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Recent developments in rare-earth doped materials for optoelectronics

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#	Paper	IF	Citations
737	Enhancement of erbium luminescence in c-Si by terahertz radiation. <b>2003</b> , 105, 184-187		
736	Photoluminescence investigation of europium-doped alumina, titania and indium sol-gel-derived films in porous anodic alumina. <b>2003</b> , 105, 53-56		23
735	Defects in Eu- and Tb-doped GaN probed using a monoenergetic positron beam. <b>2003</b> , 93, 5181-5184		17
734	Quantum confinement in rare-earth doped semiconductor systems. <b>2003</b> , 7, 143-149		26
733	Extended X-ray Absorption Fine Structure Studies of GaN Epilayers Doped in situ with Er and Eu During Molecular Beam Epitaxy. <b>2003</b> , 798, 45		3
732	Deposition of Er:Al <sub>2</sub> O <sub>3</sub> Films and Photoluminescence Characteristics. <b>2003</b> , 20, 1613-1615		9
731	Propagation in erbium and silicon codoped silica slab waveguides: analysis of gain. <b>2004</b> , 16, 6627-6638		1
730	Spectroscopic study of Nd-doped amorphous SiN films. <b>2004</b> , 96, 1068-1073		14
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263	Effects of annealing temperature and Eu concentration on the structural and photoluminescence properties of Eu-doped SnO <sub>2</sub> thin films prepared by a metal organic decomposition method. <i>Thin Solid Films</i> , <b>2018</b> , 656, 1-5	2.2	8
262	Structural and spectroscopic properties of Eu <sup>3+</sup> doped tellurite glass containing silver nanoparticles. <b>2018</b> , 743, 586-596		34
261	Eu <sup>3+</sup> ions incorporated in sintered porous glasses: Structural and optical characterization. <b>2018</b> , 484, 105-110		5
260	Single step electrodeposition process using ionic liquid to grow highly luminescent silicon/rare earth (Er, Tb) thin films with tunable composition.. <b>2018</b> , 8, 3789-3797		10
259	Ultraviolet Upconversion Luminescence in a Highly Transparent Triply-Doped Gd <sup>3+</sup> /Mn <sup>3+</sup> /Yb <sup>3+</sup> Fluoride Phosphate Glasses. <b>2018</b> , 122, 2275-2284		22
258	Reduction Mechanisms of Cu-Doped NaO-ALO-SiO Glasses during Heating in H Gas. <b>2018</b> , 122, 1315-1322		5
257	Emission analysis of Tb <sup>3+</sup> and Sm <sup>3+</sup> ion-doped (Li <sup>+</sup> O/Na <sup>+</sup> O/K <sup>+</sup> O) and (Li <sup>+</sup> O + Na <sup>+</sup> O/Li <sup>+</sup> O + K <sup>+</sup> O/K <sup>+</sup> O + Na <sup>+</sup> O)-modified borosilicate glasses. <b>2018</b> , 33, 486-494		2
256	A novel temperature sensitive Sm <sup>3+</sup> doped niobate orange-red phosphor: The synthesis and characteristic luminescent property investigation. <b>2018</b> , 196, 32-35		28
255	Near-infrared up-conversion emission from erbium ions doped amorphous tellurite media: Judd-Ofelt evaluation. <b>2018</b> , 740, 617-625		14
254	Enhanced green upconversion luminescence properties of Er <sup>3+</sup> /Yb <sup>3+</sup> co-doped strontium gadolinium silicate oxyapatite phosphor. <i>Ceramics International</i> , <b>2018</b> , 44, 13852-13857	5.1	9
253	Structure and photoluminescence properties study of neodymium complexes containing fluorine ligands. <b>2018</b> , 212, 161-165		2

252	Reactivity of bulky Ln(ii) amidinates towards P, As, and AsS. <b>2018</b> , 54, 4770-4773		31
251	Influence of Bi <sup>3+</sup> ions on optical and luminescence properties of multi- component P <sub>2</sub> O <sub>5</sub> -PbO-Ga <sub>2</sub> O <sub>3</sub> -Pr <sub>2</sub> O <sub>3</sub> glass system. <i>Optical Materials</i> , <b>2018</b> , 77, 178-186	3-3	2
250	Effect of nanofiber/thin-film multilayers on the optical properties of thulium-doped silica-alumina. <b>2018</b> , 196, 442-448		3
249	Eu <sup>3+</sup> -doped Ba <sub>2</sub> TiSi <sub>2</sub> O <sub>8</sub> glass-ceramic powder incorporated in sintered porous glass: Structural and optical characterization. <b>2018</b> , 488, 44-51		2
248	Optical properties of Eu <sup>3+</sup> & Tb <sup>3+</sup> ions doped alkali oxide (Li <sub>2</sub> O/Na <sub>2</sub> O/K <sub>2</sub> O) modified boro phosphate glasses for red, green lasers and display device applications. <b>2018</b> , 535, 2-7		10
247	Green Electroluminescence of Al/Tb/Al/SiO <sub>2</sub> Devices Fabricated by Electron Beam Evaporation. <b>2018</b> , 215, 1700451		1
246	Effects of erbium content on the morphological and photoluminescent properties of sol-gel prepared yttrium oxide film. <i>Ceramics International</i> , <b>2018</b> , 44, 1916-1921	5.1	2
245	Structural and optical properties of rare-earths doped barium bismuth borate glasses. <b>2018</b> , 481, 239-247		19
244	Doping effects of cerium ion on structure and electrochemical properties of polyaniline. <b>2018</b> , 67, 121-126		9
243	Photoluminescence and thermal stability of Tb <sup>3+</sup> -doped Gd <sub>2</sub> O <sub>3</sub> nanoparticles embedded in SiO <sub>2</sub> host matrix. <b>2018</b> , 731, 889-897		8
242	Near-infrared luminescence of Bi <sub>2</sub> ZnOB <sub>2</sub> O <sub>6</sub> :Nd <sup>3+</sup> /PMMA composite. <i>Optical Materials</i> , <b>2018</b> , 75, 13-18	3.3	5
241	Morphological and Structural Characterization of Dy <sup>3+</sup> doped Titanium dioxide. <b>2018</b> , 5, 10805-10813		
240	Trimethyl phosphate based neutral ligand room temperature ionic liquids for electrodeposition of rare earth elements. <b>2018</b> , 96, 88-92		18
239	Optical spectroscopy and electrical analysis of La <sup>3+</sup> -doped PVA composite films for varistor and optoelectronic applications. <b>2018</b> , 29, 20424-20432		18
238	Time-asymmetric loop around an exceptional point over the full optical communications band. <b>2018</b> , 562, 86-90		72
237	Modification of relaxation dynamics in Tb <sup>3+</sup> :Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> nanopowders. <b>2018</b> , 98,		
236	Heteroleptic $\beta$ -diketonate Ln(III) complexes decorated with pyridyl substituted pyridazine ligands: synthesis, structure and luminescence properties. <b>2018</b> , 5, 3015-3027		13
235	Surface Plasmon Coupling in GaN:Eu Light Emitters with Metal-Nitrides. <b>2018</b> , 8, 13365		12

234	Structured blue emission in Bismuth doped fibers. <i>Optical Materials</i> , <b>2018</b> , 84, 663-667	3-3	
233	Electronic structure and optical properties of (Ga 70 La 30 ) 2 S 300 and (Ga 69.75 La 29.75 Er 0.5 ) 2 S 300 single crystals, novel light-converting materials. <b>2018</b> , 544, 10-16		7
232	Shape-Tunable Selective Synthesis of Bismuth Fluoride Nanostructures for Versatile Applications. <b>2018</b> , 35, 1800018		6
231	The investigation of optical and mechanical properties of Er <sup>3+</sup> doped Ga-As-S glasses quenched in different medias. <b>2018</b> , 93, 199-204		1
230	Synthesis and characterization of Er <sup>3+</sup> -Yb <sup>3+</sup> doped ZnO upconversion nanoparticles for solar cell application. <b>2018</b> , 766, 429-435		50
229	Intense electroluminescence from AlO/TbO nanolaminate films fabricated by atomic layer deposition on silicon. <b>2018</b> , 26, 9344-9352		15
228	Multifunctional possible application of the Er <sup>3+</sup> /Yb <sup>3+</sup> -coped Al <sub>2</sub> O <sub>3</sub> prepared by recyclable precursor (aluminum can) and also by sol-gel process. <i>Optical Materials</i> , <b>2018</b> , 84, 504-513	3-3	2
227	Structural and optical properties of cerium oxide doped barium bismuth borate glasses. <b>2018</b> , 499, 183-188		17
226	Ultraviolet optical excitation of near infrared emission of Yb-doped crystalline aluminum oxynitride thin films. <b>2018</b> , 124, 033102		1
225	Water-soluble polymers as chelating agents for the deposition of Er <sup>3+</sup> /Yb <sup>3+</sup> :LiNbO <sub>3</sub> waveguiding films. <b>2018</b> , 86, 274-284		3
224	Effect of Tb Doping on Structural and Optical Properties of (Cd <sub>0.8</sub> -Zn <sub>0.2</sub> )S Films Deposited Through a Chemical Route. <b>2018</b> , 47, 6532-6539		5
223	Effect of $\gamma$ -irradiation on optical properties of Eu O -doped polystyrene polymer films. <b>2018</b> , 33, 1243-1248		4
222	Synthesis, Luminescence Property and Thermal Quenching Investigation of Niobate Phosphors Ba <sub>3</sub> ZrNb <sub>4</sub> O <sub>15</sub> :Eu <sup>3+</sup> under Multiple Excitations. <b>2018</b> , 7, R94-R98		3
221	Formation of Ni nanoparticles in Al <sub>2</sub> O <sub>3</sub> :BiO <sub>2</sub> glass by reacting with hydrogen gas. <b>2019</b> , 54, 13883-13891		5
220	Effect of Rare-Earth Element Oxides on Diamond Crystallization in Mg-Based Systems. <b>2019</b> , 9, 300		8
219	Construction and Application of Lanthanide Luminescent Materials Based on Macrocycles. <b>2019</b> , 1-24		
218	Investigation of Novel Short Fiber-like Polyaniline/Cerium Nitrate Composite. <b>2019</b> , 34, 183-188		1
217	Controlling luminescence and quenching mechanisms in subnanometer multilayer structure of europium titanium oxide thin films. <b>2019</b> , 215, 116618		5

216	Novel high color purity phosphors Sr <sub>9</sub> Mg <sub>1.5</sub> (PO <sub>4</sub> ) <sub>7</sub> : Sm <sup>3+</sup> , R <sup>+</sup> (R = Li, Na, K): Crystal structure, luminescence and thermal quenching property investigation. <b>2019</b> , 215, 116606		8
215	Synthesis, Luminescence Property and Thermal Quenching Investigation of Eulytite-type Orthophosphates Ba <sub>7</sub> Hf(PO <sub>4</sub> ) <sub>6</sub> :Eu <sup>3+</sup> Phosphor. <b>2019</b> , 8, R133-R137		2
214	Structural and optical studies of aluminosilicate films doped with (Tb <sup>3+</sup> , Er <sup>3+</sup> )/Yb <sup>3+</sup> by ion implantation. <b>2019</b> , 459, 71-75		2
213	Femtosecond pulsed laser deposited Er <sup>3+</sup> -doped zinc-sodium tellurite glass on Si: Thin-film structural and photoluminescence properties. <b>2019</b> , 9, 085324		1
212	Effect of Erbium doping on GaN electronic and optical properties: First-principles study. <b>2019</b> , 33, 1950327		2
211	Influence of ionic liquids and concentration of red phosphorous on luminescent Cu <sub>3</sub> P nanocrystals. <b>2019</b> , 131, 1		2
210	Dynamics of infrared excitations in boron doped diamond. <b>2019</b> , 92, 259-265		3
209	B-Site doped lead halide perovskites: synthesis, band engineering, photophysics, and light emission applications. <b>2019</b> , 7, 2781-2808		93
208	Selective determination of -DOPA at a graphene oxide/yttrium oxide modified glassy carbon electrode. <b>2019</b> , 301, 192-199		19
207	Multicolor-tunable up-conversion emissions of Yb,Er/Ho co-doped BaLuZnO: crystal structure, luminescence and energy transfer properties. <b>2019</b> , 48, 2917-2925		14
206	Cu(InGa)Se <sub>2</sub> Solar Cell Efficiency Enhancement Using a Yb-Doped SnO <sub>x</sub> Photon Converting Layer. <b>2019</b> , 2, 5094-5102		7
205	Influence of Al on the local structure of Nd-doped TiO <sub>2</sub> thin films: A combined luminescence and X-ray absorption fine structure analysis. <b>2019</b> , 246, 49-52		3
204	Enhanced down-conversion luminescence properties of CaSc <sub>2</sub> O <sub>4</sub> : Eu <sup>3+</sup> crystals. <b>2019</b> , 214, 116526		
203	Upconversion emission of the GaN nanocrystals doped with rare earth ions. <b>2019</b> , 94, 127-132		2
202	The Mass stopping power / projected range and nuclear shielding behaviors of barium bismuth borate glasses and influence of cerium oxide. <i>Ceramics International</i> , <b>2019</b> , 45, 15348-15357	5-1	73
201	Luminescence properties of MOCVD grown Al <sub>0.2</sub> Ga <sub>0.8</sub> N layers implanted with Tb. <b>2019</b> , 210, 413-424		
200	Low temperature thermoluminescence of Gd <sub>2</sub> O <sub>3</sub> nanoparticles using various heating rate and T <sub>max</sub> vs T <sub>exc</sub> methods. <b>2019</b> , 12, 1809-1813		5
199	Synthesis and green luminescence of low cost Er <sub>2</sub> O <sub>3</sub> doped zinc silicate glass-ceramics as laser materials. <b>2019</b> , 184, 480-484		6

198	Synthesis, Thermal, Structural Analyses, and Photoluminescent Properties of a New Family of Malonate-Containing Lanthanide(III) Coordination Polymers. <b>2019</b> , 7, 260	7
197	Introduction to Glass and Glass-Ceramic Background. <b>2019</b> , 1-11	
196	Blue Electroluminescent Al <sub>0.7</sub> Tm <sub>0.3</sub> O <sub>3</sub> Nanolaminate Films Fabricated by Atomic Layer Deposition on Silicon. <b>2019</b> , 9,	9
195	Novel Nd-doping effect on structural, morphological, optical, and electrical properties of facilyly fabricated PbI <sub>2</sub> thin films applicable to optoelectronic devices. <b>2019</b> , 9, 1417-1426	49
194	Preparation and investigation of suitability of gadolinium oxide nanoparticle doped polyvinyl alcohol films for optoelectronic applications. <b>2019</b> , 30, 9051-9063	17
193	Enhanced visible emission in Eu <sup>3+</sup> doped glass containing Ag-clusters, Ag nanoparticles, and ZnO nanocrystals. <b>2019</b> , 793, 410-417	8
192	Large enhancement in upconverted green emission intensity from Ho <sup>3+</sup> /Yb <sup>3+</sup> co-doped Y <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> phosphor in the presence of Zn <sup>2+</sup> . <b>2019</b> , 115, 219-226	16
191	Synthesis and concentration dependent tuning of PVA-Sm <sub>2</sub> O <sub>3</sub> nanocomposite films for optoelectronic applications. <b>2019</b> , 6, 075017	3
190	Tailoring Upconversion and Morphology of Yb/Eu Doped Y <sub>2</sub> O <sub>3</sub> Nanostructures by Acid Composition Mediation. <b>2019</b> , 9,	13
189	Structural and luminescence characterization of a Dy/Tb co-doped borophosphate glass. <b>2019</b> , 526, 119719	5
188	WITHDRAWN: Irradiation effects on Nd and W doped Aluminum Nitride thin films. <b>2019</b> , 411965	
187	Room temperature cathodoluminescence quenching of Er <sup>3+</sup> in AlNOEr. <b>2019</b> , 205, 97-101	0
186	Up-conversion luminescence of RE <sup>3+</sup> -doped polymer composites KGd(WO <sub>4</sub> ) <sub>2</sub> &PMMA. <i>Optical Materials</i> , <b>2019</b> , 88, 366-371	3-3 6
185	Recent advances in near-infrared emitting lanthanide-doped nanoconstructs: Mechanism, design and application for bioimaging. <b>2019</b> , 381, 104-134	165
184	Enhanced green photoluminescence of erbium doped Zn <sub>2</sub> SiO <sub>4</sub> glass-ceramics as phosphor in optoelectronic devices. <b>2019</b> , 783, 441-447	5
183	. <b>2019</b> , 37, 2590-2597	9
182	Monolithic crystalline silicon solar cells with SiN <sub>x</sub> layers doped with Tb <sup>3+</sup> and Yb <sup>3+</sup> rare-earth ions. <b>2019</b> , 37, 515-519	9
181	Photoluminescence properties of Er <sup>3+</sup> /Yb <sup>3+</sup> doped ZrO <sub>2</sub> coatings formed by plasma electrolytic oxidation. <b>2019</b> , 208, 296-301	10



180	Synthesis and luminescent properties investigation of novel red emission phosphors Ca <sub>7</sub> Zn <sub>2</sub> (PO <sub>4</sub> ) <sub>6</sub> : Re <sup>3+</sup> (Re=Eu, Sm and Pr). <b>2019</b> , 1181, 203-208		6
179	The influence of yttrium-ions on the optical and electrical behavior of PVA polymeric films. <b>2019</b> , 6, 045313		8
178	Damage and photoluminescence analysis of RbTiOPO <sub>4</sub> crystals induced by europium ion implantation. <b>2019</b> , 161, 404-409		
177	Photoluminescence linewidth narrowing in Yb-doped GaN and InGaN thin films. <b>2019</b> , 209, 237-243		1
176	Multifunctional $\beta$ -NaGdF <sub>4</sub> : Ln <sup>3+</sup> (Ln=Yb/Er/Eu) phosphors synthesized by l-arginine assisted hydrothermal method and their multicolor tunable luminescence. <b>2019</b> , 110, 141-148		13
175	Ho <sub>2</sub> WO <sub>6</sub> /ZnO nanoflakes for photoelectrochemical and self cleaning applications. <b>2019</b> , 90, 78-86		5
174	Novel silicate glasses in the acceleration of hydrogen diffusion for reducing dopant metal ions. <b>2019</b> , 503-504, 260-267		4
173	The peculiarities of structural and optical properties of HfO <sub>2</sub> -based films co-doped with silicon and erbium. <b>2019</b> , 471, 521-527		5
172	Nd <sup>3+</sup> doped new oxyfluoro tellurite glasses and glass ceramics containing NaYF <sub>4</sub> nano crystals $\lambda$ .06 $\mu$ m emission analysis. <b>2019</b> , 207, 469-476		16
171	Thermal stability and spectroscopic study of Ho <sup>3+</sup> /Yb <sup>3+</sup> co-doped fluorophosphates glasses. <b>2019</b> , 31, 628-634		2
170	Infrared-laser and upconversion luminescence in Ho <sup>3+</sup> +Yb <sup>3+</sup> codoped tellurite glass microsphere. <b>2020</b> , 218, 116826		10
169	Reduction of Sm <sup>3+</sup> and Eu <sup>3+</sup> ions-co-doped Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> glasses and photoluminescence properties. <i>Optical Materials</i> , <b>2020</b> , 100, 109639	3-3	7
168	A sensitive temperature probe based on Er <sup>3+</sup> -doped GeO <sub>x</sub> films. <b>2020</b> , 16, 102871		2
167	Photoluminescence and EPR studies of narrowband ultraviolet B emitting trivalent gadolinium activated CaLaAl <sub>3</sub> O <sub>7</sub> phosphors. <b>2020</b> , 206, 163978		1
166	SnO <sub>2</sub> -nanocrystals for enhancing the fluorescence of Eu <sup>3+</sup> ions in sol-gel-derived glasses. <b>2020</b> , 139, 109312		4
165	Erbium-doped yttria-stabilised zirconia thin films grown by pulsed laser deposition for photonic applications. <i>Thin Solid Films</i> , <b>2020</b> , 693, 137706	2.2	1
164	Enhanced photoluminescence via doping of phosphate, sulphate and vanadate ions in Eu <sup>3+</sup> doped La <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> downconversion phosphors for white LEDs. <b>2020</b> , 124, 105974		18
163	Synthesis and Characterization of a Novel Erbium Doped Poly(vinyl alcohol) Films for Multifunctional Optical Materials. <b>2020</b> , 30, 2418-2429		17

162	Efficient Er:LiNbO <sub>3</sub> radiative transition regulated by optimizing the sensitization mechanism. <b>2020</b> , 228, 117853	1
161	Effect of rare earth oxides addition on the mechanical properties and coloration of silicon nitride ceramics. <b>2020</b> , 40, 1132-1138	4
160	Erbium-Doped Yttria-Stabilized Zirconia Thin Layers for Photonic Applications. <b>2020</b> , 56, 1-7	5
159	Exploration of the green electroluminescence from Al <sub>2</sub> O <sub>3</sub> /Ho <sub>2</sub> O <sub>3</sub> nanolaminate films fabricated by atomic layer deposition on silicon. <i>Optical Materials</i> , <b>2020</b> , 107, 110125	3-3 3
158	The effect of rare earth element (Er, Yb) doping and heat treatment on suspension stability of Y <sub>2</sub> O <sub>3</sub> nanoparticles elaborated by sol-gel method. <b>2020</b> , 9, 12634-12642	5
157	Role of Rare Earth Elements and Entropy on the Anatase-To-Rutile Phase Transformation of TiO <sub>2</sub> Thin Films Deposited by Ion Beam Sputtering. <b>2020</b> , 5, 28027-28036	5
156	Investigation of samarium-doped PbS thin films fabricated using nebulizer spray technique for photosensing applications. <b>2020</b> , 148, 106723	8
155	Lattice constriction and trapped excitons: a structure-property relationship unveiled in CsPbBr <sub>3</sub> perovskite QDs. <b>2020</b> , 8, 17090-17098	6
154	Synthesis and Fabrication of Y-Doped ZnO Nanoparticles and Their Application as a Gas Sensor for the Detection of Ammonia. <b>2020</b> , 29, 4586-4596	19
153	A Comparative Study on Luminescence Properties of Y <sub>2</sub> O <sub>3</sub> : Pr Nanocrystals Prepared by Different Synthesis Methods. <b>2020</b> , 10,	4
152	Preparation method and cerium dopant effects on the properties of BaMnO <sub>3</sub> single perovskite. <b>2020</b> , 93, 981-991	10
151	Structural Dependent Eu Luminescence, Photoelectric and Hysteresis Effects in Porous Strontium Titanate. <b>2020</b> , 13,	3
150	Single-step approach to sensitized luminescence through bulk-embedded organics in crystalline fluorides. <b>2020</b> , 3,	3
149	Tunable Photoluminescence of Polyvinyl Alcohol Electrospun Nanofibers by Doping of NaYF <sub>4</sub> : Eu <sup>3+</sup> Nanophosphor. <b>2020</b> , 2020, 1-8	7
148	Study of RE ion-doped oxide glass materials for photonic applications. <b>2020</b> , 293-304	
147	Formation mechanism of NdSi <sub>3</sub> N <sub>5</sub> nanocrystals via hot-injection and heat-up methods. <b>2020</b> , 124, 114286	
146	Correlations between the structural transformations and concentration quenching effect for RE-implanted ZnO systems. <b>2020</b> , 521, 146421	7
145	Effect of Ag nanoparticles on the Judd-Ofelt and radiative parameters of Sm <sup>3+</sup> ions in sol-gel silica matrix. <b>2020</b> , 226, 117414	2

144	Photoluminescence and Stoichiometry Correlation in Nanocrystalline EuO Thin Films: Tunable Color Emission. <b>2020</b> , 124, 15434-15439	7
143	Irradiation effects on Nd and W doped Aluminum Nitride thin films. <b>2020</b> , 586, 412086	5
142	Investigation of structural, microstructural and magnetic properties of Yb Y1-F3 solid solutions. <b>2020</b> , 142, 109449	
141	Unravelling the Mystery of Solid Solutions: A Case Study of Y Solid-State NMR Spectroscopy. <b>2020</b> , 21, 825-836	1
140	Photocatalytic activities of antimony, iodide, and rare earth metals on SnO <sub>2</sub> for the photodegradation of phenol under UV, solar, and visible light irradiations. <b>2020</b> , 129-288	1
139	Conduction and relaxation mechanisms in gadolinium oxide nanoparticle doped polyvinyl alcohol films. <b>2020</b> , 23, 100942	1
138	Observation of optical gain in Er-Doped GaN epilayers. <b>2020</b> , 221, 117090	4
137	Influence of optimized concentration of samarium (III) ions on structural, optical and fluorescence properties of calcium-based lead borate glasses for reddish-orange device applications. <b>2020</b> , 126, 1	2
136	Effects of post-annealing on photoluminescence of Eu-doped ZnO microsphere for single-component white-light materials. <b>2020</b> , 209, 164607	7
135	A Study of Eu Doping in Nanolayers of CsPbBr <sub>3</sub> using Ab Initio Calculations to Understand f-f Transitions in Eu <sup>3+</sup> -Doped Nanocrystals for Light-Emitting Diodes. <b>2020</b> , 3, 4437-4444	4
134	Conductive transparent (InGa)2O <sub>3</sub> film as host for rare earth Eu. <b>2020</b> , 10, 025024	
133	Peak stimulated emission cross sections and quantum efficiencies of Sm <sup>3+</sup> and Sm <sup>3+</sup> -Eu <sup>3+</sup> co-doped bismuth boro-tellurite glasses. <b>2021</b> , 258, 123886	8
132	Step by step rare-earth catalyzed SiO <sub>x</sub> annealing and simultaneous formation of Europium- silicide by low coverage of Eu doped Gd <sub>2</sub> O <sub>3</sub> nanoparticles. <b>2021</b> , 704, 121743	1
131	Impact of Pr <sub>2</sub> O <sub>3</sub> on the physical and optical properties of multi-component borate glasses. <b>2021</b> , 257, 123796	6
130	An overview of rare earth coupled lead halide perovskite and its application in photovoltaics and light emitting devices. <b>2021</b> , 120, 100737	10
129	PAA Modified Upconversion Nanoparticles for Highly Selective and Sensitive Detection of Cu Ions. <b>2020</b> , 8, 619764	8
128	Optical polarizability of erbium-oxygen complexes in sol-gel-based silica films. <b>2021</b> , 54, 135101	0
127	Stable deep blue emission with unity quantum yield in organic/inorganic halide perovskite 2D nanosheets doped with cerium and terbium at high concentrations. <b>2021</b> , 9, 2437-2454	5

126	Study of emission and optical interaction in the UO <sub>2</sub> /Nd system doped in zinc phosphate glass. 1		0
125	Synthesis and characterization of Eu <sup>3+</sup> -doped TiO <sub>2</sub> thin films deposited by spray pyrolysis technique for photocatalytic application. <b>2021</b> , 8, 026402		9
124	Yttrium Oxide Nanoparticle Synthesis: An Overview of Methods of Preparation and Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2172	2.6	24
123	Structural and optical properties of Nd <sup>3+</sup> doped GeO <sub>2</sub> -PbO glass modified by TiO <sub>2</sub> for applications in laser and fiber amplifier. <i>Optical Materials</i> , <b>2021</b> , 113, 110884	3.3	4
122	A Multi-Dimensional Perspective on Electronic Doping in Metal Halide Perovskites. <b>2021</b> , 6, 1104-1123		13
121	Bright red electroluminescence from Al <sub>2</sub> O <sub>3</sub> /Eu <sub>2</sub> O <sub>3</sub> nanolaminate films fabricated by atomic layer deposition on silicon. <b>2021</b> , 196, 113750		5
120	Photoluminescence properties of green emitting phosphor Y <sub>4</sub> Al <sub>2</sub> O <sub>9</sub> : Tb <sup>3+</sup> derived by modified combustion route. <b>2021</b> , 1913, 012038		0
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