

Mianzeng Zhong

List of Publications by Year in descending order

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304602

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docs citations

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times ranked

3065
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-dimensional Fe-doped SnS ₂ magnetic semiconductor. Nature Communications, 2017, 8, 1958.	5.8	315
2	Band-like transport in small-molecule thin films toward high mobility and ultrahigh detectivity phototransistor arrays. Nature Communications, 2019, 10, 12.	5.8	172
3	Black Arsenic: A Layered Semiconductor with Extreme In-Plane Anisotropy. Advanced Materials, 2018, 30, e1800754.	11.1	161
4	Perpendicular Optical Reversal of the Linear Dichroism and Polarized Photodetection in 2D GeAs. ACS Nano, 2018, 12, 12416-12423.	7.3	157
5	Thickness-Dependent Carrier Transport Characteristics of a New 2D Elemental Semiconductor: Black Arsenic. Advanced Functional Materials, 2018, 28, 1802581.	7.8	125
6	Large-scale 2D PbI ₂ monolayers: experimental realization and their indirect band-gap related properties. Nanoscale, 2017, 9, 3736-3741.	2.8	98
7	Flexible photodetectors based on phase dependent PbI ₂ single crystals. Journal of Materials Chemistry C, 2016, 4, 6492-6499.	2.7	93
8	Electronic structure and exciton shifts in Sb-doped MoS ₂ monolayer. Npj 2D Materials and Applications, 2019, 3, .	3.9	82
9	Synthesis and Transport Properties of Large-Scale Alloy Co _{0.16} Mo _{0.84} S ₂ Bilayer Nanosheets. ACS Nano, 2015, 9, 1257-1262.	7.3	79
10	High-performance photodetectors based on Sb ₂ S ₃ nanowires: wavelength dependence and wide temperature range utilization. Nanoscale, 2017, 9, 12364-12371.	2.8	72
11	Substrates in the Synthesis of Two-Dimensional Materials via Chemical Vapor Deposition. Chemistry of Materials, 2020, 32, 10321-10347.	3.2	72
12	Direct Polarimetric Image Sensor and Wide Spectral Response Based on Quasi-1D Sb ₂ S ₃ Nanowire. Advanced Functional Materials, 2021, 31, 2006601.	7.8	52
13	Highly anisotropic solar-blind UV photodetector based on large-size two-dimensional \pm -MoO ₃ atomic crystals. 2D Materials, 2018, 5, 035033.	2.0	49
14	Large tunneling magnetoresistance in magnetic tunneling junctions based on two-dimensional CrX ₃ (X = Br, I) monolayers. Nanoscale, 2018, 10, 22196-22202.	2.8	44
15	In-Plane Optical and Electrical Anisotropy of 2D Black Arsenic. ACS Nano, 2021, 15, 1701-1709.	7.3	41
16	Mixed-Valence-Driven Quasi-1D Sn ^{II} Sn ^{IV} S ₃ with Highly Polarization-Sensitive UV-vis-NIR Photoresponse. Advanced Functional Materials, 2019, 29, 1904416.	7.8	39
17	Electrical and magnetic properties of FeS ₂ and CuFeS ₂ nanoplates. RSC Advances, 2015, 5, 91103-91107.	1.7	35
18	Ferromagnetism in VS ₂ nanostructures: Nanoflowers versus ultrathin nanosheets. Materials Letters, 2014, 124, 282-285.	1.3	34

#	ARTICLE	IF	CITATIONS
19	Rashba valleys and quantum Hall states in few-layer black arsenic. <i>Nature</i> , 2021, 593, 56-60.	13.7	30
20	An Efficient and Low-Cost Photolithographic Pattern Transfer Technique to Fabricate Electrode Arrays for Micro/Nanoelectronics. <i>Advanced Materials Technologies</i> , 2016, 1, 1600001.	3.0	27
21	All-Inorganic Perovskite CsPb ₂ Br ₅ Nanosheets for Photodetector Application Based on Rapid Growth in Aqueous Phase. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41919-41931.	4.0	25
22	Efficient and Anisotropic Second Harmonic Generation in Few-Layer SnS Film. <i>Advanced Optical Materials</i> , 2021, 9, 2101200.	3.6	24
23	Enhanced Photoresponse of Indium-Doped Tin Disulfide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2607-2614.	4.0	23
24	Two-dimensional noble transition-metal dichalcogenides for nanophotonics and optoelectronics: Status and prospects. <i>Nano Research</i> , 2022, 15, 3675-3694.	5.8	22
25	Intercalation of Two-dimensional Layered Materials. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 584-596.	1.3	21
26	PbI ₂ Nanosheets for Photodetectors via the Facile Cooling Thermal Supersaturation Solution Method. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9609-9616.	1.5	19
27	Nonlinear Optical Response of SbSI Nanorods Dominated with Direct Band Gaps. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15441-15447.	1.5	18
28	Heterostructured ZnS/InP nanowires for rigid/flexible ultraviolet photodetectors with enhanced performance. <i>Nanoscale</i> , 2017, 9, 15416-15422.	2.8	16
29	Stability and Phase Transition of Metastable Black Arsenic under High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 93-98.	2.1	15
30	Gate-controlled ambipolar transport in b-AsP crystals and their VIS-NIR photodetection. <i>Nanoscale</i> , 2021, 13, 10579-10586.	2.8	15
31	Ultrafast-response and broad-spectrum polarization sensitive photodetector based on Bi _{1.85} In _{0.15} S ₃ nanowire. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	15
32	Alloying-engineered high-performance broadband polarized Bi _{1.3} In _{0.7} Se ₃ photodetector with ultrafast response. <i>Nano Research</i> , 2022, 15, 8451-8457.	5.8	15
33	Ultra-sensitive humidity sensors based on ZnSb ₂ O ₄ nanoparticles. <i>RSC Advances</i> , 2015, 5, 2429-2433.	1.7	14
34	Broadband and high-performance SnS ₂ /FePS ₃ /graphene van der Waals heterojunction photodetector. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	14
35	Surfactant-assisted solvothermal synthesis of single-crystal zinc antimonide nanorods. <i>Applied Surface Science</i> , 2015, 332, 76-79.	3.1	2
36	Field-Effect Transistors: Thickness-Dependent Carrier Transport Characteristics of a New 2D Elemental Semiconductor: Black Arsenic (<i>Adv. Funct. Mater.</i> 43(2018)). <i>Advanced Functional Materials</i> , 2018, 28, 1870312.	7.8	2