Wenyu Ji

List of Publications by Year
in descending order

51 papers	2,517 citations	218677 26 h-index	189892 50 g-index
51 all docs	51 docs citations	51 times ranked	3237 citing authors

#	Article	IF	Citations
1	Toward Efficient Orange Emissive Carbon Nanodots through Conjugated sp²â€Domain Controlling and Surface Charges Engineering. Advanced Materials, 2016, 28, 3516-3521.	21.0	583
2	Hydroxyl-Terminated CuInS₂ Based Quantum Dots: Toward Efficient and Bright Light Emitting Diodes. Chemistry of Materials, 2016, 28, 1085-1091.	6.7	155
3	Highly Controllable and Efficient Synthesis of Mixed-Halide CsPbX₃ (X = Cl, Br, I) Perovskite QDs toward the Tunability of Entire Visible Light. ACS Applied Materials & Interfaces, 2017, 9, 33020-33028.	8.0	132
4	Ultrastable Quantum-Dot Light-Emitting Diodes by Suppression of Leakage Current and Exciton Quenching Processes. ACS Applied Materials & Interfaces, 2016, 8, 31385-31391.	8.0	119
5	Electrostatic Assembly Guided Synthesis of Highly Luminescent Carbonâ€Nanodots@BaSO₄ Hybrid Phosphors with Improved Stability. Small, 2017, 13, 1602055.	10.0	118
6	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
7	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
8	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
9	The work mechanism and sub-bandgap-voltage electroluminescence in inverted quantum dot light-emitting diodes. Scientific Reports, 2014, 4, 6974.	3.3	73
10	Exciton Relaxation Dynamics in Photo-Excited CsPbI3 Perovskite Nanocrystals. Scientific Reports, 2016, 6, 29442.	3.3	69
11	Efficient Quantum Dot Light-Emitting Diodes by Controlling the Carrier Accumulation and Exciton Formation. ACS Applied Materials & Interfaces, 2014, 6, 14001-14007.	8.0	68
12	A review on the electroluminescence properties of quantum-dot light-emitting diodes. Organic Electronics, 2021, 90, 106086.	2.6	67
13	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
14	Inverted CdSe/CdS/ZnS quantum dot light emitting devices with titanium dioxide as an electron-injection contact. Nanoscale, 2013, 5, 3474.	5.6	47
15	Top-emitting quantum dots light-emitting devices employing microcontact printing with electricfield-independent emission. Scientific Reports, 2016, 6, 22530.	3.3	46
16	Highly Luminescent Carbonâ€Nanoparticleâ€Based Materials: Factors Influencing Photoluminescence Quantum Yield. Particle and Particle Systems Characterization, 2014, 31, 1175-1182.	2.3	44
17	Vacuum-free transparent quantum dot light-emitting diodes with silver nanowire cathode. Scientific Reports, 2015, 5, 12499.	3.3	44
18	Yellow-Emitting Carbon Nanodots and Their Flexible and Transparent Films for White LEDs. ACS Applied Materials & Interfaces, 2016, 8, 33102-33111.	8.0	43

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19	Highly efficient flexible quantum-dot light emitting diodes with an ITO/Ag/ITO cathode. Journal of Materials Chemistry C, 2017, 5, 4543-4548.	5.5	42
20	Over 800% efficiency enhancement of all-inorganic quantum-dot light emitting diodes with an ultrathin alumina passivating layer. Nanoscale, 2018, 10, 11103-11109.	5.6	36
21	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
22	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
23	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
24	The nanotoxicity investigation of optical nanoparticles to cultured cells in vitro. Toxicology Reports, 2014, 1, 137-144.	3.3	30
25	Influence of Shell Thickness on the Performance of NiO-Based All-Inorganic Quantum Dot Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 14894-14900.	8.0	30
26	Low turn-on voltage and highly bright Agâ€“Inâ€“Znâ€“S quantum dot light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 4683-4690.	5.5	28
27	Research on the influence of polar solvents on CsPbBr₃ perovskite QDs. RSC Advances, 2021, 11, 27333-27337.	3.6	27
28	Efficient CuInS₂/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
29	Efficient Structure for InP/ZnS-Based Electroluminescence Device by Embedding the Emitters in the Electron-Dominating Interface. Journal of Physical Chemistry Letters, 2020, 11, 1835-1839.	4.6	24
30	Improving efficiency roll-off in phosphorescent OLEDs by modifying the exciton lifetime. Optics Letters, 2012, 37, 2019.	3.3	21
31	Exploring Electronic and Excitonic Processes toward Efficient Deep-Red CuInS₂/ZnS Quantum-Dot Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2019, 11, 36925-36930.	8.0	21
32	Electronic and Excitonic Processes in Quantum Dot Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 2878-2884.	4.6	21
33	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
34	Localized Excitonic Electroluminescence from Carbon Nanodots. Journal of Physical Chemistry Letters, 2022, 13, 1587-1595.	4.6	18
35	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
36	Ultrafast Carrier Dynamics and Hot Electron Extraction in Tetrapod-Shaped CdSe Nanocrystals. ACS Applied Materials & Interfaces, 2015, 7, 7938-7944.	8.0	14

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37	Highâ€Performance Blue Quantumâ€Dot Lightâ€Emitting Diodes by Alleviating Electron Trapping. Advanced Optical Materials, 2022, 10, .	7.3	14
38	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
39	Cadmium-free quantum dot light emitting devices: energy-transfer realizing pure blue emission. Optics Letters, 2013, 38, 7.	3.3	13
40	Highly Sensitive Homogeneous Immunoassays Based on Construction of Silver Triangular Nanoplates-Quantum Dots FRET System. Scientific Reports, 2016, 6, 26534.	3.3	12
41	Color-Tunable Alternating-Current Quantum Dot Light-Emitting Devices. ACS Applied Materials & Interfaces, 2021, 13, 45815-45821.	8.0	12
42	Unraveling the effect of shell thickness on charge injection in blue quantum-dot light-emitting diodes. Applied Physics Letters, 2021, 119, .	3.3	12
43	Dual-encryption based on facilely synthesized supra-(carbon nanodots) with water-induced enhanced luminescence. RSC Advances, 2016, 6, 79620-79624.	3.6	11
44	Temperature-dependent recombination dynamics and electroluminescence characteristics of colloidal CdSe/ZnS core/shell quantum dots. Applied Physics Letters, 2021, 119, .	3.3	10
45	Suppressed efficiency roll-off in blue light-emitting diodes by balancing the spatial charge distribution. Journal of Materials Chemistry C, 2020, 8, 12927-12934.	5.5	10
46	Polyethylenimine modified sol-gel ZnO electron-transporting layers for quantum-dot light-emitting diodes. Organic Electronics, 2022, 100, 106393.	2.6	9
47	Efficient, air-stable quantum dots light-emitting devices with MoO3 modifying the anode. Journal of Luminescence, 2013, 143, 442-446.	3.1	8
48	Highly efficient organic light-emitting devices by introducing traps in the hole-injection layer. RSC Advances, 2013, 3, 14616.	3.6	8
49	Highly efficient Agâ€"Inâ€"Znâ€"S quantum dot light-emitting diodes with a hole-spacing interlayer. Organic Electronics, 2020, 84, 105809.	2.6	8
50	On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, .	10.7	8
51	Unravelling the bending stability of flexible quantum-dot light-emitting diodes. Flexible and Printed Electronics, 2022, 7, 015006.	2.7	4