

Biao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

814
citations

623734

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642732

23
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docs citations

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times ranked

1114
citing authors

#	ARTICLE	IF	CITATIONS
1	A Sub-10 nm Vertical Organic/Inorganic Hybrid Transistor for Pain-Perceptual and Sensitization-Regulated Nociceptor Emulation. <i>Advanced Materials</i> , 2020, 32, e1906171.	21.0	135
2	Vertical 0D-Perovskite/2D-MoS ₂ van der Waals Heterojunction Phototransistor for Emulating Photoelectric-Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. <i>Small</i> , 2020, 16, e2005217.	10.0	87
3	Proton-electron-coupled MoS ₂ synaptic transistors with a natural renewable biopolymer neurotransmitter for brain-inspired neuromorphic learning. <i>Journal of Materials Chemistry C</i> , 2019, 7, 682-691.	5.5	69
4	Interface engineering of CsPbI ₃ -black phosphorus van der Waals heterostructure. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	67
5	Highly Efficient, Solution-Processed CsPb ₂ Br Planar Heterojunction Perovskite Solar Cells via Flash Annealing. <i>ACS Photonics</i> , 2018, 5, 4104-4110.	6.6	64
6	Two-Dimensional van der Waals Heterostructures Constructed via Perovskite (C ₄ H ₉ NH ₃) ₂ XBr ₄ and Black Phosphorus. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4822-4827.	4.6	50
7	High-performance Photodetector Based on $\text{In}_2\text{Se}_3/\text{MoS}_2/\text{CsPbI}_3$		

#	ARTICLE	IF	CITATIONS
19	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
20	Large-scale Roll-to-Roll Micro-gravure Printed Flexible PBDB-T/IT-M Bulk Heterojunction Photodetectors. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	7
21	High-performance CdS@CsPbBr ₃ core-shell microwire heterostructure photodetector. Journal Physics D: Applied Physics, 2022, 55, 194002.	2.8	6
22	Neuromorphic Photoelectric Devices: Vertical 0D/2D Perovskite/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
23	Recent progresses of organic photonic synaptic transistors. Flexible and Printed Electronics, 2022, 7, 024002.	2.7	2
24	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