Xiaoming Wang

List of Publications by Year
in descending order

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31 papers	3,744 citations	331670 21 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	4750 citing authors

#	Article	IF	Citations
1	Self-Trapped Excitons and Broadband Emission in Metal Halide Perovskites. , 2022, , 37-63.		0
2	Low-resistance contact in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub></m -based solid-state thermionic devices. Physical Review B, 2022, 105, .	3.2	2
3	Metal Halide Scintillators with Fast and Selfâ€Absorptionâ€Free Defectâ€Bound Excitonic Radioluminescence for Dynamic Xâ€Ray Imaging. Advanced Functional Materials, 2021, 31, 2007921.	14.9	78
4	A Nanocrystal Catalyst Incorporating a Surface Bound Transition Metal to Induce Photocatalytic Sequential Electron Transfer Events. Journal of the American Chemical Society, 2021, 143, 11361-11369.	13.7	47
5	Superior photo-carrier diffusion dynamics in organic-inorganic hybrid perovskites revealed by spatiotemporal conductivity imaging. Nature Communications, 2021, 12, 5009.	12.8	10
6	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. Science, 2021, , eabj2637.	12.6	2
7	Origin of Broad-Band Emission and Impact of Structural Dimensionality in Tin-Alloyed Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskites. ACS Energy Letters, 2020, 5, 347-352.	17.4	55
8	Charge Compensating Defects in Methylammonium Lead Iodide Perovskite Suppressed by Formamidinium Inclusion. Journal of Physical Chemistry Letters, 2020, 11, 121-128.	4.6	15
9	Is Cs₂TiBr₆ a promising Pb-free perovskite for solar energy applications?. Journal of Materials Chemistry A, 2020, 8, 4049-4054.	10.3	62
10	Thermionic transport across gold-graphene-WSe ₂ van der Waals heterostructures. Science Advances, 2019, 5, eaax7827.	10.3	21
11	A Cu₃PS₄ nanoparticle hole selective layer for efficient inverted perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 4604-4610.	10.3	29
12	A new metalâ€“organic open framework enabling facile synthesis of carbon encapsulated transition metal phosphide/sulfide nanoparticle electrocatalysts. Journal of Materials Chemistry A, 2019, 7, 7168-7178.	10.3	50
13	Efficient sky-blue perovskite light-emitting diodes via photoluminescence enhancement. Nature Communications, 2019, 10, 5633.	12.8	267
14	Atomistic Mechanism of Broadband Emission in Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 501-506.	4.6	190
15	Unraveling the Impact of Halide Mixing on Perovskite Stability. Journal of the American Chemical Society, 2019, 141, 3515-3523.	13.7	116
16	Stability, Electronic and Optical Properties of M₄Mâ€²X₄ (M = Ga or In, Mâ€² = Si,) Tj ETQq0 0 0 rgBT /Overlo 10360-10364.	3.1	7
17	Room-temperature fabrication of a delafossite CuCrO₂hole transport layer for perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 469-477.	10.3	91
18	Efficient and stable emission of warm-white light from lead-free halide double perovskites. Nature, 2018, 563, 541-545.	27.8	1,451

#	Article	IF	Citations
19	Eutectic solvent-mediated selective synthesis of Cuâ€“Sbâ€“S-based nanocrystals: combined experimental and theoretical studies toward highly efficient water splitting. Journal of Materials Chemistry A, 2018, 6, 19798-19809.	10.3	11
20	Phase Stability and Electronic Structure of Prospective Sb-Based Mixed Sulfide and Iodide 3D Perovskite (CH₃NH₃)SbSI₂. Journal of Physical Chemistry Letters, 2018, 9, 3829-3833.	4.6	24
21	High-Performance Solid-State Thermionic Energy Conversion Based on 2D van der Waals Heterostructures: A First-Principles Study. Scientific Reports, 2018, 8, 9303.	3.3	21
22	Cross-Plane Seebeck Coefficient Measurement of Misfit Layered Compounds (SnSe)_n(TiSe₂)_n (n = 1,3,4,5). Nano Letters, 2017, 17, 1978-1986.	9.1	25
23	Bandgap Engineering of Leadâ€Free Double Perovskite Cs₂AgBiBr₆ through Trivalent Metal Alloying. Angewandte Chemie - International Edition, 2017, 56, 8158-8162.	13.8	425
24	Bandgap Engineering of Leadâ€Free Double Perovskite Cs 2 AgBiBr 6 through Trivalent Metal Alloying. Angewandte Chemie, 2017, 129, 8270-8274.	2.0	40
25	Parity-Forbidden Transitions and Their Impact on the Optical Absorption Properties of Lead-Free Metal Halide Perovskites and Double Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2999-3007.	4.6	441
26	Heterovalent B-Site Co-Alloying Approach for Halide Perovskite Bandgap Engineering. ACS Energy Letters, 2017, 2, 2486-2490.	17.4	44
27	Enhanced Solar Water Oxidation Performance of TiO₂ via Band Edge Engineering: A Tale of Sulfur Doping and Earth-Abundant CZTS Nanoparticles Sensitization. ACS Catalysis, 2017, 7, 8077-8089.	11.2	39
28	Electronic band structures and excitonic properties of delafossites: A GW-BSE study. Journal of Applied Physics, 2017, 122, 085104.	2.5	22
29	First-Principles Calculation of Charge Transfer at the Siliconâ€Organic Interface. Journal of Physical Chemistry C, 2017, 121, 15529-15537.	3.1	10
30	High thermoelectricpower factor in graphene/hBN devices. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14272-14276.	7.1	112
31	First principles calculations of solid-state thermionic transport in layered van der Waals heterostructures. Nanoscale, 2016, 8, 14695-14704.	5.6	33