

Biao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

814
citations

623734

14
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1114
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance CdS@CsPbBr ₃ core-shell microwire heterostructure photodetector. Journal Physics D: Applied Physics, 2022, 55, 194002.	2.8	6
2	Recent progresses of organic photonic synaptic transistors. Flexible and Printed Electronics, 2022, 7, 024002.	2.7	2
3	Restricting the Formation of Pb-Pb Dimer via Surface Pb Site Passivation for Enhancing the Light Stability of Perovskite. Small, 2022, 18, e2201831.	10.0	15
4	First principles prediction of the carrier mobilities and optical properties of strained lead free perovskite Cs ₂ SnX ₆ (X=Cl, Br). Solid State Communications, 2022, 353, 114868.	1.9	0
5	First-principles study on photoelectric and transport properties of CsXBr ₃ (X=Ge, Sn) and blue phosphorus van der Waals heterojunctions. Journal of Applied Physics, 2021, 129, .	2.5	9
6	Creating a Dual-Functional 2D Perovskite Layer at the Interface to Enhance the Performance of Flexible Perovskite Solar Cells. Small, 2021, 17, e2102368.	10.0	44
7	Theoretical study on the tunable electronic band structure of Cs ₂ PbI ₂ Cl ₂ /CsPbBr ₃ halide perovskite heterostructure driven by ferroelectric polarization modulation. Journal of Colloid and Interface Science, 2021, 597, 233-241.	9.4	14
8	A Sub-10 nm Vertical Organic/Inorganic Hybrid Transistor for Pain-Perceptual and Sensitization-Regulated Nociceptor Emulation. Advanced Materials, 2020, 32, e1906171.	21.0	135
9	Vertical OD-Perovskite/2D-MoS ₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectrically Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. Small, 2020, 16, e2005217.	10.0	87
10	Accelerating charge transfer to enhance H ₂ evolution of defect-rich CoFe ₂ O ₄ by constructing a Schottky junction. Chemical Communications, 2020, 56, 14019-14022.	4.1	34
11	Exploring the Coexistence Mechanism of CsPb ₂ Br ₅ and CsPbBr ₃ Based on the Competitive Phase Diagram. Journal of Physical Chemistry C, 2020, 124, 23052-23058.	3.1	35
12	Improving Stability of Lead Halide Perovskite via PbF ₂ Layer Covering. Journal of Physical Chemistry Letters, 2020, 11, 6266-6272.	4.6	13
13	Neuromorphic Photoelectric Devices: Vertical OD-Perovskite/2D-MoS ₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectrically Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics (Small 45/2020). Small, 2020, 16, 2070244.	10.0	2
14	High-performance Photodetector Based on $\ln\text{Se}$ Cl		

#	ARTICLE	IF	CITATIONS
19	Interface engineering of CsPbI ₃ -black phosphorus van der Waals heterostructure. Applied Physics Letters, 2018, 112, .	3.3	67
20	Tuning the Schottky rectification in graphene-hexagonal boron nitride-molybdenum disulfide heterostructure. Journal of Colloid and Interface Science, 2018, 513, 677-683.	9.4	34
21	Carbon electrode with conductivity improvement using silver nanowires for high-performance supercapacitor. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	24
22	Highly Efficient, Solution-Processed CsPb ₂ Br Planar Heterojunction Perovskite Solar Cells via Flash Annealing. ACS Photonics, 2018, 5, 4104-4110.	6.6	64
23	Ferroelectric Polarization in CsPb ₃ /CsSn ₃ Perovskite Heterostructure. Journal of Physical Chemistry C, 2018, 122, 17820-17824.	3.1	11
24	Two-Dimensional van der Waals Heterostructures Constructed via Perovskite (C ₄ H ₉ NH ₃) ₂ XBr ₄ and Black Phosphorus. Journal of Physical Chemistry Letters, 2018, 9, 4822-4827.	4.6	50