Rong-Jun Xie

List of Publications by Year
in descending order

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		8159	13338
296	21,056	76	130
papers	citations	h-index	g-index

297	297	297	8043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silicon-based oxynitride and nitride phosphors for white LEDsâ€"A review. Science and Technology of Advanced Materials, 2007, 8, 588-600.	2.8	907
2	Characterization and properties of green-emitting Î²-SiAlON:Eu2+ powder phosphors for white light-emitting diodes. Applied Physics Letters, 2005, 86, 211905.	1.5	656
3	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. Chemical Reviews, 2018, 118, 1951-2009.	23.0	598
4	Eu2+-doped Ca-Î±-SiAlON: A yellow phosphor for white light-emitting diodes. Applied Physics Letters, 2004, 84, 5404-5406.	1.5	581
5	A Simple, Efficient Synthetic Route to Sr2Si5N8:Eu2+-Based Red Phosphors for White Light-Emitting Diodes. Chemistry of Materials, 2006, 18, 5578-5583.	3.2	571
6	2-phosphor-converted white light-emitting diodes using oxynitride/nitride phosphors. Applied Physics Letters, 2007, 90, 191101.	1.5	528
7	Two-Site Occupation for Exploring Ultra-Broadband Near-Infrared Phosphorâ€"Double-Perovskite La₂MgZrO₆:Cr³⁺. Chemistry of Materials, 2019, 31, 5245-5253.	3.2	357
8	Preparation and Luminescence Spectra of Calciumâ€•and Rareâ€Earth (R = Eu, Tb, and Pr)â€Codoped Î±â€SiAlON Ceramics. Journal of the American Ceramic Society, 2002, 85, 1229-1234.	1.9	312
9	Optical Properties of (Oxy)Nitride Materials: A Review. Journal of the American Ceramic Society, 2013, 96, 665-687.	1.9	293
10	Wavelength-tunable and thermally stable Li-Î±-sialon:Eu2+ oxynitride phosphors for white light-emitting diodes. Applied Physics Letters, 2006, 89, 241103.	1.5	271
11	Structure evolution and photoluminescence of Lu₃(Al,Mg)₂(Al,Si)₃O₁₂:Ce³⁺ phosphors: new yellow-color converters for blue LED-driven solid state lighting. Journal of Materials Chemistry C, 2016, 4, 6855-6863.	2.7	271
12	Optical Data Storage and Multicolor Emission Readout on Flexible Films Using Deepâ€Trap Persistent Luminescence Materials. Advanced Functional Materials, 2018, 28, 1705769.	7.8	271
13	Optical Properties of Eu2+ in Î±-SiAlON. Journal of Physical Chemistry B, 2004, 108, 12027-12031.	1.2	251
14	Achieving High Quantum Efficiency Narrow-Band Î²-Sialon:Eu²⁺ Phosphors for High-Brightness LCD Backlights by Reducing the Eu³⁺ Luminescence Killer. Chemistry of Materials, 2018, 30, 494-505.	3.2	250
15	Rare-Earth Activated Nitride Phosphors: Synthesis, Luminescence and Applications. Materials, 2010, 3, 3777-3793.	1.3	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.	1.5	243
17	Color Conversion Materials for Highâ€Brightness Laserâ€Driven Solidâ€State Lighting. Laser and Photonics Reviews, 2018, 12, 1800173.	4.4	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.	3.2	223

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19	Highly efficient white-light-emitting diodes fabricated with short-wavelength yellow oxynitride phosphors. Applied Physics Letters, 2006, 88, 101104.	1.5	212
20	Al₂O₃â€“YAG:Ce composite phosphor ceramic: a thermally robust and efficient color converter for solid state laser lighting. Journal of Materials Chemistry C, 2016, 4, 8648-8654.	2.7	206
21	Dual-Band Luminescent Lead-Free Antimony Chloride Halides with Near-Unity Photoluminescence Quantum Efficiency. Chemistry of Materials, 2019, 31, 9363-9371.	3.2	206
22	An excellent cyan-emitting orthosilicate phosphor for NUV-pumped white LED application. Journal of Materials Chemistry C, 2017, 5, 12365-12377.	2.7	203
23	Ca1âˆ’xLixAl1âˆ’xSi1+xN3:Eu2+ solid solutions as broadband, color-tunable and thermally robust red phosphors for superior color rendition white light-emitting diodes. Light: Science and Applications, 2016, 5, e16155-e16155.	7.7	186
24	Mechanoluminescence Rebrightening the Prospects of Stress Sensing: A Review. Advanced Materials, 2021, 33, e2005925.	11.1	181
25	Unique Color Converter Architecture Enabling Phosphor-in-Glass (PiG) Films Suitable for High-Power and High-Luminance Laser-Driven White Lighting. ACS Applied Materials & Interfaces, 2018, 10, 14930-14940.	4.0	177
26	Blue, green, and red full-color ultralong afterglow in nitrogen-doped carbon dots. Nanoscale, 2019, 11, 6584-6590.	2.8	176
27	Warm-white light-emitting diode with yellowish orange SiAlON ceramic phosphor. Optics Letters, 2004, 29, 2001.	1.7	170
28	Narrow-Band Green-Emitting Phosphor Ba₂LiSi₇AlN₁₂:Eu²⁺ with High Thermal Stability Discovered by a Single Particle Diagnosis Approach. Chemistry of Materials, 2015, 27, 5892-5898.	3.2	166
29	Trap Depth Engineering of SrSi₂O₂N₂:Ln²⁺,Ln³⁺ (Ln²⁺ =) Tj ETQq1 1 0.784314 Applications. ACS Applied Materials & Interfaces, 2018, 10, 1854-1864.	4.0	159
30	Wide Color Gamut Backlight for Liquid Crystal Displays Using Three-Band Phosphor-Converted White Light-Emitting Diodes. Applied Physics Express, 0, 2, 022401.	1.1	156
31	Broadband near-infrared (NIR) emission realized by the crystal-field engineering of Y_{3âˆ’x}Ca_xAl_{5âˆ’x}Si_xO₁₂:Cr³⁺(x=	1.7	156
32	X-ray-charged bright persistent luminescence in NaYF4:Ln3+@NaYF4 nanoparticles for multidimensional optical information storage. Light: Science and Applications, 2021, 10, 132.	7.7	154
33	Achieving Multicolor Long-Lived Luminescence in Dye-Encapsulated Metalâ€“Organic Frameworks and Its Application to Anticounterfeiting Stamps. ACS Applied Materials & Interfaces, 2018, 10, 1802-1809.	4.0	151
34	Highly efficient narrow-band green and red phosphors enabling wider color-gamut LED backlight for more brilliant displays. Optics Express, 2015, 23, 28707.	1.7	150
35	Direct observation of single dopant atom in light-emitting phosphor of Î²-SiAlON:Eu2+. Applied Physics Letters, 2009, 94, .	1.5	147
36	Fabrication and characterization of potassiumâ€“sodium niobate piezoelectric ceramics by spark-plasma-sintering method. Materials Research Bulletin, 2004, 39, 1709-1715.	2.7	141

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37	Phase diagram and enhanced piezoelectricity in the strontium titanate doped potassium-sodium niobate solid solution. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, R57-R59.	0.8	135
38	Piezoelectric Properties of Spark-Plasma-Sintered (Na0.5K0.5)NbO3â€“PbTiO3Ceramics. Japanese Journal of Applied Physics, 2002, 41, 7119-7122.	0.8	132
39	Synthesis and Photoluminescent Properties of (La,Ca)₃Si₆N₁₁:Ce³⁺ Fine Powder Phosphors for Solid-State Lighting. ACS Applied Materials & Interfaces, 2011, 3, 811-816.	4.0	127
40	Powder Synthesis of Ca-Î±â€˜-SiAlON as a Host Material for Phosphors. Chemistry of Materials, 2005, 17, 308-314.	3.2	124
41	Warm White Light with a High Color-Rendering Index from a Single Gd₃Al₄GaO₁₂:Ce³⁺ Transparent Ceramic for High-Power LEDs and LDs. ACS Applied Materials & Interfaces, 2019, 11, 2130-2139.	4.0	124
42	Red-shift of emission wavelength caused by reabsorption mechanism of europium activated Ca–SiAlON ceramic phosphors. Journal of Luminescence, 2007, 126, 843-852.	1.5	123
43	Microwave-Assisted Synthesis of CdS/ZnS:Cu Quantum Dots for White Light-Emitting Diodes with High Color Rendition. Chemistry of Materials, 2015, 27, 1187-1193.	3.2	122
44	Broadband near-infrared phosphor BaMgAl10O17:Cr3+ realized by crystallographic site engineering. Chemical Engineering Journal, 2021, 417, 129224.	6.6	121
45	Crystal structure and photoluminescence of Mn2+â€“Mg2+ codoped gamma aluminum oxynitride (Î³-AlON): A promising green phosphor for white light-emitting diodes. Applied Physics Letters, 2008, 92, 201905.	1.5	119
46	Discovery of New Nitridosilicate Phosphors for Solid State Lighting by the Single-Particle-Diagnosis Approach. Chemistry of Materials, 2014, 26, 4280-4288.	3.2	116
47	Highly Efficient and Thermally Stable Blue-Emitting AlN:Eu²⁺ Phosphor for Ultraviolet White Light-Emitting Diodes. Journal of Physical Chemistry C, 2009, 113, 9392-9397.	1.5	115
48	Î²-Sialon:Eu phosphor-in-glass: a robust green color converter for high power blue laser lighting. Journal of Materials Chemistry C, 2015, 3, 10761-10766.	2.7	115
49	CaAlSiN₃:Eu²⁺ translucent ceramic: a promising robust and efficient red color converter for solid state laser displays and lighting. Journal of Materials Chemistry C, 2016, 4, 8197-8205.	2.7	115
50	Highly Efficient Lead-Free (Bi,Ce)-Codoped Cs₂Ag_{0.4}Na_{0.6}InCl₆ Double Perovskites for White Light-Emitting Diodes. Chemistry of Materials, 2020, 32, 7814-7821.	3.2	108
51	Blue-emitting LaSi3N5:Ce3+ fine powder phosphor for UV-converting white light-emitting diodes. Applied Physics Letters, 2009, 95, .	1.5	107
52	Extra-Broad Band Orange-Emitting Ce³⁺-Doped Y₃Si₅N₉O Phosphor for Solid-State Lighting: Electronic, Crystal Structures and Luminescence Properties. Chemistry of Materials, 2016, 28, 4829-4839.	3.2	105
53	A green synthetic route to the highly efficient K₂SiF₆:Mn⁴⁺narrow-band red phosphor for warm white light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 2741-2746.	2.7	105
54	Dielectric and ferroelectric properties of tetragonal tungsten bronze Sr2â^'xCaxNaNb5O15 (x=0.05â€“0.35) ceramics. Applied Physics Letters, 2002, 80, 835-837.	1.5	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. Journal of Alloys and Compounds, 2017, 702, 193-198.	2.8	97
56	Photoluminescence of Cerium-Doped Î±-SiAlON Materials. Journal of the American Ceramic Society, 2004, 87, 1368-1370.	1.9	96
57	Nitride and oxynitride phosphors for white LEDs: Synthesis, new phosphor discovery, crystal structure. Progress in Solid State Chemistry, 2018, 51, 41-51.	3.9	95
58	Thermally self-managing YAG:Ceâ€“Al₂O₃color converters enabling high-brightness laser-driven solid state lighting in a transmissive configuration. Journal of Materials Chemistry C, 2019, 7, 3901-3908.	2.7	95
59	Chromium-Doped Zinc Gallogermanate@Zeolitic Imidazolate Framework-8: A Multifunctional Nanoplatform for Rechargeable In Vivo Persistent Luminescence Imaging and pH-Responsive Drug Release. ACS Applied Materials & Interfaces, 2019, 11, 1907-1916.	4.0	95
60	Luminescence properties of blue La1â^'xCexAl(Si6â^'zAlz)(N10â^'zOz)â€^(zâ^¼1) oxynitride phosphors and their application in white light-emitting diode. Applied Physics Letters, 2007, 91, .	1.5	93
61	Unique Design Strategy for Laserâ€Driven Color Converters Enabling Superhighâ€Luminance and Highâ€Directionality White Light. Laser and Photonics Reviews, 2019, 13, 1900147.	4.4	93
62	Data-Driven Discovery of Full-Visible-Spectrum Phosphor. Chemistry of Materials, 2019, 31, 6286-6294.	3.2	92
63	Inkjet-Printed Quantum Dot Color Conversion Films for High-Resolution and Full-Color Micro Light-Emitting Diode Displays. Journal of Physical Chemistry Letters, 2020, 11, 5184-5191.	2.1	92
64	Nitrogen Gas Pressure Synthesis and Photoluminescent Properties of Orangeâ€Red SrAlSi₄N₇:Eu²⁺ Phosphors for White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2011, 94, 536-542.	1.9	91
65	A search for extra-high brightness laser-driven color converters by investigating thermally-induced luminance saturation. Journal of Materials Chemistry C, 2019, 7, 11449-11456.	2.7	90
66	Tailoring Trap Depth and Emission Wavelength in Y₃Al_{5â€“x}Ga_xO₁₂:Ce³⁺,V³⁺/Phosphor-in-G Films for Optical Information Storage. ACS Applied Materials & Interfaces, 2018, 10, 27150-27159.	4.0	89
67	On the Performance Enhancement of Nitride Phosphors as Spectral Conversion Materials in Solid State Lighting. ECS Journal of Solid State Science and Technology, 2013, 2, R3031-R3040.	0.9	88
68	Color-Tunable and High-Efficiency Dye-Encapsulated Metalâ€“Organic Framework Composites Used for Smart White-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 18910-18917.	4.0	88
69	Trimethylsilyl Iodine-Mediated Synthesis of Highly Bright Red-Emitting CsPbI₃ Perovskite Quantum Dots with Significantly Improved Stability. Chemistry of Materials, 2019, 31, 881-889.	3.2	88
70	Synthesis and Luminescence Properties of Orangeâ€“Redâ€Emitting M₂Si₅N₈:Eu²⁺ (M=Ca, Sr, Ba) Lightâ€Emitting Diode Conversion Phosphors by a Simple Nitridation of MSi₂. International Journal of Applied Ceramic Technology, 2009, 6, 459-464.	1.1	87
71	Blue emission of Ce3+ in lanthanide silicon oxynitride phosphors. Journal of Materials Research, 2007, 22, 1933-1941.	1.2	86
72	New garnet structure phosphors, Lu_{3â^'x}Y_xMgAl₃SiO₁₂:Ce³⁺ (x = 0â€“3), developed by solid solution design. Journal of Materials Chemistry C, 2016, 4, 2359-2366.	2.7	86

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73	A Thermally Robust La₃Si₆N₁₁:Ceâ€inâ€Glass Film for Highâ€Brightness Blueâ€Laserâ€Driven Solid State Lighting. Laser and Photonics Reviews, 2019, 13, 1800216.	4.4	86
74	New Strategies for Preparing NanoSized Silicon Nitride Ceramics. Journal of the American Ceramic Society, 2005, 88, 934-937.	1.9	85
75	New insights into the microstructure of translucent CaAlSiN₃:Eu²⁺ phosphor ceramics for solid-state laser lighting. Journal of Materials Chemistry C, 2017, 5, 1042-1051.	2.7	83
76	Force-induced charge carrier storage: a new route for stress recording. Light: Science and Applications, 2020, 9, 182.	7.7	83
77	High-power laser-driven phosphor-in-glass for excellently high conversion efficiency white light generation for special illumination or display backlighting. Journal of Materials Chemistry C, 2018, 6, 8212-8218.	2.7	81
78	Highly stable CsPbI3:Sr2+ nanocrystals with near-unity quantum yield enabling perovskite light-emitting diodes with an external quantum efficiency of 17.1%. Nano Energy, 2021, 85, 106033.	8.2	78
79	Photoluminescence of Rare-Earth-Doped Ca-alpha-SiAlON Phosphors: Composition and Concentration Dependence. Journal of the American Ceramic Society, 2005, 88, 2883-2888.	1.9	77
80	Moisture-induced degradation and its mechanism of (Sr,Ca)AlSiN₃:Eu²⁺, a red-color-converter for solid state lighting. Journal of Materials Chemistry C, 2015, 3, 3181-3188.	2.7	75
81	Structure, Luminescence, and Application of a Robust Carbidonitride Blue Phosphor (Al_{1â€“x}Si_xC_xN_{1â€“x}:Eu²⁺) for Near UV-LED Driven Solid State Lighting. Chemistry of Materials, 2015, 27, 8457-8466.	8.2	75
82	Improved stability of CsPbBr₃ perovskite quantum dots achieved by suppressing interligand proton transfer and applying a polystyrene coating. Nanoscale, 2018, 10, 21441-21450.	2.8	75
83	Creating visible-to-near-infrared mechanoluminescence in mixed-anion compounds SrZn2S2O and SrZnSO. Nano Energy, 2020, 68, 104329.	8.2	72
84	Enabling robust and hour-level organic long persistent luminescence from carbon dots by covalent fixation. Light: Science and Applications, 2022, 11, 80.	7.7	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. Journal of Materials Chemistry C, 2019, 7, 354-361.	2.7	70
86	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.	2.1	70
87	Synthesis of the phase pure Ba₃Si₆O₁₂N₂:Eu²⁺ green phosphor and its application in high color rendition white LEDs. Dalton Transactions, 2014, 43, 6132-6138.	1.6	69
88	Fabrication of Wâ€“Cu functionally graded material by spark plasma sintering method. International Journal of Refractory Metals and Hard Materials, 2014, 42, 193-199.	1.7	68
89	Light-emitting diodes: brighter NIR-emitting phosphor making light sources smarter. Light: Science and Applications, 2020, 9, 155.	7.7	67
90	Oxynitride/nitride phosphors for white light-emitting diodes (LEDs). Journal of Electroceramics, 2008, 21, 370-373.	0.8	66

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91	New Y₂BaAl₄SiO₁₂:Ce³⁺ yellow microcrystal-glass powder phosphor with high thermal emission stability. Journal of Materials Chemistry C, 2016, 4, 9872-9878.	2.7	66
92	Structure, luminescence and energy transfer in Ce³⁺ and Mn²⁺ codoped Î³-AlON phosphors. Journal of Materials Chemistry C, 2019, 7, 733-742.	2.7	66
93	Recent processes on light-emitting lead-free metal halide perovskites. Chemical Engineering Journal, 2020, 393, 124757.	6.6	65
94	Critical Reviewâ€"Narrow-Band Nitride Phosphors for Wide Color-Gamut White LED Backlighting. ECS Journal of Solid State Science and Technology, 2018, 7, R3064-R3078.	0.9	64
95	Composition and structure design of three-layered composite phosphors for high color rendering chip-on-board light-emitting diode devices. Journal of Advanced Ceramics, 2021, 10, 729-740.	8.9	64
96	Fabrication of Î²-sialon nanoceramics by high-energy mechanical milling and spark plasma sintering. Nanotechnology, 2005, 16, 1569-1573.	1.3	63
97	Blue-Emitting Sr₃Si_{8â€"x}Al_xO_{7+x}N_{8â€"x}:Eu²⁺ Discovered by a Single-Particle-Diagnosis Approach: Crystal Structure, Luminescence, Scale-Up Synthesis, and Its Abnormal Thermal Quenching Behavior. Chemistry of Materials, 2015, 27, 7689-7697.	9.2	63
98	Thermal degradation of the green-emitting SrSi₂O₂N₂:Eu²⁺ phosphor for solid state lighting. Journal of Materials Chemistry C, 2014, 2, 2735-2742.	2.7	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. Journal of the European Ceramic Society, 2019, 39, 1909-1917.	2.8	62
100	Crystal structure, tunable emission and applications of Ca_{1â^'x}Al_{1â^'x}Si_{1+x}N_{3â^'x}O_x:RE (x = 0â€"0.22,) Tj ETQq0 0 0 rgBT /Ov Journal of Materials Chemistry C, 2016, 4, 11219-11230.	2.7	61
101	Achieving Remote Stress and Temperature Dualâ€Modal Imaging by Doubleâ€Lanthanideâ€Activated Mechanoluminescent Materials. Advanced Functional Materials, 2021, 31, 2101567.	7.8	61
102	Reduced thermal degradation of the red-emitting Sr₂Si₅N₈:Eu²⁺ phosphor via thermal treatment in nitrogen. Journal of Materials Chemistry C, 2015, 3, 7642-7651.	2.7	60
103	Thermal and Electrical Properties in Plasmaâ€Activationâ€Sintered Silicon Carbide with Rareâ€Earthâ€Oxide Additives. Journal of the American Ceramic Society, 2001, 84, 2448-2450.	1.9	59
104	Synthesis and Photoluminescence Properties of Sr[sub 2]Si[sub 5]N[sub 8]:Eu[sup 2+] Red Phosphor by a Gas-Reduction and Nitridation Method. Journal of the Electrochemical Society, 2008, 155, J378.	1.3	57
105	Gas-Reductionâ€"Nitridation Synthesis of CaAlSiN₃:Eu²⁺ Fine Powder Phosphors for Solid-State Lighting. Industrial & Engineering Chemistry Research, 2014, 53, 2713-2717.	1.8	56
106	A new CaF₂-YAG:Ce composite phosphor ceramic for high-power and high-color-rendering WLEDs. Journal of Materials Chemistry C, 2019, 7, 8569-8574.	2.7	55
107	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.	2.9	55
108	Effect of Î²â€toâ€Îº Phase Transformation on the Microstructural Development and Mechanical Properties of Fineâ€Grained Silicon Carbide Ceramics. Journal of the American Ceramic Society, 2001, 84, 945-950.	1.9	54

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109	Photoluminescence and thermal stability of yellow-emitting Sr-Î±-SiAlON:Eu2+ phosphor. Journal of Materials Science, 2010, 45, 3198-3203.	1.7	53
110	Crystal Structure and Photoluminescence Properties of Redâ€Emitting Ca₉La_{1â˜'x}(VO₄)₇:xEu³⁺ Phosphors for White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2010, 93, 4081-4086.	1.9	53
111	Ce-Doped La₃Si_{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.	4.0	53
112	Fine yellowÎ±-SiAlON:Eu phosphors for white LEDs prepared by the gas-reductionâ€“nitridation method. Science and Technology of Advanced Materials, 2007, 8, 601-606.	2.8	52
113	Luminescence properties of SrSi6N8:Eu2+. Journal of Materials Science, 2008, 43, 5659-5661.	1.7	51
114	Synthesis, crystal structure and photoluminescence of Eu-Î±-SiAlON. Journal of Alloys and Compounds, 2010, 504, 579-584.	2.8	51
115	Strong Energy-Transfer-Induced Enhancement of Luminescence Efficiency of Eu²⁺- and Mn²⁺-Codoped Gamma-AlON for Near-UV-LED-Pumped Solid State Lighting. Inorganic Chemistry, 2015, 54, 5556-5565.	1.9	51
116	A high-performance non-rare-earth deep-red-emitting Ca14-xSrxZn6Al10O35:Mn4+ phosphor for high-power plant growth LEDs. Journal of Alloys and Compounds, 2019, 781, 702-709.	2.8	51
117	Phosphorus-Doped Metalâ€“Organic Framework-Derived CoS₂ Nanoboxes with Improved Adsorption-Catalysis Effect for Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 15226-15236.	4.0	51
118	Time-resolved photoluminescence analysis of two-peak emission behavior in Sr2Si5N8:Eu2+. Applied Physics Letters, 2009, 95, .	1.5	50
119	Photoluminescence properties of Î²-SiAlON:Yb²⁺, a novel green-emitting phosphor for white light-emitting diodes. Science and Technology of Advanced Materials, 2011, 12, 034404.	2.8	50
120	Facile Synthesis of (Sr,Ca)₂Si₅N₈:Eu²⁺-Based Red-Emitting Phosphor for Solid-State Lighting. Industrial & Engineering Chemistry Research, 2013, 52, 7453-7456.	1.8	50
121	Lead-free piezoelectric ceramics in the (1 â˜' x)Sr2NaNb5O15â€“xCa2NaNb5O15(0.05 â‰¤ x â‰¤ 0.35) system. Journal of Materials Chemistry, 2002, 12, 3156-3161.	6.7	49
122	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.	2.7	49
123	Recent progress on discovery of novel phosphors for solid state lighting. Journal of Rare Earths, 2020, 38, 464-473.	2.5	49
124	Ultrastable and highly efficient green-emitting perovskite quantum dot composites for Mini-LED displays or backlights. Nano Energy, 2022, 95, 107003.	8.2	49
125	Temperature Dependent Luminescence of Yellowâ€Emitting Î±â€Sialon:Eu²⁺ Oxynitride Phosphors for White Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2009, 92, 2668-2673.	1.9	48
126	Anomalous Eu layer doping in Eu, Si co-doped aluminium nitride based phosphor and its direct observation. Journal of Materials Chemistry, 2010, 20, 9948.	6.7	48

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127	Dual-site occupancy induced broadband cyan emission in Ba₂CaB₂Si₄O₁₄:Ce³⁺. Journal of Materials Chemistry C, 2020, 8, 15626-15633.	2.7	48
128	Sensing studies and applications based on metal halide perovskite materials: Current advances and future perspectives. TrAC - Trends in Analytical Chemistry, 2021, 134, 116127.	5.8	48
129	NaMgF₃:Tb³⁺@NaMgF₃ Nanoparticles Containing Deep Traps for Optical Information Storage. Advanced Optical Materials, 2021, 9, 2100624.	3.6	48
130	Synthesis and photoluminescence of a novel Sr-SiAlON:Eu2+ blue-green phosphor (Sr14Si68â^'sAl6+sOsN106â^'s:Eu2+ (sâ‰ˆ7)). Journal of Alloys and Compounds, 2011, 509, 332-337.	2.8	47
131	Study on Trap Levels in SrSi₂AlO₂N₃:Eu²⁺,Ln³⁺ Persistent Phosphors Based on Host-Referred Binding Energy Scheme and Thermoluminescence Analysis. Inorganic Chemistry, 2016, 55, 11890-11897.	1.9	47
132	In Situ Inkjet Printing Patterned Lead Halide Perovskite Quantum Dot Color Conversion Films by Using Cheap and Ecoâ€Friendly Aqueous Inks. Small Methods, 2021, 5, e2000889.	4.6	47
133	Transparent Ceramics Enabling High Luminous Flux and Efficacy for the Next-Generation High-Power LED Light. ACS Applied Materials & Interfaces, 2019, 11, 21697-21701.	4.0	45
134	Ternary solid solution phosphors Ca1−Li Al1−Si1++N3-O :Ce3+ with enhanced thermal stability for high-power laser lighting. Chemical Engineering Journal, 2021, 404, 126575.	6.6	45
135	Encapsulation-Enabled Perovskiteâ€“PMMA Films Combining a Micro-LED for High-Speed White-Light Communication. ACS Applied Materials & Interfaces, 2021, 13, 54143-54151.	4.0	43
136	Large-scale room-temperature synthesis of high-efficiency lead-free perovskite derivative (NH4)2SnCl6:Te phosphor for warm wLEDs. Chemical Engineering Journal, 2021, 420, 129740.	6.6	42
137	Fluorescence of Eu2+ in Strontium Oxonitridoaluminosilicates (SiAlONS). Journal of the Ceramic Society of Japan, 2005, 113, 462-465.	1.3	41
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