

Li Tao

List of Publications by Year in descending order

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34
papers

2,193
citations

394286

19
h-index

377752

34
g-index

35
all docs

35
docs citations

35
times ranked

4079
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. Applied Physics Reviews, 2017, 4, .	5.5	476
2	Atomristor: Nonvolatile Resistance Switching in Atomic Sheets of Transition Metal Dichalcogenides. Nano Letters, 2018, 18, 434-441.	4.5	375
3	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. ACS Nano, 2017, 11, 430-437.	7.3	192
4	1T [±] Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. Journal of the American Chemical Society, 2018, 140, 8696-8704.	6.6	192
5	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS ₂ Film with Spatial Homogeneity and the Visualization of Grain Boundaries. ACS Applied Materials & Interfaces, 2017, 9, 12073-12081.	4.0	120
6	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. Nature Communications, 2018, 9, 4909.	5.8	117
7	Hybrid graphene tunneling photoconductor with interface engineering towards fast photoresponse and high responsivity. Npj 2D Materials and Applications, 2017, 1, .	3.9	77
8	Investigation of Na ₃ V ₂ (PO ₄) ₂ O ₂ F as a sodium ion battery cathode material: Influences of morphology and voltage window. Nano Energy, 2019, 60, 510-519.	8.2	69
9	Restoring the photovoltaic effect in graphene-based van der Waals heterojunctions towards self-powered high-detectivity photodetectors. Nano Energy, 2019, 57, 214-221.	8.2	65
10	Enhancing light-matter interaction in 2D materials by optical micro/nano architectures for high-performance optoelectronic devices. Informa <i>Materials</i> , 2021, 3, 36-60.	8.5	59
11	Modification on Single-Layer Graphene Induced by Low-Energy Electron-Beam Irradiation. Journal of Physical Chemistry C, 2013, 117, 10079-10085.	1.5	43
12	Thickness-Dependent Optical Properties and In-Plane Anisotropic Raman Response of the 2D In ₂ S ₃ . Advanced Optical Materials, 2019, 7, 1901085.	3.6	39
13	High-Quality Monolithic Graphene Films via Laterally Stitched Growth and Structural Repair of Isolated Flakes for Transparent Electronics. Chemistry of Materials, 2017, 29, 7808-7815.	3.2	38
14	Graphene-on-silicon nitride waveguide photodetector with interdigital contacts. Applied Physics Letters, 2018, 112, 211107.	1.5	37
15	Graphene/In ₂ S ₃ van der Waals Heterostructure for Ultrasensitive Photodetection. ACS Photonics, 2018, 5, 4912-4919.	3.2	36
16	Nax(Cu [±] Fe [±] Mn)O ₂ system as cathode materials for Na-ion batteries. Nano Energy, 2020, 78, 105142.	8.2	29
17	Efficient Electronic Transport in Partially Disordered Co ₃ O ₄ Nanosheets for Electrocatalytic Oxygen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 3071-3081.	2.5	27
18	Deterministic and Etching-Free Transfer of Large-Scale 2D Layered Materials for Constructing Interlayer Coupled van der Waals Heterostructures. Advanced Materials Technologies, 2018, 3, 1700282.	3.0	26

#	ARTICLE	IF	CITATIONS
19	Enhanced four-wave mixing with MoS ₂ on a silicon waveguide. Journal of Optics (United Kingdom), 2019, 17, 1700-1706.	1.0	11
20	Large-area ReS ₂ monolayer films on flexible substrate for SERS based molecular sensing with strong fluorescence quenching. Applied Surface Science, 2021, 542, 148757.	3.1	17
21	Efficient passivation of monolayer MoS ₂ by epitaxially grown 2D organic crystals. Science Bulletin, 2019, 64, 1700-1706.	4.3	15
22	Intrinsic memristive mechanisms in 2D layered materials for high-performance memory. Journal of Applied Physics, 2021, 129, .	1.1	15
23	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer Organic Crystal with Graphene. Advanced Optical Materials, 2021, 9, 2100158.	3.6	15
24	Controlled Synthesis of Mo _x W _{1-x} Te ₂ Atomic Layers with Emergent Quantum States. ACS Nano, 2021, 15, 11526-11534.	7.3	12
25	Enhanced Raman scattering on two-dimensional palladium diselenide. Nanoscale, 2022, 14, 4181-4187.	2.8	12
26	A spontaneously formed plasmonic-MoTe ₂ hybrid platform for ultrasensitive Raman enhancement. Cell Reports Physical Science, 2021, 2, 100526.	2.8	10
27	Defect Etching of Phase-Transition-Assisted CVD-Grown 2H-MoTe ₂ . Small, 2021, 17, e2102146.	2.2	9
28	Phase-controlled epitaxial growth of MoTe ₂ : Approaching high-quality 2D materials for electronic devices with low contact resistance. Journal of Applied Physics, 2022, 131, .	1.1	9
29	Enhanced Photoresponse in Interfacial Gated Graphene Phototransistor With Ultrathin Al ₂ O ₃ Dielectric. IEEE Electron Device Letters, 2018, 39, 987-990.	2.2	8
30	Observation of Strong J-Aggregate Light Emission in Monolayer Molecular Crystal on Hexagonal Boron Nitride. Journal of Physical Chemistry A, 2020, 124, 7340-7345.	1.1	8
31	Enhanced thermo-optic nonlinearities in a MoS ₂ -on-silicon microring resonator. Applied Physics Express, 2020, 13, 022004.	1.1	8
32	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. ACS Applied Electronic Materials, 2020, 2, 2888-2894.	2.0	6
33	Investigation on the Fano-Type Asymmetry in Atomic Semiconductor Coupled to the Plasmonic Lattice. ACS Photonics, 2021, 8, 3583-3590.	3.2	6
34	Preparation and Characterization of Two-Dimensional Layered Transition Metal Dichalcogenide Thin Films. , 2019, , .		0