Dongwen Yang

List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	Phase transition pathway of hybrid halide perovskites under compression: Insights from first-principles calculations. Physical Review Materials, 2021, 5, .	0.9	6
6	Stable zero-dimensional cesium indium bromide hollow nanocrystals emitting blue light from self-trapped excitons. Nano Today, 2021, 38, 101153.	6.2	33
7	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
8	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
9	Pressure-Induced Ultra-Broad-Band Emission of a Cs₂AgBiBr₆ Perovskite Thin Film. Journal of Physical Chemistry C, 2020, 124, 1732-1738.	1.5	25
10	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
11	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
12	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
13	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
14	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
15	Imaging of the Atomic Structure of All-Inorganic Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 818-823.	2.1	26
16	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
17	Ultrastable Leadâ€Free Double Perovskite Photodetectors with Imaging Capability. Advanced Materials Interfaces, 2019, 6, 1900188.	1.9	62
18	Trifluoroacetate induced small-grained CsPbBr3 perovskite films result in efficient and stable light-emitting devices. Nature Communications, 2019, 10, 665.	5.8	350

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19	Impact of organic molecule rotation on the optoelectronic properties of hybrid halide perovskites. Physical Review Materials, 2019, 3, .	0.9	20
20	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
21	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
22	Bismuth and antimony-based oxyhalides and chalcohalides as potential optoelectronic materials. Npj Computational Materials, 2018, 4, .	3.5	86
23	Perovskite Solar Absorbers: Materials by Design. Small Methods, 2018, 2, 1700316.	4.6	95
24	Rod-shaped thiocyanate-induced abnormal band gap broadening in SCNâ¯ doped CsPbBr3 perovskite nanocrystals. Nano Research, 2018, 11, 2715-2723.	5.8	44
25	Intrinsic Defect Properties in Halide Double Perovskites for Optoelectronic Applications. Physical Review Applied, 2018, 10, .	1.5	109
26	Pressure-induced emission of cesium lead halide perovskite nanocrystals. Nature Communications, 2018, 9, 4506.	5.8	212
27	Rational Design of Halide Double Perovskites for Optoelectronic Applications. Joule, 2018, 2, 1662-1673.	11.7	297
28	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
29	Cuâ€“In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	6.6	316
30	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
31	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
32	Doping Lanthanide into Perovskite Nanocrystals: Highly Improved and Expanded Optical Properties. Nano Letters, 2017, 17, 8005-8011.	4.5	672
33	Fast Diffusion of Native Defects and Impurities in Perovskite Solar Cell Material CH₃NH₃PbI₃. Chemistry of Materials, 2016, 28, 4349-4357.	3.2	139