

Donglei Zhou

List of Publications by Year in descending order

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67
papers

3,799
citations

159358

30
h-index

128067

60
g-index

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all docs

67
docs citations

67
times ranked

3886
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping Lanthanide into Perovskite Nanocrystals: Highly Improved and Expanded Optical Properties. <i>Nano Letters</i> , 2017, 17, 8005-8011.	4.5	672
2	Cerium and Ytterbium Codoped Halide Perovskite Quantum Dots: A Novel and Efficient Downconverter for Improving the Performance of Silicon Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1704149.	11.1	389
3	Local Field Modulation Induced Three-Order Upconversion Enhancement: Combining Surface Plasmon Effect and Photonic Crystal Effect. <i>Advanced Materials</i> , 2016, 28, 2518-2525.	11.1	240
4	Observation of Considerable Upconversion Enhancement Induced by Cu ₂ S Plasmon Nanoparticles. <i>ACS Nano</i> , 2016, 10, 5169-5179.	7.3	149
5	Large Upconversion Enhancement in the Au-Ag Alloy/NaYF ₄ : Yb ³⁺ , Tm ³⁺ /Er ³⁺ Composite Films, and Fingerprint Identification. <i>Advanced Functional Materials</i> , 2015, 25, 5462-5471.	7.8	135
6	Samarium-Doped Metal Halide Perovskite Nanocrystals for Single-Component Electroluminescent White Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 2131-2139.	8.8	124
7	Europium-Doped Lead-Free Cs ₃ Bi ₂ Br ₉ Perovskite Quantum Dots and Ultrasensitive Cu ²⁺ Detection. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8397-8404.	3.2	114
8	Plasmonic Photonic Crystals Induced Two-Order Fluorescence Enhancement of Blue Perovskite Nanocrystals and Its Application for High-Performance Flexible Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1804429.	7.8	106
9	Ti ₃ C ₂ MXene quantum dots/TiO ₂ inverse opal heterojunction electrode platform for superior photoelectrochemical biosensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 289, 131-137.	4.0	101
10	Impact of Host Composition, Codoping, or Tridoping on Quantum-Cutting Emission of Ytterbium in Halide Perovskite Quantum Dots and Solar Cell Applications. <i>Nano Letters</i> , 2019, 19, 6904-6913.	4.5	100
11	Dual Interfacial Modification Engineering with 2D MXene Quantum Dots and Copper Sulphide Nanocrystals Enabled High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2003295.	7.8	100
12	Synergistic Upconversion Enhancement Induced by Multiple Physical Effects and an Angle-Dependent Anticounterfeit Application. <i>Chemistry of Materials</i> , 2017, 29, 6799-6809.	3.2	81
13	Impurity Ions Codoped Cesium Lead Halide Perovskite Nanocrystals with Bright White Light Emission toward Ultraviolet-White Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39040-39048.	4.0	78
14	Extremely efficient quantum-cutting Cr ³⁺ , Ce ³⁺ , Yb ³⁺ tridoped perovskite quantum dots for highly enhancing the ultraviolet response of Silicon photodetectors with external quantum efficiency exceeding 70%. <i>Nano Energy</i> , 2020, 78, 105278.	8.2	73
15	Plasmon-Enhanced Upconversion Luminescence on Vertically Aligned Gold Nanorod Monolayer Supercrystals. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11667-11674.	4.0	71
16	Semiconductor plasmon enhanced monolayer upconversion nanoparticles for high performance narrowband near-infrared photodetection. <i>Nano Energy</i> , 2019, 61, 211-220.	8.2	71
17	Enhanced Photoluminescence and Photoresponsiveness of Eu ³⁺ Ions-Doped CsPbCl ₃ Perovskite Quantum Dots under High Pressure. <i>Advanced Functional Materials</i> , 2021, 31, 2100930.	7.8	71
18	Semiconductor plasmon-sensitized broadband upconversion and its enhancement effect on the power conversion efficiency of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16559-16567.	5.2	70

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19	Dye Sensitization and Local Surface Plasmon Resonance-Enhanced Upconversion Luminescence for Efficient Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24737-24746.	4.0	65
20	A novel approach for designing efficient broadband photodetectors expanding from deep ultraviolet to near infrared. <i>Light: Science and Applications</i> , 2022, 11, 91.	7.7	61
21	Semiconductor Plasmon Induced Up-Conversion Enhancement in $m\text{Cu}_2\text{S}@SiO_2@Y_2O_3:Yb^{3+}/Er^{3+}$ Core-Shell Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35226-35233.	5.9	59
22	Synergistic Effects of Multifunctional Lanthanides Doped CsPbBrCl_2 Quantum Dots for Efficient and Stable MAPbI_3 Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	53
23	Learning From Plants: Lycopene Additive Passivation toward Efficient and "Fresh" Perovskite Solar Cells with Oxygen and Ultraviolet Resistance. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	50
24	Paper-based upconversion fluorescence resonance energy transfer biosensor for sensitive detection of multiple cancer biomarkers. <i>Scientific Reports</i> , 2016, 6, 23406.	1.6	45
25	320-fold luminescence enhancement of $[\text{Ru}(\text{dpp})_3]\text{Cl}_2$ dispersed on PMMA opal photonic crystals and highly improved oxygen sensing performance. <i>Light: Science and Applications</i> , 2014, 3, e209-e209.	7.7	42
26	Upconversion ladder enabled super-sensitive narrowband near-infrared photodetectors based on rare earth doped fluorine perovskite nanocrystals. <i>Nano Energy</i> , 2020, 76, 105103.	8.2	40
27	Highly sensitive and selective detection of mercury ions based on up-conversion FRET from $\text{NaYF}_4:Yb^{3+}/Er^{3+}$ nanophosphors to CdTe quantum dots. <i>RSC Advances</i> , 2015, 5, 99099-99106.	1.7	36
28	Fabrication of Au-Ag nanocage@ NaYF_4 @ $\text{NaYF}_4:Yb,Er$ Core-Shell Hybrid and its Tunable Upconversion Enhancement. <i>Scientific Reports</i> , 2017, 7, 41079.	1.6	33
29	Remarkable Enhancement of Upconversion Luminescence on Cap-Ag/PMMA Ordered Platform and Trademark Anticounterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37128-37135.	4.0	33
30	Bright red YCl_3 -promoted CsPbI_3 perovskite nanorods towards efficient light-emitting diode. <i>Nano Energy</i> , 2021, 81, 105615.	8.2	33
31	Size-dependent downconversion near-infrared emission of $\text{NaYF}_4:Yb^{3+},Er^{3+}$ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2451-2458.	2.7	31
32	Plasmonic $\text{Cu}_{1.8}\text{S}$ nanocrystals as saturable absorbers for passively Q-switched erbium-doped fiber lasers. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4034-4039.	2.7	31
33	Broadband Ultraviolet Photodetectors Based on Cerium Doped Lead-Free Cs_3MnBr_5 Metal Halide Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4980-4987.	3.2	29
34	Rare earth doping in perovskite luminescent nanocrystals and photoelectric devices. <i>Nano Select</i> , 2022, 3, 531-554.	1.9	29
35	Remarkable enhancement of upconversion luminescence on 2-D anodic aluminum oxide photonic crystals. <i>Nanoscale</i> , 2016, 8, 10004-10009.	2.8	28
36	Self-powered UV photodetectors based on CsPbCl_3 nanowires enabled by the synergistic effect of acetate and lanthanide ion passivation. <i>Chemical Engineering Journal</i> , 2021, 426, 131310.	6.6	28

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37	Efficient chromium ion passivated CsPbCl ₃ :Mn perovskite quantum dots for photon energy conversion in perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12323-12329.	2.7	23
38	In situ preparation of two-dimensional ytterbium ions doped all-inorganic perovskite nanosheets for high-performance visual dual-bands photodetectors. <i>Nano Energy</i> , 2022, 93, 106815.	8.2	22
39	Dual Modification Engineering via Lanthanide-Based Halide Quantum Dots and Black Phosphorus Enabled Efficient Perovskite Solar Cells with High Open-Circuit Voltage of 1.235 V. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	22
40	Toward Broad Spectral Response Inverted Perovskite Solar Cells: Insulating Quantum-Cutting Perovskite Nanophosphors and Multifunctional Ternary Organic Bulk-Heterojunction. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	21
41	Modulation of upconversion white light emission in PMMA/NaYF ₄ :Yb ³⁺ , Er ³⁺ , Tm ³⁺ composite photonic crystals. <i>Optics Letters</i> , 2014, 39, 4619.	1.7	18
42	Label-free photoelectrochemical biosensor for alpha-fetoprotein detection based on Au/CsxWO ₃ heterogeneous films. <i>Talanta</i> , 2021, 225, 122074.	2.9	17
43	Highly modified spontaneous emission in NaY(MoO ₄) ₂ :Yb ³⁺ /Er ³⁺ inverse opal photonic crystals. <i>RSC Advances</i> , 2015, 5, 104862-104869.	1.7	16
44	Plasmon multiwavelength-sensitized luminescence enhancement of highly transparent Ag/YVO ₄ :Eu ³⁺ /PMMA film. <i>Journal of Luminescence</i> , 2018, 200, 158-163.	1.5	14
45	Highly efficient ligand-modified manganese ion doped CsPbCl ₃ perovskite quantum dots for photon energy conversion in silicon solar cells. <i>Nanoscale</i> , 2020, 12, 18621-18628.	2.8	14
46	Near-infrared-pumped photon upconversion in CsPbI ₃ and CaF ₂ :Yb ³⁺ /Ho ³⁺ nanocomposites for bio-imaging application. <i>Materials Today Physics</i> , 2021, 21, 100495.	2.9	13
47	Ni ²⁺ and Pr ³⁺ Co-doped CsPbCl ₃ perovskite quantum dots with efficient infrared emission at 1300 nm. <i>Nanoscale</i> , 2021, 13, 16598-16607.	2.8	13
48	Cerium-Doped Perovskite Nanocrystals for Extremely High-Performance Deep-Ultraviolet Photoelectric Detection. <i>Advanced Optical Materials</i> , 2021, 9, 2100423.	3.6	12
49	ZnWO ₄ /ZnWO ₄ :Eu ³⁺ inverse opal photonic crystal scintillator: efficient phosphors in radiation detection. <i>RSC Advances</i> , 2015, 5, 82748-82755.	1.7	11
50	Self-organized helical superstructure of photonic cellulose loaded with upconversion nanoparticles showing modulated luminescence. <i>RSC Advances</i> , 2016, 6, 76231-76236.	1.7	11
51	Simultaneous bottom-up double-layer synergistic optimization by multifunctional fused-ring acceptor with electron-deficient core for stable planar perovskite solar cells with approaching 24% efficiency. <i>Nano Energy</i> , 2022, 99, 107368.	8.2	10
52	Enhanced upconversion luminescence on the plasmonic architecture of Au@Ag nanocages. <i>RSC Advances</i> , 2016, 6, 86297-86300.	1.7	9
53	Efficient Radiative Enhancement in Perovskite Light-Emitting Devices through Involving a Novel Sandwich Localized Surface Plasmon Structure. <i>Small Methods</i> , 2022, 6, e2200163.	4.6	9
54	Introducing ytterbium acetate to luminescent CsPbCl ₃ nanocrystals for enhanced sensitivity of Cu ²⁺ detection. <i>Inorganic Chemistry Frontiers</i> , 2021, 9, 44-50.	3.0	8

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55	Mechanistic studies of CsPbBr ₃ superstructure formation. Journal of Materials Chemistry C, 2021, 9, 14699-14708.	2.7	7
56	Flexible double narrowband near-infrared photodetector based on PMMA/core-shell upconversion nanoparticle composites. Journal of Rare Earths, 2022, 40, 211-217.	2.5	7
57	Synergistic Regulation Effect of Nitrate and Calcium Ions for Highly Luminescent and Robust CsPbI ₃ Perovskite. Small, 2022, 18, e2106147.	5.2	7
58	Narrowband Near-Infrared Photodetectors Based on Perovskite Waveguide Devices. Journal of Physical Chemistry Letters, 2022, 13, 6057-6063.	2.1	7
59	Multi-wavelength pumped upconversion enhancement induced by Cu ₂ S plasmonic nanoparticles in NaYF ₄ @Cu ₂ S core-shell structure. Optics Letters, 2021, 46, 5.	1.7	6
60	Highly Stable and Efficient Mn ²⁺ Doping Zero-Dimension Cs ₂ Zn _x Pb _{1-x} Cl ₄ Alloyed Nanorods toward White Electroluminescent Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 2379-2387.	2.1	5
61	Pressure-Driven Abnormal Emission Blue-Shift of Lead-Free Halide Double Perovskite Cs ₂ AgInCl ₆ Nanocrystals. Inorganic Chemistry, 2022, 61, 6488-6492.	1.9	5
62	Evolution of self-trapped exciton emission tuned by high pressure in 2D all-inorganic cesium lead halide nanosheets. Journal of Materials Chemistry C, 2022, 10, 8711-8718.	2.7	5
63	Injection-seeded high-repetition-rate short-pulse micro-laser based on upconversion nanoparticles. Nanoscale, 2021, 13, 878-885.	2.8	4
64	Dual Interfacial Modification Engineering for Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000652.	3.1	4
65	Interfacial Modification Engineering with Cs ₃ Cu ₂ I ₅ Nanocrystals for Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	3.1	4
66	Tunable concentration-dependent upconversion and downconversion luminescence in NaYF ₄ : Yb ³⁺ , Er ³⁺ @ NaYF ₄ : Yb ³⁺ , Nd ³⁺ core-shell nanocrystals for a dual-mode anti-counterfeiting imaging application. Optics Letters, 2022, 47, 2814.	1.7	3
67	Three-order fluorescence enhancement of perovskite nanocrystals using plasmonic Ag@SiO ₂ nanocomposites. Journal of Materials Chemistry C, 0, , .	2.7	1