

# Mianzeng Zhong

## List of Publications by Year in descending order

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36  
papers

2,037  
citations

304602

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345118

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docs citations

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times ranked

3065  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband and high-performance SnS <sub>2</sub> /FePS <sub>3</sub> /graphene van der Waals heterojunction photodetector. Applied Physics Letters, 2022, 120, .	1.5	14
2	Two-dimensional noble transition-metal dichalcogenides for nanophotonics and optoelectronics: Status and prospects. Nano Research, 2022, 15, 3675-3694.	5.8	22
3	Ultrafast-response and broad-spectrum polarization sensitive photodetector based on Bi <sub>1.85</sub> In <sub>0.15</sub> S <sub>3</sub> nanowire. Applied Physics Letters, 2022, 120, .	1.5	15
4	Alloying-engineered high-performance broadband polarized Bi <sub>1.3</sub> In <sub>0.7</sub> Se <sub>3</sub> photodetector with ultrafast response. Nano Research, 2022, 15, 8451-8457.	5.8	15
5	In-Plane Optical and Electrical Anisotropy of 2D Black Arsenic. ACS Nano, 2021, 15, 1701-1709.	7.3	41
6	Direct Polarimetric Image Sensor and Wide Spectral Response Based on Quasi-1D Sb <sub>2</sub> S <sub>3</sub> Nanowire. Advanced Functional Materials, 2021, 31, 2006601.	7.8	52
7	Rashba valleys and quantum Hall states in few-layer black arsenic. Nature, 2021, 593, 56-60.	13.7	30
8	Nonlinear Optical Response of SbSI Nanorods Dominated with Direct Band Gaps. Journal of Physical Chemistry C, 2021, 125, 15441-15447.	1.5	18
9	Efficient and Anisotropic Second Harmonic Generation in Few-Layer SnS Film. Advanced Optical Materials, 2021, 9, 2101200.	3.6	24
10	Gate-controlled ambipolar transport in b-AsP crystals and their VIS-NIR photodetection. Nanoscale, 2021, 13, 10579-10586.	2.8	15
11	Enhanced Photoresponse of Indium-Doped Tin Disulfide Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 2607-2614.	4.0	23
12	Stability and Phase Transition of Metastable Black Arsenic under High Pressure. Journal of Physical Chemistry Letters, 2020, 11, 93-98.	2.1	15
13	Intercalation of Two-dimensional Layered Materials. Chemical Research in Chinese Universities, 2020, 36, 584-596.	1.3	21
14	All-Inorganic Perovskite CsPb <sub>2</sub> Br <sub>5</sub> Nanosheets for Photodetector Application Based on Rapid Growth in Aqueous Phase. ACS Applied Materials & Interfaces, 2020, 12, 41919-41931.	4.0	25
15	Substrates in the Synthesis of Two-Dimensional Materials via Chemical Vapor Deposition. Chemistry of Materials, 2020, 32, 10321-10347.	3.2	72
16	Mixed-Valence-Driven Quasi-1D Sn <sup>II</sup> Sn <sup>IV</sup> S <sub>3</sub> with Highly Polarization-Sensitive UV-vis-NIR Photoresponse. Advanced Functional Materials, 2019, 29, 1904416.	7.8	39
17	PbI <sub>2</sub> Nanosheets for Photodetectors via the Facile Cooling Thermal Supersaturation Solution Method. Journal of Physical Chemistry C, 2019, 123, 9609-9616.	1.5	19
18	Band-like transport in small-molecule thin films toward high mobility and ultrahigh detectivity phototransistor arrays. Nature Communications, 2019, 10, 12.	5.8	172

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19	Electronic structure and exciton shifts in Sb-doped MoS <sub>2</sub> monolayer. Npj 2D Materials and Applications, 2019, 3, .	3.9	82
20	Perpendicular Optical Reversal of the Linear Dichroism and Polarized Photodetection in 2D GeAs. ACS Nano, 2018, 12, 12416-12423.	7.3	157
21	Large tunneling magnetoresistance in magnetic tunneling junctions based on two-dimensional CrX <sub>3</sub> (X = Br, I) monolayers. Nanoscale, 2018, 10, 22196-22202.	2.8	44
22	Field-Effect Transistors: Thickness-Dependent Carrier Transport Characteristics of a New 2D Elemental Semiconductor: Black Arsenic (Adv. Funct. Mater. 43(2018)). Advanced Functional Materials, 2018, 28, 1870312.	7.8	2
23	Thickness-Dependent Carrier Transport Characteristics of a New 2D Elemental Semiconductor: Black Arsenic. Advanced Functional Materials, 2018, 28, 1802581.	7.8	125
24	Highly anisotropic solar-blind UV photodetector based on large-size two-dimensional $\text{In}_2\text{MoO}_7$ atomic crystals. 2D Materials, 2018, 5, 035033.	2.0	49
25	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. Advanced Materials, 2018, 30, e1800754.	11.1	161
26	High-performance photodetectors based on Sb <sub>2</sub> S <sub>3</sub> nanowires: wavelength dependence and wide temperature range utilization. Nanoscale, 2017, 9, 12364-12371.	2.8	72
27	Large-scale 2D Pb <sub>2</sub> monolayers: experimental realization and their indirect band-gap related properties. Nanoscale, 2017, 9, 3736-3741.	2.8	98
28	Heterostructured ZnS/InP nanowires for rigid/flexible ultraviolet photodetectors with enhanced performance. Nanoscale, 2017, 9, 15416-15422.	2.8	16
29	A two-dimensional Fe-doped SnS <sub>2</sub> magnetic semiconductor. Nature Communications, 2017, 8, 1958.	5.8	315
30	Flexible photodetectors based on phase dependent Pb <sub>2</sub> single crystals. Journal of Materials Chemistry C, 2016, 4, 6492-6499.	2.7	93
31	An Efficient and Low-Cost Photolithographic Pattern Transfer Technique to Fabricate Electrode Arrays for Micro/Nanoelectronics. Advanced Materials Technologies, 2016, 1, 1600001.	3.0	27
32	Surfactant-assisted solvothermal synthesis of single-crystal zinc antimonide nanorods. Applied Surface Science, 2015, 332, 76-79.	3.1	2
33	Synthesis and Transport Properties of Large-Scale Alloy Co <sub>0.16</sub> Mo <sub>0.84</sub> S <sub>2</sub> Bilayer Nanosheets. ACS Nano, 2015, 9, 1257-1262.	7.3	79
34	Electrical and magnetic properties of FeS <sub>2</sub> and CuFeS <sub>2</sub> nanoplates. RSC Advances, 2015, 5, 91103-91107.	1.7	35
35	Ultra-sensitive humidity sensors based on ZnSb <sub>2</sub> O <sub>4</sub> nanoparticles. RSC Advances, 2015, 5, 2429-2433.	1.7	14
36	Ferromagnetism in VS <sub>2</sub> nanostructures: Nanoflowers versus ultrathin nanosheets. Materials Letters, 2014, 124, 282-285.	1.3	34