Jialong Zhao

List of Publications by Year
in descending order

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102	4,981	94433 37	95266 68
papers	citations	h-index	g-index

104	104	104	5435
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced photoluminescence efficiencies of CsPbCl3-xBrx nanocrystals by incorporating neodymium ions. Journal of Luminescence, 2022, 243, 118658.	3.1	7
2	Stoichiometryâ€Controlled Phase Engineering of Cesium Bismuth Halides and Reversible Structure Switch. Advanced Optical Materials, 2022, 10, .	7.3	27
3	Component Engineering to Tailor the Structure and Optical Properties of Sb-Doped Indium-Based Halides. Inorganic Chemistry, 2022, 61, 1486-1494.	4.0	35
4	Near-unity photoluminescence quantum yield Mn-doped two-dimensional halide perovskite platelets via hydrobromic acid-assisted synthesis. Journal of Luminescence, 2022, 245, 118790.	3.1	6
5	A-Site FA⁺ Doping-Enhanced Photoluminescence Efficiency and Photostability of Mn-Doped Perovskite Nanocrystals. Journal of Physical Chemistry C, 2022, 126, 3582-3590.	3.1	6
6	Electronic and Excitonic Processes in Quantum Dot Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 2878-2884.	4.6	21
7	Boosted luminescence efficiency and stability of Mn-doped perovskite nanoplatelets via incorporating Cd2+ ions. Materials Research Bulletin, 2022, 151, 111825.	5.2	4
8	Phase-Selective Solution Synthesis of Cd-Based Perovskite Derivatives and Their Structure/Emission Modulation. Journal of Physical Chemistry Letters, 2022, 13, 3682-3690.	4.6	23
9	Cu substitution boosts self-trapped exciton emission in zinc-based metal halides for sky-blue light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 9530-9537.	5.5	8
10	Highly efficient green InP-based quantum dot light-emitting diodes regulated by inner alloyed shell component. Light: Science and Applications, 2022, 11, .	16.6	55
11	Tunable Green Light-Emitting CsPbBr₃ Based Perovskite-Nanocrystals-in-Glass Flexible Film Enables Production of Stable Backlight Display. Journal of Physical Chemistry Letters, 2022, 13, 4701-4709.	4.6	13
12	On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, .	10.7	8
13	Aluminum chloride assisted synthesis of near-unity emitting Mn²⁺-doped CsPbCl₃ perovskite nanocrystals for bright white light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 9849-9857.	5.5	7
14	Efficient Self-Trapped Exciton Emission in Ruddlesdenâ€“Popper Sb-Doped Cs₃Cd₂Cl₇ Perovskites. Journal of Physical Chemistry C, 2022, 126, 11238-11245.	3.1	21
15	Enhancing Mn Emission of CsPbCl3 Perovskite Nanocrystals via Incorporation of Rubidium Ions. Materials Research Bulletin, 2021, 133, 111080.	5.2	20
16	Boosting triplet self-trapped exciton emission in Te(IV)-doped Cs2SnCl6 perovskite variants. Nano Research, 2021, 14, 1551-1558.	10.4	127
17	Surface organic ligand-passivated quantum dots: toward high-performance light-emitting diodes with long lifetimes. Journal of Materials Chemistry C, 2021, 9, 2483-2490.	5.5	18
18	Efficient Energy Transfer in Te⁴⁺-Doped Cs₂ZrCl₆ Vacancy-Ordered Perovskites and Ultrahigh Moisture Stability via A-Site Rb-Alloying Strategy. Journal of Physical Chemistry Letters, 2021, 12, 1829-1837.	4.6	127

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19	Inorganic Solid Phosphorus Precursor of Sodium Phosphaethynolate for Synthesis of Highly Luminescent InP-Based Quantum Dots. ACS Energy Letters, 2021, 6, 2697-2703.	17.4	35
20	Self-Trapped Exciton Emission in a Zero-Dimensional (TMA)₂SbCl₅Â·DMF Single Crystal and Molecular Dynamics Simulation of Structural Stability. Journal of Physical Chemistry Letters, 2021, 12, 7091-7099.	4.6	86
21	Advances and Challenges in Two-Dimensional Organicâ€“Inorganic Hybrid Perovskites Toward High-Performance Light-Emitting Diodes. Nano-Micro Letters, 2021, 13, 163.	27.0	54
22	Near-unity blue-orange dual-emitting Mn-doped perovskite nanocrystals with metal alloying for efficient white light-emitting diodes. Journal of Colloid and Interface Science, 2021, 603, 864-873.	9.4	17
23	Thermal and photo stability of all inorganic lead halide perovskite nanocrystals. Physical Chemistry Chemical Physics, 2021, 23, 17113-17128.	2.8	25
24	Mg²⁺-Assisted Passivation of Defects in CsPbI₃ Perovskite Nanocrystals for High-Efficiency Photoluminescence. Journal of Physical Chemistry Letters, 2021, 12, 11090-11097.	4.6	12
25	Enhancing luminescence of intrinsic and Mn doped CsPbCl3 perovskite nanocrystals through Co2+ doping. Materials Research Bulletin, 2020, 121, 110608.	5.2	32
26	Degradation of quantum dot light emitting diodes, the case under a low driving level. Journal of Materials Chemistry C, 2020, 8, 2014-2018.	5.5	31
27	Pressure-Engineered Optical and Charge Transport Properties of Mn²⁺/Cu²⁺ Codoped CsPbCl₃ Perovskite Nanocrystals via Structural Progression. ACS Applied Materials & Interfaces, 2020, 12, 48225-48236.	8.0	22
28	Large-Area Tunable Red/Green/Blue Tri-Stacked Quantum Dot Light-Emitting Diode Using Sandwich-Structured Transparent Silver Nanowires Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 48820-48827.	8.0	9
29	Cu doping-enhanced emission efficiency of Mn2+ in cesium lead halide perovskite nanocrystals for efficient white light-emitting diodes. Journal of Luminescence, 2020, 227, 117586.	3.1	30
30	Correction to â€œMg Doped-ZnO Nanoparticle Film as the Interlayer between ZnO Electron Transport Layer and InP Quantum-Dot Layer for Light-Emitting Diodesâ€• Journal of Physical Chemistry C, 2020, 124, 11274-11274.	3.1	1
31	Highly Stable Red Quantum Dot Light-Emitting Diodes with Long T₉₅ Operation Lifetimes. Journal of Physical Chemistry Letters, 2020, 11, 3111-3115.	4.6	76
32	Mg-Doped ZnO Nanoparticle Films as the Interlayer between the ZnO Electron Transport Layer and InP Quantum Dot Layer for Light-Emitting Diodes. Journal of Physical Chemistry C, 2020, 124, 8758-8765.	3.1	30
33	Efficient full-color emitting carbon-dot-based composite phosphors by chemical dispersion. Nanoscale, 2020, 12, 15823-15831.	5.6	39
34	Synthesis and optical properties of Mn2+-doped Cdâ€“Inâ€“S colloidal nanocrystals. Journal of Materials Science, 2020, 55, 12801-12810.	3.7	7
35	Near-Unity Red Mn²⁺ Photoluminescence Quantum Yield of Doped CsPbCl₃ Nanocrystals with Cd Incorporation. Journal of Physical Chemistry Letters, 2020, 11, 2142-2149.	4.6	77
36	Red, Green, and Blue Microcavity Quantum Dot Light-Emitting Devices with Narrow Line Widths. ACS Applied Nano Materials, 2020, 3, 5301-5310.	5.0	18

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37	Improved Doping and Emission Efficiencies of Mn-Doped CsPbCl₃ Perovskite Nanocrystals via Nickel Chloride. Journal of Physical Chemistry Letters, 2019, 10, 4177-4184.	4.6	79
38	Ultraviolet Light-Induced Degradation of Luminescence in Mn-Doped CsPbCl₃ Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 14849-14857.	3.1	28
39	Tunable photoluminescence and an enhanced photoelectric response of Mn²⁺-doped CsPbCl₃ perovskite nanocrystals via pressure-induced structure evolution. Nanoscale, 2019, 11, 11660-11670.	5.6	15
40	Room temperature synthesis of Mn-doped Cs₃Pb_{6.48}Cl₁₆ perovskite nanocrystals with pure dopant emission and temperature-dependent photoluminescence. CrystEngComm, 2019, 21, 3568-3575.	2.6	8
41	Mn-doped Cu-Zn-In-S/ZnS nanocrystals: optical properties and their use as time-gated fluorescence probes. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	5
42	Improved ultraviolet radiation stability of Mn²⁺-doped CsPbCl₃ nanocrystals via B-site Sn doping. CrystEngComm, 2019, 21, 6238-6245.	2.6	24
43	2D Nitrogenâ€Containing Carbon Material C₅N as Potential Host Material for Lithium Polysulfides: A Firstâ€Principles Study. Advanced Theory and Simulations, 2019, 2, 1800165.	2.8	16
44	Toward Highly Luminescent and Stabilized Silica-Coated Perovskite Quantum Dots through Simply Mixing and Stirring under Room Temperature in Air. ACS Applied Materials & Interfaces, 2018, 10, 13053-13061.	8.0	115
45	WO₃â€Based Electrochromic Distributed Bragg Reflector: Toward Electrically Tunable Microcavity Luminescent Device. Advanced Optical Materials, 2018, 6, 1700791.	7.3	45
46	Câ€“O bond activation and splitting behaviours of CO₂ on a 4H-SiC surface: a DFT study. Physical Chemistry Chemical Physics, 2018, 20, 26846-26852.	2.8	6
47	Photoluminescence Lifetimes and Thermal Degradation of Mn²⁺-Doped CsPbCl₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 23217-23223.	3.1	28
48	Enhanced luminescence and energy transfer in Mn²⁺ doped CsPbCl_{3â^'x}Br_x perovskite nanocrystals. Nanoscale, 2018, 10, 19435-19442.	5.6	53
49	Thermally stable luminescence of Mn2+ in Mn doped CsPbCl3 nanocrystals embedded in polydimethylsiloxane films. Journal of Luminescence, 2018, 202, 157-162.	3.1	14
50	Temperature-dependent photoluminescence of Mn doped CsPbCl3 perovskite nanocrystals in mesoporous silica. Journal of Luminescence, 2018, 204, 10-15.	3.1	22
51	Mn doped AZIS/ZnS nanocrystals (NCs): Effects of Ag and Mn levels on NC optical properties. Journal of Alloys and Compounds, 2018, 765, 236-244.	5.5	18
52	High-efficiency inverted quantum dot light-emitting diodes with enhanced hole injection. Nanoscale, 2017, 9, 6748-6754.	5.6	35
53	Enhancing the Performance of Quantum Dot Light-Emitting Diodes Using Room-Temperature-Processed Ga-Doped ZnO Nanoparticles as the Electron Transport Layer. ACS Applied Materials & Interfaces, 2017, 9, 15605-15614.	8.0	113
54	Thermal degradation of luminescence in inorganic perovskite CsPbBr₃nanocrystals. Physical Chemistry Chemical Physics, 2017, 19, 8934-8940.	2.8	147

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55	Blue Quantum Dot Light-Emitting Diodes with High Electroluminescent Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 38755-38760.	8.0	204
56	Photoluminescence Temperature Dependence, Dynamics, and Quantum Efficiencies in Mn²⁺-Doped CsPbCl₃ Perovskite Nanocrystals with Varied Dopant Concentration. Chemistry of Materials, 2017, 29, 8003-8011.	6.7	274
57	Mn doped AIZS/ZnS nanocrystals: Synthesis and optical properties. Journal of Alloys and Compounds, 2017, 725, 1077-1083.	5.5	16
58	High performance, top-emitting, quantum dot light-emitting diodes with all solution-processed functional layers. Journal of Materials Chemistry C, 2017, 5, 9138-9145.	5.5	18
59	MÃ¶ssbauer study on the magnetic properties and cation distribution of CoFe2O4 nanoparticles synthesized by hydrothermal method. Journal of Materials Science, 2016, 51, 5487-5492.	3.7	31
60	Thermal stability of photoluminescence in Cu-doped Znâ€“Inâ€“S quantum dots for light-emitting diodes. Physical Chemistry Chemical Physics, 2016, 18, 10976-10982.	2.8	17
61	Photoluminescence properties of transition metal-doped Znâ€“Inâ€“S/ZnS core/shell quantum dots in solid films. RSC Advances, 2016, 6, 44859-44864.	3.6	15
62	Temperature-dependent photoluminescence of inorganic perovskite nanocrystal films. RSC Advances, 2016, 6, 78311-78316.	3.6	182
63	Robust and Stable Ratiometric Temperature Sensor Based on Znâ€“Inâ€“S Quantum Dots with Intrinsic Dualâ€Dopant Ion Emissions. Advanced Functional Materials, 2016, 26, 7224-7233.	14.9	53
64	Efficient and Stable Red Emissive Carbon Nanoparticles with a Hollow Sphere Structure for White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 31863-31870.	8.0	32
65	Color-tunable photoluminescence of Cu-doped Znâ€“Inâ€“Se quantum dots and their electroluminescence properties. Journal of Materials Chemistry C, 2016, 4, 581-588.	5.5	48
66	Heat-up synthesis of Agâ€“Inâ€“S and Agâ€“Inâ€“S/ZnS nanocrystals: Effect of indium precursors on their optical properties. Journal of Alloys and Compounds, 2016, 665, 137-143.	5.5	20
67	Photoluminescence quenching and electron transfer in CuInS₂/ZnS core/shell quantum dot and FePt nanoparticle blend films. RSC Advances, 2015, 5, 30981-30988.	3.6	9
68	Mn²⁺-doped Znâ€“Inâ€“S quantum dots with tunable bandgaps and high photoluminescence properties. Journal of Materials Chemistry C, 2015, 3, 8844-8851.	5.5	43
69	Highly Efficient and Low Turn-On Voltage Quantum Dot Light-Emitting Diodes by Using a Stepwise Hole-Transport Layer. ACS Applied Materials & Interfaces, 2015, 7, 15955-15960.	8.0	76
70	Ultrafast Carrier Dynamics and Hot Electron Extraction in Tetrapod-Shaped CdSe Nanocrystals. ACS Applied Materials & Interfaces, 2015, 7, 7938-7944.	8.0	14
71	Effects of Magnetic Annealing on Structure and Magnetic Properties of L10-FePt/Ag Films. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2491-2494.	1.8	1
72	Dual Emissive Manganese and Copper Co-Doped Znâ€“Inâ€“S Quantum Dots as a Single Color-Converter for High Color Rendering White-Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 8659-8666.	8.0	86

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73	The work mechanism and sub-bandgap-voltage electroluminescence in inverted quantum dot light-emitting diodes. Scientific Reports, 2014, 4, 6974.	3.3	73
74	Thermal stability of Mn²⁺ion luminescence in Mn-doped coreâ€“shell quantum dots. Nanoscale, 2014, 6, 300-307.	5.6	105
75	Towards efficient solid-state photoluminescence based on carbon-nanodots and starch composites. Nanoscale, 2014, 6, 13076-13081.	5.6	193
76	Ultrafast carrier dynamics in CuInS2 quantum dots. Applied Physics Letters, 2014, 104, .	3.3	38
77	Photoinduced Charge Separation and Recombination Processes in CdSe Quantum Dot and Graphene Oxide Composites with Methylene Blue as Linker. Journal of Physical Chemistry Letters, 2013, 4, 2919-2925.	4.6	13
78	Enhancement of electron transfer from CdSe core/shell quantum dots to TiO2 films by thermal annealing. Journal of Luminescence, 2013, 142, 196-201.	3.1	15
79	High color purity ZnSe/ZnS core/shell quantum dot based blue light emitting diodes with an inverted device structure. Applied Physics Letters, 2013, 103, .	3.3	86
80	Shell-thickness-dependent photoinduced electron transfer from CuInS2/ZnS quantum dots to TiO2 films. Applied Physics Letters, 2013, 102, .	3.3	50
81	Efficient, air-stable quantum dots light-emitting devices with MoO3 modifying the anode. Journal of Luminescence, 2013, 143, 442-446.	3.1	8
82	Improving the efficiency and reducing efficiency roll-off in quantum dot light emitting devices by utilizing plasmonic Au nanoparticles. Journal of Materials Chemistry C, 2013, 1, 470-476.	5.5	33
83	Highly efficient and well-resolved Mn2+ ion emission in MnS/ZnS/CdS quantum dots. Journal of Materials Chemistry C, 2013, 1, 2540.	5.5	50
84	Inverted CdSe/CdS/ZnS quantum dot light emitting devices with titanium dioxide as an electron-injection contact. Nanoscale, 2013, 5, 3474.	5.6	47
85	Phase control of hierarchically structured mesoporous anatase TiO2 microspheres covered with {001} facets. Journal of Materials Chemistry, 2012, 22, 21965.	6.7	66
86	Efficient energy transfer from hole transporting materials to CdSe-core CdS/ZnCdS/ZnS-multishell quantum dots in type II aligned blend films. Applied Physics Letters, 2011, 99, 093106.	3.3	19
87	Shell-dependent electroluminescence from colloidal CdSe quantum dots in multilayer light-emitting diodes. Journal of Applied Physics, 2009, 105, .	2.5	39
88	Photoluminescence Quenching of CdSe Core/Shell Quantum Dots by Hole Transporting Materials. Journal of Physical Chemistry C, 2009, 113, 1886-1890.	3.1	43
89	Temperature-Dependent Photoluminescence of CdSe-Core CdS/CdZnS/ZnS-Multishell Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 13545-13550.	3.1	218
90	Efficient Photoluminescence of Mn²⁺ Ions in MnS/ZnS Core/Shell Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 16969-16974.	3.1	103

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91	A bright outlook for quantum dots. Nature Photonics, 2007, 1, 683-684.	31.4	14
92	Efficient CdSe/CdS Quantum Dot Light-Emitting Diodes Using a Thermally Polymerized Hole Transport Layer. Nano Letters, 2006, 6, 463-467.	9.1	502
93	Magnetic circular dichroism of ferromagnetic Co2+-doped ZnO. Applied Physics Letters, 2006, 89, 062510.	3.3	45
94	Confined Acoustic Vibration Modes in CuBr Quantum Dots. Journal of the Physical Society of Japan, 2005, 74, 3082-3087.	1.6	2
95	Electroluminescence from isolated CdSeâˆ•ZnS quantum dots in multilayered light-emitting diodes. Journal of Applied Physics, 2004, 96, 3206-3210.	2.5	144
96	Universal Dephasing Mechanism in Semiconductor Quantum Dots Embedded in a Matrix. Journal of the Physical Society of Japan, 2003, 72, 249-252.	1.6	4
97	Exciton-phonon coupled states in CuCl quantum cubes. Physical Review B, 2000, 63, .	3.2	9
98	Photoluminescence of CdS semiconductor nanocrystals in sodium borosilicate glasses. Journal of Materials Science Letters, 1996, 15, 702-705.	0.5	4
99	Studies on deep levels in GaAs epilayers grown on Si by metal-organic chemical vapour deposition. Journal of Materials Science Letters, 1996, 15, 189-191.	0.5	0
100	Studies on 0.96 and 0.84 eV photoluminescence emissions in GaAs epilayers grown on Si. Journal of Applied Physics, 1996, 79, 7173-7176.	2.5	9
101	Temperature dependence of deep-level photoluminescence in Ga0.5In0.5P epilayers grown by metal-organic chemical vapour deposition. Journal of Materials Science Letters, 1993, 12, 53-55.	0.5	1
102	Optical Nonlinearities Of The Metal-oxide Semiconductor Particles. , 1990, , .		0