

Rong-Jun Xie

List of Publications by Year in descending order

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296
papers

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8181

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all docs

297
docs citations

297
times ranked

8043
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon-based oxynitride and nitride phosphors for white LEDs—A review. Science and Technology of Advanced Materials, 2007, 8, 588-600.	6.1	907
2	Characterization and properties of green-emitting $\hat{\text{I}}^2$ -SiAlON:Eu ²⁺ powder phosphors for white light-emitting diodes. Applied Physics Letters, 2005, 86, 211905.	3.3	656
3	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. Chemical Reviews, 2018, 118, 1951-2009.	47.7	598
4	Eu ²⁺ -doped Ca- $\hat{\text{I}}^2$ -SiAlON: A yellow phosphor for white light-emitting diodes. Applied Physics Letters, 2004, 84, 5404-5406.	3.3	581
5	A Simple, Efficient Synthetic Route to Sr ₂ Si ₅ N ₈ :Eu ²⁺ -Based Red Phosphors for White Light-Emitting Diodes. Chemistry of Materials, 2006, 18, 5578-5583.	6.7	571
6	2-phosphor-converted white light-emitting diodes using oxynitride/nitride phosphors. Applied Physics Letters, 2007, 90, 191101.	3.3	528
7	Two-Site Occupation for Exploring Ultra-Broadband Near-Infrared Phosphor—Double-Perovskite La ₂ MgZrO ₆ :Cr ³⁺ . Chemistry of Materials, 2019, 31, 5245-5253.	6.7	357
8	Preparation and Luminescence Spectra of Calcium- and Rare-Earth (R = Eu, Tb, and Pr)-Codoped $\hat{\text{I}}^2$ -SiAlON Ceramics. Journal of the American Ceramic Society, 2002, 85, 1229-1234.	3.8	312
9	Optical Properties of (Oxy)Nitride Materials: A Review. Journal of the American Ceramic Society, 2013, 96, 665-687.	3.8	293
10	Wavelength-tunable and thermally stable Li- $\hat{\text{I}}^2$ -sialon:Eu ²⁺ oxynitride phosphors for white light-emitting diodes. Applied Physics Letters, 2006, 89, 241103.	3.3	271
11	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. Journal of Materials Chemistry C, 2016, 4, 6855-6863.	5.5	271
12	Optical Data Storage and Multicolor Emission Readout on Flexible Films Using Deep-Trap Persistent Luminescence Materials. Advanced Functional Materials, 2018, 28, 1705769.	14.9	271
13	Optical Properties of Eu ²⁺ in $\hat{\text{I}}^2$ -SiAlON. Journal of Physical Chemistry B, 2004, 108, 12027-12031.	2.6	251
14	Achieving High Quantum Efficiency Narrow-Band $\hat{\text{I}}^2$ -Sialon:Eu ²⁺ Phosphors for High-Brightness LCD Backlights by Reducing the Eu ³⁺ Luminescence Killer. Chemistry of Materials, 2018, 30, 494-505.	6.7	250
15	Rare-Earth Activated Nitride Phosphors: Synthesis, Luminescence and Applications. Materials, 2010, 3, 3777-3793.	2.9	248
16	Extrahigh color rendering white light-emitting diode lamps using oxynitride and nitride phosphors excited by blue light-emitting diode. Applied Physics Letters, 2007, 90, 051109.	3.3	243
17	Color Conversion Materials for High-Brightness Laser-Driven Solid-State Lighting. Laser and Photonics Reviews, 2018, 12, 1800173.	8.7	239
18	All-Inorganic Light Convertor Based on Phosphor-in-Glass Engineering for Next-Generation Modular High-Brightness White LEDs/LDs. ACS Photonics, 2017, 4, 986-995.	6.6	223

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19	Highly efficient white-light-emitting diodes fabricated with short-wavelength yellow oxynitride phosphors. <i>Applied Physics Letters</i> , 2006, 88, 101104.	3.3	212
20	Al_2O_3 –YAG: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.	5.5	206
21	Dual-Band Luminescent Lead-Free Antimony Chloride Halides with Near-Unity Photoluminescence Quantum Efficiency. <i>Chemistry of Materials</i> , 2019, 31, 9363-9371.	6.7	206
22	An excellent cyan-emitting orthosilicate phosphor for NUV-pumped white LED application. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12365-12377.	5.5	203
23	$\text{Ca}_x\text{Li}_x\text{Al}_{1-x}\text{Si}_{1+x}\text{N}_3\text{:Eu}^{2+}$ 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-e16155.	16.6	186
24	Mechanoluminescence Rebrightening the Prospects of Stress Sensing: A Review. <i>Advanced Materials</i> , 2021, 33, e2005925.	21.0	181
25	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.	8.0	177
26	Blue, green, and red full-color ultralong afterglow in nitrogen-doped carbon dots. <i>Nanoscale</i> , 2019, 11, 6584-6590.	5.6	176
27	Warm-white light-emitting diode with yellowish orange SiAlON ceramic phosphor. <i>Optics Letters</i> , 2004, 29, 2001.	3.3	170
28	Narrow-Band Green-Emitting Phosphor $\text{Ba}_2\text{LiSi}_7\text{Al}_{12}\text{:Eu}^{2+}$ with High Thermal Stability Discovered by a Single Particle Diagnosis Approach. <i>Chemistry of Materials</i> , 2015, 27, 5892-5898.	6.7	166
29	Trap Depth Engineering of $\text{SrSi}_2\text{O}_2\text{N}_2\text{:Ln}^{2+}$, Ln^{3+} ($\text{Ln}^{2+} = \text{Tj, Er, Qq, I, O, G, L, H, K, M, N, P, R, S, T, U, V, W, X, Y, Z}$) Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1854-1864.	8.0	159
30	Wide Color Gamut Backlight for Liquid Crystal Displays Using Three-Band Phosphor-Converted White Light-Emitting Diodes. <i>Applied Physics Express</i> , 0, 2, 022401.	2.4	156
31	Broadband near-infrared (NIR) emission realized by the crystal-field engineering of $\text{Y}_3\text{Ca}_x\text{Al}_{5-x}\text{Si}_x\text{O}_{12}\text{:Cr}^{3+}$ ($x = \text{Tj, Er, Qq, I, O, G, L, H, K, M, N, P, R, S, T, U, V, W, X, Y, Z}$)	8.0	156
32	X-ray-charged bright persistent luminescence in $\text{NaYF}_4\text{:Ln}^{3+}@ \text{NaYF}_4$ nanoparticles for multidimensional optical information storage. <i>Light: Science and Applications</i> , 2021, 10, 132.	16.6	154
33	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.	8.0	151
34	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.	3.4	150
35	Direct observation of single dopant atom in light-emitting phosphor of SiAlON:Eu^{2+} . <i>Applied Physics Letters</i> , 2009, 94, .	3.3	147
36	Fabrication and characterization of potassium–sodium niobate piezoelectric ceramics by spark-plasma-sintering method. <i>Materials Research Bulletin</i> , 2004, 39, 1709-1715.	5.2	141

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37	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.	1.8	135
38	Piezoelectric Properties of Spark-Plasma-Sintered (Na _{0.5} K _{0.5})NbO ₃ –PbTiO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 7119-7122.	1.5	132
39	Synthesis and Photoluminescent Properties of (La,Ca) ₃ Si ₆ N ₁₁ :Ce ³⁺ Fine Powder Phosphors for Solid-State Lighting. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 811-816.	8.0	127
40	Powder Synthesis of Ca ²⁺ -SiAlON as a Host Material for Phosphors. <i>Chemistry of Materials</i> , 2005, 17, 308-314.	6.7	124
41	Warm White Light with a High Color-Rendering Index from a Single Gd ₃ Al ₄ GaO ₁₂ :Ce ³⁺ Transparent Ceramic for High-Power LEDs and LDs. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2130-2139.	8.0	124
42	Red-shift of emission wavelength caused by reabsorption mechanism of europium activated Ca–SiAlON ceramic phosphors. <i>Journal of Luminescence</i> , 2007, 126, 843-852.	3.1	123
43	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.	6.7	122
44	Broadband near-infrared phosphor BaMgAl ₁₀ O ₁₇ :Cr ³⁺ realized by crystallographic site engineering. <i>Chemical Engineering Journal</i> , 2021, 417, 129224.	12.7	121
45	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.	3.3	119
46	Discovery of New Nitridosilicate Phosphors for Solid State Lighting by the Single-Particle-Diagnosis Approach. <i>Chemistry of Materials</i> , 2014, 26, 4280-4288.	6.7	116
47	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.	3.1	115
48	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.	5.5	115
49	CaAlSiN 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.	5.5	115
50	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.	6.7	108
51	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, .	3.3	107
52	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.	6.7	105
53	A green synthetic route to the highly efficient K ₂ SiF ₆ :Mn ⁴⁺ narrow-band red phosphor for warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2741-2746.	5.5	105
54	Dielectric and ferroelectric properties of tetragonal tungsten bronze Sr ²⁺ _x CaxNaNb ₅ O ₁₅ (x=0.05–0.35) ceramics. <i>Applied Physics Letters</i> , 2002, 80, 835-837.	3.3	101

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55	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.	5.5	97
56	Photoluminescence of Cerium-Doped Ca-SiAlON Materials. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1368-1370.	3.8	96
57	Nitride and oxynitride phosphors for white LEDs: Synthesis, new phosphor discovery, crystal structure. <i>Progress in Solid State Chemistry</i> , 2018, 51, 41-51.	7.2	95
58	Thermally self-managing $\text{YAG:Ce}^{3+}\text{Al}_2\text{O}_3$ 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.	5.5	95
59	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.	8.0	95
60	Luminescence properties of blue $\text{La}_{1-x}\text{Ce}_x\text{Al}(\text{Si}_6\text{Al}_z)(\text{N}_{10}\text{O}_z)$ oxynitride phosphors and their application in white light-emitting diode. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	93
61	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.	8.7	93
62	Data-Driven Discovery of Full-Visible-Spectrum Phosphor. <i>Chemistry of Materials</i> , 2019, 31, 6286-6294.	6.7	92
63	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.	4.6	92
64	Nitrogen Gas Pressure Synthesis and Photoluminescent Properties of Orange-Red $\text{SrAlSi}_4\text{N}_7\text{:Eu}^{2+}$ Phosphors for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2011, 94, 536-542.	3.8	91
65	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.	5.5	90
66	Tailoring Trap Depth and Emission Wavelength in $\text{Y}_3\text{Al}_5\text{Ga}_x\text{O}_{12}\text{:Ce}^{3+},\text{V}^{3+}$ Phosphor-in-Glass Films for Optical Information Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27150-27159.	8.1	89
67	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.	1.8	88
68	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.	8.0	88
69	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.	6.7	88
70	Synthesis and Luminescence Properties of Orange-Red-Emitting $\text{M}_2\text{Si}_5\text{N}_8\text{:Eu}^{2+}$ (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.	2.1	87
71	Blue emission of Ce^{3+} in lanthanide silicon oxynitride phosphors. <i>Journal of Materials Research</i> , 2007, 22, 1933-1941.	2.6	86
72	New garnet structure phosphors, $\text{Lu}_3\text{Y}_x\text{MgAl}_3\text{SiO}_{12}\text{:Ce}^{3+}$ ($x = 0\text{--}3$), developed by solid solution design. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2359-2366.	5.5	86

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73	A Thermally Robust $\text{La}_3\text{Si}_6\text{N}_{11}:\text{Ce}$ Glass Film for High-Brightness Blue-Laser-Driven Solid State Lighting. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800216.	8.7	86
74	New Strategies for Preparing NanoSized Silicon Nitride Ceramics. <i>Journal of the American Ceramic Society</i> , 2005, 88, 934-937.	3.8	85
75	New insights into the microstructure of translucent $\text{CaAlSi}_3\text{:Eu}^{2+}$ phosphor ceramics for solid-state laser lighting. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1042-1051.	5.5	83
76	Force-induced charge carrier storage: a new route for stress recording. <i>Light: Science and Applications</i> , 2020, 9, 182.	16.6	83
77	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.	5.5	81
78	Highly stable $\text{CsPbI}_3:\text{Sr}^{2+}$ nanocrystals with near-unity quantum yield enabling perovskite light-emitting diodes with an external quantum efficiency of 17.1%. <i>Nano Energy</i> , 2021, 85, 106033.	16.0	78
79	Photoluminescence of Rare-Earth-Doped Ca- α -SiAlON Phosphors: Composition and Concentration Dependence. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2883-2888.	3.8	77
80	Moisture-induced degradation and its mechanism of $(\text{Sr,Ca})\text{AlSi}_3\text{:Eu}^{2+}$, a red-color-converter for solid state lighting. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3181-3188.	5.5	75
81	Structure, Luminescence, and Application of a Robust Carbide Nitride Blue Phosphor ($\text{Al}_x\text{Si}_x\text{C}_x\text{N}_x:\text{Eu}^{2+}$) for Near UV-LED Driven Solid State Lighting. <i>Chemistry of Materials</i> , 2015, 27, 8457-8466.	7.5	75
82	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.	5.6	75
83	Creating visible-to-near-infrared mechanoluminescence in mixed-anion compounds $\text{SrZn}_2\text{S}_2\text{O}$ and SrZnSO . <i>Nano Energy</i> , 2020, 68, 104329.	16.0	72
84	Enabling robust and hour-level organic long persistent luminescence from carbon dots by covalent fixation. <i>Light: Science and Applications</i> , 2022, 11, 80.	16.6	71
85	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.	5.5	70
86	Realizing Tunable White Light Emission in Lead-Free Indium(III) Bromine Hybrid Single Crystals through Antimony(III) Cation Doping. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10164-10172.	4.6	70
87	Synthesis of the phase pure $\text{Ba}_3\text{Si}_6\text{O}_{12}\text{N}_2:\text{Eu}^{2+}$ green phosphor and its application in high color rendition white LEDs. <i>Dalton Transactions</i> , 2014, 43, 6132-6138.	3.3	69
88	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.	3.8	68
89	Light-emitting diodes: brighter NIR-emitting phosphor making light sources smarter. <i>Light: Science and Applications</i> , 2020, 9, 155.	16.6	67
90	Oxynitride/nitride phosphors for white light-emitting diodes (LEDs). <i>Journal of Electroceramics</i> , 2008, 21, 370-373.	2.0	66

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91	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.	5.5	66
92	Structure, luminescence and energy transfer in Ce^{3+} and Mn^{2+} codoped $\beta\text{-AlON}$ phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 733-742.	5.5	66
93	Recent processes on light-emitting lead-free metal halide perovskites. <i>Chemical Engineering Journal</i> , 2020, 393, 124757.	12.7	65
94	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.	1.8	64
95	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> , 2021, 10, 729-740.	17.4	64
96	Fabrication of $\beta\text{-sialon}$ nanoceramics by high-energy mechanical milling and spark plasma sintering. <i>Nanotechnology</i> , 2005, 16, 1569-1573.	2.6	63
97	Blue-Emitting $\text{Sr}_3\text{Si}_8\text{Al}_x\text{O}_{7+x}\text{N}_8:\text{Eu}^{2+}$ 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.	6.7	63
98	Thermal degradation of the green-emitting $\text{SrSi}_2\text{O}_2\text{N}_2:\text{Eu}^{2+}$ phosphor for solid state lighting. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2735-2742.	5.5	62
99	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> , 2019, 39, 1909-1917.	5.7	62
100	Crystal structure, tunable emission and applications of $\text{Ca}_{1-x}\text{Al}_{1-x}\text{Si}_{1+x}\text{N}_{3+x}\text{O}_x:\text{RE}$ ($x = 0 \sim 0.22$). <i>Journal of Materials Chemistry C</i> , 2016, 4, 11219-11230.	9.5	61
101	Achieving Remote Stress and Temperature Dual-Modal Imaging by Double-Lanthanide-Activated Mechanoluminescent Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2101567.	14.9	61
102	Reduced thermal degradation of the red-emitting $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ phosphor via thermal treatment in nitrogen. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7642-7651.	5.5	60
103	Thermal and Electrical Properties in Plasma-Activated Sintered Silicon Carbide with Rare-Earth Oxide Additives. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2448-2450.	3.8	59
104	Synthesis and Photoluminescence Properties of $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ Red Phosphor by a Gas-Reduction and Nitridation Method. <i>Journal of the Electrochemical Society</i> , 2008, 155, J378.	2.9	57
105	Gas-Reduction Nitridation Synthesis of $\text{CaAlSiN}_3:\text{Eu}^{2+}$ Fine Powder Phosphors for Solid-State Lighting. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2713-2717.	3.7	56
106	A new $\text{CaF}_2\text{-YAG}:\text{Ce}$ composite phosphor ceramic for high-power and high-color-rendering WLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8569-8574.	5.5	55
107	A selective and sensitive fluorescent probe for bilirubin in human serum based on europium(III) post-functionalized Zr(IV)-Based MOFs. <i>Talanta</i> , 2020, 212, 120795.	5.5	55
108	Effect of 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	54

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109	Photoluminescence and thermal stability of yellow-emitting Sr ^{1±} -SiAlON:Eu ²⁺ phosphor. Journal of Materials Science, 2010, 45, 3198-3203.	3.7	53
110	Crystal Structure and Photoluminescence Properties of Red-Emitting Ca ₉ La ^{1-x} (VO ₄) ₇ :xEu ³⁺ Phosphors for White Light-Emitting Diodes. Journal of the American Ceramic Society, 2010, 93, 4081-4086.	3.8	53
111	Ce-Doped La ₃ Si _{6.5} Al _{1.5} N _{9.5} O _{5.5} , a Rare Highly Efficient Blue-Emitting Phosphor at Short Wavelength toward High Color Rendering White LED Application. ACS Applied Materials & Interfaces, 2017, 9, 22665-22675.	8.0	53
112	Fine yellow ^{1±} -SiAlON:Eu phosphors for white LEDs prepared by the gas-reduction“nitridation method. Science and Technology of Advanced Materials, 2007, 8, 601-606.	6.1	52
113	Luminescence properties of SrSi ₆ N ₈ :Eu ²⁺ . Journal of Materials Science, 2008, 43, 5659-5661.	3.7	51
114	Synthesis, crystal structure and photoluminescence of Eu ^{1±} -SiAlON. Journal of Alloys and Compounds, 2010, 504, 579-584.	5.5	51
115	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. Inorganic Chemistry, 2015, 54, 5556-5565.	4.0	51
116	A high-performance non-rare-earth deep-red-emitting Ca _{14-x} Sr _x Zn ₆ Al ₁₀ O ₃₅ :Mn ⁴⁺ phosphor for high-power plant growth LEDs. Journal of Alloys and Compounds, 2019, 781, 702-709.	5.5	51
117	Phosphorus-Doped Metal-Organic Framework-Derived CoS ₂ Nanoboxes with Improved Adsorption-Catalysis Effect for Li-S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 15226-15236.	8.0	51
118	Time-resolved photoluminescence analysis of two-peak emission behavior in Sr ₂ Si ₅ N ₈ :Eu ²⁺ . Applied Physics Letters, 2009, 95, .	3.3	50
119	Photoluminescence properties of ^{1±} -SiAlON:Yb ²⁺ , a novel green-emitting phosphor for white light-emitting diodes. Science and Technology of Advanced Materials, 2011, 12, 034404.	6.1	50
120	Facile Synthesis of (Sr,Ca) ₂ Si ₅ N ₈ :Eu ²⁺ -Based Red-Emitting Phosphor for Solid-State Lighting. Industrial & Engineering Chemistry Research, 2013, 52, 7453-7456.	3.7	50
121	Lead-free piezoelectric ceramics in the (1-x)Sr ₂ NaNb ₅ O ₁₅ -xCa ₂ NaNb ₅ O ₁₅ (0.05 ≤ x ≤ 0.35) system. Journal of Materials Chemistry, 2002, 12, 3156-3161.	6.7	49
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