Li Tao

List of Publications by Year in Descending Order

32 papers	1,471 citations	16 h-index	35 g-index
35 ext. papers	1,849 ext. citations	9.2 avg, IF	4.84 L-index

#	Paper	IF	Citations
32	Phase-controlled epitaxial growth of MoTe2: Approaching high-quality 2D materials for electronic devices with low contact resistance. *Journal of Applied Physics*, **2022**, 131, 110902	2.5	0
31	Controlled Synthesis of MoWTe Atomic Layers with Emergent Quantum States. *ACS Nano*, **2021**,	16.7	2
30	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer J-Aggregate Organic Crystal with Graphene. *Advanced Optical Materials*, **2021**, 9, 2100158	8.1	5
29	Defect Etching of Phase-Transition-Assisted CVD-Grown 2H-MoTe. *Small*, **2021**, 17, e2102146	11	2
28	Large-area ReS2 monolayer films on flexible substrate for SERS based molecular sensing with strong fluorescence quenching. *Applied Surface Science*, **2021**, 542, 148757	6.7	3
27	Enhancing light-matter interaction in 2D materials by optical micro/nano architectures for high-performance optoelectronic devices. *Informa Materia*, **2021**, 3, 36-60	23.1	29
26	Intrinsic memristive mechanisms in 2D layered materials for high-performance memory. *Journal of Applied Physics*, **2021**, 129, 050902	2.5	8
25	A spontaneously formed plasmonic-MoTe2 hybrid platform for ultrasensitive Raman enhancement. *Cell Reports Physical Science*, **2021**, 2, 100526	6.1	3
24	Efficient Electronic Transport in Partially Disordered Co3O4 Nanosheets for Electrocatalytic Oxygen Evolution Reaction. *ACS Applied Energy Materials*, **2020**, 3, 3071-3081	6.1	14
23	Enhanced thermo-optic nonlinearities in a MoS2-on-silicon microring resonator. *Applied Physics Express*, **2020**, 13, 022004	2.4	5
22	Enhanced four-wave mixing with MoS2 on a silicon waveguide. *Journal of Optics (United Kingdom)*, **2020**, 22, 025503	1.7	14
21	Nax(Cu Fe Mn)O2 system as cathode materials for Na-ion batteries. *Nano Energy*, **2020**, 78, 105142	17.1	10
20	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. *ACS Applied Electronic Materials*, **2020**, 2, 2888-2894	4	1
19	Observation of Strong -Aggregate Light Emission in Monolayer Molecular Crystal on Hexagonal Boron Nitride. *Journal of Physical Chemistry A*, **2020**, 124, 7340-7345	2.8	4
18	Investigation of Na3V2(PO4)2O2F as a sodium ion battery cathode material: Influences of morphology and voltage window. *Nano Energy*, **2019**, 60, 510-519	17.1	40
17	Thickness-Dependent Optical Properties and In-Plane Anisotropic Raman Response of the 2D n2S3. *Advanced Optical Materials*, **2019**, 7, 1901085	8.1	25
16	Efficient passivation of monolayer MoS2 by epitaxially grown 2D organic crystals. *Science Bulletin*, **2019**, 64, 1700-1706	10.6	8

List of Publications

15	Restoring the photovoltaic effect in graphene-based van der Waals heterojunctions towards self-powered high-detectivity photodetectors. *Nano Energy*, **2019**, 57, 214-221	17.1	46
14	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	6.8	20
13	Enhanced Photoresponse in Interfacial Gated Graphene Phototransistor With Ultrathin Al2O3 Dielectric. *IEEE Electron Device Letters*, **2018**, 39, 987-990	4.4	6
12	Atomristor: Nonvolatile Resistance Switching in Atomic Sheets of Transition Metal Dichalcogenides. *Nano Letters*, **2018**, 18, 434-441	11.5	226
11	1TUTransition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. *Journal of the American Chemical Society*, **2018**, 140, 8696-8704	16.4	114
10	Graphene/In2S3 van der Waals Heterostructure for Ultrasensitive Photodetection. *ACS Photonics*, **2018**, 5, 4912-4919	6.3	28
9	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. *Nature Communications*, **2018**, 9, 4909	17.4	79
8	Graphene-on-silicon nitride waveguide photodetector with interdigital contacts. *Applied Physics Letters*, **2018**, 112, 211107	3.4	22
7	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. *Applied Physics Reviews*, **2017**, 4, 021306	17.3	368
6	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS Film with Spatial Homogeneity and the Visualization of Grain Boundaries. *ACS Applied Materials & Interfaces*, **2017**, 9, 12073-12081	9.5	99
5	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. *ACS Nano*, **2017**, 11, 430-437	16.7	153
4	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	9.6	35
3	Hybrid graphene tunneling photoconductor with interface engineering towards fast photoresponse and high responsivity. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	62
2	Modification on Single-Layer Graphene Induced by Low-Energy Electron-Beam Irradiation. *Journal of Physical Chemistry C*, **2013**, 117, 10079-10085	3.8	34
1	Investigation on the Fano-Type Asymmetry in Atomic Semiconductor Coupled to the Plasmonic Lattice. *ACS Photonics*,	6.3	1