Yixiu Wang

List of Publications by Year
in descending order

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30 papers	2,400 citations	331670 21 h-index	580821 25 g-index
30 all docs	30 docs citations	30 times ranked	2550 citing authors

#	Article	IF	Citations
1	The resurrection of tellurium as an elemental two-dimensional semiconductor. Npj 2D Materials and Applications, 2022, 6, .	7.9	36
2	Selenene and Tellurene. , 2022, , 197-224.		2
3	Bilayer Quantum Hall States in an n-Type Wide Tellurium Quantum Well. Nano Letters, 2021, 21, 7527-7533.	9.1	6
4	High-Frequency Tellurene MOSFETs with Biased Contacts. , 2021, , .		0
5	Anisotropic thermal conductivity in 2D tellurium. 2D Materials, 2020, 7, 015008.	4.4	39
6	Tellurene Photodetector with High Gain and Wide Bandwidth. ACS Nano, 2020, 14, 303-310.	14.6	101
7	Parallel Nanoimprint Forming of One-Dimensional Chiral Semiconductor for Strain-Engineered Optical Properties. Nano-Micro Letters, 2020, 12, 160.	27.0	8
8	Stable mid-infrared polarization imaging based on quasi-2D tellurium at room temperature. Nature Communications, 2020, 11, 2308.	12.8	259
9	Gate-tunable strong spin-orbit interaction in two-dimensional tellurium probed by weak antilocalization. Physical Review B, 2020, 101, .	3.2	29
10	Strainâ€Engineered Anisotropic Optical and Electrical Properties in 2D Chiralâ€Chain Tellurium. Advanced Materials, 2020, 32, e2002342.	21.0	40
11	Quantum Hall effect of Weyl fermions in n-type semiconducting tellurene. Nature Nanotechnology, 2020, 15, 585-591.	31.5	63
12	Raman response and transport properties of tellurium atomic chains encapsulated in nanotubes. Nature Electronics, 2020, 3, 141-147.	26.0	126
13	Microscopic origin of inhomogeneous transport in four-terminal tellurene devices. Applied Physics Letters, 2020, 117, .	3.3	0
14	Tellurene: A Multifunctional Material for Midinfrared Optoelectronics. ACS Photonics, 2019, 6, 1632-1638.	6.6	60
15	Infrared ultrafast spectroscopy of solution-grown thin film tellurium. Physical Review B, 2019, 100, .	3.2	13
16	Imaging Carrier Inhomogeneities in Ambipolar Tellurene Field Effect Transistors. Nano Letters, 2019, 19, 1289-1294.	9.1	31
17	Chitosan biopolymerâ€derived selfâ€powered triboelectric sensor with optimized performance through molecular surface engineering and dataâ€driven learning. InformaÄnÃ-MateriÃ¡ly, 2019, 1, 116-125.	17.3	47
18	Wearable high-dielectric-constant polymers with coreâ€“shell liquid metal inclusions for biomechanical energy harvesting and a self-powered user interface. Journal of Materials Chemistry A, 2019, 7, 7109-7117.	10.3	48

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19	Thermoelectric Performance of 2D Tellurium with Accumulation Contacts. Nano Letters, 2019, 19, 1955-1962.	9.1	81
20	Data-driven and probabilistic learning of the process-structure-property relationship in solution-grown tellurene for optimized nanomanufacturing of high-performance nanoelectronics. Nano Energy, 2019, 57, 480-491.	16.0	44
21	Scalable nanomanufacturing and assembly of chiral-chain piezoelectric tellurium nanowires for wearable self-powered cardiovascular monitoring. Nano Futures, 2019, 3, 011001.	2.2	16
22	Solution-synthesized chiral piezoelectric selenium nanowires for wearable self-powered human-integrated monitoring. Nano Energy, 2019, 56, 693-699.	16.0	71
23	Field-effect transistors made from solution-grown two-dimensional tellurene. Nature Electronics, 2018, 1, 228-236.	26.0	591
24	Largeâ€Area Direct Laserâ€Shock Imprinting of a 3D Biomimic Hierarchical Metal Surface for Triboelectric Nanogenerators. Advanced Materials, 2018, 30, 1705840.	21.0	93
25	High-Performance Few-Layer Tellurium CMOS Devices Enabled by Atomic Layer Deposited Dielectric Doping Technique. , 2018, , .		16
26	Wafer-scale Material-device Correlation of Tellurene MOSFETs. , 2018, , .		2
27	Tellurene: its physical properties, scalable nanomanufacturing, and device applications. Chemical Society Reviews, 2018, 47, 7203-7212.	38.1	214
28	Quantum Transport and Band Structure Evolution under High Magnetic Field in Few-Layer Tellurene. Nano Letters, 2018, 18, 5760-5767.	9.1	60
29	One-Dimensional van der Waals Material Tellurium: Raman Spectroscopy under Strain and Magneto-Transport. Nano Letters, 2017, 17, 3965-3973.	9.1	272
30	Piezotronic effect in 1D van der Waals solid of elemental tellurium nanobelt for smart adaptive electronics. Semiconductor Science and Technology, 2017, 32, 104004.	2.0	32