal of Inorganic Chemistry, 2015, 2015, 104-111.	2.0	20
96	Yellow Emission from Low Coordination Site of Sr <sub>2</sub> SiO <sub>4</sub> :Eu <sup>2+</sup> , Ce <sup>3+</sup> : Influence of Lanthanide Dopants on the Electron Density and Crystallinity in Crystal Site Engineering Approach. Chemistry - A European Journal, 2018, 24, 16149-16159.	3.3	20
97	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. Journal of Materials Research, 2020, 35, 1214-1224.	2.6	20
98	Nanorods of white light emitting Sr <sub>2</sub> SiO <sub>4</sub> :Eu <sup>2+</sup> : microemulsion-based synthesis, EPR, photoluminescence, and thermoluminescence studies. Journal of Experimental Nanoscience, 2015, 10, 610-621.	2.4	19
99	Size, structure, and luminescence of Nd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> nanoparticles by molten salt synthesis. Journal of Materials Science, 2019, 54, 12411-12423.	3.7	19
100	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. New Journal of Chemistry, 2020, 44, 5463-5472.	2.8	19
101	Molten-Salt-Assisted Annealing for Making Colloidal ZnGa <sub>2</sub> O <sub>4</sub> :Cr Nanocrystals with High Persistent Luminescence. Chemistry - A European Journal, 2021, 27, 11398-11405.	3.3	19
102	Tunable CsPb(Br/Cl) <sub>3</sub> perovskite nanocrystals and further advancement in designing light emitting fiber membranes. Materials Advances, 2021, 2, 2700-2710.	5.4	19
103	Role of surface defects in catalytic properties of CeO <sub>2</sub> nanoparticles towards oxygen reduction reaction. Materials Chemistry and Physics, 2017, 200, 99-106.	4.0	18
104	Room temperature synthesis, concentration quenching study and defect formation in $\hat{\Gamma}^2$ -Ag <sub>2</sub> MoO <sub>4</sub> :Dy <sup>3+</sup> - photoluminescence and positron annihilation spectroscopy. Journal of Luminescence, 2019, 212, 293-299.	3.1	18
105	A carnegieite type red emitting NaAlSiO <sub>4</sub> :Eu <sup>3+</sup> phosphor: Concentration dependent time resolved photoluminescence and Judd-Ofelt analysis. Journal of Luminescence, 2019, 209, 283-290.	3.1	18
106	High pressure responsive luminescence of flexible Eu <sup>3+</sup> doped PVDF fibrous mats. Journal of Materials Science and Technology, 2021, 66, 103-111.	10.7	17
107	Charge transport in polypyrrole:ZnO-nanowires composite films. Applied Physics Letters, 2009, 95, 202106.	3.3	16
108	On the photophysics and speciation of actinide ion in MgAl <sub>2</sub> O <sub>4</sub> spinel using photoluminescence spectroscopy and first principle calculation: A case study with uranium. Journal of Alloys and Compounds, 2017, 695, 337-343.	5.5	16

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109	Solid state speciation of uranium and its local structure in Sr <sub>2</sub> CeO <sub>4</sub> using photoluminescence spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 195, 113-119.	3.9	16
110	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> , 2019, 210, 425-434.	3.1	16
111	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> , 2020, 46, 1352-1361.	4.8	16
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