

# Zheng Yang

## List of Publications by Year in descending order

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21  
papers

739  
citations

687363

13  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1095  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Photodetector Arrays Based on Patterned CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl Perovskite Film for Real-Time Photosensing and Imaging. <i>Advanced Materials</i> , 2019, 31, e1805913.	21.0	174
2	Large and Ultrastable All-Inorganic CsPbBr <sub>3</sub> Monocrystalline Films: Low-Temperature Growth and Application for High-Performance Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1802110.	21.0	94
3	Controllable Growth of Aligned Monocrystalline CsPbBr <sub>3</sub> Microwire Arrays for Piezoelectric-Induced Dynamic Modulation of Single-Mode Lasing. <i>Advanced Materials</i> , 2019, 31, e1900647.	21.0	76
4	Recent Advances in Large-Scale Tactile Sensor Arrays Based on a Transistor Matrix. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801061.	3.7	48
5	WS <sub>2</sub> /CsPbBr <sub>3</sub> van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. <i>Nano Energy</i> , 2019, 65, 104001.	16.0	48
6	Ferro-Pyro-Phototronic Effect in Monocrystalline 2D Ferroelectric Perovskite for High-Sensitive, Self-Powered, and Stable Ultraviolet Photodetector. <i>ACS Nano</i> , 2022, 16, 1280-1290.	14.6	45
7	A high performance CsPbBr <sub>3</sub> microwire based photodetector boosted by coupling plasmonic and piezo-phototronic effects. <i>Nano Energy</i> , 2021, 85, 105951.	16.0	38
8	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite cuboids. <i>Science Bulletin</i> , 2019, 64, 698-704.	9.0	33
9	In <sub>2</sub> O <sub>3</sub> Nanowire Field-Effect Transistors with Sub-60 mV/dec Subthreshold Swing Stemming from Negative Capacitance and Their Logic Applications. <i>ACS Nano</i> , 2018, 12, 9608-9616.	14.6	32
10	A Self-Powered Photodetector Based on MAPbI <sub>3</sub> Single-Crystal Film/n-Si Heterojunction with Broadband Response Enhanced by Pyro-Phototronic and Piezo-Phototronic Effects. <i>Small</i> , 2021, 17, e2101572.	10.0	32
11	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. <i>ACS Nano</i> , 2019, 13, 5049-5057.	14.6	21
12	Experimental Study on Thermal Conductivity and Rectification in Suspended Monolayer MoS <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28306-28312.	8.0	20
13	Large-Area Heterojunction Photodetectors Based on Nanometer-Thick CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Films Modified with Poly(methyl methacrylate) Nanofilms. <i>ACS Applied Nano Materials</i> , 2021, 4, 1682-1691.	5.0	17
14	Thermodynamic Analysis of Packed Bed Thermal Energy Storage System. <i>Journal of Thermal Science</i> , 2020, 29, 445-456.	1.9	13
15	CsPbBr <sub>3</sub> QDs Modified Vertically Layered MoS <sub>2</sub> /Si Heterojunction for Fast UV-Vis-NIR Spectrum Flexible Photodetectors. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002231.	3.7	13
16	Stability and Thermophysical Properties of Binary Propanol-Water Mixtures-Based Microencapsulated Phase Change Material Suspensions. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	8
17	Reynolds-Averaged Navier-Stokes Equations Describing Turbulent Flow and Heat Transfer Behavior for Supercritical Fluid. <i>Journal of Thermal Science</i> , 2021, 30, 191-200.	1.9	8
18	A novel visible light sensing and recording system enabled by integration of photodetector and electrochromic devices. <i>Nanoscale</i> , 2021, 13, 9177-9184.	5.6	8

#	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	Physics design of a 10ÂMeV injector test stand for an accelerator-driven subcritical system. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	3
21	Thermal Storage Characteristics of the Vertical Cylindrical Water Tank. Journal of Energy Engineering - ASCE, 2017, 143, 04017067.	1.9	2