Yuan Huang

List of Publications by Year
in descending order

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58 papers	3,789 citations	279798 23 h-index	144013 57 g-index
61 all docs	61 docs citations	61 times ranked	6972 citing authors

#	Article	IF	Citations
1	Chiral magnetic effect in ZrTe5. Nature Physics, 2016, 12, 550-554.	16.7	793
2	Reliable Exfoliation of Large-Area High-Quality Flakes of Graphene and Other Two-Dimensional Materials. ACS Nano, 2015, 9, 10612-10620.	14.6	451
3	Tin Disulfideâ€"An Emerging Layered Metal Dichalcogenide Semiconductor: Materials Properties and Device Characteristics. ACS Nano, 2014, 8, 10743-10755.	14.6	449
4	Universal mechanical exfoliation of large-area 2D crystals. Nature Communications, 2020, 11, 2453.	12.8	394
5	Atomic-Scale Probing of the Dynamics of Sodium Transport and Intercalation-Induced Phase Transformations in MoS₂. ACS Nano, 2015, 9, 11296-11301.	14.6	167
6	An innovative way of etching MoS2: Characterization and mechanistic investigation. Nano Research, 2013, 6, 200-207.	10.4	140
7	Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. ACS Nano, 2018, 12, 6117-6127.	14.6	132
8	High Spin Hall Conductivity in Largeâ€Area Typeâ€II Dirac Semimetal PtTe₂. Advanced Materials, 2020, 32, e2000513.	21.0	117
9	Atomically sharp interface enabled ultrahigh-speed non-volatile memory devices. Nature Nanotechnology, 2021, 16, 882-887.	31.5	105
10	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
11	Competition of Superconductivity and Charge Density Wave in Selective Oxidized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>CsV</mml:mi></mml:mrow><mml:mrow><mml:mn>3</ Thin Flakes. Physical Review Letters, 2021, 127, 237001.	7.8	73
12	Odd-Even Layer-Number Effect and Layer-Dependent Magnetic Phase Diagrams in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MnBi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review X, 2021, 11, .	8.9	69
13	Nonequilibrium electron and lattice dynamics of strongly correlated Bi ₂ Sr ₂ CaCu ₂ O _{8+Î´} single crystals. Science Advances, 2018, 4, eaap7427.	10.3	58
14	InSe/hBN/graphite heterostructure for high-performance 2D electronics and flexible electronics. Nano Research, 2020, 13, 1127-1132.	10.4	48
15	Raman Spectral Band Oscillations in Large Graphene Bubbles. Physical Review Letters, 2018, 120, 186104.	7.8	43
16	Identifying the Conversion Mechanism of NiCo₂O₄ during Sodiationâ€"Desodiation Cycling by In Situ TEM. Advanced Functional Materials, 2017, 27, 1606163.	14.9	39
17	Thermal expansion coefficient of few-layer MoS2 studied by temperature-dependent Raman spectroscopy. Scientific Reports, 2021, 11, 7037.	3.3	35
18	Folding Large Grapheneâ€onâ€Polymer Films Yields Laminated Composites with Enhanced Mechanical Performance. Advanced Materials, 2018, 30, e1707449.	21.0	32

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19	Defect-Laden MoSe₂Quantum Dots Made by Turbulent Shear Mixing as Enhanced Electrocatalysts. Small, 2017, 13, 1700565.	10.0	31
20	Exchange bias and spinâ€“orbit torque in the Fe3GeTe2-based heterostructures prepared by vacuum exfoliation approach. Applied Physics Letters, 2021, 118, .	3.3	27
21	Direct bandgap engineering with local biaxial strain in few-layer MoS2 bubbles. Nano Research, 2020, 13, 2072-2078.	10.4	25
22	Spectroscopic evidence of superconductivity pairing at 83â€‰K in single-layer FeSe/SrTiO3 films. Nature Communications, 2021, 12, 2840.	12.8	25
23	An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of <scp>twoâ€dimensional</scp> materials. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	25
24	High-Performance Phototransistors Based on MnPSe₃ and Its Hybrid Structures with Au Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 2836-2844.	8.0	24
25	Strong Lightâ€“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
26	Hybrid quantum dot-tin disulfide field-effect transistors with improved photocurrent and spectral responsivity. Applied Physics Letters, 2016, 108, .	3.3	23
27	Wrinkle networks in exfoliated multilayer graphene and other layered materials. Carbon, 2020, 156, 24-30.	10.3	23
28	Possible Luttinger liquid behavior of edge transport in monolayer transition metal dichalcogenide crystals. Nature Communications, 2020, 11, 659.	12.8	23
29	Thicknessâ€Dependent Inâ€Plane Thermal Conductivity and Enhanced Thermoelectric Performance in pâ€Type ZrTe₅ Nanoribbons. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800529.	2.4	22
30	Diffusion dynamics of valley excitons by transient grating spectroscopy in monolayer WSe2. Applied Physics Letters, 2019, 115, .	3.3	21
31	Simultaneous generation of direct- and indirect-gap photoluminescence in multilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> bubbles. Physical Review Materials, 2020, 4, .	2.4	21
32	Two-Dimensional Bi₂Sr₂CaCu₂O_{8+Î´} Nanosheets for Ultrafast Photonics and Optoelectronics. ACS Nano, 2021, 15, 8919-8929.	14.6	20
33	Isospin competitions and valley polarized correlated insulators in twisted double bilayer graphene. Nature Communications, 2022, 13, .	12.8	20
34	Layer-Number-Dependent Antiferromagnetic and Ferromagnetic Behavior in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MnSb</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2022, 128, 017201.	7.8	19
35	Electronic structure of exfoliated millimeter-sized monolayer WSe2 on silicon wafer. Nano Research, 2019, 12, 3095-3100.	10.4	15
36	Thick Layered Semiconductor Devices with Water Top-Gates: High Onâ€“Off Ratio Field-Effect Transistors and Aqueous Sensors. ACS Applied Materials & Interfaces, 2018, 10, 23198-23207.	8.0	14

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37	SnSe2 Field-Effect Transistor with High On/Off Ratio and Polarity-Switchable Photoconductivity. Nanoscale Research Letters, 2019, 14, 17.	5.7	13
38	Remarkable improved photoelectric performance of SnS₂ field-effect transistor with Au plasmonic nanostructures. Nanotechnology, 2020, 31, 215201.	2.6	13
39	Synthesis of monodisperse CoPt3 nanocrystals and their catalytic behavior for growth of boron nanowires. Nano Research, 2011, 4, 780-787.	10.4	12
40	Fabrication of patterned boron carbide nanowires and their electrical, field emission, and flexibility properties. Nano Research, 2012, 5, 896-902.	10.4	12
41	Annealing effects on the electrical and photoelectric performance of SnS2 field-effect transistor. Applied Surface Science, 2019, 484, 39-44.	6.1	11
42	Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS2 and Au films. Science China Information Sciences, 2021, 64, 1.	4.3	10
43	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. Chemistry of Materials, 2021, 33, 2506-2515.	6.7	10
44	Evolution of incommensurate superstructure and electronic structure with Pb substitution in (Bi2â˜x) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	8
45	Light Controllable Electronic Phase Transition in Ionic Liquid Gated Monolayer Transition Metal Dichalcogenides. Nano Letters, 2021, 21, 6800-6806.	9.1	7
46	Effect of Copper Substrate Surface Orientation on the Reductive Functionalization of Graphene. Chemistry of Materials, 2019, 31, 8639-8648.	6.7	6
47	Tunable Terahertz Plasmons in Graphite Thin Films. Physical Review Letters, 2021, 126, 147401.	7.8	6
48	Selective hybridization between the main band and the superstructure band in the Bi2Sr2CaCu2O8+Î´ superconductor. Physical Review B, 2020, 101, .	3.2	5
49	Exchange Bias Effects in Ferromagnetic MnSb₂Te₄ down to a Monolayer. ACS Applied Electronic Materials, 2022, 4, 3256-3262.	4.3	5
50	Micro-Defects in Monolayer MoS2 Studied by Low-Temperature Magneto-Raman Mapping. Journal of Physical Chemistry C, 2020, 124, 17418-17422.	3.1	4
51	Trion-to-exciton upconversion dynamics in monolayer WSe2. Applied Physics Letters, 2020, 117, .	3.3	4
52	Persistence of Monoclinic Crystal Structure in 3D Secondâ€Order Topological Insulator Candidate 1 T â€²â€²MoTe ₂ Thin Flake Without Structural Phase Transition. Advanced Science, 2022, 9, 2101532.	11.2	4
53	Plasmonic Effect on the Magneto-Optical Property of Monolayer WS2 Studied by Polarized-Raman Spectroscopy. Applied Sciences (Switzerland), 2021, 11, 1599.	2.5	3
54	Influence of Si Co-doping on electrical transport properties of magnesium-doped boron nanoswords. Applied Physics Letters, 2012, 100, 103112.	3.3	2

#	Article	IF	Citations
55	Inspiration of wrinkles in layered material for the mechanism study of several geological activities. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 026101.	0.5	2
56	New progress and prospects of mechanical exfoliation technology of two-dimensional materials. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 108201.	0.5	1
57	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
58	Research on protection system of resonant network in CSNS magnet power supplies. Radiation Detection Technology and Methods, 2020, 4, 277-283.	0.8	0