

Haochen Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

606
citations

13
h-index

23
g-index

52
ext. papers

823
ext. citations

7.2
avg, IF

3.81
L-index

#	Paper	IF	Citations
49	Targeting cooling for quantum dots by 57.3°C with air-bubbles-assembled three-dimensional hexagonal boron nitride heat dissipation networks. <i>Chemical Engineering Journal</i> , 2022 , 427, 130958	14.7	4
48	Light extraction employing optical tunneling in blue InP quantum dot light-emitting diodes. <i>Applied Physics Letters</i> , 2022 , 120, 091101	3.4	3
47	Organic-Phase Synthesis of Blue Emission Copper Nanoparticles for Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2022 , 5, 3967-3972	5.6	0
46	Color revolution: toward ultra-wide color gamut displays. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 213002	3	2
45	Improved Ink-Jet-Printed CdSe Quantum Dot Light-Emitting Diodes with Minimized Hole Transport Layer Erosion. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3005-3014	4	2
44	Alloyed Green-Emitting CdZnSeS/ZnS Quantum Dots with Dense Protective Layers for Stable Lighting and Display Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32217-32225	9.5	3
43	Universal Strategy for Improving Perovskite Photodiode Performance: Interfacial Built-In Electric Field Manipulated by Unintentional Doping. <i>Advanced Science</i> , 2021 , 8, e2101729	13.6	6
42	Hole Scavenging and Electron-Hole Pair Photoproduction Rate: Two Mandatory Key Factors to Control Single-Tip Au-CdSe/CdS Nanoheterodimers. <i>ACS Nano</i> , 2021 , 15, 15328-15341	16.7	3
41	Operando structure degradation study of PbS quantum dot solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 3420-3429	35.4	3
40	Metal-to-Ligand Charge Transfer Chirality Sensing of d-Glucose Assisted with GOX-Based Enzymatic Reaction. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000138	6.8	2
39	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr Nanoplatelets with Enhanced Stability and Charge Transport. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31863-31874	9.5	18
38	Enhanced frequency and amplitude modulation of THz metasurfaces based on CdSe/CdS quantum rods. <i>Optics Communications</i> , 2020 , 471, 126014	2	0
37	In Situ Growth of All-Inorganic Perovskite Single Crystal Arrays on Electron Transport Layer. <i>Advanced Science</i> , 2020 , 7, 1902767	13.6	10
36	Low reabsorption and stability enhanced luminescent solar concentrators based on silica encapsulated quantum rods. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 206, 110321	6.4	10
35	Infrared light-emitting diodes based on colloidal PbSe/PbS core/shell nanocrystals. <i>Chinese Physics B</i> , 2020 , 29, 018503	1.2	2
34	P-93: Compact Stable Quantum Dots via Amide-Mediated Synthesis of PMO-Based Multifunctional Ligand. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 1719-1722	0.5	
33	Ligand-Induced Chirality in Asymmetric CdSe/CdS Nanostructures: A Close Look at Chiral Tadpoles. <i>ACS Nano</i> , 2020 , 14, 10346-10358	16.7	13

32	Causal Inference Machine Learning Leads Original Experimental Discovery in CdSe/CdS Core/Shell Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7232-7238	6.4	5
31	Grazing-Incidence Small-Angle X-ray Scattering Observation of Gold Sputter Deposition on a PbS Quantum Dot Solid. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46942-46952	9.5	5
30	InP/ZnS/ZnS Core/Shell Blue Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2005303	15.6	47
29	A facile route to synthesize CdSe/ZnS thick-shell quantum dots with precisely controlled green emission properties: towards QDs based LED applications. <i>Scientific Reports</i> , 2019 , 9, 12048	4.9	23
28	Branched capping ligands improve the stability of cesium lead halide (CsPbBr ₃) perovskite quantum dots. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11251-11257	7.1	25
27	Double-Shelled InP/ZnMnS/ZnS Quantum Dots for Light-Emitting Devices. <i>ACS Omega</i> , 2019 , 4, 18961-18968	9.6	11
26	Surface modification toward luminescent and stable silica-coated quantum dots color filter. <i>Science China Materials</i> , 2019 , 62, 1463-1469	7.1	2
25	Reduced Working Temperature of Quantum Dots-Light-Emitting Diodes Optimized by Quantum Dots at Silica-on-Chip Structure. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2019 , 141,	2	5
24	P-122: High Quantum Yield Green and Red CdSe/CdS Dot-in-Rods and Their Electroluminescent Light Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1705-1708	0.5	3
23	P-125: High Quantum Yield InP/ZnMnS/ZnS Quantum Dots. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1716-1719	0.5	2
22	Highly Polarized Fluorescent Film Based on Aligned Quantum Rods by Contact Ink-Jet Printing Method. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-11	1.8	4
21	Structure and Charge Carrier Dynamics in Colloidal PbS Quantum Dot Solids. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2058-2065	6.4	23
20	Modeling and Analysis for Modulation of Light-Conversion Materials in Visible Light Communication. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-13	1.8	4
19	Water-soluble chiral CdSe/CdS dot/rod nanocrystals for two-photon fluorescence lifetime imaging and photodynamic therapy. <i>Nanoscale</i> , 2019 , 11, 15245-15252	7.7	10
18	Perovskite Light-Emitting Diodes Based on FAPb _{1-x} SnxBr ₃ Nanocrystals Synthesized at Room Temperature. <i>IEEE Nanotechnology Magazine</i> , 2019 , 18, 1050-1056	2.6	6
17	. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-6	2	1
16	Near-infrared lead chalcogenide quantum dots: Synthesis and applications in light emitting diodes. <i>Chinese Physics B</i> , 2019 , 28, 128504	1.2	7
15	Scattering enhanced quantum dots based luminescent solar concentrators by silica microparticles. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 380-385	6.4	30

14	Employing Polar Solvent Controlled Ionization in Precursors for Synthesis of High-Quality Inorganic Perovskite Nanocrystals at Room Temperature. <i>Advanced Functional Materials</i> , 2018 , 28, 1706000	15.6	59
13	Less-Lead Control toward Highly Efficient Formamidinium-Based Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24242-24248	9.5	15
12	White-Light-Emitting Diodes: Targeting Cooling for Quantum Dots in White QDs-LEDs by Hexagonal Boron Nitride Platelets with Electrostatic Bonding (Adv. Funct. Mater. 30/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870212	15.6	1
11	Targeting Cooling for Quantum Dots in White QDs-LEDs by Hexagonal Boron Nitride Platelets with Electrostatic Bonding. <i>Advanced Functional Materials</i> , 2018 , 28, 1801407	15.6	68
10	Large-scale active luminance film with enhanced polarization made of aligned quantum-rod-containing polymeric nanofibers for highly efficient and wide color gamut LCD displays. <i>Chinese Journal of Liquid Crystals and Displays</i> , 2018 , 33, 261-270	1.3	2
9	AIR-Chem: Authentic Intelligent Robotics for Chemistry. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9142-9148	2.8	22
8	Formamidinium-Based Quasi-2D Perovskite Nanoplates With Dimensionally Tuned Optical Properties. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 1165-1170	2.6	4
7	Electric Bias Induced Degradation in Organic-Inorganic Hybrid Perovskite Light-Emitting Diodes. <i>Scientific Reports</i> , 2018 , 8, 15799	4.9	15
6	Bright and efficient light-emitting diodes based on perovskite quantum dots with formamidinium-methylamine hybrid cations. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 454003	3	3
5	Alloyed multi-shell quantum dots with tunable dual emission. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11280-11286	7.1	6
4	Optically Active CdSe-Dot/CdS-Rod Nanocrystals with Induced Chirality and Circularly Polarized Luminescence. <i>ACS Nano</i> , 2018 , 12, 5341-5350	16.7	73
3	32-4: In-situ Polymerization of Polystyrene for Synthesis of Quantum Dots Composite Particle for Wide Color Gamut Display. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 459-462	0.5	3
2	Heavy Metal Free Nanocrystals with Near Infrared Emission Applying in Luminescent Solar Concentrator. <i>Solar Rrl</i> , 2017 , 1, 1700041	7.1	35
1	High Quantum Yield Blue InP/ZnS/ZnS Quantum Dots Based on Bromine Passivation for Efficient Blue Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2200685	8.1	6