Hai-Zheng Zhong

List of Publications by Year
in descending order

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		31976	22832
162	13,293	53	112
papers	citations	h-index	g-index

165	165	165	11831
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brightly Luminescent and Color-Tunable Colloidal CH₃NH₃PbX₃ (X = Br, I, Cl) Quantum Dots: Potential Alternatives for Display Technology. ACS Nano, 2015, 9, 4533-4542.	14.6	2,001
2	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
3	In Situ Fabrication of Halide Perovskite Nanocrystalâ€Embedded Polymer Composite Films with Enhanced Photoluminescence for Display Backlights. Advanced Materials, 2016, 28, 9163-9168.	21.0	635
4	53% Efficient Red Emissive Carbon Quantum Dots for High Color Rendering and Stable Warm Whiteâ€Lightâ€Emitting Diodes. Advanced Materials, 2017, 29, 1702910.	21.0	563
5	Controlled Synthesis and Optical Properties of Colloidal Ternary Chalcogenide CuInS₂ Nanocrystals. Chemistry of Materials, 2008, 20, 6434-6443.	6.7	519
6	Water resistant CsPbX₃ nanocrystals coated with polyhedral oligomeric silsesquioxane and their use as solid state luminophores in all-perovskite white light-emitting devices. Chemical Science, 2016, 7, 5699-5703.	7.4	499
7	Highly Emissive and Colorâ€Tunable CuInS₂â€Based Colloidal Semiconductor Nanocrystals: Offâ€Stoichiometry Effects and Improved Electroluminescence Performance. Advanced Functional Materials, 2012, 22, 2081-2088.	14.9	449
8	Emulsion Synthesis of Size-Tunable CH₃NH₃PbBr₃ Quantum Dots: An Alternative Route toward Efficient Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 28128-28133.	8.0	429
9	Tuning the Luminescence Properties of Colloidal Iâ€“IIIâ€“VI Semiconductor Nanocrystals for Optoelectronics and Biotechnology Applications. Journal of Physical Chemistry Letters, 2012, 3, 3167-3175.	4.6	402
10	Noninjection Gram-Scale Synthesis of Monodisperse Pyramidal CuInS₂ Nanocrystals and Their Size-Dependent Properties. ACS Nano, 2010, 4, 5253-5262.	14.6	386
11	Centimeterâ€Sized Cs₄PbBr₆ Crystals with Embedded CsPbBr₃ Nanocrystals Showing Superior Photoluminescence: Nonstoichiometry Induced Transformation and Lightâ€Emitting Applications. Advanced Functional Materials, 2018, 28, 1706567.	14.9	251
12	Efficient Light-Emitting Diodes Based on in Situ Fabricated FAPbBr₃ Nanocrystals: The Enhancing Role of the Ligand-Assisted Reprecipitation Process. ACS Nano, 2018, 12, 8808-8816.	14.6	237
13	Grainâ€Boundary â€œPatchesâ€• by In Situ Conversion to Enhance Perovskite Solar Cells Stability. Advanced Materials, 2018, 30, e1800544.	21.0	224
14	Polar Solvent Induced Lattice Distortion of Cubic CsPbI₃ Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. Journal of the American Chemical Society, 2018, 140, 11705-11715.	13.7	223
15	Colloidal Synthesis of Air-Stable CH₃NH₃PbI₃ Quantum Dots by Gaining Chemical Insight into the Solvent Effects. Chemistry of Materials, 2017, 29, 3793-3799.	6.7	199
16	Colloidal CuInSe₂ Nanocrystals in the Quantum Confinement Regime: Synthesis, Optical Properties, and Electroluminescence. Journal of Physical Chemistry C, 2011, 115, 12396-12402.	3.1	176
17	In Situ Fabricated Perovskite Nanocrystals: A Revolution in Optical Materials. Advanced Optical Materials, 2018, 6, 1800380.	7.3	176
18	Hydroxyl-Terminated CuInS₂ Based Quantum Dots: Toward Efficient and Bright Light Emitting Diodes. Chemistry of Materials, 2016, 28, 1085-1091.	6.7	155

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19	In Situ Inkjet Printing Strategy for Fabricating Perovskite Quantum Dot Patterns. Advanced Functional Materials, 2019, 29, 1903648.	14.9	154
20	Dimension control of in situ fabricated CsPbClBr2 nanocrystal films toward efficient blue light-emitting diodes. Nature Communications, 2020, 11, 6428.	12.8	147
21	Thermally activated delayed fluorescence (TADF) organic molecules for efficient X-ray scintillation and imaging. Nature Materials, 2022, 21, 210-216.	27.5	146
22	Integration of CuInS2-based nanocrystals for high efficiency and high colour rendering white light-emitting diodes. Nanoscale, 2013, 5, 3514.	5.6	145
23	From Large-Scale Synthesis to Lighting Device Applications of Ternary Iâ€“IIIâ€“VI Semiconductor Nanocrystals: Inspiring Greener Material Emitters. Journal of Physical Chemistry Letters, 2018, 9, 435-445.	4.6	136
24	Controllable Transformation from Rhombohedral Cu_{1.8}S Nanocrystals to Hexagonal CuS Clusters: Phase- and Composition-Dependent Plasmonic Properties. Chemistry of Materials, 2013, 25, 4828-4834.	6.7	135
25	Template Synthesis of CuInS₂ Nanocrystals from In₂S₃ Nanoplates and Their Application as Counter Electrodes in Dye-Sensitized Solar Cells. Chemistry of Materials, 2015, 27, 5949-5956.	6.7	132
26	Binaphthylâ€Containing Greenâ€and Redâ€Emitting Molecules for Solutionâ€Processable Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2008, 18, 3299-3306.	14.9	108
27	Nonlinear Optical Properties of Colloidal CH₃NH₃PbBr₃ and CsPbBr₃ Quantum Dots: A Comparison Study Using Zâ€Scan Technique. Advanced Optical Materials, 2016, 4, 1732-1737.	7.3	108
28	Topâ€Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie - International Edition, 2017, 56, 9571-9576.	13.8	98
29	Poly(vinylpyrrolidone) supported copper nanoclusters: glutathione enhanced blue photoluminescence for application in phosphor converted light emitting devices. Nanoscale, 2016, 8, 7197-7202.	5.6	97
30	Colloidal Synthesis of CH₃NH₃PbBr₃ Nanoplatelets with Polarized Emission through Selfâ€Organization. Angewandte Chemie - International Edition, 2017, 56, 1780-1783.	13.8	92
31	Pyridine-Modulated Mn Ion Emission Properties of C₁₀H₁₂N₂MnBr₄ and C₅H₆NMnBr₃ Single Crystals. Journal of Physical Chemistry C, 2018, 122, 3130-3137.	3.1	88
32	Aggregationâ€Induced Emission Features of Organometal Halide Perovskites and Their Fluorescence Probe Applications. Advanced Optical Materials, 2015, 3, 112-119.	7.3	87
33	Reprecipitation synthesis of luminescent CH₃NH₃PbBr₃/NaNO₃ nanocomposites with enhanced stability. Journal of Materials Chemistry C, 2016, 4, 11387-11391.	5.5	85
34	Aqueous Synthesis of Methylammonium Lead Halide Perovskite Nanocrystals. Angewandte Chemie - International Edition, 2018, 57, 9650-9654.	13.8	85
35	Oneâ€Step Polymeric Melt Encapsulation Method to Prepare CsPbBr₃ Perovskite Quantum Dots/Polymethyl Methacrylate Composite with High Performance. Advanced Functional Materials, 2021, 31, 2010009.	14.9	85
36	Ultralow-Threshold and Color-Tunable Continuous-Wave Lasing at Room-Temperature from In Situ Fabricated Perovskite Quantum Dots. Journal of Physical Chemistry Letters, 2019, 10, 3248-3253.	4.6	83

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37	Broadband perovskite quantum dot spectrometer beyond human visual resolution. Light: Science and Applications, 2020, 9, 73.	16.6	83
38	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. Nano Energy, 2020, 67, 104189.	16.0	81
39	Shape Tuning of Type II CdTe-CdSe Colloidal Nanocrystal Heterostructures through Seeded Growth. Journal of the American Chemical Society, 2009, 131, 9170-9171.	13.7	79
40	Stretchable Organometalâ€Halideâ€Perovskite Quantumâ€Dot Lightâ€Emitting Diodes. Advanced Materials, 2019, 31, e1807516.	21.0	79
41	Template-Free Synthesis of High-Yield Fe-Doped Cesium Lead Halide Perovskite Ultralong Microwires with Enhanced Two-Photon Absorption. Journal of Physical Chemistry Letters, 2018, 9, 4878-4885.	4.6	73
42	Highly Stable and Spectrally Tunable Gamma Phase Rb_xCs_{1â€“}_xPbI₃ Gradientâ€Alloyed Quantum Dots in PMMA Matrix through A Sites Engineering. Advanced Functional Materials, 2021, 31, 2008211.	14.9	73
43	What Happens When Halide Perovskites Meet with Water?. Journal of Physical Chemistry Letters, 2022, 13, 2281-2290.	4.6	70
44	Organometal halide perovskite quantum dots: synthesis, optical properties, and display applications. Chinese Chemical Letters, 2016, 27, 1124-1130.	9.0	65
45	Tumorâ€Targeted Multimodal Optical Imaging with Versatile Cadmiumâ€Free Quantum Dots. Advanced Functional Materials, 2016, 26, 267-276.	14.9	65
46	Solution-processed inorganic perovskite crystals as achromatic quarter-wave plates. Nature Photonics, 2021, 15, 813-816.	31.4	64
47	Design and Fabrication of Rocketlike Tetrapodal CdS Nanorods by Seed-Epitaxial Metalâ^'Organic Chemical Vapor Deposition. Crystal Growth and Design, 2007, 7, 488-491.	3.0	63
48	Strong Polarized Photoluminescence from Stretched Perovskiteâ€Nanocrystalâ€Embedded Polymer Composite Films. Advanced Optical Materials, 2017, 5, 1700594.	7.3	63
49	Halide perovskite quantum dots: potential candidates for display technology. Science Bulletin, 2015, 60, 1622-1624.	9.0	60
50	Perovskite Quantum Dots Embedded Composite Films Enhancing UV Response of Silicon Photodetectors for Broadband and Solarâ€Blind Light Detection. Advanced Optical Materials, 2018, 6, 1800077.	7.3	60
51	In Situ Patterning Perovskite Quantum Dots by Direct Laser Writing Fabrication. ACS Photonics, 2021, 8, 765-770.	6.6	58
52	Ligandâ€Controlled Formation and Photoluminescence Properties of CH₃NH₃PbBr₃ Nanocubes and Nanowires. ChemNanoMat, 2017, 3, 303-310.	2.8	57
53	Red emissive CuInS_2-based nanocrystals: a potential phosphor for warm white light-emitting diodes. Optics Express, 2013, 21, 10105.	3.4	55
54	Elucidating the phase transitions and temperature-dependent photoluminescence of MAPbBr₃ single crystal. Journal Physics D: Applied Physics, 2018, 51, 045105.	2.8	54

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55	In-situ fabricated anisotropic halide perovskite nanocrystals in polyvinylalcohol nanofibers: Shape tuning and polarized emission. Nano Research, 2019, 12, 1411-1416.	10.4	54
56	Ray-trace simulation of CuInS(Se)_2 quantum dot based luminescent solar concentrators. Optics Express, 2015, 23, A858.	3.4	48
57	Size-Dependent Phase Transition in Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 5451-5457.	4.6	48
58	Stretchable and Thermally Stable Dual Emission Composite Films of On-Purpose Aggregated Copper Nanoclusters in Carboxylated Polyurethane for Remote White Light-Emitting Devices. ACS Applied Materials & Interfaces, 2016, 8, 33993-33998.	8.0	47
59	Mesoporous Aluminum Hydroxide Synthesized by a Singleâ€Source Precursorâ€Decomposition Approach as a Highâ€Quantumâ€Yield Blue Phosphor for UVâ€Pumped Whiteâ€Lightâ€Emitting Diodes. Advanced Materials, 2017, 29, 1604284.	21.0	47
60	Colloidal quantum dot hybrids: an emerging class of materials for ambient lighting. Journal of Materials Chemistry C, 2020, 8, 10676-10695.	5.5	46
61	A detour strategy for colloidally stable block-copolymer grafted MAPbBr₃ quantum dots in water with long photoluminescence lifetime. Nanoscale, 2018, 10, 5820-5826.	5.6	45
62	Photodegradation of Organometal Hybrid Perovskite Nanocrystals: Clarifying the Role of Oxygen by Single-Dot Photoluminescence. Journal of Physical Chemistry Letters, 2019, 10, 864-869.	4.6	45
63	Low-Threshold Blue Quasi-2D Perovskite Laser through Domain Distribution Control. Nano Letters, 2022, 22, 1338-1344.	9.1	44
64	Oleylamineâ€Assisted Phaseâ€Selective Synthesis of Cu_{2â^'x}S Nanocrystals and the Mechanism of Phase Control. Particle and Particle Systems Characterization, 2015, 32, 907-914.	2.3	41
65	Phase Transformations of Copper Sulfide Nanocrystals: Towards Highly Efficient Quantumâ€Dotâ€Sensitized Solar Cells. ChemPhysChem, 2016, 17, 771-776.	2.1	40
66	Halogenatedâ€Methylammonium Based 3D Halide Perovskites. Advanced Materials, 2019, 31, e1903830.	21.0	40
67	Synthesis and Cathodoluminescence of Morphology-Tunable SiO₂ Nanotubes and ZnS/SiO₂ Coreâ^'Shell Structures Using CdSe Nanocrystals as the Seeds. Journal of Physical Chemistry C, 2007, 111, 11604-11611.	3.1	38
68	Monodispersed ZnSe Colloidal Microspheres:â€‰ Preparation, Characterization, and Their 2D Arrays. Langmuir, 2007, 23, 9008-9013.	3.5	38
69	Improving the efficiency of silicon solar cells using in situ fabricated perovskite quantum dots as luminescence downshifting materials. Nanophotonics, 2020, 9, 93-100.	6.0	37
70	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. Communications Physics, 2019, 2, .	5.3	36
71	Highly Efficient Light Emitting Diodes Based on In Situ Fabricated FAPbI 3 Nanocrystals: Solvent Effects of Onâ€Chip Crystallization. Advanced Optical Materials, 2019, 7, 1900774.	7.3	34
72	Topâ€Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. Angewandte Chemie, 2017, 129, 9699-9704.	2.0	31

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73	Enhanced piezo-response in copper halide perovskites based PVDF composite films. Science Bulletin, 2018, 63, 1254-1259.	9.0	31
74	Pâ€•119: Low Cost Perovskite Quantum Dots Film Based Wide Color Gamut Backlight Unit for LCD TVs. Digest of Technical Papers SID International Symposium, 2018, 49, 1657-1659.	0.3	30
75	Highly transparent and colour-tunable composite films with increased quantum dot loading. Journal of Materials Chemistry C, 2014, 2, 10031-10036.	5.5	28
76	Controlled hybridization of Snâ€“SnO₂ nanoparticles via simple-programmed microfluidic processes for tunable ultraviolet and blue emissions. Journal of Materials Chemistry C, 2014, 2, 7687-7694.	5.5	27
77	Sensitive single-color fluorescence â€œoffâ€“onâ€•switch system for dsDNA detection based on quantum dots-ruthenium assembling dyads. Biosensors and Bioelectronics, 2014, 56, 51-57.	10.1	27
78	Reducing the Chromaticity Shifts of Lightâ€Emitting Diodes Using Gradientâ€Alloyed Cd_xZn_{1â^’}_xSe_yS_{1â^’}_y@ZnS Core Shell Quantum Dots with Enhanced Highâ€Temperature Photoluminescence. Advanced Optical Materials, 2019, 7, 1801687.	7.3	27
79	Electronic States and Exciton Fine Structure in Colloidal CdTe Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 10465-10470.	3.1	25
80	Photon management of combining nanostructural antireflection and perovskite down-shifting composite films for improving the efficiency of silicon solar cells. Solar Energy Materials and Solar Cells, 2021, 220, 110856.	6.2	25
81	General Synthesis and White Light Emission of Diluted Magnetic Semiconductor Nanowires Using Single-Source Precursors. Chemistry of Materials, 2013, 25, 3260-3266.	6.7	24
82	Rapid Growth of Halide Perovskite Single Crystals: From Methods to Optimization Control. Chinese Journal of Chemistry, 2019, 37, 616-629.	4.9	24
83	Efficient _{CuInS}₂/ZnS Quantum Dots Lightâ€Emitting Diodes in Deep Red Region Using PEIE Modified ZnO Electron Transport Layer. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800575.	2.4	24
84	Transparent, flexible and luminescent composite films by incorporating CuInS2 based quantum dots into a cyanoethyl cellulose matrix. RSC Advances, 2012, 2, 2675.	3.6	23
85	PVA Hydrogel Embedded with Quantum Dots: A Potential Scalable and Healable Display Medium for Holographic 3D Applications. Advanced Optical Materials, 2014, 2, 338-342.	7.3	23
86	Polarizationâ€Sensitive Ultraviolet Detection from Orientedâ€CdSe@CdSâ€Dotâ€inâ€Rodsâ€Integrated Silicon Photodetector. Advanced Optical Materials, 2019, 7, 1900330.	7.3	23
87	Perovskite Quantum Dots Based Optical Fabryâ€“PÃ©rot Pressure Sensor. ACS Photonics, 2020, 7, 2390-2394.	6.6	23
88	Template-free solution growth of highly regular, crystal orientation-ordered C₆₀nanorod bundles. Journal of Materials Chemistry, 2010, 20, 953-956.	6.7	21
89	Biexciton Dynamics in Single Colloidal CdSe Quantum Dots. Journal of Physical Chemistry Letters, 2020, 11, 10425-10432.	4.6	21
90	Ion exchange for halide perovskite: From nanocrystal to bulk materials. Nano Select, 2021, 2, 2040-2060.	3.7	21

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91	Hydroxyl-Terminated CuInS₂-Based Quantum Dots: Potential Cathode Interfacial Modifiers for Efficient Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 7362-7367.	8.0	20
92	Highly luminescent red emissive perovskite quantum dots-embedded composite films: ligands capping and caesium doping-controlled crystallization process. Nanoscale, 2019, 11, 4942-4947.	5.6	20
93	Developing a Fluorescent Hybrid Nanobiosensor Based on Quantum Dots and Azoreductase Enzyme forMethyl Red Monitoring. Iranian Biomedical Journal, 2021, 25, 8-20.	0.7	20
94	A Nearâ€Infrared Miniature Quantum Dot Spectrometer. Advanced Optical Materials, 2021, 9, 2100376.	7.3	20
95	Fastâ€Response Oxygen Optical Fiber Sensor based on PEA₂SnI₄ Perovskite with Extremely Low Limit of Detection. Advanced Science, 2022, 9, e2104708.	11.2	20
96	Electrodeposition and electrocatalytic properties of platinum nanoparticles on multi-walled carbon nanotubes: effect of the deposition conditions. Mikrochimica Acta, 2007, 158, 327-334.	5.0	19
97	Gram-Scale Synthesis of Blue-Emitting CH3NH3PbBr3 Quantum Dots Through Phase Transfer Strategy. Frontiers in Chemistry, 2018, 6, 444.	3.6	19
98	Blinking Mechanisms and Intrinsic Quantumâ€Confined Stark Effect in Single Methylammonium Lead Bromide Perovskite Quantum Dots. Small, 2020, 16, e2005435.	10.0	19
99	Ultralong Homogeneously Alloyed CdSe_xS_{1â€x} Nanowires with Highly Polarized and Colorâ€Tunable Emissions. Advanced Optical Materials, 2014, 2, 885-891.	7.3	18
100	Alcohol-Soluble Quantum Dots: Enhanced Solution Processability and Charge Injection for Electroluminescence Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	2.9	18
101	Impedance Spectroscopy: A Versatile Technique to Understand Solutionâ€Processed Optoelectronic Devices. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800580.	2.4	18
102	Photoluminescence Blinking and Biexciton Auger Recombination in Single Colloidal Quantum Dots with Sharp and Smooth Core/Shell Interfaces. Journal of Physical Chemistry Letters, 2021, 12, 405-412.	4.6	18
103	Perovskite quantum dot microarrays: In situ fabrication via direct print photopolymerization. Nano Research, 2022, 15, 7681-7687.	10.4	18
104	Quantum dots on demand. Nature Photonics, 2020, 14, 65-66.	31.4	16
105	Direct Observation of Surface Polarons in Capped CuInS2 Quantum Dots by Ultrafast Pumpâ€“Probe Spectroscopies. Journal of Physical Chemistry Letters, 2019, 10, 5297-5301.	4.6	15
106	Growth of CdS nanotubes and their strong optical microcavity effects. Nanoscale, 2019, 11, 5325-5329.	5.6	15
107	Interlayer Determined Photoluminescence Excitation Properties of Cs-Rich and Pb-Rich Cs₄PbBr₆ Samples. Journal of Physical Chemistry C, 2021, 125, 16103-16109.	3.1	15
108	Colloidal Synthesis of CH₃NH₃PbBr₃ Nanoplatelets with Polarized Emission through Selfâ€Organization. Angewandte Chemie, 2017, 129, 1806-1809.	2.0	14

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109	Linearly polarized photoluminescence from anisotropic perovskite nanostructures: emerging materials for display technology. Journal of Information Display, 2019, 20, 181-192.	4.0	14
110	The Evolution of Photoluminescence Properties of PEA₂SnI₄ Upon Oxygen Exposure: Insight into Concentration Effects. Advanced Functional Materials, 2022, 32, 2108296.	14.9	14
111	Micropore filling fabrication of high resolution patterned PQDs with a pixel size less than 5 Î¼m. Nanoscale, 2022, 14, 5994-5998.	5.6	14
112	Formation of Mn doped CH₃NH₃PbBr₃perovskite microrods and their collective EMP lasing. Journal of Physics Communications, 2017, 1, 055018.	1.2	13
113	Morphology Evolution of Gradient-Alloyed Cd_xZn_{1â€“x}Se_yS_{1â€“y}@ZnS Coreâ€“Shell Quantum Dots during Transmission Electron Microscopy Determination: A Route to Illustrate Strain Effects. Journal of Physical Chemistry C, 2018, 122, 4583-4588.	3.1	13
114	Influence of surface charges on the emission polarization properties of single CdSe/CdS dot-in-rods. Frontiers of Physics, 2019, 14, 1.	5.0	13
115	Multiâ€Dimensional Quantum Nanostructures with Polarization Properties for Display Applications. Israel Journal of Chemistry, 2019, 59, 639-648.	2.3	13
116	Probing Exciton Move and Localization in Solution-Grown Colloidal CdSe_xS_{1â€“x} Alloyed Nanowires by Temperature- and Time-Resolved Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 22709-22717.	3.1	12
117	Balanced Carrier Injection and Charge Separation of CuInS₂ Quantum Dots for Bifunctional Light-Emitting and Photodetection Devices. Journal of Physical Chemistry C, 2020, 124, 6554-6561.	3.1	12
118	Inch-sized aligned polymer nanofiber films with embedded CH₃NH₃PbBr₃ nanocrystals: electrospinning fabrication using a folded aluminum foil as the collector. Nanotechnology, 2020, 31, 075708.	2.6	11
119	Synthesis of In2 S3 Nanoplates and Their Self-Assembly into Superlattices. Journal of Nanoscience and Nanotechnology, 2007, 7, 4346-4352.	0.9	10
120	Progress in semiconductor quantum dots-based continuous-wave laser. Science China Materials, 2020, 63, 1382-1397.	6.3	10
121	High-Q Microcavity Enhanced Optical Properties of CuInS₂/ZnS Colloidal Quantum Dots toward Non-Photodegradation. ACS Photonics, 2017, 4, 369-377.	6.6	9
122	Aqueous Synthesis of Methylammonium Lead Halide Perovskite Nanocrystals. Angewandte Chemie, 2018, 130, 9798-9802.	2.0	9
123	Hot Polarons with Trapped Excitons and Octahedraâ€Twist Phonons in CH 3 NH 3 PbBr 3 Hybrid Perovskite Nanowires. Laser and Photonics Reviews, 2020, 14, 1900267.	8.7	9
124	Colloidal Cd_xM_{1â€“x}Te Nanowires from the Visible to the Near Infrared Region: N,N-Dimethylformamide-Mediated Precise Cation Exchange. Journal of Physical Chemistry Letters, 2020, 11, 7-13.	4.6	9
125	Recombination processes in CuInS2/ZnS nanocrystals during steady-state photoluminescence. Applied Physics Letters, 2016, 108, .	3.3	8
126	Tetraphenylethylene derivative capped CH3NH3PbBr3 nanocrystals: AIE-activated assembly into superstructures. Faraday Discussions, 2017, 196, 91-99.	3.2	8

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127	Single Source Precursor Chemical Vapor Decomposition Method to Fabricate Stable, Bright Emissive Aluminum Hydroxide Phosphors for UVâ€Pumped White Lightâ€Emitting Devices. Advanced Optical Materials, 2018, 6, 1701115.	7.3	8
128	Illustrating the Shell Thickness Dependence in Alloyed Core/Shell Quantum-Dot-Based Light-Emitting Diodes by Impedance Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 26011-26017.	3.1	8
129	Gaining Insight into the Underlayer Treatment for in Situ Fabrication of Efficient Perovskite Nanocrystal-Based Light-Emitting Diodes. Journal of Physical Chemistry C, 2019, 123, 17353-17359.	3.1	8
130	Tunable Mie Resonances of Tin-based Iodide Perovskite Islandlike Films with Enhanced Infrared Photoluminescence. Journal of Physical Chemistry Letters, 2020, 11, 3332-3338.	4.6	8
131	Role of Aspect Ratio in the Photoluminescence of Single CdSe/CdS Dot-in-Rods. Journal of Physical Chemistry C, 2022, 126, 2699-2707.	3.1	8
132	Colloidal Synthesis of Giant Shell PbSe-Based Core/Shell Quantum Dots in Polar Solvent: Cation Exchange versus Epitaxial Growth. Chemistry of Materials, 2020, 32, 6650-6656.	6.7	7
133	Enhanced emission of in-situ fabricated perovskite-polymer composite films on gold nanoparticle substrates. Optical Materials Express, 2020, 10, 1659.	3.0	7
134	In Situ Solution-Grown Halide Perovskite Single Crystals with Epitaxial Heterojunction Structures for Efficient Photodetection. Crystal Growth and Design, 2022, 22, 3662-3668.	3.0	7
135	Cation effect on excitons in perovskite nanocrystals from single-dot photoluminescence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Pb</mml:mi><mml:msub><mml:mi	3.2	6
136	Centimeter-Sized Na-Doped CsPb₂Br₅ Single Crystals with Efficient Self-Trapped Exciton Emission. Crystal Growth and Design, 2022, 22, 4025-4030.	3.0	6
137	16â€4: Lateâ€News Paper: High Color Gamut Miniâ€LED Backlight Demon based on Dualâ€Emissive Perovskite Quantum Dots Films. Digest of Technical Papers SID International Symposium, 2020, 51, 219-221.	0.3	4
138	Nondestructive and Controllable Anion Exchange of Halide Perovskite Films through Finkelstein Reaction. Journal of Physical Chemistry C, 2021, 125, 9253-9260.	3.1	4
139	Revealing the vertical structure of in-situ fabricated perovskite nanocrystals films toward efficient pure red light-emitting diodes. Fundamental Research, 2022, , .	3.3	4
140	Optical detection of magnetic field with Mn4+:K2SiF6 phosphor from room to liquid helium temperatures. Applied Physics Letters, 2017, 110, 212405.	3.3	3
141	37.5: Hybrid Backlight System based on Blue, Red LEDs and Perovskite Quantum Dots for Liquid Crystal Display Application. Digest of Technical Papers SID International Symposium, 2019, 50, 411-413.	0.3	3
142	Quantum Dot LEDs: Stretchable Organometalâ€Halideâ€Perovskite Quantumâ€Dot Lightâ€Emitting Diodes (Adv.) Tj ETQq0 0 0 rgBT /O	21.0	3
143	Bandgap and dimension regulation of CsPbI₃ perovskite through a bromine-terminated ligand for efficient pure red electroluminescence. Journal of Materials Chemistry C, 2022, 10, 9707-9713.	5.5	3
144	Light-Emitting Devices: All-Copper Nanocluster Based Down-Conversion White Light-Emitting Devices (Adv. Sci. 11/2016). Advanced Science, 2016, 3, .	11.2	2

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145	Pâ€118: Quantum Dots â€Silica Monolith: From Alcohol Soluble Quantum Dots to High Performance Light Emitting Diodes. Digest of Technical Papers SID International Symposium, 2018, 49, 1654-1656.	0.3	2
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