

# Rong-Jun Xie

## 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.

276  
papers

15,727  
citations

63  
h-index

114  
g-index

297  
ext. papers

18,391  
ext. citations

6.4  
avg, IF

7.09  
L-index

#	Paper	IF	Citations
276	Ultrastable and highly efficient green-emitting perovskite quantum dot composites for Mini-LED displays or backlights. <i>Nano Energy</i> , <b>2022</b> , 95, 107003	17.1	8
275	Extremely low efficiency roll-off in vacuum- and solution-processed deep-red/near-infrared OLEDs based on 1,8-naphthalimide TADF emitters. <i>Journal of Luminescence</i> , <b>2022</b> , 243, 118683	3.8	0
274	Core-shell zeolite imidazole framework-derived ZnSe@CoSe <sub>2</sub> /C heterostructure enabling robust polysulfide adsorption and rapid Li <sup>+</sup> diffusion in high-rate and high-loading lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133099	14.7	2
273	Structure elucidation of luminescent centers in green emitting Eu <sup>2+</sup> doped Si <sub>6</sub> -zAlzOzN <sub>8</sub> -z phosphors. <i>Scripta Materialia</i> , <b>2022</b> , 207, 114238	5.6	1
272	Enabling robust and hour-level organic long persistent luminescence from carbon dots by covalent fixation.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 80	16.7	9
271	Microstructure tailoring of red-emitting AlN-CaAlSiN <sub>3</sub> :Eu <sup>2+</sup> composite phosphor ceramics with higher optical properties for laser lighting. <i>Journal of the European Ceramic Society</i> , <b>2022</b> , 42, 3339-3344 <sup>6</sup>	6	2
270	Bi-color phosphor-in-glass films achieve superior color quality laser-driven stage spotlights. <i>Chemical Engineering Journal</i> , <b>2022</b> , 444, 136591	14.7	2
269	Encapsulation-Enabled Perovskite-PMMA Films Combining a Micro-LED for High-Speed White-Light Communication. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54143-54151	9.5	7
268	Lanthanide-doped metal-organic frameworks with multicolor mechanoluminescence. <i>Science China Materials</i> , <b>2021</b> , 64, 931-941	7.1	7
267	Mechanoluminescence Rebrightening the Prospects of Stress Sensing: A Review. <i>Advanced Materials</i> , <b>2021</b> , e2005925	24	35
266	Tunable White Light Emission in a Zero-Dimensional Organic-Inorganic Metal Halide Hybrid with Ultra-High Color Rendering Index. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2002246	8.1	14
265	Screening and discovery of phosphors by the single-particle-diagnosis approach. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 123106	2.5	4
264	Phosphorus-Doped Metal-Organic Framework-Derived CoS Nanoboxes with Improved Adsorption-Catalysis Effect for Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15226-15236 <sup>9,5</sup>	9.5	9
263	Achieving Remote Stress and Temperature Dual-Modal Imaging by Double-Lanthanide-Activated Mechanoluminescent Materials. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101567	15.6	20
262	Unraveling the Luminescence Quenching of Phosphors under High-Power-Density Excitation. <i>Acta Materialia</i> , <b>2021</b> , 209, 116813	8.4	9
261	NaMgF <sub>3</sub> :Tb <sup>3+</sup> @NaMgF <sub>3</sub> Nanoparticles Containing Deep Traps for Optical Information Storage. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100624	8.1	11
260	X-ray-charged bright persistent luminescence in NaYF <sub>4</sub> :Ln@NaYF <sub>4</sub> nanoparticles for multidimensional optical information storage. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 132	16.7	41

259	Composition and structure design of three-layered composite phosphors for high color rendering chip-on-board light-emitting diode devices. <i>Journal of Advanced Ceramics</i> , <b>2021</b> , 10, 729-740	10.7	9
258	Highly stable CsPbI <sub>3</sub> :Sr <sup>2+</sup> nanocrystals with near-unity quantum yield enabling perovskite light-emitting diodes with an external quantum efficiency of 17.1%. <i>Nano Energy</i> , <b>2021</b> , 85, 106033	17.1	30
257	Enhanced Performance of Perovskite Solar Cells Loaded with Iodine-Rich CsPbI <sub>3</sub> Quantum Dots. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 7535-7543	6.1	0
256	Ternary solid solution phosphors Ca <sub>1-x</sub> Li <sub>x</sub> Al <sub>1-x</sub> Si <sub>1+x</sub> N <sub>3</sub> O <sub>7</sub> :Ce <sup>3+</sup> with enhanced thermal stability for high-power laser lighting. <i>Chemical Engineering Journal</i> , <b>2021</b> , 404, 126575	14.7	24
255	Facial synthesis of highly stable and bright CsPbX <sub>3</sub> (X=Cl, Br, I) perovskite nanocrystals via an anion exchange at the water-oil interface. <i>Science China Materials</i> , <b>2021</b> , 64, 158-168	7.1	5
254	Near-Unity Cyan-Green Emitting Lead-Free All-Inorganic Cesium Copper Chloride Phosphors for Full-Spectrum White Light-Emitting Diodes. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000158	1.9	7
253	Sensing studies and applications based on metal halide perovskite materials: Current advances and future perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 134, 116127	14.6	21
252	In Situ Inkjet Printing Patterned Lead Halide Perovskite Quantum Dot Color Conversion Films by Using Cheap and Eco-Friendly Aqueous Inks.. <i>Small Methods</i> , <b>2021</b> , 5, e2000889	12.8	15
251	Broadband white luminescent phosphor Ba(Si <sub>7-x</sub> Al <sub>x</sub> )Li <sub>y</sub> (N <sub>10-x+y</sub> O <sub>x+y</sub> ):Eu <sup>2+</sup> with a high color rendering index for solid state lighting. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5497-5504	7.1	1
250	Broadband near-infrared phosphor BaMgAl <sub>10</sub> O <sub>17</sub> :Cr <sup>3+</sup> realized by crystallographic site engineering. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 129224	14.7	29
249	Large-scale room-temperature synthesis of high-efficiency lead-free perovskite derivative (NH <sub>4</sub> ) <sub>2</sub> SnCl <sub>6</sub> :Te phosphor for warm wLEDs. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129740	14.7	11
248	Highly thermal conductive red-emitting AlN-CaAlSiN <sub>3</sub> :Eu <sup>2+</sup> composite phosphor ceramics for high-power laser-driven lighting. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 5650-5657	6	7
247	TEM study of edge reconstruction and evolution in monolayer black phosphorus. <i>Nanoscale</i> , <b>2021</b> , 13, 4133-4139	7.7	4
246	Inkjet-Printed Quantum Dot Color Conversion Films for High-Resolution and Full-Color Micro Light-Emitting Diode Displays. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 5184-5191	6.4	44
245	Ratiometric fluorescence detection of 2,6-pyridine dicarboxylic acid with a dual-emitting lanthanide metal-organic framework (MOF). <i>Optical Materials</i> , <b>2020</b> , 106, 110006	3.3	17
244	Blue-emitting and self-assembled thinner perovskite CsPbBr nanoplates: synthesis and formation mechanism. <i>Nanoscale</i> , <b>2020</b> , 12, 9231-9239	7.7	17
243	Recent processes on light-emitting lead-free metal halide perovskites. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124757	14.7	33
242	Novel Mn doped red phosphors composed of MgAlO and CaAlO phases for light-emitting diodes. <i>Dalton Transactions</i> , <b>2020</b> , 49, 3606-3614	4.3	13

- 241 Recent progress on discovery of novel phosphors for solid state lighting. *Journal of Rare Earths*, **2020**, 38, 464-473 3.7 20
- 240 Electronic Structure and Optical Properties of Vacancy-Ordered Double Perovskites Cs<sub>2</sub>PdBr<sub>x</sub>Cl<sub>6-x</sub> by First-Principles Calculation. *Journal of Physical Chemistry C*, **2020**, 124, 13310-13315 3.8 18
- 239 Enhanced quantum efficiency and thermal stability in tunable yellow-emitting Sr Ca<sub>1-x</sub>AlSi<sub>3</sub>N<sub>3</sub>:Ce<sup>3+</sup> phosphor. *Journal of Alloys and Compounds*, **2020**, 831, 154791 5.7 4
- 238 Interstitial Site Engineering for Creating Unusual Red Emission in La<sub>3</sub>Si<sub>6</sub>N<sub>11</sub>:Ce<sup>3+</sup>. *Chemistry of Materials*, **2020**, 32, 3631-3640 9.6 18
- 237 Development of sialon phosphors and their applications to solid-state lighting. *Journal of the Ceramic Society of Japan*, **2020**, 128, 710-717 1 2
- 236 Discovery of a Ce<sup>3+</sup>-activated red nitride phosphor for high-brightness solid-state lighting. *Journal of Materials Chemistry C*, **2020**, 8, 14402-14408 7.1 11
- 235 Critical Review Data-Driven Discovery of Novel Phosphors. *ECS Journal of Solid State Science and Technology*, **2020**, 9, 016013 2 11
- 234 Realizing high-brightness and ultra-wide-color-gamut laser-driven backlighting by using laminated phosphor-in-glass (PiG) films. *Journal of Materials Chemistry C*, **2020**, 8, 1746-1754 7.1 24
- 233 Broadband near-infrared (NIR) emission realized by the crystal-field engineering of Y<sub>3-x</sub>CaxAl<sub>5-x</sub>Si<sub>6-x</sub>O<sub>12</sub>:Cr<sup>3+</sup> (x = 0.0) garnet phosphors. *Journal of Materials Chemistry C*, **2020**, 8, 1981-1988 7.1 68
- 232 A new persistent blue-emitting phosphor: Tailoring the trap density for enhancing the persistent time. *Applied Materials Today*, **2020**, 18, 100518 6.6 9
- 231 Creating visible-to-near-infrared mechanoluminescence in mixed-anion compounds SrZn<sub>2</sub>S<sub>2</sub>O and SrZnSO. *Nano Energy*, **2020**, 68, 104329 17.1 39
- 230 Dual-site occupancy induced broadband cyan emission in Ba<sub>2</sub>Ca<sub>2</sub>Si<sub>4</sub>O<sub>14</sub>:Ce<sup>3+</sup>. *Journal of Materials Chemistry C*, **2020**, 8, 15626-15633 7.1 22
- 229 A selective and sensitive fluorescent probe for bilirubin in human serum based on europium(III) post-functionalized Zr(IV)-Based MOFs. *Talanta*, **2020**, 212, 120795 6.2 29
- 228 Realizing Tunable White Light Emission in Lead-Free Indium(III) Bromine Hybrid Single Crystals through Antimony(III) Cation Doping. *Journal of Physical Chemistry Letters*, **2020**, 11, 10164-10172 6.4 28
- 227 YAGG:Ce Phosphor-in-YAG Ceramic: An Efficient Green Color Converter Suitable for High-Power Blue Laser Lighting. *ACS Applied Electronic Materials*, **2020**, 2, 2644-2650 4 12
- 226 Highly Efficient Lead-Free (Bi,Ce)-Codoped Cs<sub>2</sub>Ag<sub>0.4</sub>Na<sub>0.6</sub>InCl<sub>6</sub> Double Perovskites for White Light-Emitting Diodes. *Chemistry of Materials*, **2020**, 32, 7814-7821 9.6 49
- 225 Force-induced charge carrier storage: a new route for stress recording. *Light: Science and Applications*, **2020**, 9, 182 16.7 39
- 224 Realizing red/orange emission of Eu<sup>2+</sup>/Ce<sup>3+</sup> in La<sub>26-x</sub>Sr<sub>x</sub>Si<sub>41</sub>O<sub>x+1</sub>N<sub>80-x</sub> (x = 12.72-12.90) phosphors for high color rendition white LEDs. *Journal of Materials Chemistry C*, **2020**, 8, 13458-13466 7.1 5

223	A universal HF-free synthetic method to highly efficient narrow-band red-emitting A <sub>2</sub> XF <sub>6</sub> :Mn <sup>4+</sup> (A = K, Na, Rb, Cs; X = Si, Ge, Ti) phosphors. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 1018-1026	3.8	13
222	Highly Stable and Efficient Lead Halide Perovskite Nanocrystals for Light-Emitting Diodes Displays. <i>ECS Meeting Abstracts</i> , <b>2020</b> , MA2020-02, 2721-2721	0	
221	A search for extra-high brightness laser-driven color converters by investigating thermally-induced luminance saturation. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11449-11456	7.1	41
220	Improving the luminous efficacy and resistance to blue laser irradiation of phosphor-in-glass based solid state laser lighting through employing dual-functional sapphire plate. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 354-361	7.1	40
219	Blue, green, and red full-color ultralong afterglow in nitrogen-doped carbon dots. <i>Nanoscale</i> , <b>2019</b> , 11, 6584-6590	7.7	101
218	Structure, luminescence and energy transfer in Ce <sup>3+</sup> and Mn <sup>2+</sup> codoped $\beta$ -AlON phosphors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 733-742	7.1	42
217	Ultrasonic synthesis of Mn-doped CsPbCl <sub>3</sub> quantum dots (QDs) with enhanced photoluminescence. <i>Optical Materials</i> , <b>2019</b> , 94, 41-46	3.3	12
216	Transparent Ceramics Enabling High Luminous Flux and Efficacy for the Next-Generation High-Power LED Light. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21697-21701	9.5	23
215	A new CaF <sub>2</sub> -YAG:Ce composite phosphor ceramic for high-power and high-color-rendering WLEDs. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8569-8574	7.1	27
214	Enhanced thermal degradation stability of the Sr <sub>2</sub> Si <sub>5</sub> N <sub>8</sub> :Eu <sup>2+</sup> phosphor by ultra-thin Al <sub>2</sub> O <sub>3</sub> coating through the atomic layer deposition technique in a fluidized bed reactor. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5772-5781	7.1	14
213	Thermally self-managing YAG:Ce/Al <sub>2</sub> O <sub>3</sub> color converters enabling high-brightness laser-driven solid state lighting in a transmissive configuration. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 3901-3908	7.1	57
212	A Layered Lithium-Rich Li(Li <sub>0.2</sub> Ni <sub>0.15</sub> Mn <sub>0.55</sub> Co <sub>0.1</sub> )O <sub>2</sub> Cathode Material: Surface Phase Modification and Enhanced Electrochemical Properties for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1542-1551	4.3	6
211	Significantly improved photoluminescence of the green-emitting $\beta$ -sialon:Eu <sup>2+</sup> phosphor via surface coating of TiO <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 294-302	3.8	2
210	Data-Driven Discovery of Full-Visible-Spectrum Phosphor. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6286-6294	9.6	54
209	A Facile Synthesis of Water-Resistant CsPbBr <sub>3</sub> Perovskite Quantum Dots Loaded Poly(methyl methacrylate) Composite Microspheres Based on In Situ Polymerization. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901075	8.1	18
208	Preparation and optical properties of MgAl <sub>2</sub> O <sub>4</sub> -Ce:GdYAG composite ceramic phosphors for white LEDs. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 4965-4971	6	19
207	New Deep-Blue-Emitting Ce-Doped ABCX (A = Sr, La; B = Li; C = Si, Al; X = O, N; 0 $\leq$ x $\leq$ 1) Phosphors for High-Color-Rendering Warm White Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29047-29055	9.5	11
206	A promising thermally robust blue-green Li-sialon:Ce <sup>3+</sup> for ultraviolet LED-driven white LEDs. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 1004-1012	5.7	7

205	Two-Site Occupation for Exploring Ultra-Broadband Near-Infrared Phosphor Double-Perovskite $\text{La}_2\text{MgZrO}_6:\text{Cr}^{3+}$ . <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5245-5253	9.6	155
204	Unique Design Strategy for Laser-Driven Color Converters Enabling Superhigh-Luminance and High-Directionality White Light. <i>Laser and Photonics Reviews</i> , <b>2019</b> , 13, 1900147	8.3	46
203	Dual-Band Luminescent Lead-Free Antimony Chloride Halides with Near-Unity Photoluminescence Quantum Efficiency. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9363-9371	9.6	94
202	Warm White Light with a High Color-Rendering Index from a Single $\text{GdAlGaO}:\text{Ce}$ Transparent Ceramic for High-Power LEDs and LDs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2130-2139	9.5	80
201	Chromium-Doped Zinc Gallogermanate@Zeolitic Imidazolate Framework-8: A Multifunctional Nanoplatform for Rechargeable In Vivo Persistent Luminescence Imaging and pH-Responsive Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1907-1916	9.5	51
200	Trimethylsilyl Iodine-Mediated Synthesis of Highly Bright Red-Emitting $\text{CsPbI}_3$ Perovskite Quantum Dots with Significantly Improved Stability. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 881-889	9.6	64
199	A Thermally Robust $\text{La}_3\text{Si}_6\text{N}_{11}:\text{Ce}$ -in-Glass Film for High-Brightness Blue-Laser-Driven Solid State Lighting. <i>Laser and Photonics Reviews</i> , <b>2019</b> , 13, 1800216	8.3	45
198	On the luminance saturation of phosphor-in-glass (PiG) films for blue-laser-driven white lighting: Effects of the phosphor content and the film thickness. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 1909-1917	6	33
197	Uniform and fine $\text{Mg}-\square\text{-ALON}$ powders prepared from $\text{MgAl}_2\text{O}_4$ : A promising precursor material for highly-transparent $\text{Mg}-\square\text{-ALON}$ ceramics. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 928-933	6	3
196	A high-performance non-rare-earth deep-red-emitting $\text{Ca}_{14-x}\text{Sr}_x\text{Zn}_6\text{Al}_{10}\text{O}_{35}:\text{Mn}^{4+}$ phosphor for high-power plant growth LEDs. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 781, 702-709	5.7	30
195	Achieving deep-red-to-near-infrared emissions in Sn-doped $\text{Cu-In-S/ZnS}$ quantum dots for red-enhanced white LEDs and near-infrared LEDs. <i>Nanoscale</i> , <b>2018</b> , 10, 9788-9795	7.7	21
194	Unique Color Converter Architecture Enabling Phosphor-in-Glass (PiG) Films Suitable for High-Power and High-Luminance Laser-Driven White Lighting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14930-14940	9.5	104
193	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. <i>Chemical Reviews</i> , <b>2018</b> , 118, 1951-2009	68.1	406
192	A green synthetic route to the highly efficient $\text{K}_2\text{SiF}_6:\text{Mn}^{4+}$ narrow-band red phosphor for warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2741-2746	7.1	76
191	Trap Depth Engineering of $\text{SrSiON}:\text{Ln}$ , $\text{Ln}$ ( $\text{Ln} = \text{Yb}, \text{Eu}; \text{Ln} = \text{Dy}, \text{Ho}, \text{Er}$ ) Persistent Luminescence Materials for Information Storage Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1854-1864	8.5	114
190	Optical Data Storage and Multicolor Emission Readout on Flexible Films Using Deep-Trap Persistent Luminescence Materials. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705769	15.6	175
189	Composition-dependent thermal degradation of red-emitting $(\text{Ca}_{1-x}\text{Sr}_x)\text{AlSiN}_3:\text{Eu}^{2+}$ phosphors for high color rendering white LEDs. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 890-898	7.1	27
188	Achieving Multicolor Long-Lived Luminescence in Dye-Encapsulated Metal-Organic Frameworks and Its Application to Anticounterfeiting Stamps. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1802-1809	9.5	111

187	Photoluminescence efficiency significantly enhanced by surface modification of SiO <sub>2</sub> coating on β-Sialon:Eu <sup>2+</sup> phosphor particle. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 741, 454-458	5.7	4
186	Critical Review Narrow-Band Nitride Phosphors for Wide Color-Gamut White LED Backlighting. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, R3064-R3078	2	54
185	Single-particle-diagnosis approach: An efficient strategy for discovering new nitride phosphors. <i>Journal of Rare Earths</i> , <b>2018</b> , 36, 42-48	3.7	13
184	Synthesis of Eu/Eu Co-Doped Gallium oxide nanocrystals as a full colour converter for white light emitting diodes. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 530, 52-57	9.3	10
183	Tailoring Trap Depth and Emission Wavelength in YAlGa O:Ce,V Phosphor-in-Glass Films for Optical Information Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27150-27159	9.5	57
182	High-power laser-driven phosphor-in-glass for excellently high conversion efficiency white light generation for special illumination or display backlighting. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8212-8218	7.1	57
181	Novel luminescent properties and thermal stability of non-rare-earth Ca-β-Sialon:Mn <sup>2+</sup> phosphor. <i>Journal of Luminescence</i> , <b>2018</b> , 202, 514-522	3.8	9
180	Achieving High Quantum Efficiency Narrow-Band β-Sialon:Eu <sup>2+</sup> Phosphors for High-Brightness LCD Backlights by Reducing the Eu <sup>3+</sup> Luminescence Killer. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 494-505	9.6	157
179	Nitride and oxynitride phosphors for white LEDs: Synthesis, new phosphor discovery, crystal structure. <i>Progress in Solid State Chemistry</i> , <b>2018</b> , 51, 41-51	8	71
178	Improved stability of CsPbBr perovskite quantum dots achieved by suppressing interligand proton transfer and applying a polystyrene coating. <i>Nanoscale</i> , <b>2018</b> , 10, 21441-21450	7.7	47
177	Significantly enhanced photoluminescence and thermal stability of LaSiNO:Ce,Tb the Ce -Tb energy transfer: a blue-green phosphor for ultraviolet LEDs.. <i>RSC Advances</i> , <b>2018</b> , 8, 35271-35279	3.7	10
176	Color Conversion Materials for High-Brightness Laser-Driven Solid-State Lighting. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1800173	8.3	129
175	Color-Tunable and High-Efficiency Dye-Encapsulated Metal-Organic Framework Composites Used for Smart White-Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18910-18917	9.5	61
174	A novel Eu <sup>2+</sup> activated G-La <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> phosphor for white LEDs: SiC-reduction synthesis, tunable luminescence and good thermal stability. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1614-1623	7.1	25
173	A robust red-emitting phosphor-in-glass (PiG) for use in white lighting sources pumped by blue laser diodes. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 702, 193-198	5.7	73
172	Effects of LiF on the microstructure and optical properties of hot-pressed MgAl <sub>2</sub> O <sub>4</sub> ceramics. <i>Ceramics International</i> , <b>2017</b> , 43, 6891-6897	5.1	20
171	Phase formation of (Y,Ce) <sub>2</sub> BaAl <sub>4</sub> SiO <sub>12</sub> yellow microcrystal-glass phosphor for blue LED pumped white lighting. <i>Ceramics International</i> , <b>2017</b> , 43, 6425-6429	5.1	11
170	Y <sub>2</sub> Si <sub>4</sub> N <sub>6</sub> C:Ce <sup>3+</sup> carbide nitride green-yellow phosphors: novel synthesis, photoluminescence properties, and applications. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6061-6070	7.1	11

- 169 A promising orange-yellow-emitting phosphor for high power warm-light white LEDs: Pure-phase synthesis and photoluminescence properties. *Journal of Alloys and Compounds*, **2017**, 715, 184-191 5.7 21
- 168 Colour tuning via crystalline site-selected energy transfer in a Sr<sub>2</sub>SiO<sub>4</sub>:Eu<sup>2+</sup>,Pr<sup>3+</sup> phosphor. *Journal of Materials Chemistry C*, **2017**, 5, 1022-1026 7.1 21
- 167 Fabrication of sub-micrometer MgO transparent ceramics by spark plasma sintering. *Journal of the European Ceramic Society*, **2017**, 37, 4947-4953 6 26
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60	Cerium-Doped Lutetium Aluminum Garnet Phosphors and Optically Transparent Ceramics Prepared from Powder Precursors by a Urea Homogeneous Precipitation Method. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 1657-1661	1.4	26
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54	Crystal, electronic and luminescence properties of Eu <sup>2+</sup> -doped Sr <sub>2</sub> Al <sub>2</sub> Si <sub>1+x</sub> O <sub>7</sub> N <sub>x</sub> . <i>Science and Technology of Advanced Materials</i> , <b>2007</b> , 8, 607-616	7.1	26
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45	Extrahigh color rendering white light-emitting diode lamps using oxynitride and nitride phosphors excited by blue light-emitting diode. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 051109	3.4	226
44	Cerium-doped lutetium aluminum garnet optically transparent ceramics fabricated by a sol-gel combustion process. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 1519-1525	2.5	23

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41	Phase Diagram of the (Na <sub>0.5</sub> K <sub>0.5</sub> )NbO <sub>3</sub> -ATiO <sub>3</sub> Solid Solution. <i>Ferroelectrics</i> , <b>2006</b> , 336, 39-46	0.6	23
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