Hai-Zheng Zhong

List of Publications by Year in Descending Order

150 papers	9,763 citations	45 h-index	97 g-index
165 ext. papers	11,579 ext. citations	8 avg, IF	6.44 L-index

#	Paper	IF	Citations
150	Role of Aspect Ratio in the Photoluminescence of Single CdSe/CdS Dot-in-Rods. *Journal of Physical Chemistry C*, **2022**, 126, 2699-2707	3.8	3
149	Fast-Response Oxygen Optical Fiber Sensor based on PEA SnI Perovskite with Extremely Low Limit of Detection.. *Advanced Science*, **2022**, e2104708	13.6	3
148	The Evolution of Photoluminescence Properties of PEA2SnI4 Upon Oxygen Exposure: Insight into Concentration Effects. *Advanced Functional Materials*, **2022**, 32, 2108296	15.6	6
147	What Happens When Halide Perovskites Meet with Water?. *Journal of Physical Chemistry Letters*, **2022**, 2281-2290	6.4	12
146	Thermally activated delayed fluorescence (TADF) organic molecules for efficient X-ray scintillation and imaging. *Nature Materials*, **2021**,	27	31
145	Solution-processed inorganic perovskite crystals as achromatic quarter-wave plates. *Nature Photonics*, **2021**, 15, 813-816	33.9	17
144	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	6.4	9
143	In Situ Patterning Perovskite Quantum Dots by Direct Laser Writing Fabrication. *ACS Photonics*, **2021**, 8, 765-770	6.3	19
142	One-Step Polymeric Melt Encapsulation Method to Prepare CsPbBr3 Perovskite Quantum Dots/Polymethyl Methacrylate Composite with High Performance. *Advanced Functional Materials*, **2021**, 31, 2010009	15.6	29
141	Nondestructive and Controllable Anion Exchange of Halide Perovskite Films through Finkelstein Reaction. *Journal of Physical Chemistry C*, **2021**, 125, 9253-9260	3.8	2
140	62-9: Invited Paper: Hybrid Composite Films with Perovskite Quantum Dots and Red Phosphors for LCD Display Backlights. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 912-913	0.5	
139	A Near-Infrared Miniature Quantum Dot Spectrometer. *Advanced Optical Materials*, **2021**, 9, 2100376	8.1	4
138	State of the Art and Prospects for Halide Perovskite Nanocrystals. *ACS Nano*, **2021**, 15, 10775-10981	16.7	222
137	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	6.4	6
136	Developing a Fluorescent Hybrid Nanobiosensor Based on Quantum Dots and Azoreductase Enzyme forMethyl Red Monitoring. *Iranian Biomedical Journal*, **2021**, 25, 8-20	2	9
135	Interlayer Determined Photoluminescence Excitation Properties of Cs-Rich and Pb-Rich Cs4PbBr6 Samples. *Journal of Physical Chemistry C*, **2021**, 125, 16103-16109	3.8	5
134	P-4.8: In-situ Patterning Perovskite Quantum Dots by Direct Laser Writing Fabrication. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 771-771	0.5	

133	Highly Stable and Spectrally Tunable Gamma Phase RbxCs1−xPbI3 Gradient-Alloyed Quantum Dots in PMMA Matrix through A Sites Engineering. *Advanced Functional Materials*, **2021**, 31, 2008211	15.6	37
132	Progress in semiconductor quantum dots-based continuous-wave laser. *Science China Materials*, **2020**, 63, 1382-1397	7.1	5
131	Colloidal quantum dot hybrids: an emerging class of materials for ambient lighting. *Journal of Materials Chemistry C*, **2020**, 8, 10676-10695	7.1	18
130	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	3.8	9
129	Broadband perovskite quantum dot spectrometer beyond human visual resolution. *Light: Science and Applications*, **2020**, 9, 73	16.7	31
128	Enhanced emission of in-situ fabricated perovskite-polymer composite films on gold nanoparticle substrates. *Optical Materials Express*, **2020**, 10, 1659	2.6	4
127	Enhanced emission of in-situ fabricated perovskite-polymer composite films on gold nanoparticle substrates. *Optical Materials Express*, **2020**, 10, 1659	2.6	2
126	Dimension control of in situ fabricated CsPbClBr nanocrystal films toward efficient blue light-emitting diodes. *Nature Communications*, **2020**, 11, 6428	17.4	65
125	Inch-sized aligned polymer nanofiber films with embedded CHNHPbBr nanocrystals: electrospinning fabrication using a folded aluminum foil as the collector. *Nanotechnology*, **2020**, 31, 075708	3.4	6
124	Hot Polarons with Trapped Excitons and Octahedra-Twist Phonons in CH3NH3PbBr3 Hybrid Perovskite Nanowires. *Laser and Photonics Reviews*, **2020**, 14, 1900267	8.3	4
123	Colloidal CdMTe Nanowires from the Visible to the Near Infrared Region: ,-Dimethylformamide-Mediated Precise Cation Exchange. *Journal of Physical Chemistry Letters*, **2020**, 11, 7-13	6.4	5
122	16-4: Late-News Paper: High Color Gamut Mini-LED Backlight Demon based on Dual-Emissive Perovskite Quantum Dots Films. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 219-221	0.5	2
121	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	9.6	3
120	Blinking Mechanisms and Intrinsic Quantum-Confined Stark Effect in Single Methylammonium Lead Bromide Perovskite Quantum Dots. *Small*, **2020**, 16, e2005435	11	9
119	Biexciton Dynamics in Single Colloidal CdSe Quantum Dots. *Journal of Physical Chemistry Letters*, **2020**, 11, 10425-10432	6.4	13
118	Perovskite Quantum Dots Based Optical Fabry-Pérot Pressure Sensor. *ACS Photonics*, **2020**, 7, 2390-2394	6.3	12
117	Surface modification induced by perovskite quantum dots for triple-cation perovskite solar cells. *Nano Energy*, **2020**, 67, 104189	17.1	49
116	Tunable Mie Resonances of Tin-based Iodide Perovskite Islandlike Films with Enhanced Infrared Photoluminescence. *Journal of Physical Chemistry Letters*, **2020**, 11, 3332-3338	6.4	3

115	Halogenated-Methylammonium Based 3D Halide Perovskites. *Advanced Materials*, **2019**, 31, e1903830	24	19
114	Size-Dependent Phase Transition in Perovskite Nanocrystals. *Journal of Physical Chemistry Letters*, **2019**, 10, 5451-5457	6.4	26
113	Linearly polarized photoluminescence from anisotropic perovskite nanostructures: emerging materials for display technology. *Journal of Information Display*, **2019**, 20, 181-192	4.1	6
112	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	3.8	7
111	Stretchable Organometal-Halide-Perovskite Quantum-Dot Light-Emitting Diodes. *Advanced Materials*, **2019**, 31, e1807516	24	43
110	Quantum Dot LEDs: Stretchable Organometal-Halide-Perovskite Quantum-Dot Light-Emitting Diodes (Adv. Mater. 22/2019). *Advanced Materials*, **2019**, 31, 1970157	24	2
109	Polarization-Sensitive Ultraviolet Detection from Oriented-CdSe@CdS-Dot-in-Rods-Integrated Silicon Photodetector. *Advanced Optical Materials*, **2019**, 7, 1900330	8.1	12
108	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	3.8	7
107	75-1: Invited Paper: 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, 1064-1066	0.5	2
106	Impedance Spectroscopy: A Versatile Technique to Understand Solution-Processed Optoelectronic Devices (Phys. Status Solidi RRL 5/2019). *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1970024	2.5	1
105	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	6.4	50
104	Multi-Dimensional Quantum Nanostructures with Polarization Properties for Display Applications. *Israel Journal of Chemistry*, **2019**, 59, 639-648	3.4	8
103	In-situ fabricated anisotropic halide perovskite nanocrystals in polyvinylalcohol nanofibers: Shape tuning and polarized emission. *Nano Research*, **2019**, 12, 1411-1416	10	35
102	Rapid Growth of Halide Perovskite Single Crystals: From Methods to Optimization Control. *Chinese Journal of Chemistry*, **2019**, 37, 616-629	4.9	16
101	Growth of CdS nanotubes and their strong optical microcavity effects. *Nanoscale*, **2019**, 11, 5325-5329	7.7	11
100	Photodegradation of Organometal Hybrid Perovskite Nanocrystals: Clarifying the Role of Oxygen by Single-Dot Photoluminescence. *Journal of Physical Chemistry Letters*, **2019**, 10, 864-869	6.4	34
99	Reducing the Chromaticity Shifts of Light-Emitting Diodes Using Gradient-Alloyed CdxZn1−xSeyS1−y@ZnS Core Shell Quantum Dots with Enhanced High-Temperature Photoluminescence. *Advanced Optical Materials*, **2019**, 7, 1801687	8.1	20
98	Direct Observation of Surface Polarons in Capped CuInS Quantum Dots by Ultrafast Pump-Probe Spectroscopies. *Journal of Physical Chemistry Letters*, **2019**, 10, 5297-5301	6.4	13

97	The Periodic Table. *Journal of Physical Chemistry A*, **2019**, 123, 5837-5848	2.8	1
96	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. *Communications Physics*, **2019**, 2,	5.4	22
95	Influence of surface charges on the emission polarization properties of single CdSe/CdS dot-in-rods. *Frontiers of Physics*, **2019**, 14, 1	3.7	8
94	In Situ Inkjet Printing Strategy for Fabricating Perovskite Quantum Dot Patterns. *Advanced Functional Materials*, **2019**, 29, 1903648	15.6	79
93	The JPC Periodic Table. *Journal of Physical Chemistry C*, **2019**, 123, 17063-17074	3.8	1
92	The JPC Periodic Table. *Journal of Physical Chemistry Letters*, **2019**, 10, 4051-4062	6.4	1
91	Highly Efficient Light Emitting Diodes Based on In Situ Fabricated FAPbI3 Nanocrystals: Solvent Effects of On-Chip Crystallization. *Advanced Optical Materials*, **2019**, 7, 1900774	8.1	20
90	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	0.5	3
89	51.2: Invited Paper: Efficient Light-emitting Diodes Based on In-situ Fabricated Perovskite Nanocrystals. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 567-567	0.5	
88	P-4.2: Reducing Chromaticity Shifts of Light Emitting Diodes using Gradient Alloyed CdxZn1-xSeyS1-y@ZnS Core Shell Quantum Dots. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 702-702	0.5	
87	Performance analysis of PQDCF-coated silicon image sensor using Monte-Carlo ray-trace simulation. *Optics Express*, **2019**, 27, 9079-9087	3.3	0
86	Highly luminescent red emissive perovskite quantum dots-embedded composite films: ligands capping and caesium doping-controlled crystallization process. *Nanoscale*, **2019**, 11, 4942-4947	7.7	15
85	Improving the efficiency of silicon solar cells using in situ fabricated perovskite quantum dots as luminescence downshifting materials. *Nanophotonics*, **2019**, 9, 93-100	6.3	14
84	Cation effect on excitons in perovskite nanocrystals from single-dot photoluminescence of CH3NH3PbI3. *Physical Review B*, **2019**, 100,	3.3	3
83	Efficient CuInS2/ZnS Quantum Dots Light-Emitting Diodes in Deep Red Region Using PEIE Modified ZnO Electron Transport Layer. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800575	2.5	17
82	Impedance Spectroscopy: A Versatile Technique to Understand Solution-Processed Optoelectronic Devices. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800580	2.5	9
81	A detour strategy for colloidally stable block-copolymer grafted MAPbBr quantum dots in water with long photoluminescence lifetime. *Nanoscale*, **2018**, 10, 5820-5826	7.7	32
80	Centimeter-Sized Cs4PbBr6 Crystals with Embedded CsPbBr3 Nanocrystals Showing Superior Photoluminescence: Nonstoichiometry Induced Transformation and Light-Emitting Applications. *Advanced Functional Materials*, **2018**, 28, 1706567	15.6	205

79	Morphology Evolution of Gradient-Alloyed CdxZn1−xSeyS1−y@ZnS Core−Shell Quantum Dots during Transmission Electron Microscopy Determination: A Route to Illustrate Strain Effects. *Journal of Physical Chemistry C*, **2018**, 122, 4583-4588	3.8	13
78	Single Source Precursor Chemical Vapor Decomposition Method to Fabricate Stable, Bright Emissive Aluminum Hydroxide Phosphors for UV-Pumped White Light-Emitting Devices. *Advanced Optical Materials*, **2018**, 6, 1701115	8.1	7
77	Elucidating the phase transitions and temperature-dependent photoluminescence of MAPbBr3 single crystal. *Journal Physics D: Applied Physics*, **2018**, 51, 045105	3	44
76	Pyridine-Modulated Mn Ion Emission Properties of C10H12N2MnBr4 and C5H6NMnBr3 Single Crystals. *Journal of Physical Chemistry C*, **2018**, 122, 3130-3137	3.8	49
75	From Large-Scale Synthesis to Lighting Device Applications of Ternary I-III-VI Semiconductor Nanocrystals: Inspiring Greener Material Emitters. *Journal of Physical Chemistry Letters*, **2018**, 9, 435-445	6.4	112
74	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	6.4	51
73	Efficient Light-Emitting Diodes Based on in Situ Fabricated FAPbBr Nanocrystals: The Enhancing Role of the Ligand-Assisted Reprecipitation Process. *ACS Nano*, **2018**, 12, 8808-8816	16.7	183
72	Enhanced piezo-response in copper halide perovskites based PVDF composite films. *Science Bulletin*, **2018**, 63, 1254-1259	10.6	20
71	Polar Solvent Induced Lattice Distortion of Cubic CsPbI Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. *Journal of the American Chemical Society*, **2018**, 140, 11705-11715	16.4	154
70	Grain-Boundary "Patches" by In Situ Conversion to Enhance Perovskite Solar Cells Stability. *Advanced Materials*, **2018**, 30, e1800544	24	170
69	Aqueous Synthesis of Methylammonium Lead Halide Perovskite Nanocrystals. *Angewandte Chemie*, **2018**, 130, 9798-9802	3.6	8
68	Aqueous Synthesis of Methylammonium Lead Halide Perovskite Nanocrystals. *Angewandte Chemie - International Edition*, **2018**, 57, 9650-9654	16.4	58
67	Gram-Scale Synthesis of Blue-Emitting CHNHPbBr Quantum Dots Through Phase Transfer Strategy. *Frontiers in Chemistry*, **2018**, 6, 444	5	16
66	Perovskite Quantum Dots Embedded Composite Films Enhancing UV Response of Silicon Photodetectors for Broadband and Solar-Blind Light Detection. *Advanced Optical Materials*, **2018**, 6, 1800077	8.1	45
65	P-118: Quantum Dots - Silica Monolith: From Alcohol Soluble Quantum Dots to High Performance Light Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1654-1656	0.5	2
64	P-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	0.5	24
63	In Situ Fabricated Perovskite Nanocrystals: A Revolution in Optical Materials. *Advanced Optical Materials*, **2018**, 6, 1800380	8.1	129
62	Colloidal Synthesis of CH3NH3PbBr3 Nanoplatelets with Polarized Emission through Self-Organization. *Angewandte Chemie*, **2017**, 129, 1806-1809	3.6	14

61	Colloidal Synthesis of CH NH PbBr Nanoplatelets with Polarized Emission through Self-Organization. *Angewandte Chemie - International Edition*, **2017**, 56, 1780-1783	16.4	79
60	High-Q Microcavity Enhanced Optical Properties of CuInS2/ZnS Colloidal Quantum Dots toward Non-Photodegradation. *ACS Photonics*, **2017**, 4, 369-377	6.3	7
59	Hydroxyl-Terminated CuInS-Based Quantum Dots: Potential Cathode Interfacial Modifiers for Efficient Inverted Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 7362-7367	9.5	13
58	Optical detection of magnetic field with Mn4+:K2SiF6 phosphor from room to liquid helium temperatures. *Applied Physics Letters*, **2017**, 110, 212405	3.4	3
57	Top-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	16.4	84
56	Top-Down Fabrication of Stable Methylammonium Lead Halide Perovskite Nanocrystals by Employing a Mixture of Ligands as Coordinating Solvents. *Angewandte Chemie*, **2017**, 129, 9699-9704	3.6	26
55	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	3.8	15
54	Ligand-Controlled Formation and Photoluminescence Properties of CH3NH3PbBr3 Nanocubes and Nanowires. *ChemNanoMat*, **2017**, 3, 303-310	3.5	50
53	Colloidal Synthesis of Air-Stable CH3NH3PbI3 Quantum Dots by Gaining Chemical Insight into the Solvent Effects. *Chemistry of Materials*, **2017**, 29, 3793-3799	9.6	155
52	Strong Polarized Photoluminescence from Stretched Perovskite-Nanocrystal-Embedded Polymer Composite Films. *Advanced Optical Materials*, **2017**, 5, 1700594	8.1	48
51	53% Efficient Red Emissive Carbon Quantum Dots for High Color Rendering and Stable Warm White-Light-Emitting Diodes. *Advanced Materials*, **2017**, 29, 1702910	24	405
50	Formation of Mn doped CH3NH3PbBr3perovskite microrods and their collective EMP lasing. *Journal of Physics Communications*, **2017**, 1, 055018	1.2	11
49	Mesoporous Aluminum Hydroxide Synthesized by a Single-Source Precursor-Decomposition Approach as a High-Quantum-Yield Blue Phosphor for UV-Pumped White-Light-Emitting Diodes. *Advanced Materials*, **2017**, 29, 1604284	24	43
48	Tetraphenylethylene derivative capped CHNHPbBr nanocrystals: AIE-activated assembly into superstructures. *Faraday Discussions*, **2017**, 196, 91-99	3.6	6
47	In Situ Fabrication of Halide Perovskite Nanocrystal-Embedded Polymer Composite Films with Enhanced Photoluminescence for Display Backlights. *Advanced Materials*, **2016**, 28, 9163-9168	24	490
46	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	9.5	38
45	Light-Emitting Devices: All-Copper Nanocluster Based Down-Conversion White Light-Emitting Devices (Adv. Sci. 11/2016). *Advanced Science*, **2016**, 3,	13.6	2
44	Reprecipitation synthesis of luminescent CH3NH3PbBr3/NaNO3 nanocomposites with enhanced stability. *Journal of Materials Chemistry C*, **2016**, 4, 11387-11391	7.1	67

43	Water resistant CsPbX 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	9.4	423
42	Phase Transformations of Copper Sulfide Nanocrystals: Towards Highly Efficient Quantum-Dot-Sensitized Solar Cells. *ChemPhysChem*, **2016**, 17, 771-6	3.2	32
41	Hydroxyl-Terminated CuInS2 Based Quantum Dots: Toward Efficient and Bright Light Emitting Diodes. *Chemistry of Materials*, **2016**, 28, 1085-1091	9.6	126
40	Organometal halide perovskite quantum dots: synthesis, optical properties, and display applications. *Chinese Chemical Letters*, **2016**, 27, 1124-1130	8.1	54
39	Tumor-Targeted Multimodal Optical Imaging with Versatile Cadmium-Free Quantum Dots. *Advanced Functional Materials*, **2016**, 26, 267-276	15.6	53
38	Recombination processes in CuInS2/ZnS nanocrystals during steady-state photoluminescence. *Applied Physics Letters*, **2016**, 108, 041106	3.4	7
37	Poly(vinylpyrrolidone) supported copper nanoclusters: glutathione enhanced blue photoluminescence for application in phosphor converted light emitting devices. *Nanoscale*, **2016**, 8, 7197-202	7.7	72
36	Nonlinear Optical Properties of Colloidal CH3NH3PbBr3 and CsPbBr3 Quantum Dots: A Comparison Study Using Z-Scan Technique. *Advanced Optical Materials*, **2016**, 4, 1732-1737	8.1	75
35	Brightly Luminescent and Color-Tunable Colloidal CH3NH3PbX3 (X = Br, I, Cl) Quantum Dots: Potential Alternatives for Display Technology. *ACS Nano*, **2015**, 9, 4533-42	16.7	1602
34	Ray-trace simulation of CuInS(Se)□quantum dot based luminescent solar concentrators. *Optics Express*, **2015**, 23, A858-67	3.3	41
33	Halide perovskite quantum dots: potential candidates for display technology. *Science Bulletin*, **2015**, 60, 1622-1624	10.6	49
32	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	9.6	117
31	Probing Exciton Move and Localization in Solution-Grown Colloidal CdSexS1□ Alloyed Nanowires by Temperature- and Time-Resolved Spectroscopy. *Journal of Physical Chemistry C*, **2015**, 119, 22709-22717	4.8	12
30	Aggregation-Induced Emission Features of Organometal Halide Perovskites and Their Fluorescence Probe Applications. *Advanced Optical Materials*, **2015**, 3, 112-119	8.1	64
29	Oleylamine-Assisted Phase-Selective Synthesis of Cu2□S Nanocrystals and the Mechanism of Phase Control. *Particle and Particle Systems Characterization*, **2015**, 32, 907-914	3.1	37
28	Paper No S10.1: Emerging Materials and Processes for Quantum Dots based Display Technology (Invited Paper). *Digest of Technical Papers SID International Symposium*, **2015**, 46, 42-42	0.5	
27	Emulsion Synthesis of Size-Tunable CH3NH3PbBr3 Quantum Dots: An Alternative Route toward Efficient Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 28128-33	9.5	361
26	P-80: Intelligent Remote Light-Emitting Systems using PMMA and CuInS2 Nanocrystals Composite Films. *Digest of Technical Papers SID International Symposium*, **2014**, 45, 1285-1287	0.5	1

25	Controlled hybridization of SnSnO2 nanoparticles via simple-programmed microfluidic processes for tunable ultraviolet and blue emissions. *Journal of Materials Chemistry C*, **2014**, 2, 7687-7694	7.1	22
24	Highly transparent and colour-tunable composite films with increased quantum dot loading. *Journal of Materials Chemistry C*, **2014**, 2, 10031-10036	7.1	26
23	Sensitive single-color fluorescence "off-on" switch system for dsDNA detection based on quantum dots-ruthenium assembling dyads. *Biosensors and Bioelectronics*, **2014**, 56, 51-7	11.8	27
22	PVA Hydrogel Embedded with Quantum Dots: A Potential Scalable and Healable Display Medium for Holographic 3D Applications. *Advanced Optical Materials*, **2014**, 2, 338-342	8.1	20
21	Ultralong Homogeneously Alloyed CdSexS1-x Nanowires with Highly Polarized and Color-Tunable Emissions. *Advanced Optical Materials*, **2014**, 2, 885-891	8.1	15
20	General Synthesis and White Light Emission of Diluted Magnetic Semiconductor Nanowires Using Single-Source Precursors. *Chemistry of Materials*, **2013**, 25, 3260-3266	9.6	22
19	Controllable Transformation from Rhombohedral Cu1.8S Nanocrystals to Hexagonal CuS Clusters: Phase- and Composition-Dependent Plasmonic Properties. *Chemistry of Materials*, **2013**, 25, 4828-4834	9.6	125
18	Integration of CuInS2-based nanocrystals for high efficiency and high colour rendering white light-emitting diodes. *Nanoscale*, **2013**, 5, 3514-9	7.7	132
17	Red emissive CuInS2-based nanocrystals: a potential phosphor for warm white light-emitting diodes. *Optics Express*, **2013**, 21, 10105-10	3.3	53
16	Tuning the Luminescence Properties of Colloidal I-III-VI Semiconductor Nanocrystals for Optoelectronics and Biotechnology Applications. *Journal of Physical Chemistry Letters*, **2012**, 3, 3167-75	6.4	361
15	Transparent, flexible and luminescent composite films by incorporating CuInS2 based quantum dots into a cyanoethyl cellulose matrix. *RSC Advances*, **2012**, 2, 2675	3.7	20
14	Highly Emissive and Color-Tunable CuInS2-Based Colloidal Semiconductor Nanocrystals: Off-Stoichiometry Effects and Improved Electroluminescence Performance. *Advanced Functional Materials*, **2012**, 22, 2081-2088	15.6	390
13	Colloidal CuInSe2 Nanocrystals in the Quantum Confinement Regime: Synthesis, Optical Properties, and Electroluminescence. *Journal of Physical Chemistry C*, **2011**, 115, 12396-12402	3.8	161
12	Template-free solution growth of highly regular, crystal orientation-ordered C60 nanorod bundles. *Journal of Materials Chemistry*, **2010**, 20, 953-956		21
11	Noninjection gram-scale synthesis of monodisperse pyramidal CuInS2 nanocrystals and their size-dependent properties. *ACS Nano*, **2010**, 4, 5253-62	16.7	353
10	Electronic States and Exciton Fine Structure in Colloidal CdTe Nanocrystals. *Journal of Physical Chemistry C*, **2009**, 113, 10465-10470	3.8	21
9	Shape tuning of type II CdTe-CdSe colloidal nanocrystal heterostructures through seeded growth. *Journal of the American Chemical Society*, **2009**, 131, 9170-1	16.4	74
8	Binaphthyl-Containing Green- and Red-Emitting Molecules for Solution-Processable Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2008**, 18, 3299-3306	15.6	97

7	Controlled Synthesis and Optical Properties of Colloidal Ternary Chalcogenide CuInS2 Nanocrystals. *Chemistry of Materials*, **2008**, 20, 6434-6443	9.6	479
6	Synthesis and Cathodoluminescence of Morphology-Tunable SiO2Nanotubes and ZnS/SiO2Core□Shell Structures Using CdSe Nanocrystals as the Seeds. *Journal of Physical Chemistry C*, **2007**, 111, 11604-11611	3.8	34
5	Design and Fabrication of Rocketlike Tetrapodal CdS Nanorods by Seed-Epitaxial Metal□Organic Chemical Vapor Deposition. *Crystal Growth and Design*, **2007**, 7, 488-491	3.5	59
4	Monodispersed ZnSe colloidal microspheres: preparation, characterization, and their 2D arrays. *Langmuir*, **2007**, 23, 9008-13	4	37
3	Electrodeposition and electrocatalytic properties of platinum nanoparticles on multi-walled carbon nanotubes: effect of the deposition conditions. *Mikrochimica Acta*, **2007**, 158, 327-334	5.8	18
2	Synthesis of In2S3 nanoplates and their self-assembly into superlattices. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 4346-52	1.3	10
1	Ion exchange for halide perovskite: From nanocrystal to bulk materials. *Nano Select*,	3.1	2