Bingfu Lei

List of Publications by Year
in descending order

236 papers	11,601 citations	23500 58 h-index	39575 94 g-index
239 all docs	239 docs citations	239 times ranked	9051 citing authors

#	Article	IF	Citations
1	A Selfâ€Quenchingâ€Resistant Carbonâ€Dot Powder with Tunable Solidâ€State Fluorescence and Construction of Dualâ€Fluorescence Morphologies for White Lightâ€Emission. Advanced Materials, 2016, 28, 312-318.	11.1	527
2	Hydrophobic carbon dots with blue dispersed emission and red aggregation-induced emission. Nature Communications, 2019, 10, 1789.	5.8	419
3	Hierarchical structured carbon derived from bagasse wastes: A simple and efficient synthesis route and its improved electrochemical properties for high-performance supercapacitors. Journal of Power Sources, 2016, 302, 164-173.	4.0	358
4	A Universal Strategy for Activating the Multicolor Roomâ€Temperature Afterglow of Carbon Dots in a Boric Acid Matrix. Angewandte Chemie - International Edition, 2019, 58, 7278-7283.	7.2	266
5	Luminescent Properties of a White Afterglow Phosphor CdSiO3:Dy3+. Chemistry of Materials, 2005, 17, 2108-2113.	3.2	242
6	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
7	Tunable Luminescent Properties and Concentration-Dependent, Site-Preferable Distribution of Eu²⁺ Ions in Silicate Glass for White LEDs Applications. ACS Applied Materials & Interfaces, 2015, 7, 10044-10054.	4.0	197
8	Enhanced Biological Photosynthetic Efficiency Using Lightâ€Harvesting Engineering with Dualâ€Emissive Carbon Dots. Advanced Functional Materials, 2018, 28, 1804004.	7.8	189
9	Solidâ€State Carbon Dots with Red Fluorescence and Efficient Construction of Dualâ€Fluorescence Morphologies. Small, 2017, 13, 1700075.	5.2	165
10	Nitrogen-doped porous carbon with an ultrahigh specific surface area for superior performance supercapacitors. Journal of Power Sources, 2016, 310, 145-153.	4.0	161
11	Synthesis, Characterization, and Oxygen Sensing Properties of Functionalized Mesoporous SBA-15 and MCM-41 with a Covalently Linked Ruthenium(II) Complex. Journal of Physical Chemistry C, 2007, 111, 11291-11301.	1.5	160
12	Carbon dots-based fluorescent probe for â€œoff-onâ€•sensing of Hg(II) and I. Biosensors and Bioelectronics, 2016, 79, 531-535.	5.3	155
13	Phytotoxicity, Uptake, and Translocation of Fluorescent Carbon Dots in Mung Bean Plants. ACS Applied Materials & Interfaces, 2016, 8, 19939-19945.	4.0	151
14	Toward Bi³⁺ Red Luminescence with No Visible Reabsorption through Manageable Energy Interaction and Crystal Defect Modulation in Single Bi³⁺-Doped ZnWO₄ Crystal. Chemistry of Materials, 2017, 29, 8412-8424.	3.2	148
15	Two-site Cr³⁺ occupation in the MgTa₂O₆:Cr³⁺ phosphor toward broad-band near-infrared emission for vessel visualization. Journal of Materials Chemistry C, 2020, 8, 9322-9328.	2.7	147
16	A review on the effects of carbon dots in plant systems. Materials Chemistry Frontiers, 2020, 4, 437-448.	3.2	139
17	Carbon Dot-Silica Nanoparticle Composites for Ultralong Lifetime Phosphorescence Imaging in Tissue and Cells at Room Temperature. Chemistry of Materials, 2019, 31, 9887-9894.	3.2	137
18	Tunable dual emission of Ca₃Al₄ZnO₁₀:Bi³⁺,Mn⁴⁺ via energy transfer for indoor plant growth lighting. Journal of Materials Chemistry C, 2018, 6, 8914-8922.	2.7	134

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19	From biomass wastes to vertically aligned graphene nanosheet arrays: A catalyst-free synthetic strategy towards high-quality graphene for electrochemical energy storage. Chemical Engineering Journal, 2018, 336, 550-561.	6.6	128
20	Large-scale synthesis of porous carbon via one-step CuCl₂ activation of rape pollen for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 12046-12055.	5.2	126
21	Three-dimensional honeycomb-like hierarchically structured carbon for high-performance supercapacitors derived from high-ash-content sewage sludge. Journal of Materials Chemistry A, 2015, 3, 15225-15234.	5.2	125
22	A highly efficient and suitable spectral profile Cr3+-doped garnet near-infrared emitting phosphor for regulating photomorphogenesis of plants. Chemical Engineering Journal, 2022, 428, 132003.	6.6	118
23	Facile Preparation and Ultrastable Performance of Single-Component White-Light-Emitting Phosphor-in-Glass used for High-Power Warm White LEDs. ACS Applied Materials & Interfaces, 2015, 7, 28122-28127.	4.0	112
24	Construction of Carbon Dots with Colorâ€Tunable Aggregationâ€Induced Emission by Nitrogenâ€Induced Intramolecular Charge Transfer. Advanced Materials, 2021, 33, e2104872.	11.1	112
25	Preparation and luminescence properties of CaSnO3:Sm3+ phosphor emitting in the reddish orange region. Optical Materials, 2007, 29, 1491-1494.	1.7	104
26	Far-Red Carbon Dots as Efficient Light-Harvesting Agents for Enhanced Photosynthesis. ACS Applied Materials & Interfaces, 2020, 12, 21009-21019.	4.0	102
27	Ultrastable red-emitting phosphor-in-glass for superior high-power artificial plant growth LEDs. Journal of Materials Chemistry C, 2018, 6, 1738-1745.	2.7	95
28	Spectra and long-lasting properties of Sm3+-doped yttrium oxysulfide phosphor. Materials Chemistry and Physics, 2004, 87, 227-232.	2.0	94
29	Fabrication of Reduced Graphene Oxide and Sliver Nanoparticle Hybrids for Raman Detection of Absorbed Folic Acid: A Potential Cancer Diagnostic Probe. ACS Applied Materials & Interfaces, 2013, 5, 4760-4768.	4.0	94
30	Synthesis of molecularly imprinted carbon dot grafted YVO4:Eu3+ for the ratiometric fluorescent determination of paranitrophenol. Biosensors and Bioelectronics, 2016, 86, 706-713.	5.3	94
31	Eu³⁺â€Doped Phosphorâ€inâ€Glass: A Route toward Tunable Multicolor Materials for Nearâ€UV Highâ€Power Warmâ€White LEDs. Advanced Optical Materials, 2017, 5, 1600910.	3.6	92
32	Room temperature phosphorescence from moisture-resistant and oxygen-barred carbon dot aggregates. Journal of Materials Chemistry C, 2017, 5, 6243-6250.	2.7	91
33	Color-control of long-lasting phosphorescence (LLP) through rare earth ion-doped cadmium metasilicate phosphors. Journal of Materials Chemistry, 2005, 15, 4025.	6.7	90
34	The room temperature afterglow mechanism in carbon dots: Current state and further guidance perspective. Carbon, 2020, 165, 306-316.	5.4	89
35	Pink light emitting long-lasting phosphorescence in Sm3+-doped CdSiO3. Journal of Solid State Chemistry, 2004, 177, 1333-1337.	1.4	88
36	Temperature-responsive conversion of thermally activated delayed fluorescence and room-temperature phosphorescence of carbon dots in silica. Journal of Materials Chemistry C, 2020, 8, 5744-5751.	2.7	86

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37	Phase-controlled synthesis of molybdenum oxide nanoparticles for surface enhanced Raman scattering and photothermal therapy. Nanoscale, 2018, 10, 5997-6004.	2.8	85
38	Construction and multifunctional applications of carbon dots/PVA nanofibers with phosphorescence and thermally activated delayed fluorescence. Chemical Engineering Journal, 2018, 347, 505-513.	6.6	84
39	Co-substitution in Ca_{1â^'x}Y_xAl_{12â^'x}Mg_xO₁₉phosphors: local structure evolution, photoluminescence tuning and application for plant growth LEDs. Journal of Materials Chemistry C, 2018, 6, 4217-4224.	2.7	83
40	Amorphous Niâ€“Co Binary Oxide with Hierarchical Porous Structure for Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2015, 7, 24419-24429.	4.0	82
41	Fluorescent Nanoparticles for Super-Resolution Imaging. Chemical Reviews, 2022, 122, 12495-12543.	23.0	82
42	Green emitting long lasting phosphorescence (LLP) properties of Mg2SnO4:Mn2+ phosphor. Journal of Luminescence, 2006, 118, 173-178.	1.5	76
43	Largeâ€Scale Oneâ€Step Synthesis of Carbon Dots from Yeast Extract Powder and Construction of Carbon Dots/PVA Fluorescent Shape Memory Material. Advanced Optical Materials, 2018, 6, 1701150.	3.6	76
44	Long lasting phosphorescent properties of Ti doped ZrO2. Journal of Luminescence, 2007, 126, 822-826.	1.5	75
45	Bioimaging Application and Growth-Promoting Behavior of Carbon Dots from Pollen on Hydroponically Cultivated Rome Lettuce. ACS Omega, 2017, 2, 3958-3965.	1.6	73
46	Towards efficient dual-emissive carbon dots through sulfur and nitrogen co-doped. Journal of Materials Chemistry C, 2017, 5, 8014-8021.	2.7	73
47	Nearâ€Infraredâ€Excited Multicolor Afterglow in Carbon Dotsâ€Based Roomâ€Temperature Afterglow Materials. Angewandte Chemie - International Edition, 2021, 60, 22253-22259.	7.2	73
48	pH-Responsive carbon dots with red emission for real-time and visual detection of amines. Journal of Materials Chemistry C, 2020, 8, 11563-11571.	2.7	72
49	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
50	Carbon dots as light converter for plant photosynthesis: Augmenting light coverage and quantum yield effect. Journal of Hazardous Materials, 2021, 410, 124534.	6.5	69
51	Microtube Bundle Carbon Derived from Paulownia Sawdust for Hybrid Supercapacitor Electrodes. ACS Applied Materials & Interfaces, 2013, 5, 4667-4677.	4.0	68
52	Precipitating CsPbBr₃ quantum dots in boro-germanate glass with a dense structure and inert environment toward highly stable and efficient narrow-band green emitters for wide-color-gamut liquid crystal displays. Journal of Materials Chemistry C, 2019, 7, 13139-13148.	2.7	68
53	Mosaic-Structured SnO 2 @C Porous Microspheres for High-Performance Supercapacitor Electrode Materials. Electrochimica Acta, 2014, 142, 157-166.	2.6	67
54	Transparent sunlight conversion film based on carboxymethyl cellulose and carbon dots. Carbohydrate Polymers, 2016, 151, 245-250.	5.1	67

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55	Synthesis of dual-emissive carbon dots with a unique solvatochromism phenomenon. Journal of Colloid and Interface Science, 2019, 555, 607-614.	5.0	66
56	Near-Ultraviolet to Near-Infrared Fluorescent Nitrogen-Doped Carbon Dots with Two-Photon and Piezochromic Luminescence. ACS Applied Materials & Interfaces, 2018, 10, 27920-27927.	4.0	63
57	A Universal Strategy for Activating the Multicolor Roomâ€Temperature Afterglow of Carbon Dots in a Boric Acid Matrix. Angewandte Chemie, 2019, 131, 7356-7361.	1.6	62
58	Luminescence properties of Sm3+-doped Sr3Sn2O7 phosphor. Materials Chemistry and Physics, 2010, 124, 912-915.	2.0	61
59	Anchoring Carbon Nanodots onto Nanosilica for Phosphorescence Enhancement and Delayed Fluorescence Nascence in Solid and Liquid States. Small, 2020, 16, e2005228.	5.2	61
60	Luminescent properties of orange-emitting long-lasting phosphorescence phosphor Ca2SnO4:Sm3+. Solid State Sciences, 2011, 13, 525-528.	1.5	60
61	Enhanced photoluminescence and phosphorescence properties of red CaAlSiN₃:Eu²⁺ phosphor via simultaneous UV-NIR stimulation. Journal of Materials Chemistry C, 2015, 3, 4445-4451.	2.7	59
62	Full color control and white emission from CaZnOS:Ce³⁺,Na⁺,Mn²⁺ phosphors via energy transfer. Journal of Materials Chemistry C, 2016, 4, 9711-9716.	2.7	58
63	Carbon Dots as a Protective Agent Alleviating Abiotic Stress on Rice (Oryza sativa L.) through Promoting Nutrition Assimilation and the Defense System. ACS Applied Materials & Interfaces, 2020, 12, 33575-33585.	4.0	56
64	Selfâ€Quenchingâ€Resistant Red Emissive Carbon Dots with High Stability for Warm White Lightâ€Emitting Diodes with a High Color Rendering Index. Advanced Optical Materials, 2020, 8, 2000251.	3.6	56
65	Visible-light excitable thermally activated delayed fluorescence in aqueous solution from F, N-doped carbon dots confined in silica nanoparticles. Chemical Engineering Journal, 2021, 426, 130728.	6.6	55
66	Simple, green and high-yield production of single- or few-layer graphene by hydrothermal exfoliation of graphite. Nanoscale, 2014, 6, 4598-4603.	2.8	54
67	Magnesium-nitrogen co-doped carbon dots enhance plant growth through multifunctional regulation in photosynthesis. Chemical Engineering Journal, 2021, 422, 130114.	6.6	54
68	Effect of RE3+ as a co-dopant in long-lasting phosphorescence CdSiO3:Mn2+ (RE=Y, La, Gd, Lu). Journal of Luminescence, 2006, 118, 33-38.	1.5	53
69	A triphenylamine derivative as an efficient organic light color-conversion material for white LEDs. Journal of Luminescence, 2008, 128, 67-73.	1.5	51
70	Antibacterial Activity and Synergetic Mechanism of Carbon Dots against Gram-Positive and -Negative Bacteria. ACS Applied Bio Materials, 2021, 4, 6937-6945.	2.3	51
71	Reddish-Orange Long-Lasting Phosphorescence of Ca[sub 2]Si[sub 5]N[sub 8]:Eu[sup 2+],Tm[sup 3+] Phosphor. Journal of the Electrochemical Society, 2010, 157, J196.	1.3	50
72	Melaleuca bark based porous carbons for hydrogen storage. International Journal of Hydrogen Energy, 2014, 39, 11661-11667.	3.8	50

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73	Unusual Concentration Induced Antithermal Quenching of the Bi2+ Emission from Sr2P2O7:Bi2+. Inorganic Chemistry, 2015, 54, 6028-6034.	1.9	50
74	Red, orange, yellow and green luminescence by carbon dots: hydrogen-bond-induced solvation effects. Nanoscale, 2021, 13, 6846-6855.	2.8	49
75	Persistent luminescence in rare earth ion-doped gadolinium oxysulfide phosphors. Journal of Alloys and Compounds, 2010, 495, 247-253.	2.8	48
76	Temperatureâ€Dependent Emission Spectra of <scp><scp>Ca</scp></scp>₂<scp><scp>Si</scp></scp>₅<scp><scp>N</scp></scp>₈:<scp><sc <scp><scp>Tm</scp></scp>³⁺ Phosphor and its Afterglow Properties. Journal of the American Ceramic Society, 2013, 96, 873-878.	1.9	48
77	Insights into luminescence quenching and detecting trap distribution in Ba₂Si₅N₈:Eu²⁺phosphor with comprehensive considerations of temperature-dependent luminescence behaviors. Journal of Materials Chemistry C, 2015, 3, 9572-9579.	2.7	48
78	Cr3+ doped ZnGa2O4 far-red emission phosphor-in-glass: Toward high-power and color-stable plant growth LEDs with responds to all of phytochrome. Materials Research Bulletin, 2018, 108, 226-233.	2.7	47
79	Double carbon dot assembled mesoporous aluminas: solid-state dual-emission photoluminescence and multifunctional applications. Journal of Materials Chemistry C, 2018, 6, 2495-2501.	2.7	46
80	Carbon Dots in Hydroxy Fluorides: Achieving Multicolor Long-Wavelength Room-Temperature Phosphorescence and Excellent Stability via Crystal Confinement. Nano Letters, 2022, 22, 5127-5136.	4.5	46
81	Synthesis of Silicon Quantum Dots with Highly Efficient Full-Band UV Absorption and Their Applications in Antiyellowing and Resistance of Photodegradation. ACS Applied Materials & Interfaces, 2019, 11, 6634-6643.	4.0	45
82	Recent developments in luminescent nanoparticles for plant imaging and photosynthesis. Journal of Rare Earths, 2019, 37, 903-915.	2.5	44
83	Salvia Miltiorrhiza-Derived Carbon Dots as Scavengers of Reactive Oxygen Species for Reducing Oxidative Damage of Plants. ACS Applied Nano Materials, 2021, 4, 113-120.	2.4	44
84	Cascade Resonance Energy Transfer for the Construction of Nanoparticles with Multicolor Long Afterglow in Aqueous Solutions for Information Encryption and Bioimaging. Advanced Optical Materials, 2022, 10, .	3.6	43
85	Synthesis of the complex fluoride LiBaF3 and optical spectroscopy properties of LiBaF3:M(M=Eu,Ce) through a solvothermal process. Journal of Solid State Chemistry, 2003, 175, 284-288.	1.4	42
86	Novel blue-violet photoluminescence from sputtered ZnO thin films. Journal of Alloys and Compounds, 2011, 509, 5437-5440.	2.8	42
87	Preparation and Properties of Carbon Dotâ€Grafted CaAl₁₂O₁₉:Mn⁴⁺ Colorâ€Tunable Hybrid Phosphor. Advanced Optical Materials, 2016, 4, 427-434.	3.6	42
88	Multifunctional carbon dots for highly luminescent orange-emissive cellulose based composite phosphor construction and plant tissue imaging. Nanoscale, 2017, 9, 12976-12983.	2.8	42
89	Regulation Mechanisms of Carbon Dots in the Development of Lettuce and Tomato. ACS Sustainable Chemistry and Engineering, 2021, 9, 944-953.	3.2	42
90	Thermoluminescence and Temperatureâ€Dependent Afterglow Properties in <scp><scp>BaSi</scp></scp>₂<scp><scp>O</scp></scp>₂<scp><scp>N</scp></scp>₂:<scp>< Journal of the American Ceramic Society, 2013, 96, 3149-3154.	1.9	41

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91	Regulating the morphology and luminescence properties of CsPbBr₃ perovskite quantum dots through the rigidity of glass network structure. Journal of Materials Chemistry C, 2020, 8, 17374-17382.	2.7	41
92	Characterization and properties of a Sr2Si5N8:Eu2+-based light-conversion agricultural film. Journal of Rare Earths, 2020, 38, 539-545.	2.5	41
93	PVA-Coated Fluorescent Carbon Dot Nanocapsules as an Optical Amplifier for Enhanced Photosynthesis of Lettuce. ACS Sustainable Chemistry and Engineering, 2020, 8, 3938-3949.	3.2	41
94	Red, green and blue aggregationâ€induced emissive carbon dots. Chinese Chemical Letters, 2021, 32, 3927-3930.	4.8	41
95	Biomimetic preparation of silicon quantum dots and their phytophysiology effect on cucumber seedlings. Journal of Materials Chemistry B, 2019, 7, 1107-1115.	2.9	40
96	Promoting the Growth of Mung Bean Plants through Uptake and Light Conversion of NaYF₄:Yb,Er@CDs Nanocomposites. ACS Sustainable Chemistry and Engineering, 2020, 8, 9751-9762.	3.2	40
97	Temperature-Dependent Luminescence Characteristic of SrSi2O2N2:Eu2+ Phosphor and Its Thermal Quenching Behavior. Journal of Materials Science and Technology, 2014, 30, 290-294.	5.6	39
98	Effect of H 3 BO 3 flux on the morphology and optical properties of Sr 2 MgAl 22 O 36 :Mn 4+ red phosphors for agricultural light conversion films. Ceramics International, 2016, 42, 13011-13017.	2.3	39
99	Pollen derived blue fluorescent carbon dots for bioimaging and monitoring of nitrogen, phosphorus and potassium uptake in Brassica parachinensisÂL.. RSC Advances, 2017, 7, 33459-33465.	1.7	39
100	Ratio fluorescent hybrid probe for visualized fluorescence detection of H2O2 in vitro and in vivo. Sensors and Actuators B: Chemical, 2020, 321, 128643.	4.0	39
101	Hierarchical NiO mesocrystals with tuneable high-energy facets for pseudocapacitive charge storage. Journal of Materials Chemistry A, 2017, 5, 6921-6927.	5.2	38
102	Tunable emission from green to red in the GdSr₂AlO₅:Tb³⁺,Eu³⁺phosphorviaefficient energy transfer. RSC Advances, 2018, 8, 3530-3535.	1.7	38
103	Energy Transfer Mediated Enhancement of Roomâ€Temperature Phosphorescence of Carbon Dots Embedded in Matrixes. Advanced Optical Materials, 2022, 10, .	3.6	38
104	High hydrogen storage capacity of rice hull based porous carbon. International Journal of Hydrogen Energy, 2012, 37, 18888-18894.	3.8	37
105	Synthesis and Photoluminescence Properties of CaAlSiN3:Eu2+ Nanocrystals. Chemistry Letters, 2010, 39, 104-105.	0.7	36
106	Synthesis and characterization of Y2O2S:Eu3+, Mg2+, Ti4+ hollow nanospheres via a template-free route. Journal of Alloys and Compounds, 2012, 542, 207-212.	2.8	36
107	Surface functional carbon dots: chemical engineering applications beyond optical properties. Journal of Materials Chemistry C, 2020, 8, 16282-16294.	2.7	36
108	TiO₂/Chlorophyll S-Scheme Composite Photocatalyst with Improved Photocatalytic Bactericidal Performance. ACS Applied Materials & Interfaces, 2021, 13, 39446-39457.	4.0	36

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109	Oxidation-induced quenching mechanism of ultrabright red carbon dots and application in antioxidant RCDs/PVA film. Chemical Engineering Journal, 2021, 425, 131653.	6.6	36
110	Preparation, characterization and oxygen sensing properties of luminescent carbon dots assembled mesoporous silica microspheres. Journal of Colloid and Interface Science, 2016, 478, 256-262.	5.0	35
111	Highly efficient and dual broad emitting light convertor: an option for next-generation plant growth LEDs. Journal of Materials Chemistry C, 2019, 7, 3617-3622.	2.7	35
112	Amplified light harvesting for enhancing Italian lettuce photosynthesis using water soluble silicon quantum dots as artificial antennas. Nanoscale, 2020, 12, 155-166.	2.8	35
113	Calcium-Mobilizing Properties of Salvia miltiorrhiza-Derived Carbon Dots Confer Enhanced Environmental Adaptability in Plants. ACS Nano, 2022, 16, 4357-4370.	7.3	35
114	Synthesis and luminescence properties of SrAl2O4:Eu2+,Dy3+ hollow microspheres via a solvothermal co-precipitation method. Journal of Rare Earths, 2013, 31, 241-246.	2.5	34
115	Multiemissive Room-Temperature Phosphorescent Carbon Dots@ZnAl₂O₄ Composites by Inorganic Defect Triplet-State Energy Transfer. ACS Applied Materials & Interfaces, 2021, 13, 34705-34713.	4.0	34
116	A dual-emitting coreâ€“shell carbon dotâ€“silicaâ€“phosphor composite for white light emission. Nanoscale, 2015, 7, 20142-20148.	2.8	33
117	Luminescent properties and energy transfer of luminescent carbon dots assembled mesoporous Al2O3: Eu3+ co-doped materials for temperature sensing. Journal of Colloid and Interface Science, 2017, 496, 8-15.	5.0	33
118	Facile synthesis of the desired red phosphor Li₂Ca₂Mg₂Si₂N₆:Eu²⁺ for high CRI white LEDs and plant growth LED device. Journal of the American Ceramic Society, 2020, 103, 1773-1781.	1.9	33
119	Construction of NaYF₄:Yb,Er(Tm)@CDs composites for enhancing red and NIR upconversion emission. Journal of Materials Chemistry C, 2019, 7, 6231-6235.	2.7	32
120	Architecting ultra-bright silanized carbon dots by alleviating the spin-orbit coupling effect: a specific fluorescent nanoprobe to label dead cells. Chemical Engineering Journal, 2022, 428, 131168.	6.6	32
121	Structural and luminescence properties of Sr2VO4Cl and Sr5(VO4)3Cl: self-activated luminescence and unusual Eu3+ emission. RSC Advances, 2013, 3, 22206.	1.7	29
122	Energy transfer and tunable emission of Ca14Al10Zn6O35:Bi3+,Sm3+ phosphor. Materials Research Bulletin, 2018, 100, 56-61.	2.7	28
123	Size-controlled synthesis of fluorescent tungsten oxide quantum dots via one-pot ethanol-thermal strategy for ferric ions detection and bioimaging. Sensors and Actuators B: Chemical, 2018, 255, 290-298.	4.0	28
124	Synthesis of modified carbon dots with performance of ultraviolet absorption used in sunscreen. Optics Express, 2019, 27, 7629.	1.7	27
125	Facile Combustion Route for Low-Temperature Preparation of Sr₂SiO₄:Eu²⁺ Phosphor and Its Photoluminescence Properties. Japanese Journal of Applied Physics, 2010, 49, 095001.	0.8	26
126	Preparation and properties of dual-mode luminescent NaYF₄:Yb,Tm@SiO₂/carbon dot nanocomposites. Journal of Materials Chemistry C, 2018, 6, 10360-10366.	2.7	26

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127	Preparation and oxygen sensing properties of a solâ€“gel derived thin film based on a covalently grafted ruthenium(II) complex. Sensors and Actuators B: Chemical, 2007, 123, 508-515.	4.0	25
128	A top-down method to fabricate SrAl2O4:Eu2+,Dy3+ nanosheets from commercial blocky phosphors. Optical Materials, 2014, 36, 1802-1807.	1.7	25
129	Optical Energy Storage Properties of (Ca_{1â^'x}Sr_x)₂Si₅N₈: Eu²⁺, Tm³⁺ Solid Solutions. Journal of the American Ceramic Society, 2015, 98, 1823-1828.	1.9	25
130	Synthesis of double carbon dots co-doped mesoporous Al2O3 for ratiometric fluorescent determination of oxygen. Sensors and Actuators B: Chemical, 2017, 251, 918-926.	4.0	25
131	Synthesis and Optical Property Studies of Nanocrystalline ZrO[sub 2]:Ti Long-Lasting Phosphors. Journal of the Electrochemical Society, 2008, 155, K195.	1.3	24
132	Preparation and luminescence properties of green-light-emitting afterglow phosphor Ca8Mg(SiO4)4Cl2:Eu2+. Solid State Sciences, 2010, 12, 2177-2181.	1.5	24
133	Luminescent carbon dots assembled SBA-15 and its oxygen sensing properties. Sensors and Actuators B: Chemical, 2016, 230, 101-108.	4.0	24
134	A dual-emitting coreâ€“shell carbon dotâ€“silicaâ€“phosphor composite for LED plant grow light. RSC Advances, 2017, 7, 16662-16667.	1.7	24
135	Enhanced luminescence performance of CaO:Ce³⁺,Li⁺,F^{â^'} phosphor and its phosphor-in-glass based high-power warm LED properties. Journal of Materials Chemistry C, 2018, 6, 4077-4086.	2.7	24
136	Improving moisture stability of SrLiAl3N4:Eu2+ through phosphor-in-glass approach to realize its application in plant growing LED device. Journal of Colloid and Interface Science, 2019, 545, 195-199.	5.0	24
137	Enhanced Photogenerated Electron Transfer in a Semiartificial Photosynthesis System Based on Highly Dispersed Titanium Oxide Nanoparticles. Journal of Physical Chemistry Letters, 2020, 11, 1822-1827.	2.1	24
138	Ultraâ€Wide Visâ€“NIR Mg₂Al₄Si₅O₁₈:Eu²⁺,Cr³⁺ Phosphor Containing Unusual NIR Luminescence Induced by Cr³⁺ Occupying Tetrahedral Coordination for Hyperspectral Imaging. Advanced Optical Materials, 2022, 10, .	3.6	24
139	Preparation of Chitosan-Based Activated Carbon and Its Electrochemical Performance for EDLC. Journal of the Electrochemical Society, 2013, 160, H321-H326.	1.3	23
140	Oxygen-sensing materials based on ruthenium(II) complex covalently assembled mesoporous MSU-3 silica. Sensors and Actuators B: Chemical, 2011, 160, 677-683.	4.0	22
141	Rapid combustion method for surface modification of strontium aluminate phosphors with high water resistance. Applied Surface Science, 2012, 258, 6814-6818.	3.1	22
142	Luminescence Properties of Red Long-Lasting Phosphorescence Phosphor AlN:Mn²⁺. ECS Journal of Solid State Science and Technology, 2013, 2, R117-R120.	0.9	22
143	Enhanced performance of Ca2Si5N8:Eu2+, Tm3+ reddish-orange afterglow phosphor by co-doping with Dy3+. Optical Materials, 2014, 36, 1846-1849.	1.7	22
144	Luminescence properties of Eu3+/CDs/PVA composite applied in light conversion film. Optical Materials, 2016, 62, 458-464.	1.7	22

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145	Facile fabrication of a CD/PVA composite polymer to access light-responsive shape-memory effects. Journal of Materials Chemistry C, 2020, 8, 8935-8941.	2.7	22
146	Calcium-chloride-assisted approach towards green and sustainable synthesis of hierarchical porous carbon microspheres for high-performance supercapacitive energy storage. Journal of Colloid and Interface Science, 2021, 582, 159-166.	5.0	22
147	Large-scale synthesis and enhanced hydrogen storage of monodispersed sulfur-doped carbon microspheres by hydro-sulfur-thermal carbonization of starch. Materials Letters, 2013, 109, 279-282.	1.3	21
148	The role of fluorescent carbon dots in crops: Mechanism and applications. SmartMat, 2022, 3, 208-225.	6.4	21
149	Enhancement of luminescence intensity and increase of emission lifetime in Eu3+-doped 3CdOâ€“Al2O3â€“3SiO2 amorphous system. Journal of Luminescence, 2008, 128, 105-109.	1.5	20
150	Preparation of <scp><scp>SrSi</scp></scp>₂<scp><scp>O</scp></scp>₂<scp><scp>N</scp></scp>₂:<scp><s Phosphor by <scp><scp>SrSi</scp></scp> Alloy Precursor and Its Longâ€lasting Phosphorescence Properties. Journal of the American Ceramic Society, 2013, 96, 1810-1814.	1.9	20
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