

Zheng Yang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ferro-Pyro-Phototronic Effect in Monocrystalline 2D Ferroelectric Perovskite for High-Sensitive, Self-Powered, and Stable Ultraviolet Photodetector. ACS Nano, 2022, 16, 1280-1290.	14.6	45
2	Reynolds-Averaged Navier-Stokes Equations Describing Turbulent Flow and Heat Transfer Behavior for Supercritical Fluid. Journal of Thermal Science, 2021, 30, 191-200.	1.9	8
3	A novel visible light sensing and recording system enabled by integration of photodetector and electrochromic devices. Nanoscale, 2021, 13, 9177-9184.	5.6	8
4	Large-Area Heterojunction Photodetectors Based on Nanometer-Thick $\text{CH}_3\text{NH}_3\text{PbI}_3$ Films Modified with Poly(methyl methacrylate) Nanofilms. ACS Applied Nano Materials, 2021, 4, 1682-1691.	5.0	17
5	CsPbBr_3 QDs Modified Vertically Layered MoS_2/Si Heterojunction for Fast UV-Vis-NIR Spectrum Flexible Photodetectors. Advanced Materials Interfaces, 2021, 8, 2002231.	3.7	13
6	A Self-Powered Photodetector Based on MAPbI_3 Single-Crystal Film/ Si Heterojunction with Broadband Response Enhanced by Pyro-Phototronic and Piezo-Phototronic Effects. Small, 2021, 17, e2101572.	10.0	32
7	A high performance CsPbBr_3 microwire based photodetector boosted by coupling plasmonic and piezo-phototronic effects. Nano Energy, 2021, 85, 105951.	16.0	38
8	Thermodynamic Analysis of Packed Bed Thermal Energy Storage System. Journal of Thermal Science, 2020, 29, 445-456.	1.9	13
9	Experimental Study on Thermal Conductivity and Rectification in Suspended Monolayer MoS_2 . ACS Applied Materials & Interfaces, 2020, 12, 28306-28312.	8.0	20
10	$\text{WS}_2/\text{CsPbBr}_3$ van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. Nano Energy, 2019, 65, 104001.	16.0	48
11	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. ACS Nano, 2019, 13, 5049-5057.	14.6	21
12	Controllable Growth of Aligned Monocrystalline CsPbBr_3 Microwire Arrays for Piezoelectric-Induced Dynamic Modulation of Single-Mode Lasing. Advanced Materials, 2019, 31, e1900647.	21.0	76
13	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskite cuboids. Science Bulletin, 2019, 64, 698-704.	9.0	33
14	Flexible Photodetector Arrays Based on Patterned $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Film for Real-Time Photosensing and Imaging. Advanced Materials, 2019, 31, e1805913.	21.0	174
15	Recent Advances in Large-Scale Tactile Sensor Arrays Based on a Transistor Matrix. Advanced Materials Interfaces, 2018, 5, 1801061.	3.7	48
16	Large and Ultrastable All-Inorganic CsPbBr_3 Monocrystalline Films: Low-Temperature Growth and Application for High-Performance Photodetectors. Advanced Materials, 2018, 30, e1802110.	21.0	94
17	In_2O_3 Nanowire Field-Effect Transistors with Sub-60 mV/dec Subthreshold Swing Stemming from Negative Capacitance and Their Logic Applications. ACS Nano, 2018, 12, 9608-9616.	14.6	32
18	Thermal Storage Characteristics of the Vertical Cylindrical Water Tank. Journal of Energy Engineering - ASCE, 2017, 143, 04017067.	1.9	2

#	ARTICLE	IF	CITATIONS
19	Numerical study on thermal performance characteristics of a cascaded latent heat storage unit. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2016, 230, 126-137.	1.4	6
20	Stability and Thermophysical Properties of Binary Propanol-Water Mixtures-Based Microencapsulated Phase Change Material Suspensions. Journal of Heat Transfer, 2015, 137, .	2.1	8
21	Physics design of a 10 MeV injector test stand for an accelerator-driven subcritical system. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	3