Xuyong Yang

List of Publications by Year
in descending order

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		101543	110387
105	4,653	36	64
papers	citations	h-index	g-index

107	107	107	4771
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trifluoroacetate induced small-grained CsPbBr3 perovskite films result in efficient and stable light-emitting devices. Nature Communications, 2019, 10, 665.	12.8	350
2	Full Visible Range Covering InP/ZnS Nanocrystals with High Photometric Performance and Their Application to White Quantum Dot Lightâ€Emitting Diodes. Advanced Materials, 2012, 24, 4180-4185.	21.0	283
3	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. Nature Communications, 2021, 12, 1246.	12.8	274
4	Recent advances in quantum dot-based light-emitting devices: Challenges and possible solutions. Materials Today, 2019, 24, 69-93.	14.2	213
5	A Layer-by-Layer Growth Strategy for Large-Size InP/ZnSe/ZnS Coreâ€“Shell Quantum Dots Enabling High-Efficiency Light-Emitting Diodes. Chemistry of Materials, 2018, 30, 8002-8007.	6.7	159
6	Highly Flexible, Electrically Driven, Top-Emitting, Quantum Dot Light-Emitting Stickers. ACS Nano, 2014, 8, 8224-8231.	14.6	135
7	Core/Shell Perovskite Nanocrystals: Synthesis of Highly Efficient and Environmentally Stable FAPbBr₃/CsPbBr₃ for LED Applications. Advanced Functional Materials, 2020, 30, 1910582.	14.9	135
8	Synthesis and characterization of new red phosphors for white LED applications. Journal of Materials Chemistry, 2009, 19, 3771.	6.7	123
9	Highâ€Efficiency and Stable Quantum Dot Lightâ€Emitting Diodes Enabled by a Solutionâ€Processed Metalâ€Doped Nickel Oxide Hole Injection Interfacial Layer. Advanced Functional Materials, 2017, 27, 1704278.	14.9	114
10	A Multi-functional Molecular Modifier Enabling Efficient Large-Area Perovskite Light-Emitting Diodes. Joule, 2020, 4, 1977-1987.	24.0	111
11	Ultrastable Inorganic Perovskite Nanocrystals Coated with a Thick Long-Chain Polymer for Efficient White Light-Emitting Diodes. Chemistry of Materials, 2019, 31, 1936-1940.	6.7	107
12	Stable, Strongly Emitting Cesium Lead Bromide Perovskite Nanorods with High Optical Gain Enabled by an Intermediate Monomer Reservoir Synthetic Strategy. Nano Letters, 2019, 19, 6315-6322.	9.1	101
13	Solution Processed Tungsten Oxide Interfacial Layer for Efficient Holeâ€Injection in Quantum Dot Lightâ€Emitting Diodes. Small, 2014, 10, 247-252.	10.0	96
14	Trimethylsilyl Iodine-Mediated Synthesis of Highly Bright Red-Emitting CsPbI₃ Perovskite Quantum Dots with Significantly Improved Stability. Chemistry of Materials, 2019, 31, 881-889.	6.7	88
15	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910530.	14.9	72
16	Light Extraction Efficiency Enhancement of Colloidal Quantum Dot Lightâ€Emitting Diodes Using Largeâ€Scale Nanopillar Arrays. Advanced Functional Materials, 2014, 24, 5977-5984.	14.9	68
17	Core/Shell Metal Halide Perovskite Nanocrystals for Optoelectronic Applications. Advanced Functional Materials, 2021, 31, 2100438.	14.9	67
18	Stable, Efficient, and All-Solution-Processed Quantum Dot Light-Emitting Diodes with Double-Sided Metal Oxide Nanoparticle Charge Transport Layers. ACS Applied Materials & Interfaces, 2014, 6, 495-499.	8.0	66

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19	All-solution processed inverted green quantum dot light-emitting diodes with concurrent high efficiency and long lifetime. Materials Horizons, 2019, 6, 2009-2015.	12.2	66
20	Efficient Deep-Blue Electrofluorescence with an External Quantum Efficiency Beyond 10%. IScience, 2018, 9, 532-541.	4.1	65
21	A bright cadmium-free, hybrid organic/quantum dot white light-emitting diode. Applied Physics Letters, 2012, 101, .	3.3	64
22	Blue light-emitting diodes based on halide perovskites: Recent advances and strategies. Materials Today, 2021, 51, 222-246.	14.2	64
23	Investigation of near infrared reflectance by tuning the shape of SnO2 nanoparticles. Journal of Alloys and Compounds, 2010, 496, 261-264.	5.5	62
24	Electroluminescence Efficiency Enhancement in Quantum Dot Lightâ€Emitting Diodes by Embedding a Silver Nanoisland Layer. Advanced Optical Materials, 2015, 3, 1439-1445.	7.3	59
25	Colloidal quantum-dot LEDs with a solution-processed copper oxide (CuO) hole injection layer. Organic Electronics, 2015, 26, 245-250.	2.6	53
26	Improving Efficiency and Stability in Quasi-2D Perovskite Light-Emitting Diodes by a Multifunctional LiF Interlayer. ACS Applied Materials & Interfaces, 2020, 12, 43018-43023.	8.0	53
27	Moleculeâ€Induced pâ€Doping in Perovskite Nanocrystals Enables Efficient Colorâ€Saturated Red Lightâ€Emitting Diodes. Small, 2020, 16, e2001062.	10.0	53
28	Efficient Tandem Quantumâ€Dot LEDs Enabled by An Inorganic Semiconductorâ€Metalâ€Dielectric Interconnecting Layer Stack. Advanced Materials, 2022, 34, e2108150.	21.0	53
29	High-efficiency all-inorganic full-colour quantum dot light-emitting diodes. Nano Energy, 2018, 46, 229-233.	16.0	52
30	Highâ€Efficiency, Solutionâ€Processed White Quantum Dot Lightâ€Emitting Diodes with Serially Stacked Red/Green/Blue Units. Advanced Optical Materials, 2018, 6, 1800652.	7.3	48
31	Metal Halide Perovskite Nanorods: Shape Matters. Advanced Materials, 2020, 32, e2002736.	21.0	48
32	Solution-Processed Double-Junction Quantum-Dot Light-Emitting Diodes with an EQE of Over 40%. ACS Applied Materials & Interfaces, 2019, 11, 1065-1070.	8.0	44
33	Europium (II)-Doped Microporous Zeolite Derivatives with Enhanced Photoluminescence by Isolating Active Luminescence Centers. ACS Applied Materials & Interfaces, 2011, 3, 4431-4436.	8.0	43
34	Quantum Dot Light-Emitting Diode with Quantum Dots Inside the Hole Transporting Layers. ACS Applied Materials & Interfaces, 2013, 5, 6535-6540.	8.0	42
35	Amine-Terminated Carbon Dots Linking Hole Transport Layer and Vertically Oriented Quasi-2D Perovskites through Hydrogen Bonds Enable Efficient LEDs. ACS Nano, 2022, 16, 9679-9690.	14.6	41
36	The investigation of optical properties by doping halogen in the BaMoO4:Pr3+ phosphor system. Journal of Alloys and Compounds, 2009, 479, 307-309.	5.5	39

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37	Highly efficient, all-solution-processed, flexible white quantum dot light-emitting diodes. Journal of Materials Chemistry C, 2018, 6, 9642-9648.	5.5	38
38	AC-driven, color- and brightness-tunable organic light-emitting diodes constructed from an electron only device. Organic Electronics, 2013, 14, 3195-3200.	2.6	36
39	Two-Color Single Hybrid Plasmonic Nanoemitters with Real Time Switchable Dominant Emission Wavelength. Nano Letters, 2015, 15, 7458-7466.	9.1	35
40	Fast Postmoisture Treatment of Luminescent Perovskite Films for Efficient Lightâ€Emitting Diodes. Small, 2018, 14, e1703410.	10.0	35
41	3D Photoluminescent Nanostructures Containing Quantum Dots Fabricated by Twoâ€Photon Polymerization: Influence of Quantum Dots on the Spatial Resolution of Laser Writing. Advanced Materials Technologies, 2019, 4, 1800522.	5.8	35
42	Lattice Distortion in Mixed-Anion Lead Halide Perovskite Nanorods Leads to their High Fluorescence Anisotropy. , 2020, 2, 814-820.		33
43	Hybrid plasmonic nano-emitters with controlled single quantum emitter positioning on the local excitation field. Nature Communications, 2020, 11, 3414.	12.8	33
44	Allâ€Inorganic Quantum Dot Lightâ€Emitting Diodes with Suppressed Luminance Quenching Enabled by Chloride Passivated Tungsten Phosphate Hole Transport Layers. Small, 2021, 17, e2100030.	10.0	33
45	Quasiâ€Shellâ€Growth Strategy Achieves Stable and Efficient Green InP Quantum Dot Lightâ€Emitting Diodes. Advanced Science, 2022, 9, .	11.2	33
46	Facile Synthesis of Luminescent AgInS₂â€“ZnS Solid Solution Nanorods. Small, 2013, 9, 2689-2695.	10.0	32
47	Iodide capped PbS/CdS core-shell quantum dots for efficient long-wavelength near-infrared light-emitting diodes. Scientific Reports, 2017, 7, 14741.	3.3	32
48	Boosting the Efficiency of NiO_x-Based Perovskite Light-Emitting Diodes by Interface Engineering. ACS Applied Materials & Interfaces, 2020, 12, 53528-53536.	8.0	32
49	Improved quantum dot light-emitting diodes with a cathode interfacial layer. Organic Electronics, 2016, 32, 89-93.	2.6	31
50	Transition metal oxides on organic semiconductors. Organic Electronics, 2014, 15, 871-877.	2.6	30
51	White-light-emitting Cu,Mn co-doped Znâ€“Inâ€“S/ZnS quantum dots with high stability and their electroluminescence. Journal of Materials Chemistry C, 2017, 5, 10533-10542.	5.5	30
52	Promoted Hole Transport Capability by Improving Lateral Current Spreading for Highâ€Efficiency Quantum Dot Lightâ€Emitting Diodes. Advanced Science, 2020, 7, 2001760.	11.2	30
53	Efficient Allâ€Solutionâ€Processed Perovskite Lightâ€Emitting Diodes Enabled by Smallâ€Molecule Doped Electron Injection Layers. Advanced Optical Materials, 2020, 8, 1900567.	7.3	25
54	Bifunctional highly fluorescent hollow porous microspheres made of BaMoO4â€‰:â€‰Pr3+ nanocrystals via a template-free synthesis. Journal of Materials Chemistry, 2011, 21, 9009.	6.7	24

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55	A Multifunctional Ionic Liquid Additive Enabling Stable and Efficient Perovskite Lightâ€Emitting Diodes. Small, 2022, 18, e2200498.	10.0	24
56	Mixed-Dimensional MXene-Based Composite Electrodes Enable Mechanically Stable and Efficient Flexible Perovskite Light-Emitting Diodes. Nano Letters, 2022, 22, 4246-4252.	9.1	24
57	A seed-mediated and double shell strategy to realize large-size ZnSe/ZnS/ZnS quantum dots for high color purity blue light-emitting diodes. Nanoscale, 2021, 13, 4562-4568.	5.6	23
58	Light-emitting field-effect transistors with EQE over 20% enabled by a dielectric-quantum dots-dielectric sandwich structure. Science Bulletin, 2022, 67, 529-536.	9.0	23
59	A Promising Deep Red Phosphor AgLaMo[sub 2]O[sub 8]:Pr[sup 3+] with Blue Excitation for White LED Application. Journal of the Electrochemical Society, 2010, 157, H278.	2.9	22
60	A quinoxaline based N-heteroacene interfacial layer for efficient hole-injection in quantum dot light-emitting diodes. Nanoscale, 2015, 7, 11531-11535.	5.6	22
61	Nitrogen-Doped ZnO Film Fabricated Via Rapid Low-Temperature Atomic Layer Deposition for High-Performance ZnON Transistors. IEEE Transactions on Electron Devices, 2018, 65, 3283-3290.	3.0	22
62	Efficient and Stable Inverted Quantum Dot Light-Emitting Diodes Enabled by An Inorganic Copper-Doped Tungsten Phosphate Hole-Injection Layer. ACS Applied Materials & Interfaces, 2019, 11, 40267-40273.	8.0	22
63	Towards all-solution-processed top-illuminated flexible organic solar cells using ultrathin Ag-modified graphite-coated poly(ethylene terephthalate) substrates. Nanophotonics, 2019, 8, 297-306.	6.0	22
64	Photoluminescence of Eu2+-activated Na1â˜'xAl1â˜'xSi1+xO4 upon UV excitation. Journal of Rare Earths, 2010, 28, 34-36.	4.8	21
65	Synthesis of WO_nâ€WX₂ (n=2.7, 2.9; X=S, Se) Heterostructures for Highly Efficient Green Quantum Dot Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2017, 56, 10486-10490.	13.8	21
66	Surface modification of all-inorganic halide perovskite nanorods by a microscale hydrophobic zeolite for stable and sensitive laser humidity sensing. Nanoscale, 2020, 12, 13360-13367.	5.6	21
67	Perovskite nanocrystals-polymer composites with a micro/nano structured superhydrophobic surface for stable and efficient white light-emitting diodes. Chemical Engineering Journal, 2022, 437, 135303.	12.7	20
68	Self-Assembly and Photoluminescence Characterization of CaMoO[sub 4]:Eu[sup 3+],Na[sup +] Superstructure via a Facile Surfactant-Free Hydrothermal Method. Journal of the Electrochemical Society, 2011, 158, K74.	2.9	19
69	High-performance light-soaking-free polymer solar cells based on a LiF modified ZnO electron extraction layer. Journal of Materials Chemistry C, 2019, 7, 9354-9361.	5.5	18
70	Suppressing the Cation Exchange at the Core/Shell Interface of InP Quantum Dots by a Selenium Shielding Layer Enables Efficient Green Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 15401-15406.	8.0	18
71	Preparation and optical properties of Eu3+/Eu2+ in phosphors based on exchanging Eu3+-zeolite 13X. Journal of Alloys and Compounds, 2009, 480, 867-869.	5.5	16
72	Tenâ€Gramâ€Scale Synthesis of FAPbX₃ Perovskite Nanocrystals by a Highâ€Power Roomâ€Temperature Ultrasonicâ€Assisted Strategy and Their Electroluminescence. Advanced Materials Technologies, 2020, 5, 1901089.	5.8	16

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73	Boosting Efficiency of InP Quantum Dots-Based Light-Emitting Diodes by an In-Doped ZnO Electron Transport Layer. IEEE Electron Device Letters, 2021, 42, 1806-1809.	3.9	15
74	Bright violet-to-aqua-emitting cadmium-free Ag-doped Znâ€“Gaâ€“S quantum dots with high stability. Chemical Communications, 2018, 54, 4176-4179.	4.1	13
75	Highly bright and stable white-light-emitting cadmium-free Ag,Mn co-doped Znâ€“Inâ€“S/ZnS quantum dots and their electroluminescence. Journal of Materials Chemistry C, 2018, 6, 10233-10240.	5.5	13
76	Boosting the efficiency and stability of green InP quantum dot light emitting diodes by interface dipole modulation. Journal of Materials Chemistry C, 2022, 10, 8192-8198.	5.5	12
77	Small-size and monodispersed red-emitting Pr³⁺ doped barium molybdate nanocrystals with ultrahigh color purity. RSC Advances, 2016, 6, 65311-65314.	3.6	11
78	Solution-processed ZnO/MoS2 quantum dots electron extraction layer for high performance inverted organic photovoltaics. Organic Electronics, 2019, 75, 105381.	2.6	11
79	Stepwise Bi-Layer Hole-Transport Interlayers With Deep Highest Occupied Molecular Orbital Level for Efficient Green Quantum Dot Light-Emitting Diodes. IEEE Electron Device Letters, 2019, 40, 1139-1142.	3.9	10
80	Atomically thin heavy-metal-free ZnTe nanoplatelets formed from magic-size nanoclusters. Nanoscale Advances, 2020, 2, 3316-3322.	4.6	9
81	Synthesis and electroluminescence of novel white fluorescence quantum dots based on a Znâ€“Gaâ€“S host. Chemical Communications, 2019, 55, 14206-14209.	4.1	8
82	Lowâ€Threshold Amplified Spontaneous Emission in Blue Quantum Dots Enabled by Effectively Suppressing Auger Recombination. Advanced Optical Materials, 2021, 9, 2100068.	7.3	8
83	Excitonic optical properties of cesium trifluoroacetate induced CsPbBr3 thin film with anti-solvent treatment. Optical Materials, 2020, 106, 110005.	3.6	8
84	On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, .	10.7	8
85	Synthesis of WO_nâ€WX₂ (n=2.7, 2.9; X=S, Se) Heterostructures for Highly Efficient Green Quantum Dot Lightâ€Emitting Diodes. Angewandte Chemie, 2017, 129, 10622-10626.	2.0	7
86	InP quantum dots-based electroluminescent devices. Chinese Physics B, 2019, 28, 118103.	1.4	7
87	The solution-processed fabrication of perovskite light-emitting diodes for low-cost and commercial applications. Journal of Materials Chemistry C, 2021, 9, 12037-12045.	5.5	7
88	Halide perovskite based light-emitting diodes: a scaling up perspective. Journal of Materials Chemistry C, 2021, 9, 7532-7538.	5.5	7
89	A Study on Solution-Processed Y2O3 Films Modified by Atomic Layer Deposition Al2O3 as Dielectrics in ZnO Thin Film Transistor. Coatings, 2021, 11, 969.	2.6	6
90	Low-Voltage Hf-ZnO Thin Film Transistors With Ag Nanowires Gate Electrode and Their Application in Logic Circuit. IEEE Journal of the Electron Devices Society, 2020, 8, 152-156.	2.1	5

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91	Solventâ€Regulated Electronic Structure and Morphology of Inorganic Hole Injection Layers for Efficient Quantum Dot Lightâ€Emitting Diodes. Advanced Photonics Research, 2021, 2, 2000124.	3.6	5
92	Light-Emitting Diodes: Solution Processed Tungsten Oxide Interfacial Layer for Efficient Hole-Injection in Quantum Dot Light-Emitting Diodes (Small 2/2014). Small, 2014, 10, 246-246.	10.0	4
93	Applying InP/ZnS Green-Emitting Quantum Dots and InP/ZnSe/ZnS Red-Emitting Quantum Dots to Prepare WLED With Enhanced Photoluminescence Performances. IEEE Access, 2020, 8, 154683-154690.	4.2	4
94	Enhancing the Light Outputâ€Coupling of Inverted Topâ€Emitting Organic Lightâ€Emitting Diodes by Using the Localized Surface Plasmon Resonance of Ag Nanoparticles. Advanced Materials Interfaces, 2022, 9, .	3.7	4
95	Allâ€Inorganic Perovskite Nanocrystals with Remarkably Enhanced Optoelectronic Properties Realized by an Alkeneâ€Free Solvent Strategy and Their Electroluminescence. Advanced Optical Materials, 2022, 10, .	7.3	2
96	Efficient all-inorganic perovskite light-emitting diodes with a multifunctional potassium bromide doped hole transport layer. Optical Materials Express, 2022, 12, 1708.	3.0	2
97	A mixed solvent strategy enabling efficient all-solution-processed perovskite light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 8964-8971.	5.5	2
98	High-quality InP/ZnS nanocrystals with high photometric performance and their application to white quantum dot light-emitting diodes. , 2012, , .		1
99	Metal Halide Perovskites: Metal Halide Perovskite Nanorods: Shape Matters (Adv. Mater. 46/2020). Advanced Materials, 2020, 32, 2070348.	21.0	1
100	Editorial: Advanced Nanomaterials for Light-Emitting Diodes and Solar Cells. Frontiers in Chemistry, 2021, 9, 741760.	3.6	1
101	LEDs: Highâ€Efficiency and Stable Quantum Dot Lightâ€Emitting Diodes Enabled by a Solutionâ€Processed Metalâ€Doped Nickel Oxide Hole Injection Interfacial Layer (Adv. Funct. Mater. 42/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
102	44.3: Invited Paper: Solutionâ€processed inorganic charge transport layers for efficient and stable quantumâ€dot LEDs. Digest of Technical Papers SID International Symposium, 2019, 50, 490-490.	0.3	0
103	High color rendering index white LEDs fabricated using InP/ZnS green-emitting quantum dots and InP/ZnSe/ZnS red-emitting quantum dots. , 2019, , .		0
104	37.1: Invited Paper: High Colorâ€purity Lightâ€emitting Diodes Based on Quantum dots/perovskites. Digest of Technical Papers SID International Symposium, 2021, 52, 477-477.	0.3	0
105	Efficient Tandem Quantumâ€Dot LEDs Enabled by An Inorganic Semiconductorâ€Metalâ€Dielectric Interconnecting Layer Stack (Adv. Mater. 4/2022). Advanced Materials, 2022, 34, .	21.0	0