Xue Bai

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8286727/publications.pdf

Version: 2024-02-01

183	10,220	26630	42399
papers	citations	56 h-index	92 g-index

185	185	185	9128
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Doping Lanthanide into Perovskite Nanocrystals: Highly Improved and Expanded Optical Properties. Nano Letters, 2017, 17, 8005-8011.	9.1	672
2	Zn-Alloyed CsPbI₃ Nanocrystals for Highly Efficient Perovskite Light-Emitting Devices. Nano Letters, 2019, 19, 1552-1559.	9.1	395
3	Cerium and Ytterbium Codoped Halide Perovskite Quantum Dots: A Novel and Efficient Downconverter for Improving the Performance of Silicon Solar Cells. Advanced Materials, 2017, 29, 1704149.	21.0	389
4	Size-Dependent Upconversion Luminescence in Er³⁺/Yb³⁺-Codoped Nanocrystalline Yttria:â€‰ Saturation and Thermal Effects. Journal of Physical Chemistry C, 2007, 111, 13611-13617.	3.1	310
5	A novel mechanism for red emission carbon dots: hydrogen bond dominated molecular states emission. Nanoscale, 2017, 9, 13042-13051.	5.6	251
6	Waterâ€Assisted Size and Shape Control of CsPbBr₃ Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2018, 57, 3337-3342.	13.8	223
7	Spontaneous Silver Doping and Surface Passivation of CsPbI₃ Perovskite Active Layer Enable Light-Emitting Devices with an External Quantum Efficiency of 11.2%. ACS Energy Letters, 2018, 3, 1571-1577.	17.4	205
8	Upconversion luminescence, intensity saturation effect, and thermal effect in Gd2O3:Er3,Yb3+ nanowires. Journal of Chemical Physics, 2005, 123, 174710.	3.0	194
9	Multifunctional NaYF4â€‰:â€‰Yb3+,Er3+@Ag core/shell nanocomposites: integration of upconversion imaging and photothermal therapy. Journal of Materials Chemistry, 2011, 21, 6193.	6.7	173
10	CsPbBr3 perovskite nanoparticles as additive for environmentally stable perovskite solar cells with 20.46% efficiency. Nano Energy, 2019, 59, 517-526.	16.0	165
11	Leadâ€Free Halide Perovskites for Light Emission: Recent Advances and Perspectives. Advanced Science, 2021, 8, 2003334.	11.2	155
12	Efficient and tuneable photoluminescent boehmite hybrid nanoplates lacking metal activator centres for single-phase white LEDs. Nature Communications, 2014, 5, 5702.	12.8	146
13	0D Perovskites: Unique Properties, Synthesis, and Their Applications. Advanced Science, 2021, 8, e2102689.	11.2	142
14	Large Upconversion Enhancement in the â€œIslandsâ€•Auâ€“Ag Alloy/NaYF₄: Yb³⁺, Tm³⁺/Er³⁺ Composite Films, and Fingerprint Identification. Advanced Functional Materials, 2015, 25, 5462-5471.	14.9	135
15	White light emission in Bi³⁺/Mn²⁺ ion co-doped CsPbCl₃ perovskite nanocrystals. Nanoscale, 2018, 10, 1023-1029.	5.6	132
16	Electrospinning preparation and room temperature gas sensing properties of porous In2O3 nanotubes and nanowires. Sensors and Actuators B: Chemical, 2010, 147, 531-538.	7.8	129
17	Samarium-Doped Metal Halide Perovskite Nanocrystals for Single-Component Electroluminescent White Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 2131-2139.	17.4	124
18	Spectrally Tunable Solid State Fluorescence and Roomâ€Temperature Phosphorescence of Carbon Dots Synthesized via Seeded Growth Method. Advanced Optical Materials, 2019, 7, 1801599.	7.3	122

#	Article	IF	Citations
19	Bright Blue Light Emission of Ni²⁺ Ion-Doped CsPbCl_xBr_{3â€“x} Perovskite Quantum Dots Enabling Efficient Light-Emitting Devices. ACS Applied Materials & Interfaces, 2020, 12, 14195-14202.	8.0	118
20	Luminescent Properties of Pure Cubic Phase Y2O3/Eu3+Nanotubes/Nanowires Prepared by a Hydrothermal Method. Journal of Physical Chemistry B, 2005, 109, 15236-15242.	2.6	114
21	Emission Recovery and Stability Enhancement of Inorganic Perovskite Quantum Dots. Journal of Physical Chemistry Letters, 2018, 9, 4166-4173.	4.6	108
22	Electrospinning Preparation and Luminescence Properties of Europium Complex/Polymer Composite Fibers. Journal of Physical Chemistry C, 2008, 112, 9155-9162.	3.1	105
23	Preparation and Bifunctional Gas Sensing Properties of Porous In₂O₃â^'CeO₂ Binary Oxide Nanotubes. Inorganic Chemistry, 2010, 49, 10590-10597.	4.0	100
24	APTES-functionalized thin-walled porous WO₃ nanotubes for highly selective sensing of NO₂ in a polluted environment. Journal of Materials Chemistry A, 2018, 6, 10976-10989.	10.3	100
25	Impact of Host Composition, Codoping, or Tridoping on Quantum-Cutting Emission of Ytterbium in Halide Perovskite Quantum Dots and Solar Cell Applications. Nano Letters, 2019, 19, 6904-6913.	9.1	100
26	Electrospinning Preparation, Structure, and Photoluminescence Properties of YBO₃:Eu³⁺ Nanotubes and Nanowires. Chemistry of Materials, 2008, 20, 4762-4767.	6.7	98
27	Carbon dots with efficient solid-state photoluminescence towards white light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 11416-11420.	5.5	98
28	Thin-layered MoS2 nanoflakes vertically grown on SnO2 nanotubes as highly effective room-temperature NO2 gas sensor. Journal of Hazardous Materials, 2021, 416, 125830.	12.4	97
29	Photoluminescence Properties of ZnWO4:Eu3+Nanocrystals Prepared by a Hydrothermal Method. Journal of Physical Chemistry C, 2007, 111, 7586-7592.	3.1	96
30	Influence of the TGA Modification on Upconversion Luminescence of Hexagonal-Phase NaYF₄:Yb³⁺, Er³⁺ Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 8219-8226.	3.1	96
31	Recent progress and prospect of carbon-free single-site catalysts for the hydrogen and oxygen evolution reactions. Nano Research, 2022, 15, 818-837.	10.4	90
32	Upconversion Properties of Ln³⁺ Doped NaYF₄/Polymer Composite Fibers Prepared by Electrospinning. Journal of Physical Chemistry C, 2008, 112, 1435-1440.	3.1	89
33	Porous In₂O₃:RE (RE = Gd, Tb, Dy, Ho, Er, Tm, Yb) Nanotubes: Electrospinning Preparation and Room Gas-Sensing Properties. Journal of Physical Chemistry C, 2010, 114, 9089-9095.	3.1	89
34	Co₃O₄@PEI/Ti₃C₂T_x MXene nanocomposites for a highly sensitive NO_x gas sensor with a low detection limit. Journal of Materials Chemistry A, 2021, 9, 6335-6344.	10.3	84
35	Preparation and luminescent properties of europium-doped yttria fibers by electrospinning. Journal of Luminescence, 2007, 124, 39-44.	3.1	81
36	Photoluminescence properties of samarium-doped TiO2 semiconductor nanocrystalline powders. Journal of Luminescence, 2007, 127, 371-376.	3.1	81

#	Article	IF	Citations
37	Synergistic Upconversion Enhancement Induced by Multiple Physical Effects and an Angle-Dependent Anticounterfeit Application. Chemistry of Materials, 2017, 29, 6799-6809.	6.7	81
38	Novel Energy-Transfer Route and Enhanced Luminescent Properties in YVO4:Eu3+/YBO3:Eu3+Composite. Chemistry of Materials, 2006, 18, 4526-4532.	6.7	79
39	Controllable Synthesis and Size-Dependent Luminescent Properties of YVO₄:Eu³⁺ Nanospheres and Microspheres. Journal of Physical Chemistry C, 2010, 114, 14018-14024.	3.1	78
40	Impurity Ions Codoped Cesium Lead Halide Perovskite Nanocrystals with Bright White Light Emission toward Ultravioletâ€“White Light-Emitting Diode. ACS Applied Materials & Interfaces, 2018, 10, 39040-39048.	8.0	78
41	Electrospinning Preparation and Photoluminescence Properties of Rare-Earth Complex/Polymer Composite Fibers. Journal of Physical Chemistry C, 2007, 111, 6524-6527.	3.1	77
42	Emitting color tunable carbon dots by adjusting solvent towards light-emitting devices. Nanotechnology, 2018, 29, 085705.	2.6	77
43	Efficient and Stable CsPb(Br/I)₃@Anthracene Composites for White Light-Emitting Devices. ACS Applied Materials & Interfaces, 2018, 10, 16768-16775.	8.0	74
44	Extremely efficient quantum-cutting Cr3+, Ce3+, Yb3+ tridoped perovskite quantum dots for highly enhancing the ultraviolet response of Silicon photodetectors with external quantum efficiency exceeding 70%. Nano Energy, 2020, 78, 105278.	16.0	73
45	Effective blue-violet photoluminescence through lanthanum and fluorine ions co-doping for CsPbCl₃ perovskite quantum dots. Nanoscale, 2019, 11, 2484-2491.	5.6	72
46	Graphene quantum dot-functionalized three-dimensional ordered mesoporous ZnO for acetone detection toward diagnosis of diabetes. Nanoscale, 2019, 11, 11496-11504.	5.6	71
47	Semiconductor plasmon enhanced monolayer upconversion nanoparticles for high performance narrowband near-infrared photodetection. Nano Energy, 2019, 61, 211-220.	16.0	71
48	Understanding the noble metal modifying effect on In₂O₃ nanowires: highly sensitive and selective gas sensors for potential early screening of multiple diseases. Nanoscale Horizons, 2019, 4, 1361-1371.	8.0	69
49	Noninvasive temperature monitoring for dual-modal tumor therapy based on lanthanide-doped up-conversion nanocomposites. Biomaterials, 2019, 201, 42-52.	11.4	67
50	Multicolor fluorescent light-emitting diodes based on cesium lead halide perovskite quantum dots. Applied Physics Letters, 2016, 109, .	3.3	65
51	Novel Strategy for Designing Photochromic Ceramic: Reversible Upconversion Luminescence Modification and Optical Information Storage Application in the PbWO₄:Yb³⁺, Er³⁺ Photochromic Ceramic. ACS Applied Materials & Interfaces, 2020, 12, 21936-21943.	8.0	63
52	Modified photoluminescence properties of rare-earth complex/polymer composite fibers prepared by electrospinning. Applied Physics Letters, 2007, 90, 103103.	3.3	61
53	A novel approach for designing efficient broadband photodetectors expanding from deep ultraviolet to near infrared. Light: Science and Applications, 2022, 11, 91.	16.6	61
54	Structure and Upconversion Luminescence of Hydrothermal PbWO₄:Er³⁺, Yb³⁺Powders. Journal of Physical Chemistry C, 2008, 112, 19694-19698.	3.1	59

#	Article	IF	Citations
55	Ultra-broad plasma resonance enhanced multicolor emissions in an assembled Ag/NaYF4:Yb,Er nano-film. Nanoscale, 2012, 4, 6971.	5.6	59
56	Microstructure and optical properties of Eu3+ activated YV1â^'xPxO4 phosphors. Journal of Applied Physics, 2008, 104, 084910.	2.5	58
57	YVO4:Eu3+,Bi3+ UV to visible conversion nano-films used for organic photovoltaic solar cells. Journal of Materials Chemistry, 2011, 21, 12331.	6.7	57
58	Electrospinning Preparation and Photoluminescence Properties of Lanthanum Phosphate Nanowires and Nanotubes. Journal of Physical Chemistry C, 2009, 113, 9609-9615.	3.1	56
59	Luminescent enhancement in europium-doped yttria nanotubes coated with yttria. Applied Physics Letters, 2006, 88, 143104.	3.3	53
60	Atomic manganese coordinated to nitrogen and sulfur for oxygen evolution. Nano Research, 2022, 15, 6019-6025.	10.4	53
61	Cdâ€Rich Alloyed CsPb_{1â€‹}_xCd_xBr₃ Perovskite Nanorods with Tunable Blue Emission and Fermi Levels Fabricated through Crystal Phase Engineering. Advanced Science, 2020, 7, 2000930.	11.2	52
62	Three-Dimensionally Ordered Macroporous ZrO₂:Eu³⁺: Photonic Band Effect and Local Environments. Journal of Physical Chemistry C, 2009, 113, 5906-5911.	3.1	50
63	Multivalent Sn species synergistically favours the CO2-into-HCOOH conversion. Nano Research, 2021, 14, 1053-1060.	10.4	49
64	Rational fabrication of a g-C3N4/NiO hierarchical nanocomposite with a large surface area for the effective detection of NO2 gas at room temperature. Applied Surface Science, 2021, 550, 149368.	6.1	49
65	One-Step Synthesis and Self-Assembly of Metal Oxide Nanoparticles into 3D Superlattices. ACS Nano, 2012, 6, 4382-4391.	14.6	48
66	Carbon dots with efficient solid-state red-light emission through the step-by-step surface modification towards light-emitting diodes. Dalton Transactions, 2018, 47, 3811-3818.	3.3	48
67	Yb₂O₃/Au Upconversion Nanocomposites with Broad-Band Excitation for Solar Cells. Journal of Physical Chemistry C, 2014, 118, 3258-3265.	3.1	46
68	Highly efficient and stable blue-emitting CsPbBr₃@SiO₂ nanospheres through low temperature synthesis for nanoprinting and WLED. Nanotechnology, 2018, 29, 285706.	2.6	45
69	Modified spontaneous emissions of europium complex in weak PMMA opals. Physical Chemistry Chemical Physics, 2011, 13, 18023.	2.8	44
70	White Light Afterglow in Carbon Dots Achieved via Synergy between the Roomâ€Temperature Phosphorescence and the Delayed Fluorescence. Small, 2022, 18, e2105415.	10.0	44
71	Entirely Reversible Photochromic Glass with High Coloration and Luminescence Contrast for 3D Optical Storage. ACS Energy Letters, 2022, 7, 2060-2069.	17.4	44
72	Concentration-controlled emission in LaF3:Yb3+/Tm3+ nanocrystals: switching from UV to NIR regions. Journal of Materials Chemistry, 2012, 22, 24698.	6.7	43

#	Article	IF	Citations
73	Highly Luminescent YVO₄â^'Eu³⁺ Nanocrystals Coating on Wirelike Y(OH)₃â^'Eu³⁺ and Y₂O₃â^'Eu³⁺ Microcrystals by Chemical Corrosion. Journal of Physical Chemistry C, 2007, 111, 12472-12477.	3.1	42
74	Influence of Concentration Effect and Au Coating on Photoluminescence Properties of YVO₄:Eu³⁺Nanoparticle Colloids. Journal of Physical Chemistry C, 2010, 114, 9975-9980.	3.1	42
75	Oneâ€Step Synthesis and Optical Properties of Benzoateâ€and Biphenolateâ€Capped ZrO₂ Nanoparticles. Advanced Functional Materials, 2012, 22, 4275-4283.	14.9	42
76	High brightness blue light-emitting diodes based on CsPb(Cl/Br)₃ perovskite QDs with phenethylammonium chloride passivation. Nanoscale, 2020, 12, 11728-11734.	5.6	42
77	A multi-platform sensor for selective and sensitive H2S monitoring: Three-dimensional macroporous ZnO encapsulated by MOFs with small Pt nanoparticles. Journal of Hazardous Materials, 2022, 426, 128075.	12.4	41
78	Origin of luminescence enhancement and quenching of europium complex in solution phase containing Ag nanoparticles. Journal of Chemical Physics, 2009, 131, 054506.	3.0	40
79	Upconversion ladder enabled super-sensitive narrowband near-infrared photodetectors based on rare earth doped florine perovskite nanocrystals. Nano Energy, 2020, 76, 105103.	16.0	40
80	Surface defects and their influence on structural and photoluminescence properties of CdWO4:Eu3+ nanocrystals. Journal of Applied Physics, 2007, 102, 054311.	2.5	38
81	The up-conversion luminescent properties and silver-modified luminescent enhancement of YVO4:Yb3+, Er3+ NPs. Dalton Transactions, 2012, 41, 13525.	3.3	38
82	Highly Efficient and Stable Inorganic Perovskite Quantum Dots by Embedding into a Polymer Matrix. ChemNanoMat, 2019, 5, 346-351.	2.8	38
83	Preparation and Upconversion Luminescence of Three-Dimensionally Ordered Macroporous ZrO₂: Er³⁺, Yb³⁺. Inorganic Chemistry, 2008, 47, 9654-9659.	4.0	37
84	Waterâ€Assisted Size and Shape Control of CsPbBr₃ Perovskite Nanocrystals. Angewandte Chemie, 2018, 130, 3395-3400.	2.0	37
85	Polyol-Mediated Synthesis of Hexagonal LaF3 Nanoplates Using NaNO3 as a Mineralizer. Crystal Growth and Design, 2009, 9, 1750-1756.	3.0	36
86	Dual Functions of Crystallization Control and Defect Passivation Enabled by an Ionic Compensation Strategy for Stable and High-Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 3631-3641.	8.0	36
87	Double-layer synergistic optimization by functional black phosphorus quantum dots for high-efficiency and stable planar perovskite solar cells. Nano Energy, 2021, 90, 106610.	16.0	35
88	Tunable silica shell and its modification on photoluminescent properties of Y2O3:Eu3+@SiO2 nanocomposites. Journal of Applied Physics, 2012, 111, .	2.5	34
89	Three-Dimensional Inverse Opal Photonic Crystal Substrates toward Efficient Capture of Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2017, 9, 30510-30518.	8.0	34
90	Rational Control of Size and Photoluminescence of WS₂ Quantum Dots for White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 43824-43830.	8.0	33

#	Article	IF	Citations
91	Bright red YCl3-promoted CsPbI3 perovskite nanorods towards efficient light-emitting diode. Nano Energy, 2021, 81, 105615.	16.0	33
92	Mn2+ ions doped lead-free zero-dimensional K3SbCl6 perovskite nanocrystals towards white light emitting diodes. Chemical Engineering Journal, 2021, 413, 127415.	12.7	33
93	Ionic additive engineering for stable planar perovskite solar cells with efficiency >22%. Chemical Engineering Journal, 2021, 426, 130841.	12.7	33
94	High purity microfluidic sorting and in situ inactivation of circulating tumor cells based on multifunctional magnetic composites. Biomaterials, 2017, 138, 69-79.	11.4	32
95	High-dispersed Fe2O3/Fe nanoparticles residing in 3D honeycomb-like N-doped graphitic carbon as high-performance room-temperature NO2 sensor. Journal of Hazardous Materials, 2021, 405, 124252.	12.4	32
96	Fineâ€Tuned Multilayered Transparent Electrode for Highly Transparent Perovskite Lightâ€Emitting Devices. Advanced Electronic Materials, 2018, 4, 1700285.	5.1	31
97	Modulation of the photoluminescence in carbon dots through surface modification: from mechanism to white light-emitting diodes. Nanotechnology, 2018, 29, 245702.	2.6	30
98	Interface and grain boundary passivation for efficient and stable perovskite solar cells: the effect of terminal groups in hydrophobic fused benzothiadiazole-based organic semiconductors. Nanoscale Horizons, 2020, 5, 1574-1585.	8.0	30
99	Cobalt-doped ZnO nanoparticles derived from zeolite imidazole frameworks: Synthesis, characterization, and application for the detection of an exhaled diabetes biomarker. Journal of Colloid and Interface Science, 2020, 569, 358-365.	9.4	30
100	N-doped three-dimensional needle-like CoS2 bridge connection Co3O4 coreâ€“shell structure as high-efficiency room temperature NO2 gas sensor. Journal of Hazardous Materials, 2022, 423, 127120.	12.4	30
101	Antibacterial PDT nanoplatform capable of releasing therapeutic gas for synergistic and enhanced treatment against deep infections. Theranostics, 2022, 12, 2580-2597.	10.0	30
102	Downconversion from visible to near infrared through multi-wavelength excitation in Er3+/Yb3+ co-doped NaYF4 nanocrystals. Journal of Applied Physics, 2011, 110, .	2.5	29
103	Amphiphilic Silane Modified Multifunctional Nanoparticles for Magnetically Targeted Photodynamic Therapy. ACS Applied Materials & Interfaces, 2017, 9, 11451-11460.	8.0	29
104	Facile synthesis of controllable TiO2 composite nanotubes via templating route: Highly sensitive detection of toluene by double driving from Pt@ZnO NPs. Sensors and Actuators B: Chemical, 2018, 273, 1676-1686.	7.8	29
105	Solvothermal synthesis and luminescence properties of monodisperse Gd2O3:Eu3+ and Gd2O3:Eu3+@SiO2 nanospheres. Journal of Solid State Chemistry, 2010, 183, 2779-2785.	2.9	28
106	Self-powered UV photodetectors based on CsPbCl3 nanowires enabled by the synergistic effect of acetate and lanthanide ion passivation. Chemical Engineering Journal, 2021, 426, 131310.	12.7	28
107	Anti-counterfeiting applications by photochromism induced modulation of reversible upconversion luminescence in TiO₂:Yb³⁺,Er³⁺ ceramic. Journal of Materials Chemistry C, 2022, 10, 6243-6251.	5.5	26
108	Luminescent properties of YBO3:Eu3+ nanosheets and microstructural materials consisting of nanounits. Journal of Luminescence, 2007, 122-123, 882-885.	3.1	25

#	Article	IF	Citations
109	Dual-color emitting Mn²⁺ ion doped (PEA)₂PbBr₄ perovskite towards white light-emitting diodes. Materials Chemistry Frontiers, 2021, 5, 937-943.	5.9	25
110	Pb2+ doped CsCdBr3 perovskite nanorods for pure-blue light-emitting diodes. Chemical Engineering Journal, 2022, 427, 131010.	12.7	25
111	Synthesis of tungsten disulfide quantum dots for high-performance supercapacitor electrodes. Journal of Alloys and Compounds, 2019, 786, 764-769.	5.5	24
112	Metal-organic framework material derived Co3O4 coupled with graphitic carbon nitride as highly sensitive NO2 gas sensor at room temperature. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125972.	4.7	24
113	Solution-Processed Efficient Perovskite Nanocrystal Light-Emitting Device Utilizing Doped Hole Transport Layer. Journal of Physical Chemistry Letters, 2021, 12, 94-100.	4.6	24
114	Bright and Efficient Pure Red Perovskite Nanocrystals Lightâ€Emitting Devices via In Situ Modification. Advanced Functional Materials, 2022, 32, .	14.9	24
115	Remarkable fluorescence enhancement in YVO4:Eu3+@Ag nano-hybrids induced by interface effect. RSC Advances, 2012, 2, 2047.	3.6	23
116	Non-photobleaching YAG:Ce nanoparticles for optical imaging with blue excitation. RSC Advances, 2012, 2, 3897.	3.6	23
117	Three-dimensional graphene oxide foams loaded with AuPd alloy: a sensitive electrochemical sensor for dopamine. Mikrochimica Acta, 2018, 185, 397.	5.0	23
118	Multicolor Lightâ€Emitting Diodes with MoS₂ Quantum Dots. Particle and Particle Systems Characterization, 2019, 36, 1800362.	2.3	23
119	Photoluminescence enhancement of carbon dots induced by hybrids of photonic crystals and goldâ€“silver alloy nanoparticles. Journal of Materials Chemistry C, 2018, 6, 147-152.	5.5	22
120	In situ preparation of two-dimensional ytterbium ions doped all-inorganic perovskite nanosheets for high-performance visual dual-bands photodetectors. Nano Energy, 2022, 93, 106815.	16.0	22
121	Preparation and Luminescent Properties of YVO4:Eu3+ Nanofibers by Electrospinning. Journal of Nanoscience and Nanotechnology, 2008, 8, 1432-1436.	0.9	21
122	Observation of Lamb shift and modified spontaneous emission dynamics in the YBO_3:Eu^3+ inverse opal. Optics Letters, 2010, 35, 2898.	3.3	21
123	Ce6-C6-TPZ co-loaded albumin nanoparticles for synergistic combined PDT-chemotherapy of cancer. Journal of Materials Chemistry B, 2019, 7, 5797-5807.	5.8	21
124	Aluminum-doped lead-free double perovskite Cs2AgBiCl6 nanocrystals with ultrahigh stability towards white light emitting diodes. Materials Research Bulletin, 2022, 147, 111645.	5.2	21
125	Toward Broad Spectral Response Inverted Perovskite Solar Cells: Insulating Quantumâ€Cutting Perovskite Nanophosphors and Multifunctional Ternary Organic Bulkâ€Heterojunction. Advanced Energy Materials, 2022, 12, .	19.5	21
126	Gd2O3:Eu3+@mesoporous SiO2 bifunctional coreâ€“shell composites: Fluorescence label and drug release. Materials Research Bulletin, 2011, 46, 2296-2303.	5.2	20

#	Article	IF	Citations
127	Efficient and Stable Mg²⁺-Doped CsPbCl₃ Nanocrystals for Violet LEDs. Journal of Physical Chemistry Letters, 2021, 12, 8203-8211.	4.6	20
128	Efficient and Stable CF₃PEAI-Passivated CsPbI₃ QDs toward Red LEDs. ACS Applied Materials & Interfaces, 2022, 14, 8235-8242.	8.0	20
129	Mesoporous Mnâ€“Fe oxyhydroxides for oxygen evolution. Inorganic Chemistry Frontiers, 2022, 9, 3559-3565.	6.0	20
130	Diverse scenarios selective perception of H2S via cobalt sensitized MOF filter membrane coated Three-Dimensional metal oxide sensor. Chemical Engineering Journal, 2022, 450, 138014.	12.7	20
131	Green fluorescent organic nanoparticles based on carbon dots and self-polymerized dopamine for cell imaging. RSC Advances, 2017, 7, 28987-28993.	3.6	19
132	Carbon dot/polyvinylpyrrolidone hybrid nanofibers with efficient solid-state photoluminescence constructed using an electrospinning technique. Nanotechnology, 2018, 29, 025706.	2.6	19
133	Enhanced room-temperature NO₂ sensing properties of biomorphic hierarchical mixed phase WO₃. Nanoscale, 2020, 12, 24285-24295.	5.6	19
134	Xâ€ray diffraction of cubic Gd₂O₃/Er under high pressure. Physica Status Solidi (B): Basic Research, 2011, 248, 1123-1127.	1.5	18
135	Pressure-Induced Amorphization in Gd₂O₃/Er³⁺ Nanorods. Journal of Physical Chemistry C, 2013, 117, 8503-8508.	3.1	18
136	Concentration- and temperature-dependent photoluminescence of CsPbBr3 perovskite quantum dots. Optik, 2017, 139, 56-60.	2.9	18
137	Improved Interface Charge Extraction by Double Electron Transport Layers for Highâ€Efficient Planar Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900314.	5.8	18
138	Optimizing the Performance of Perovskite Nanocrystal LEDs Utilizing Cobalt Doping on a ZnO Electron Transport Layer. Journal of Physical Chemistry Letters, 2021, 12, 10112-10119.	4.6	18
139	Large reversible upconversion luminescence modification and 3D optical information storage in femtosecond laser irradiation-subjected photochromic glass. Science China Materials, 2022, 65, 1586-1593.	6.3	17
140	Polyol-mediated syntheses and characterizations of NaYF4, NH4Y3F10 and YF3 nanocrystals/sub-microcrystals. Materials Research Bulletin, 2008, 43, 2130-2136.	5.2	15
141	High efficient light-emitting diodes based on liquid-type carbon dots. RSC Advances, 2016, 6, 96798-96802.	3.6	15
142	Lowâ€Cost Oneâ€Pot Synthesis of WS₂ Quantum Dots with Wide Emission Spectrum for Lightâ€Emitting Applications. ChemPlusChem, 2018, 83, 1052-1056.	2.8	14
143	Luminescence carbon dot-based nanofibers for a water-insoluble drug release system and their monitoring of drug release. Journal of Materials Chemistry B, 2018, 6, 3579-3585.	5.8	14
144	Highly efficient ligand-modified manganese ion doped CsPbCl3 perovskite quantum dots for photon energy conversion in silicon solar cells. Nanoscale, 2020, 12, 18621-18628.	5.6	14

#	Article	IF	Citations
145	Structure and Photoluminescent Properties of Microstructural YBO3 : Eu3+ Nanocrystals. Journal of Nanoscience and Nanotechnology, 2007, 7, 593-601.	0.9	13
146	Ni²⁺ and Pr³⁺ Co-doped CsPbCl₃ perovskite quantum dots with efficient infrared emission at 1300 nm. Nanoscale, 2021, 13, 16598-16607.	5.6	13
147	Vertical profile of aerosol number size distribution during a haze pollution episode in Hefei, China. Science of the Total Environment, 2022, 814, 152693.	8.0	13
148	Zirconia-doped nanoparticles: organic coating, polymeric entrapment and application as dual-imaging agents. Journal of Materials Chemistry B, 2013, 1, 919.	5.8	12
149	A strategy for calibrating the actual quantum efficiency of quantum cutting in YVO4:Bi3+(Nd3+), Yb3+. Journal of Applied Physics, 2013, 113, .	2.5	12
150	Liquid-type AgInS2/ZnS quantum dot-based warm white light-emitting diodes. Chemical Physics Letters, 2016, 661, 228-233.	2.6	12
151	Ceriumâ€Doped Perovskite Nanocrystals for Extremely Highâ€Performance Deepâ€Ultraviolet Photoelectric Detection. Advanced Optical Materials, 2021, 9, 2100423.	7.3	12
152	ZnBr2 mediated transformation from nonluminescent Cs4PbBr6 to green-emitting Zn-doped CsPbBr3/Cs4PbBr6 nanocrystals for electroluminescent light-emitting diodes. Chemical Engineering Journal, 2022, 433, 133556.	12.7	12
153	Improved Upconversion Luminescence Properties of Gd₂O₃:Er³⁺/Gd₂O₃:Yb³⁺ Coreâ€“Shell Nanorods. Journal of Nanoscience and Nanotechnology, 2009, 9, 2677-2681.	0.9	11
154	Emission Quenching and Recovery of Illuminated Perovskite Quantum Dots Due to Iodide Ion Migration. Journal of Physical Chemistry Letters, 2020, 11, 6168-6175.	4.6	11
155	Enhanced oxygen evolution activity on mesoporous cobaltâ€“iron oxides. Chemical Communications, 2021, 57, 11843-11846.	4.1	11
156	Bimetallic Ironâ€“Cobalt Nanoparticles Coated with Amorphous Carbon for Oxygen Evolution. ACS Applied Nano Materials, 2021, 4, 12663-12671.	5.0	11
157	White Luminescence by Up-Conversion from Thin Film Made with Ln3+-Doped NaYF4 Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 1254-1257.	0.9	10
158	Analysis of the upconversion photoluminescence spectra as a probe of local microstructure in Y₂O₃/Eu³⁺nanotubes under high pressure. RSC Advances, 2015, 5, 3130-3134.	3.6	10
159	Post-treatment of CsPbI3 nanocrystals by p-iodo-D-Phenylalanine for efficient perovskite LEDs. Materials Today Physics, 2021, 21, 100555.	6.0	10
160	Efficient Radiative Enhancement in Perovskite Lightâ€Emitting Devices through Involving a Novel Sandwich Localized Surface Plasmon Structure. Small Methods, 2022, 6, e2200163.	8.6	9
161	The luminescence properties of the ZnO@ZnWO4:Eu3+ coreâ€“shell composites. Journal of Luminescence, 2008, 128, 1205-1210.	3.1	8
162	Modified optical properties in a samarium doped titania inverse opal. Optics Letters, 2010, 35, 1449.	3.3	8

#	Article	IF	Citations
163	High fluorescence LaOBr/coumarin organicâ€“inorganic composite nanomaterials for ultra-sensitive Fe³⁺ sensing, fluorescence imaging and water-based ink anti-counterfeiting applications. Journal of Materials Chemistry C, 2020, 8, 13733-13742.	5.5	8
164	Introducing ytterbium acetate to luminescent CsPbCl₃ nanocrystals for enhanced sensitivity of Cu²⁺ detection. Inorganic Chemistry Frontiers, 2021, 9, 44-50.	6.0	8
165	Improved hole injection for CsPbI3 nanocrystals based light-emitting diodes via coevaporation of hole transport layer. Applied Physics Letters, 2022, 120, .	3.3	8
166	Influence of photonic stop band effect on photoluminescence of Y2O3:Eu3+ inverse opal films. Chemical Physics Letters, 2011, 509, 33-36.	2.6	7
167	White light-emitting diodes of high color rendering index with polymer dot phosphors. RSC Advances, 2016, 6, 106225-106229.	3.6	7
168	Synergistic Regulation Effect of Nitrate and Calcium Ions for Highly Luminescent and Robust Î±â€CsPbI₃ Perovskite. Small, 2022, 18, e2106147.	10.0	7
169	Narrowband Near-Infrared Photodetectors Based on Perovskite Waveguide Devices. Journal of Physical Chemistry Letters, 2022, 13, 6057-6063.	4.6	7
170	Synthesis of novel coreâ€“shell structural AuNR@MCM-41 for infrared light-driven release of drug. Journal of Materials Research, 2011, 26, 2414-2419.	2.6	6
171	White Luminescence by Up-Conversion from Thin Film Made with Ln3+-Doped NaYF4 Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 1254-1257.	0.9	6
172	The pressure induced amorphization and behavior of octahedron in Y₂O₃/Eu³⁺nanotubes. Materials Research Express, 2014, 1, 025013.	1.6	5
173	Highly Stable and Efficient Mn²⁺ Doping Zero-Dimension Cs₂Zn_xPb_{1â€“x}Cl₄ Alloyed Nanorods toward White Electroluminescent Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 2379-2387.	4.6	5
174	Perovskite light-emitting diodes for uniform eight-segment displays. Applied Physics Letters, 2019, 115, .	3.3	4
175	Smart quantum dot LEDs with simulated solar spectrum for intelligent lighting. Nanotechnology, 2020, 31, 505207.	2.6	4
176	Reducedâ€Dimensional Engineering toward 2D Râ€P (OAm)₂CsPb₂Br₇ Perovskite by Metal Ion Enabled Ligands Confinement Effect. Advanced Materials Interfaces, 2022, 9, .	3.7	4
177	Silver nanotorus and nanoparticles on silica wafer: optical properties and investigation of PVA in the formation process. Journal of Materials Science: Materials in Electronics, 2011, 22, 64-71.	2.2	3
178	High voltage preparation, characterization, and optical properties of silver dendrites in PVA matrix. Frontiers of Optoelectronics in China, 2010, 3, 205-210.	0.2	2
179	Communication: Excitation band modulation with high-order photonic band gap in PMMA:Eu(TTA)3(TPPO)2 opals. Journal of Chemical Physics, 2013, 138, 181103.	3.0	2
180	Amphiphilic silane modified multifunctional nanoparticles for ratiometric oxygen sensing. RSC Advances, 2017, 7, 34118-34124.	3.6	1

#	Article	IF	Citations
181	Three-order fluorescence enhancement of perovskite nanocrystals using plasmonic Ag@SiO2 nanocomposites. Journal of Materials Chemistry C, 0, , .	5.5	1
182	Promotion of Oxygen Evolution Activity of Co-Based Nanocomposites by Introducing Fe3+ Ions. Topics in Catalysis, 0, , 1.	2.8	1
183	Simulation of Wyner-Ziv Video Coding Algorithm Based on Transform Domain. , 2008, , .		0