

Baodan Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,531
citations

279798

23
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

4964
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency perovskite-polymer bulk heterostructure light-emitting diodes. <i>Nature Photonics</i> , 2018, 12, 783-789.	31.4	715
2	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. <i>Nature Photonics</i> , 2019, 13, 760-764.	31.4	483
3	Blue-Green Color Tunable Solution Processable Organolead Chloride-Bromide Mixed Halide Perovskites for Optoelectronic Applications. <i>Nano Letters</i> , 2015, 15, 6095-6101.	9.1	461
4	High Open-Circuit Voltages in Tin-Rich Low-Bandgap Perovskite-Based Planar Heterojunction Photovoltaics. <i>Advanced Materials</i> , 2017, 29, 1604744.	21.0	212
5	High Circular Polarization of Electroluminescence Achieved via Self-Assembly of a Light-Emitting Chiral Conjugated Polymer into Multidomain Cholesteric Films. <i>ACS Nano</i> , 2017, 11, 12713-12722.	14.6	197
6	Efficient light-emitting diodes from mixed-dimensional perovskites on a fluoride interface. <i>Nature Electronics</i> , 2020, 3, 704-710.	26.0	143
7	Lanthanide-doped inorganic nanoparticles turn molecular triplet excitons bright. <i>Nature</i> , 2020, 587, 594-599.	27.8	135
8	The role of photon recycling in perovskite light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 611.	12.8	121
9	Growth of Nanosized Single Crystals for Efficient Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 3417-3423.	14.6	109
10	Lead-Free Perovskite Semiconductors Based on Germanium-Tin Solid Solutions: Structural and Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5940-5947.	3.1	104
11	A solvent-based surface cleaning and passivation technique for suppressing ionic defects in high-mobility perovskite field-effect transistors. <i>Nature Electronics</i> , 2020, 3, 694-703.	26.0	99
12	Control of Interface Defects for Efficient and Stable Quasi-2D Perovskite Light-Emitting Diodes Using Nickel Oxide Hole Injection Layer. <i>Advanced Science</i> , 2018, 5, 1801350.	11.2	92
13	Circularly Polarized Photoluminescence from Chiral Perovskite Thin Films at Room Temperature. <i>ACS Nano</i> , 2020, 14, 7610-7616.	14.6	86
14	Toward Stable and Efficient Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2022, 32, 2109495.	14.9	77
15	Efficient light-emitting diodes based on oriented perovskite nanoplatelets. <i>Science Advances</i> , 2021, 7, eabg8458.	10.3	68
16	Conjugated Polyelectrolytes as Efficient Hole Transport Layers in Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , 2018, 12, 5826-5833.	14.6	56
17	Excitonic Properties of Low-Band-Gap Lead-Tin Halide Perovskites. <i>ACS Energy Letters</i> , 2019, 4, 615-621.	17.4	51
18	Germanium-lead perovskite light-emitting diodes. <i>Nature Communications</i> , 2021, 12, 4295.	12.8	50

#	ARTICLE	IF	CITATIONS
19	In Situ Atmospheric Deposition of Ultrasmooth Nickel Oxide for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 41849-41854.	8.0	47
20	Triple-Cation-Based Perovskite Photocathodes with AZO Protective Layer for Hydrogen Production Applications. ACS Applied Materials & Interfaces, 2019, 11, 23198-23206.	8.0	46
21	Synthesis of ZnO Nanoparticles with Controlled Shapes, Sizes, Aggregations, and Surface Complex Compounds for Tuning or Switching the Photoluminescence. Crystal Growth and Design, 2015, 15, 3144-3149.	3.0	38
22	High Quality Hybrid Perovskite Semiconductor Thin Films with Remarkably Enhanced Luminescence and Defect Suppression via Quaternary Alkyl Ammonium Salt Based Treatment. Advanced Materials Interfaces, 2017, 4, 1700562.	3.7	32
23	High-Efficiency Dual-Dopant Polymer Light-Emitting Diodes with Ultrafast Inter-fluorophore Energy Transfer. Joule, 2019, 3, 2381-2389.	24.0	29
24	Ultralow-voltage operation of light-emitting diodes. Nature Communications, 2022, 13, .	12.8	23
25	Kinetic Control of Perovskite Thin-Film Morphology and Application in Printable Light-Emitting Diodes. ACS Energy Letters, 2017, 2, 81-87.	17.4	16
26	Direct Probing of Gap States and Their Passivation in Halide Perovskites by High-Sensitivity, Variable Energy Ultraviolet Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 5217-5225.	3.1	12
27	Efficient mini/micro-perovskite light-emitting diodes. Cell Reports Physical Science, 2021, 2, 100582.	5.6	8
28	On the accurate characterization of quantum-dot light-emitting diodes for display applications. Npj Flexible Electronics, 2022, 6, .	10.7	8
29	Tuning Precursorâ€™Amine Interactions for Light-Emitting Lead Bromide Perovskites. Journal of Physical Chemistry Letters, 2022, 13, 704-710.	4.6	5
30	Additive and interfacial control for efficient perovskite light-emitting diodes with reduced trap densities. Journal of Semiconductors, 2022, 43, 050502.	3.7	5
31	Perovskite LEDs. , 2019, 1, 1-5.		3