

Rong-Jun Xie

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citations

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h-index

114
g-index

297
ext. papers

18,391
ext. citations

6.4
avg, IF

7.09
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 276 | Silicon-based oxynitride and nitride phosphors for white LEDs—A review. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 588-600 | 7.1 | 815 |
| 275 | Characterization and properties of green-emitting β -SiAlON:Eu ²⁺ powder phosphors for white light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 86, 211905 | 3.4 | 595 |
| 274 | Eu ²⁺ -doped Ca- β -SiAlON: A yellow phosphor for white light-emitting diodes. <i>Applied Physics Letters</i> , 2004 , 84, 5404-5406 | 3.4 | 545 |
| 273 | A Simple, Efficient Synthetic Route to Sr ₂ Si ₅ N ₈ :Eu ²⁺ -Based Red Phosphors for White Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2006 , 18, 5578-5583 | 9.6 | 520 |
| 272 | 2-phosphor-converted white light-emitting diodes using oxynitride/nitride phosphors. <i>Applied Physics Letters</i> , 2007 , 90, 191101 | 3.4 | 467 |
| 271 | Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. <i>Chemical Reviews</i> , 2018 , 118, 1951-2009 | 68.1 | 406 |
| 270 | Preparation and Luminescence Spectra of Calcium- and Rare-Earth (R = Eu, Tb, and Pr)-Codoped β -SiAlON Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 1229-1234 | 3.8 | 280 |
| 269 | Wavelength-tunable and thermally stable Li- β -SiAlON:Eu ²⁺ oxynitride phosphors for white light-emitting diodes. <i>Applied Physics Letters</i> , 2006 , 89, 241103 | 3.4 | 261 |
| 268 | Optical Properties of (Oxy)Nitride Materials: A Review. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 665-687 | 3.8 | 260 |
| 267 | Optical Properties of Eu ²⁺ in β -SiAlON. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12027-12031 | 3.4 | 234 |
| 266 | Extrahigh color rendering white light-emitting diode lamps using oxynitride and nitride phosphors excited by blue light-emitting diode. <i>Applied Physics Letters</i> , 2007 , 90, 051109 | 3.4 | 226 |
| 265 | Rare-Earth Activated Nitride Phosphors: Synthesis, Luminescence and Applications. <i>Materials</i> , 2010 , 3, 3777-3793 | 3.5 | 223 |
| 264 | Highly efficient white-light-emitting diodes fabricated with short-wavelength yellow oxynitride phosphors. <i>Applied Physics Letters</i> , 2006 , 88, 101104 | 3.4 | 197 |
| 263 | Structure evolution and photoluminescence of Lu ₃ (Al,Mg) ₂ (Al,Si) ₃ O ₁₂ :Ce ³⁺ phosphors: new yellow-color converters for blue LED-driven solid state lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6855-6863 | 7.1 | 191 |
| 262 | Optical Data Storage and Multicolor Emission Readout on Flexible Films Using Deep-Trap Persistent Luminescence Materials. <i>Advanced Functional Materials</i> , 2018 , 28, 1705769 | 15.6 | 175 |
| 261 | All-Inorganic Light Converter Based on Phosphor-in-Glass Engineering for Next-Generation Modular High-Brightness White LEDs/LDs. <i>ACS Photonics</i> , 2017 , 4, 986-995 | 6.3 | 168 |
| 260 | Ca Li Al Si N:Eu solid solutions as broadband, color-tunable and thermally robust red phosphors for superior color rendition white light-emitting diodes. <i>Light: Science and Applications</i> , 2016 , 5, e16155 | 16.7 | 160 |

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| 259 | Warm-white light-emitting diode with yellowish orange SiALON ceramic phosphor. <i>Optics Letters</i> , 2004 , 29, 2001-3 | 3 | 159 |
| 258 | Achieving High Quantum Efficiency Narrow-Band BaSiAlON:Eu^{2+} Phosphors for High-Brightness LCD Backlights by Reducing the Eu^{3+} Luminescence Killer. <i>Chemistry of Materials</i> , 2018 , 30, 494-505 | 9.6 | 157 |
| 257 | Two-Site Occupation for Exploring Ultra-Broadband Near-Infrared Phosphor-Converted Double-Perovskite $\text{La}_2\text{MgZrO}_6:\text{Cr}^{3+}$. <i>Chemistry of Materials</i> , 2019 , 31, 5245-5253 | 9.6 | 155 |
| 256 | $\text{Al}_2\text{O}_3/\text{SiAlON}:\text{Ce}$ composite phosphor ceramic: a thermally robust and efficient color converter for solid state laser lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8648-8654 | 7.1 | 141 |
| 255 | An excellent cyan-emitting orthosilicate phosphor for NUV-pumped white LED application. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12365-12377 | 7.1 | 138 |
| 254 | Wide Color Gamut Backlight for Liquid Crystal Displays Using Three-Band Phosphor-Converted White Light-Emitting Diodes. <i>Applied Physics Express</i> , 2009 , 2, 022401 | 2.4 | 138 |
| 253 | Direct observation of single dopant atom in light-emitting phosphor of BaSiAlON:Eu^{2+} . <i>Applied Physics Letters</i> , 2009 , 94, 041908 | 3.4 | 133 |
| 252 | Highly efficient narrow-band green and red phosphors enabling wider color-gamut LED backlight for more brilliant displays. <i>Optics Express</i> , 2015 , 23, 28707-17 | 3.3 | 129 |
| 251 | Color Conversion Materials for High-Brightness Laser-Driven Solid-State Lighting. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800173 | 8.3 | 129 |
| 250 | Narrow-Band Green-Emitting Phosphor $\text{Ba}_2\text{LiSi}_7\text{AlN}_{12}:\text{Eu}^{2+}$ with High Thermal Stability Discovered by a Single Particle Diagnosis Approach. <i>Chemistry of Materials</i> , 2015 , 27, 5892-5898 | 9.6 | 128 |
| 249 | Fabrication and characterization of potassium-sodium niobate piezoelectric ceramics by spark-plasma-sintering method. <i>Materials Research Bulletin</i> , 2004 , 39, 1709-1715 | 5.1 | 128 |
| 248 | Piezoelectric Properties of Spark-Plasma-Sintered $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3/\text{BaTiO}_3$ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 7119-7122 | 1.4 | 124 |
| 247 | Phase diagram and enhanced piezoelectricity in the strontium titanate doped potassium-sodium niobate solid solution. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, R57-R59 | 1.6 | 123 |
| 246 | Synthesis and photoluminescent properties of $(\text{La,Ca})\text{BaSiAlON}:\text{Ce}^{3+}$ fine powder phosphors for solid-state lighting. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 811-6 | 9.5 | 120 |
| 245 | Powder Synthesis of Ca-BaSiAlON as a Host Material for Phosphors. <i>Chemistry of Materials</i> , 2005 , 17, 308-314 | 9.6 | 118 |
| 244 | Trap Depth Engineering of $\text{SrSiON}:\text{Ln}$, 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 & Interfaces</i> , 2018 , 10, 1854-1864 | 9.5 | 114 |
| 243 | Red-shift of emission wavelength caused by reabsorption mechanism of europium activated Ca-BaSiAlON ceramic phosphors. <i>Journal of Luminescence</i> , 2007 , 126, 843-852 | 3.8 | 112 |
| 242 | Achieving Multicolor Long-Lived Luminescence in Dye-Encapsulated Metal-Organic Frameworks and Its Application to Anticounterfeiting Stamps. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1802-1809 | 9.5 | 111 |

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| 241 | Microwave-Assisted Synthesis of CdS/ZnS:Cu Quantum Dots for White Light-Emitting Diodes with High Color Rendition. <i>Chemistry of Materials</i> , 2015 , 27, 1187-1193 | 9.6 | 111 |
| 240 | Crystal structure and photoluminescence of Mn ²⁺ /Mg ²⁺ codoped gamma aluminum oxynitride (γ-AlON): A promising green phosphor for white light-emitting diodes. <i>Applied Physics Letters</i> , 2008 , 92, 201905 | 3.4 | 108 |
| 239 | Highly Efficient and Thermally Stable Blue-Emitting AlN:Eu ²⁺ Phosphor for Ultraviolet White Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9392-9397 | 3.8 | 106 |
| 238 | 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 & Interfaces</i> , 2018 , 10, 14930-14940 | 9.5 | 104 |
| 237 | Blue-emitting LaSi ₃ N ₅ :Ce ³⁺ fine powder phosphor for UV-converting white light-emitting diodes. <i>Applied Physics Letters</i> , 2009 , 95, 051903 | 3.4 | 102 |
| 236 | Blue, green, and red full-color ultralong afterglow in nitrogen-doped carbon dots. <i>Nanoscale</i> , 2019 , 11, 6584-6590 | 7.7 | 101 |
| 235 | Discovery of New Nitridosilicate Phosphors for Solid State Lighting by the Single-Particle-Diagnosis Approach. <i>Chemistry of Materials</i> , 2014 , 26, 4280-4288 | 9.6 | 97 |
| 234 | Dual-Band Luminescent Lead-Free Antimony Chloride Halides with Near-Unity Photoluminescence Quantum Efficiency. <i>Chemistry of Materials</i> , 2019 , 31, 9363-9371 | 9.6 | 94 |
| 233 | Dielectric and ferroelectric properties of tetragonal tungsten bronze Sr _{2-x} CaxNaNb ₅ O ₁₅ (x=0.050.35) ceramics. <i>Applied Physics Letters</i> , 2002 , 80, 835-837 | 3.4 | 91 |
| 232 | CaAlSi ₃ N ₃ :Eu ²⁺ translucent ceramic: a promising robust and efficient red color converter for solid state laser displays and lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8197-8205 | 7.1 | 91 |
| 231 | β-Sialon:Eu phosphor-in-glass: a robust green color converter for high power blue laser lighting. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10761-10766 | 7.1 | 90 |
| 230 | Luminescence properties of blue La _{1-x} CexAl(Si _{6-z} Al _z)(N _{10-z} O _z) (z~1) oxynitride phosphors and their application in white light-emitting diode. <i>Applied Physics Letters</i> , 2007 , 91, 091923 | 3.4 | 90 |
| 229 | Nitrogen Gas Pressure Synthesis and Photoluminescent Properties of Orange-Red SrAlSi ₄ N ₇ :Eu ²⁺ Phosphors for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 536-542 | 3.8 | 85 |
| 228 | Photoluminescence of Cerium-Doped β-SialON Materials. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1368-1370 | 3.8 | 85 |
| 227 | Extra-Broad Band Orange-Emitting Ce ³⁺ -Doped Y ₃ Si ₅ N ₉ O Phosphor for Solid-State Lighting: Electronic, Crystal Structures and Luminescence Properties. <i>Chemistry of Materials</i> , 2016 , 28, 4829-4839 | 9.6 | 83 |
| 226 | On the Performance Enhancement of Nitride Phosphors as Spectral Conversion Materials in Solid State Lighting. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, R3031-R3040 | 2 | 83 |
| 225 | Blue emission of Ce ³⁺ in lanthanide silicon oxynitride phosphors. <i>Journal of Materials Research</i> , 2007 , 22, 1933-1941 | 2.5 | 82 |
| 224 | Warm White Light with a High Color-Rendering Index from a Single GdAlGaO:Ce Transparent Ceramic for High-Power LEDs and LDs. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2130-2139 | 9.5 | 80 |

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| 223 | Synthesis and Luminescence Properties of Orange-Red-Emitting $M_2Si_5N_8:Eu^{2+}$ (M=Ca, Sr, Ba) Light-Emitting Diode Conversion Phosphors by a Simple Nitridation of MSi_2 . <i>International Journal of Applied Ceramic Technology</i> , 2009 , 6, 459-464 | 2 | 78 |
| 222 | New Strategies for Preparing NanoSized Silicon Nitride Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 934-937 | 3.8 | 78 |
| 221 | A green synthetic route to the highly efficient $K_2SiF_6:Mn^{4+}$ narrow-band red phosphor for warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2741-2746 | 7.1 | 76 |
| 220 | Photoluminescence of Rare-Earth-Doped Ca-BiAlON Phosphors: Composition and Concentration Dependence. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2883-2888 | 3.8 | 74 |
| 219 | 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> , 2017 , 702, 193-198 | 5.7 | 73 |
| 218 | Nitride and oxynitride phosphors for white LEDs: Synthesis, new phosphor discovery, crystal structure. <i>Progress in Solid State Chemistry</i> , 2018 , 51, 41-51 | 8 | 71 |
| 217 | Structure, Luminescence, and Application of a Robust Carbide Nitride Blue Phosphor ($Al_{1-x}Si_xC_xN_{1-x}:Eu^{2+}$) for Near UV-LED Driven Solid State Lighting. <i>Chemistry of Materials</i> , 2015 , 27, 8457-8466 | 9.6 | 69 |
| 216 | New garnet structure phosphors, $Lu_3-xY_xMgAl_3SiO_{12}:Ce^{3+}$ ($x = 0-3$), developed by solid solution design. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2359-2366 | 7.1 | 69 |
| 215 | Broadband near-infrared (NIR) emission realized by the crystal-field engineering of $Y_3-xCa_xAl_5-xSi_xO_{12}:Cr^{3+}$ ($x = 0-2.0$) garnet phosphors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1981-1988 | 7.1 | 68 |
| 214 | Trimethylsilyl Iodine-Mediated Synthesis of Highly Bright Red-Emitting $CsPbI_3$ Perovskite Quantum Dots with Significantly Improved Stability. <i>Chemistry of Materials</i> , 2019 , 31, 881-889 | 9.6 | 64 |
| 213 | New insights into the microstructure of translucent $CaAlSiN_3:Eu^{2+}$ phosphor ceramics for solid-state laser lighting. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1042-1051 | 7.1 | 63 |
| 212 | Synthesis of the phase pure $Ba_3Si_6O_{12}N_2:Eu^{2+}$ green phosphor and its application in high color rendition white LEDs. <i>Dalton Transactions</i> , 2014 , 43, 6132-8 | 4.3 | 61 |
| 211 | Color-Tunable and High-Efficiency Dye-Encapsulated Metal-Organic Framework Composites Used for Smart White-Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18910-18917 | 9.5 | 61 |
| 210 | Oxynitride/nitride phosphors for white light-emitting diodes (LEDs). <i>Journal of Electroceramics</i> , 2008 , 21, 370-373 | 1.5 | 60 |
| 209 | Thermally self-managing YAG:Ce/Al ₂ O ₃ color converters enabling high-brightness laser-driven solid state lighting in a transmissive configuration. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3901-3908 | 7.1 | 57 |
| 208 | Tailoring Trap Depth and Emission Wavelength in YAlGaO:Ce,V Phosphor-in-Glass Films for Optical Information Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27150-27159 | 9.5 | 57 |
| 207 | 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> , 2018 , 6, 8212-8218 | 7.1 | 57 |
| 206 | Moisture-induced degradation and its mechanism of $(Sr,Ca)AlSiN_3:Eu^{2+}$, a red-color-converter for solid state lighting. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3181-3188 | 7.1 | 57 |

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| 205 | Thermal degradation of the green-emitting SrSi ₂ O ₂ N ₂ :Eu ²⁺ phosphor for solid state lighting. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2735-2742 | 7.1 | 55 |
| 204 | Fabrication of β-Sialon nanoceramics by high-energy mechanical milling and spark plasma sintering. <i>Nanotechnology</i> , 2005 , 16, 1569-1573 | 3.4 | 55 |
| 203 | Critical Review Narrow-Band Nitride Phosphors for Wide Color-Gamut White LED Backlighting. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3064-R3078 | 2 | 54 |
| 202 | Data-Driven Discovery of Full-Visible-Spectrum Phosphor. <i>Chemistry of Materials</i> , 2019 , 31, 6286-6294 | 9.6 | 54 |
| 201 | Fabrication of W-Cu functionally graded material by spark plasma sintering method. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014 , 42, 193-199 | 4.1 | 54 |
| 200 | Reduced thermal degradation of the red-emitting Sr ₂ Si ₅ N ₈ :Eu ²⁺ phosphor via thermal treatment in nitrogen. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7642-7651 | 7.1 | 53 |
| 199 | Gas-Reduction/Nitridation Synthesis of CaAlSiN ₃ :Eu ²⁺ Fine Powder Phosphors for Solid-State Lighting. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2713-2717 | 3.9 | 53 |
| 198 | Synthesis and Photoluminescence Properties of Sr ₂ Si ₅ N ₈ :Eu ²⁺ Red Phosphor by a Gas-Reduction and Nitridation Method. <i>Journal of the Electrochemical Society</i> , 2008 , 155, J378 | 3.9 | 53 |
| 197 | Blue-Emitting Sr ₃ Si ₈ Al _x O ₇ +xN ₈ :Eu ²⁺ Discovered by a Single-Particle-Diagnosis Approach: Crystal Structure, Luminescence, Scale-Up Synthesis, and Its Abnormal Thermal Quenching Behavior. <i>Chemistry of Materials</i> , 2015 , 27, 7689-7697 | 9.6 | 51 |
| 196 | Crystal structure, tunable emission and applications of Ca _{1-x} Al _{1-x} Si _{1+x} N _{3-x} O _x :RE (x = 0-0.22, RE = Ce ³⁺ , Eu ²⁺) solid solution phosphors for white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11219-11230 | 7.1 | 51 |
| 195 | Crystal Structure and Photoluminescence Properties of Red-Emitting Ca ₉ La _{1-x} (VO ₄) ₇ :xEu ³⁺ Phosphors for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 4081-4086 | 2.8 | 51 |
| 194 | Chromium-Doped Zinc Gallogermanate@Zeolitic Imidazolate Framework-8: A Multifunctional Nanoplatfrom for Rechargeable In Vivo Persistent Luminescence Imaging and pH-Responsive Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1907-1916 | 9.5 | 51 |
| 193 | Highly Efficient Lead-Free (Bi,Ce)-Codoped Cs ₂ Ag _{0.4} Na _{0.6} InCl ₆ Double Perovskites for White Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2020 , 32, 7814-7821 | 9.6 | 49 |
| 192 | Synthesis, crystal structure and photoluminescence of Eu-β-SialON. <i>Journal of Alloys and Compounds</i> , 2010 , 504, 579-584 | 5.7 | 48 |
| 191 | Photoluminescence properties of β-SialON:Yb, a novel green-emitting phosphor for white light-emitting diodes. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 034404 | 7.1 | 48 |
| 190 | Fine yellow β-SialON:Eu phosphors for white LEDs prepared by the gas-reduction/nitridation method. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 601-606 | 7.1 | 48 |
| 189 | Luminescence properties of SrSi ₆ N ₈ :Eu ²⁺ . <i>Journal of Materials Science</i> , 2008 , 43, 5659-5661 | 4.3 | 48 |
| 188 | Thermal and Electrical Properties in Plasma-Activation-Sintered Silicon Carbide with Rare-Earth-Oxide Additives. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2448-2450 | 3.8 | 48 |

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| 187 | Effect of β -Phase Transformation on the Microstructural Development and Mechanical Properties of Fine-Grained Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 945-950 | 3.8 | 48 |
| 186 | New $\text{Y}_2\text{BaAl}_4\text{SiO}_{12}:\text{Ce}^{3+}$ yellow microcrystal-glass powder phosphor with high thermal emission stability. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9872-9878 | 7.1 | 48 |
| 185 | Synthesis and photoluminescence of a novel $\text{Sr-SiAlON}:\text{Eu}^{2+}$ blue-green phosphor ($\text{Sr}_{14}\text{Si}_6\text{Al}_6\text{O}_{16}\text{N}_{10}:\text{Eu}^{2+}$ (s)). <i>Journal of Alloys and Compounds</i> , 2011 , 509, 332-337 | 5.7 | 47 |
| 184 | Improved stability of CsPbBr_3 perovskite quantum dots achieved by suppressing interligand proton transfer and applying a polystyrene coating. <i>Nanoscale</i> , 2018 , 10, 21441-21450 | 7.7 | 47 |
| 183 | Unique Design Strategy for Laser-Driven Color Converters Enabling Superhigh-Luminance and High-Directionality White Light. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900147 | 8.3 | 46 |
| 182 | Time-resolved photoluminescence analysis of two-peak emission behavior in $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$. <i>Applied Physics Letters</i> , 2009 , 95, 121903 | 3.4 | 46 |
| 181 | Photoluminescence and thermal stability of yellow-emitting $\text{Sr-SiAlON}:\text{Eu}^{2+}$ phosphor. <i>Journal of Materials Science</i> , 2010 , 45, 3198-3203 | 4.3 | 46 |
| 180 | Lead-free piezoelectric ceramics in the $(1-x)\text{Sr}_2\text{NaNb}_5\text{O}_{15}-x\text{Ca}_2\text{NaNb}_5\text{O}_{15}$ (0.05 $\leq x \leq 0.35$) system. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3156-3161 | | 46 |
| 179 | Ce-Doped LaSiAlNO , a Rare Highly Efficient Blue-Emitting Phosphor at Short Wavelength toward High Color Rendering White LED Application. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22665-22675 | 9.5 | 45 |
| 178 | Facile Synthesis of $(\text{Sr,Ca})_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ -Based Red-Emitting Phosphor for Solid-State Lighting. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7453-7456 | 3.9 | 45 |
| 177 | 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> , 2019 , 13, 1800216 | 8.3 | 45 |
| 176 | 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> , 2020 , 11, 5184-5191 | 6.4 | 44 |
| 175 | Temperature Dependent Luminescence of Yellow-Emitting $\text{SiAlON}:\text{Eu}^{2+}$ Oxynitride Phosphors for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2668-2673 | 3.8 | 44 |
| 174 | Strong Energy-Transfer-Induced Enhancement of Luminescence Efficiency of Eu^{2+} - and Mn^{2+} -Codoped Gamma-ALON for Near-UV-LED-Pumped Solid State Lighting. <i>Inorganic Chemistry</i> , 2015 , 54, 5556-65 | 5.1 | 43 |
| 173 | Anomalous Eu layer doping in Eu, Si co-doped aluminium nitride based phosphor and its direct observation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9948 | | 43 |
| 172 | Structure, luminescence and energy transfer in Ce^{3+} and Mn^{2+} codoped β -ALON phosphors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 733-742 | 7.1 | 42 |
| 171 | A search for extra-high brightness laser-driven color converters by investigating thermally-induced luminance saturation. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11449-11456 | 7.1 | 41 |
| 170 | X-ray-charged bright persistent luminescence in $\text{NaYF}_4:\text{Ln}@\text{NaYF}_4$ nanoparticles for multidimensional optical information storage. <i>Light: Science and Applications</i> , 2021 , 10, 132 | 16.7 | 41 |

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| 169 | 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> , 2019 , 7, 354-361 | 7.1 | 40 |
| 168 | Study on Trap Levels in SrSiAlON:Eu,Ln Persistent Phosphors Based on Host-Referred Binding Energy Scheme and Thermoluminescence Analysis. <i>Inorganic Chemistry</i> , 2016 , 55, 11890-11897 | 5.1 | 40 |
| 167 | Creating visible-to-near-infrared mechanoluminescence in mixed-anion compounds SrZn ₂ S ₂ O and SrZnSO. <i>Nano Energy</i> , 2020 , 68, 104329 | 17.1 | 39 |
| 166 | Force-induced charge carrier storage: a new route for stress recording. <i>Light: Science and Applications</i> , 2020 , 9, 182 | 16.7 | 39 |
| 165 | Enhanced emission from CaSi ₂ O ₂ N ₂ :Eu ²⁺ phosphors by doping with Y ³⁺ ions. <i>Materials Letters</i> , 2009 , 63, 1448-1450 | 3.3 | 38 |
| 164 | Role of Si in the Luminescence of AlN:Eu,Si Phosphors. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1272-1275 | 3.8 | 36 |
| 163 | Rate-equation model for energy transfer between activators at different crystallographic sites in Sr ₂ Si ₅ N ₈ :Eu(2+). <i>Optics Letters</i> , 2009 , 34, 3427-9 | 3 | 36 |
| 162 | Photoluminescence of (Ba _{1-x} Eu _x)Si ₆ N ₈ O (0.005 ≤ x ≤ 0.2) phosphors. <i>Journal of Luminescence</i> , 2010 , 130, 266-269 | 3.8 | 36 |
| 161 | One-step preparation of Ca-SiAlON:Eu ²⁺ fine powder phosphors for white light-emitting diodes. <i>Applied Physics Letters</i> , 2008 , 92, 191904 | 3.4 | 36 |
| 160 | Fluorescence of Eu ²⁺ in Strontium Oxonitridoaluminosilicates (SiAlONS). <i>Journal of the Ceramic Society of Japan</i> , 2005 , 113, 462-465 | | 36 |
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| 7 | Microscale Perovskite Quantum Dot Light-Emitting Diodes (Micro-PeLEDs) for Full-Color Displays. <i>Advanced Optical Materials</i> , 2020, 087 | 8.1 | 2 |
| 6 | Bi-color phosphor-in-glass films achieve superior color quality laser-driven stage spotlights. <i>Chemical Engineering Journal</i> , 2022, 444, 136591 | 14.7 | 2 |
| 5 | Broadband white luminescent phosphor Ba(Si _{7-x} Al _x)Li _y (N _{10-x-y} O _{x+y}):Eu ²⁺ with a high color rendering index for solid state lighting. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5497-5504 | 7.1 | 1 |
| 4 | Structure elucidation of luminescent centers in green emitting Eu ²⁺ doped Si _{6-z} Al _z O _z N _{8-z} phosphors. <i>Scripta Materialia</i> , 2022, 207, 114238 | 5.6 | 1 |
| 3 | 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> , 2022, 243, 118683 | 3.8 | 0 |
| 2 | Enhanced Performance of Perovskite Solar Cells Loaded with Iodine-Rich CsPbI ₃ Quantum Dots. <i>ACS Applied Energy Materials</i> , 2021, 4, 7535-7543 | 6.1 | 0 |
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