

Xiaoming Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4999365/publications.pdf>

Version: 2024-02-01

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	Efficient and stable emission of warm-white light from lead-free halide double perovskites. <i>Nature</i> , 2018, 563, 541-545.	27.8	1,451
2	Parity-Forbidden Transitions and Their Impact on the Optical Absorption Properties of Lead-Free Metal Halide Perovskites and Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2999-3007.	4.6	441
3	Bandgap Engineering of Lead-Free Double Perovskite Cs ₂ AgBiBr ₆ through Trivalent Metal Alloying. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8158-8162.	13.8	425
4	Efficient sky-blue perovskite light-emitting diodes via photoluminescence enhancement. <i>Nature Communications</i> , 2019, 10, 5633.	12.8	267
5	Atomistic Mechanism of Broadband Emission in Metal Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 501-506.	4.6	190
6	Unraveling the Impact of Halide Mixing on Perovskite Stability. <i>Journal of the American Chemical Society</i> , 2019, 141, 3515-3523.	13.7	116
7	High thermoelectric power factor in graphene/hBN devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14272-14276.	7.1	112
8	Room-temperature fabrication of a delafossite CuCrO ₂ hole transport layer for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 469-477.	10.3	91
9	Metal Halide Scintillators with Fast and Self-Absorption-Free Defect-Bound Excitonic Radioluminescence for Dynamic X-Ray Imaging. <i>Advanced Functional Materials</i> , 2021, 31, 2007921.	14.9	78
10	Is Cs ₂ TiBr ₆ a promising Pb-free perovskite for solar energy applications?. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4049-4054.	10.3	62
11	Origin of Broad-Band Emission and Impact of Structural Dimensionality in Tin-Alloyed Ruddlesden-Popper Hybrid Lead Iodide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 347-352.	17.4	55
12	A new metal-organic open framework enabling facile synthesis of carbon encapsulated transition metal phosphide/sulfide nanoparticle electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7168-7178.	10.3	50
13	A Nanocrystal Catalyst Incorporating a Surface Bound Transition Metal to Induce Photocatalytic Sequential Electron Transfer Events. <i>Journal of the American Chemical Society</i> , 2021, 143, 11361-11369.	13.7	47
14	Heterovalent B-Site Co-Alloying Approach for Halide Perovskite Bandgap Engineering. <i>ACS Energy Letters</i> , 2017, 2, 2486-2490.	17.4	44
15	Bandgap Engineering of Lead-Free Double Perovskite Cs ₂ AgBiBr ₆ through Trivalent Metal Alloying. <i>Angewandte Chemie</i> , 2017, 129, 8270-8274.	2.0	40
16	Enhanced Solar Water Oxidation Performance of TiO ₂ via Band Edge Engineering: A Tale of Sulfur Doping and Earth-Abundant CZTS Nanoparticles Sensitization. <i>ACS Catalysis</i> , 2017, 7, 8077-8089.	11.2	39
17	First principles calculations of solid-state thermionic transport in layered van der Waals heterostructures. <i>Nanoscale</i> , 2016, 8, 14695-14704.	5.6	33
18	A Cu ₃ PS ₄ nanoparticle hole selective layer for efficient inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4604-4610.	10.3	29

#	ARTICLE	IF	CITATIONS
19	Cross-Plane Seebeck Coefficient Measurement of Misfit Layered Compounds (SnSe) _n (TiSe) ₂ (<i>n</i> = 1,3,4,5). Nano Letters, 2017, 17, 1978-1986.	9.1	25
20	Phase Stability and Electronic Structure of Prospective Sb-Based Mixed Sulfide and Iodide 3D Perovskite (CH ₃ NH ₃) ₃ SbSI ₂ . Journal of Physical Chemistry Letters, 2018, 9, 3829-3833.	4.6	24
21	Electronic band structures and excitonic properties of delafossites: A GW-BSE study. Journal of Applied Physics, 2017, 122, 085104.	2.5	22
22	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
23	Thermionic transport across gold-graphene-WSe ₂ van der Waals heterostructures. Science Advances, 2019, 5, eaax7827.	10.3	21
24	Charge Compensating Defects in Methylammonium Lead Iodide Perovskite Suppressed by Formamidinium Inclusion. Journal of Physical Chemistry Letters, 2020, 11, 121-128.	4.6	15
25	Eutectic solvent-mediated selective synthesis of Cu ²⁺ Sb ³⁺ -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
26	First-Principles Calculation of Charge Transfer at the Silicon ²⁺ Organic Interface. Journal of Physical Chemistry C, 2017, 121, 15529-15537.	3.1	10
27	Superior photo-carrier diffusion dynamics in organic-inorganic hybrid perovskites revealed by spatiotemporal conductivity imaging. Nature Communications, 2021, 12, 5009.	12.8	10
28	Stability, Electronic and Optical Properties of M ₄ M ²⁺ X ₄ (M = Ga or In, M ²⁺ = Si, Tj ETQq0 0 0 rgBT /Overlo 10360-10364.	3.1	7
29	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. Science, 2021, , eabj2637.	12.6	2
30	Low-resistance contact in MoSe_2 -based solid-state thermionic devices. Physical Review B, 2022, 105, .		
31	Self-Trapped Excitons and Broadband Emission in Metal Halide Perovskites. , 2022, , 37-63.		0