

Yuan Huang

List of Publications by Year in descending order

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papers

3,789
citations

279798

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61
docs citations

61
times ranked

6972
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer-Number-Dependent Antiferromagnetic and Ferromagnetic Behavior in MnSb_2Te_4 Physical Review Letters, 2022, 128, 017201.	7.8	19
2	New progress and prospects of mechanical exfoliation technology of two-dimensional materials. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 108201.	0.5	1
3	Strong Light-Matter Interactions between Gap Plasmons and Two-Dimensional Excitons under Ambient Conditions in a Deterministic Way. Nano Letters, 2022, 22, 2177-2186.	9.1	24
4	Persistence of Monoclinic Crystal Structure in 3D Second-Order Topological Insulator Candidate MnTe_2 Thin Flake Without Structural Phase Transition. Advanced Science, 2022, 9, 2101532.	11.2	4
5	An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of two-dimensional materials. Informa-Materially, 2022, 4, .	17.3	25
6	Isospin competitions and valley polarized correlated insulators in twisted double bilayer graphene. Nature Communications, 2022, 13, .	12.8	20
7	Exchange Bias Effects in Ferromagnetic MnSb_2Te_4 down to a Monolayer. ACS Applied Electronic Materials, 2022, 4, 3256-3262.	4.3	5
8	Odd-Even Layer-Number Effect and Layer-Dependent Magnetic Phase Diagrams in MnBi_2Te_4 Physical Review X, 2021, 11, .	8.9	69
9	High-Performance Phototransistors Based on MnPSe_3 and Its Hybrid Structures with Au Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 2836-2844.	8.0	24
10	Plasmonic Effect on the Magneto-Optical Property of Monolayer WS ₂ Studied by Polarized-Raman Spectroscopy. Applied Sciences (Switzerland), 2021, 11, 1599.	2.5	3
11	Thermal expansion coefficient of few-layer MoS ₂ studied by temperature-dependent Raman spectroscopy. Scientific Reports, 2021, 11, 7037.	3.3	35
12	Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS ₂ and Au films. Science China Information Sciences, 2021, 64, 1.	4.3	10
13	Tunable Terahertz Plasmons in Graphite Thin Films. Physical Review Letters, 2021, 126, 147401.	7.8	6
14	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. Chemistry of Materials, 2021, 33, 2506-2515.	6.7	10
15	Atomically sharp interface enabled ultrahigh-speed non-volatile memory devices. Nature Nanotechnology, 2021, 16, 882-887.	31.5	105
16	Spectroscopic evidence of superconductivity pairing at 83%K in single-layer FeSe/SrTiO ₃ films. Nature Communications, 2021, 12, 2840.	12.8	25
17	Two-Dimensional $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Nanosheets for Ultrafast Photonics and Optoelectronics. ACS Nano, 2021, 15, 8919-8929.	14.6	20
18	Exchange bias and spin-orbit torque in the Fe ₃ GeTe ₂ -based heterostructures prepared by vacuum exfoliation approach. Applied Physics Letters, 2021, 118, .	3.3	27

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37	Diffusion dynamics of valley excitons by transient grating spectroscopy in monolayer WSe ₂ . Applied Physics Letters, 2019, 115, .	3.3	21
38	Annealing effects on the electrical and photoelectric performance of SnS ₂ field-effect transistor. Applied Surface Science, 2019, 484, 39-44.	6.1	11
39	SnSe ₂ Field-Effect Transistor with High On/Off Ratio and Polarity-Switchable Photoconductivity. Nanoscale Research Letters, 2019, 14, 17.	5.7	13
40	Thickness-Dependent In-Plane Thermal Conductivity and Enhanced Thermoelectric Performance in p-Type ZrTe ₅ Nanoribbons. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800529.	2.4	22
41	Raman Spectral Band Oscillations in Large Graphene Bubbles. Physical Review Letters, 2018, 120, 186104.	7.8	43
42	Nonequilibrium electron and lattice dynamics of strongly correlated Bi ₂ Sr ₂ CaCu ₂ O ₈ single crystals. Science Advances, 2018, 4, eaap7427.	10.3	58
43	Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. ACS Nano, 2018, 12, 6117-6127.	14.6	132
44	Folding Large Graphene-on-Polymer Films Yields Laminated Composites with Enhanced Mechanical Performance. Advanced Materials, 2018, 30, e1707449.	21.0	32
45	Thick Layered Semiconductor Devices with Water Top-Gates: High On-Off Ratio Field-Effect Transistors and Aqueous Sensors. ACS Applied Materials & Interfaces, 2018, 10, 23198-23207.	8.0	14
46	Defect-Laden MoSe ₂ Quantum Dots Made by Turbulent Shear Mixing as Enhanced Electrocatalysts. Small, 2017, 13, 1700565.	10.0	31
47	Identifying the Conversion Mechanism of NiCo ₂ O ₄ during Sodiation-Desodiation Cycling by In Situ TEM. Advanced Functional Materials, 2017, 27, 1606163.	14.9	39
48	Hybrid quantum dot-tin disulfide field-effect transistors with improved photocurrent and spectral responsivity. Applied Physics Letters, 2016, 108, .	3.3	23
49	Nonradiative Energy Transfer from Individual CdSe/ZnS Quantum Dots to Single-Layer and Few-Layer Tin Disulfide. ACS Nano, 2016, 10, 4790-4796.	14.6	87
50	Chiral magnetic effect in ZrTe ₅ . Nature Physics, 2016, 12, 550-554.	16.7	793
51	Atomic-Scale Probing of the Dynamics of Sodium Transport and Intercalation-Induced Phase Transformations in MoS ₂ . ACS Nano, 2015, 9, 11296-11301.	14.6	167
52	Reliable Exfoliation of Large-Area High-Quality Flakes of Graphene and Other Two-Dimensional Materials. ACS Nano, 2015, 9, 10612-10620.	14.6	451
53	Tin Disulfide—An Emerging Layered Metal Dichalcogenide Semiconductor: Materials Properties and Device Characteristics. ACS Nano, 2014, 8, 10743-10755.	14.6	449
54	An innovative way of etching MoS ₂ : Characterization and mechanistic investigation. Nano Research, 2013, 6, 200-207.	10.4	140

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55	Nanoscale Materials: A General Approach for Fast Detection of Charge Carrier Type and Conductivity Difference in Nanoscale Materials (Adv. Mater. 48/2013). Advanced Materials, 2013, 25, 6916-6916.	21.0	0
56	Influence of Si Co-doping on electrical transport properties of magnesium-doped boron nanowires. Applied Physics Letters, 2012, 100, 103112.	3.3	2
57	Fabrication of patterned boron carbide nanowires and their electrical, field emission, and flexibility properties. Nano Research, 2012, 5, 896-902.	10.4	12
58	Synthesis of monodisperse CoPt ₃ nanocrystals and their catalytic behavior for growth of boron nanowires. Nano Research, 2011, 4, 780-787.	10.4	12