Dongwen Yang

List of Publications by Year in descending order

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Version: 2024-02-01

33	5,518	236612	360668
papers	citations	25 h-index	35 g-index

35	35	35	5959
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Oriented Low-Dimensional Tin Halide Perovskites with Enhanced Stability and Photovoltaic Performance. Journal of the American Chemical Society, 2017, 139, 6693-6699.	6.6	723
2	Design of Lead-Free Inorganic Halide Perovskites for Solar Cells via Cation-Transmutation. Journal of the American Chemical Society, 2017, 139, 2630-2638.	6.6	714
3	Doping Lanthanide into Perovskite Nanocrystals: Highly Improved and Expanded Optical Properties. Nano Letters, 2017, 17, 8005-8011.	4.5	672
4	Trifluoroacetate induced small-grained CsPbBr3 perovskite films result in efficient and stable light-emitting devices. Nature Communications, 2019, 10, 665.	5.8	350
5	Cuâ€“In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	6.6	316
6	Rational Design of Halide Double Perovskites for Optoelectronic Applications. Joule, 2018, 2, 1662-1673.	11.7	297
7	Chlorine-Incorporation-Induced Formation of the Layered Phase for Antimony-Based Lead-Free Perovskite Solar Cells. Journal of the American Chemical Society, 2018, 140, 1019-1027.	6.6	241
8	Pressure-induced emission of cesium lead halide perovskite nanocrystals. Nature Communications, 2018, 9, 4506.	5.8	212
9	Colloidal Synthesis of Ternary Copper Halide Nanocrystals for High-Efficiency Deep-Blue Light-Emitting Diodes with a Half-Lifetime above 100 h. Nano Letters, 2020, 20, 3568-3576.	4.5	200
10	Stable Yellow Light-Emitting Devices Based on Ternary Copper Halides with Broadband Emissive Self-Trapped Excitons. ACS Nano, 2020, 14, 4475-4486.	7.3	199
11	Electrically-Driven Violet Light-Emitting Devices Based on Highly Stable Lead-Free Perovskite Cs₃Sb₂Br₉ Quantum Dots. ACS Energy Letters, 2020, 5, 385-394.	8.8	169
12	High Colorâ€Rendering Index and Stable White Lightâ€Emitting Diodes by Assembling Two Broadband Emissive Selfâ€Trapped Excitons. Advanced Materials, 2021, 33, e2001367.	11.1	162
13	Sodium Doping-Enhanced Emission Efficiency and Stability of CsPbBr₃ Nanocrystals for White Light-Emitting Devices. Chemistry of Materials, 2019, 31, 3917-3928.	3.2	141
14	Fast Diffusion of Native Defects and Impurities in Perovskite Solar Cell Material CH₃NH₃PbI₃. Chemistry of Materials, 2016, 28, 4349-4357.	3.2	139
15	Functionality-Directed Screening of Pb-Free Hybrid Organicâ€“Inorganic Perovskites with Desired Intrinsic Photovoltaic Functionalities. Chemistry of Materials, 2017, 29, 524-538.	3.2	135
16	Formation and Diffusion of Metal Impurities in Perovskite Solar Cell Material CH₃NH₃PbI₃: Implications on Solar Cell Degradation and Choice of Electrode. Advanced Science, 2018, 5, 1700662.	5.6	130
17	Intrinsic Defect Properties in Halide Double Perovskites for Optoelectronic Applications. Physical Review Applied, 2018, 10, .	1.5	109
18	Perovskite Solar Absorbers: Materials by Design. Small Methods, 2018, 2, 1700316.	4.6	95

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19	Bismuth and antimony-based oxyhalides and chalcohalides as potential optoelectronic materials. Npj Computational Materials, 2018, 4, .	3.5	86
20	Ultrastable Leadâ€Free Double Perovskite Photodetectors with Imaging Capability. Advanced Materials Interfaces, 2019, 6, 1900188.	1.9	62
21	Ultrastable Lead-Free Double Perovskite Warm-White Light-Emitting Devices with a Lifetime above 1000 Hours. ACS Applied Materials & Interfaces, 2020, 12, 46330-46339.	4.0	61
22	Rod-shaped thiocyanate-induced abnormal band gap broadening in SCNâ¯ doped CsPbBr3 perovskite nanocrystals. Nano Research, 2018, 11, 2715-2723.	5.8	44
23	Regulating the Singlet and Triplet Emission of Sb³⁺ Ions to Achieve Single-Component White-Light Emitter with Record High Color-Rendering Index and Stability. Nano Letters, 2022, 22, 5046-5054.	4.5	43
24	Upconversion ladder enabled super-sensitive narrowband near-infrared photodetectors based on rare earth doped florine perovskite nanocrystals. Nano Energy, 2020, 76, 105103.	8.2	40
25	Stable zero-dimensional cesium indium bromide hollow nanocrystals emitting blue light from self-trapped excitons. Nano Today, 2021, 38, 101153.	6.2	33
26	Carbazoleâ€Containing Polymerâ€Assisted Trap Passivation and Holeâ€Injection Promotion for Efficient and Stable CsCu₂I₃â€Based Yellow LEDs. Advanced Science, 2022, 9, .	5.6	32
27	Imaging of the Atomic Structure of All-Inorganic Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 818-823.	2.1	26
28	Pressure-Induced Ultra-Broad-Band Emission of a Cs₂AgBiBr₆ Perovskite Thin Film. Journal of Physical Chemistry C, 2020, 124, 1732-1738.	1.5	25
29	Impact of organic molecule rotation on the optoelectronic properties of hybrid halide perovskites. Physical Review Materials, 2019, 3, .	0.9	20
30	Room-temperature synthesis of blue-emissive zero-dimensional cesium indium halide quantum dots for temperature-stable down-conversion white light-emitting diodes with a half-lifetime of 186 h. Materials Horizons, 2021, 8, 3432-3442.	6.4	18
31	Phase transition pathway of hybrid halide perovskites under compression: Insights from first-principles calculations. Physical Review Materials, 2021, 5, .	0.9	6
32	White Lightâ€Emitting Diodes: High Colorâ€Rendering Index and Stable White Lightâ€Emitting Diodes by Assembling Two Broadband Emissive Selfâ€Trapped Excitons (Adv. Mater. 2/2021). Advanced Materials, 2021, 33, 2170010.	11.1	5
33	Revealing the Anisotropic Structural and Electrical Stabilities of 2D SnSe under Harsh Environments: Alkaline Environment and Mechanical Strain. ACS Applied Materials & Interfaces, 2022, 14, 9824-9832.	4.0	3