He Yang

List of Publications by Year
in descending order

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40	2,697	394286 19	315616 38
papers	citations	h-index	g-index

42	42	42	4754
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oleylamine as Both Reducing Agent and Stabilizer in a Facile Synthesis of Magnetite Nanoparticles. Chemistry of Materials, 2009, 21, 1778-1780.	3.2	503
2	Roton pair density wave in a strong-coupling kagome superconductor. Nature, 2021, 599, 222-228.	13.7	276
3	Spin-polarized oxygen evolution reaction under magnetic field. Nature Communications, 2021, 12, 2608.	5.8	242
4	Solvothermal-assisted exfoliation process to produce graphene with high yield and high quality. Nano Research, 2009, 2, 706-712.	5.8	224
5	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. Nature Communications, 2021, 12, 3634.	5.8	186
6	Nearly quantized conductance plateau of vortex zero mode in an iron-based superconductor. Science, 2020, 367, 189-192.	6.0	172
7	Metal-like single crystalline boron nanotubes: synthesis and in situ study on electric transport and field emission properties. Journal of Materials Chemistry, 2010, 20, 2197.	6.7	157
8	An innovative way of etching MoS2: Characterization and mechanistic investigation. Nano Research, 2013, 6, 200-207.	5.8	140
9	One-Pot Synthesis of Graphene-Supported Monodisperse Pd Nanoparticles as Catalyst for Formic Acid Electro-oxidation. Scientific Reports, 2014, 4, 4501.	1.6	127
10	Control of Superhydrophilic and Superhydrophobic Graphene Interface. Scientific Reports, 2013, 3, .	1.6	100
11	Vaporâ€“Liquid Deposition Strategy To Prepare Superhydrophobic and Superoleophilic Graphene Aerogel for Oilâ€“Water Separation. ACS Applied Nano Materials, 2018, 1, 531-540.	2.4	54
12	Ferroelectric-Gated InSe Photodetectors with High On/Off Ratios and Photoresponsivity. Nano Letters, 2020, 20, 6666-6673.	4.5	53
13	Localized spin-orbit polaron in magnetic Weyl semimetal Co3Sn2S2. Nature Communications, 2020, 11, 5613.	5.8	53
14	Shape-Controlled Synthesis of Palladium Nanorods and Their Magnetic Properties. Journal of Physical Chemistry C, 2009, 113, 13466-13469.	1.5	50
15	Boron nanowires for flexible electronics. Applied Physics Letters, 2008, 93, .	1.5	33
16	Observation of magnetic adatom-induced Majorana vortex and its hybridization with field-induced Majorana vortex in an iron-based superconductor. Nature Communications, 2021, 12, 1348.	5.8	33
17	Epitaxy of Ultrathin SnSe Single Crystals on Polydimethylsiloxane: Inâ€Plane Electrical Anisotropy and Gateâ€Tunable Thermopower. Advanced Electronic Materials, 2016, 2, 1600292.	2.6	31
18	Impurity-induced formation of bilayered graphene on copper by chemical vapor deposition. Nano Research, 2016, 9, 2803-2810.	5.8	26

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19	Room-Temperature, Low-Barrier Boron Doping of Graphene. Nano Letters, 2015, 15, 6464-6468.	4.5	24
20	Effect of Contact Mode on the Electrical Transport and Fieldâ€Emission Performance of Individual Boron Nanowires. Advanced Functional Materials, 2010, 20, 1994-2003.	7.8	20
21	Synthesis, characterization and self-assemblies of magnetite nanoparticles. Surface and Interface Analysis, 2006, 38, 1063-1067.	0.8	19
22	Insulating SiO₂ under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. Nano Letters, 2020, 20, 8584-8591.	4.5	19
23	Pressure-induced superconducting state in crystalline boron nanowires. Physical Review B, 2009, 79, .	1.1	18
24	Patterned boron nanowires and field emission properties. Applied Physics Letters, 2009, 94, .	1.5	17
25	A new route to single crystalline vanadium dioxide nanoflakes via thermal reduction. Journal of Materials Research, 2007, 22, 1921-1926.	1.2	15
26	Synthesis of monodisperse CoPt3 nanocrystals and their catalytic behavior for growth of boron nanowires. Nano Research, 2011, 4, 780-787.	5.8	12
27	Fabrication of patterned boron carbide nanowires and their electrical, field emission, and flexibility properties. Nano Research, 2012, 5, 896-902.	5.8	12
28	Grapheneâ€“Silicon Layered Structures on Singleâ€Crystalline Ir(111) Thin Films. Advanced Materials Interfaces, 2015, 2, 1400543.	1.9	12
29	Preparation of graphene nanowalls on nickel foam as supercapacitor electrodes. Micro and Nano Letters, 2018, 13, 842-844.	0.6	12
30	Chirality locking charge density waves in a chiral crystal. Nature Communications, 2022, 13, .	5.8	12
31	A low-temperature scanning probe microscopy system with molecular beam epitaxy and optical access. Review of Scientific Instruments, 2018, 89, 113705.	0.6	9
32	Observation of an Incommensurate Charge Density Wave in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TiSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mn>1</mml:mn><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overl	2.8	9
33	2022, 128, 026401. Line defects in monolayer TiSe2 with adsorption of Pt atoms potentially enable excellent catalytic activity. Nano Research, 2022, 15, 4687-4692.	5.8	9
34	A facile fabrication of Cu2O nanowire arrays on Cu substrates. Open Engineering, 2012, 2, .	0.7	5
35	Graphene: Controlled Synthesis of Largeâ€Scale, Uniform, Vertically Standing Graphene for Highâ€Performance Field Emitters (Adv. Mater. 2/2013). Advanced Materials, 2013, 25, 292-292.	11.1	3
36	High-quality graphene grown on polycrystalline PtRh20 alloy foils by low pressure chemical vapor deposition and its electrical transport properties. Applied Physics Letters, 2016, 108, .	1.5	3

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37	Boron Nanowires for Flexible Electronics and Field Emission. , 2009, , .		2
38	Influence of Si Co-doping on electrical transport properties of magnesium-doped boron nanoswords. Applied Physics Letters, 2012, 100, 103112.	1.5	2
39	Modulation of field emission by small AC signals. Science China Technological Sciences, 2017, 60, 1897-1902.	2.0	2
40	One-dimensional weak antilocalization effect in 1Tâ€²-MoTe2 nanowires grown by chemical vapor deposition. Journal of Physics Condensed Matter, 2021, 33, 185701.	0.7	0