

He Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

1,705
citations

18
h-index

41
g-index

42
ext. papers

2,173
ext. citations

9.8
avg, IF

4.39
L-index

#	Paper	IF	Citations
38	Observation of an Incommensurate Charge Density Wave in Monolayer $\text{TiSe}_2/\text{CuSe}/\text{Cu}(111)$ Heterostructure.. <i>Physical Review Letters</i> , 2022 , 128, 026401	7.4	1
37	Observation of magnetic adatom-induced Majorana vortex and its hybridization with field-induced Majorana vortex in an iron-based superconductor. <i>Nature Communications</i> , 2021 , 12, 1348	17.4	7
36	Spin-polarized oxygen evolution reaction under magnetic field. <i>Nature Communications</i> , 2021 , 12, 2608	17.4	52
35	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. <i>Nature Communications</i> , 2021 , 12, 3634	17.4	31
34	Roton pair density wave in a strong-coupling kagome superconductor. <i>Nature</i> , 2021 , 599, 222-228	50.4	47
33	Localized spin-orbit polaron in magnetic Weyl semimetal CoSnS . <i>Nature Communications</i> , 2020 , 11, 5613	17.4	26
32	Nearly quantized conductance plateau of vortex zero mode in an iron-based superconductor. <i>Science</i> , 2020 , 367, 189-192	33.3	80
31	Insulating SiO under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. <i>Nano Letters</i> , 2020 , 20, 8584-8591	11.5	12
30	Ferroelectric-Gated InSe Photodetectors with High On/Off Ratios and Photoresponsivity. <i>Nano Letters</i> , 2020 , 20, 6666-6673	11.5	15
29	Vapor-Liquid Deposition Strategy To Prepare Superhydrophobic and Superoleophilic Graphene Aerogel for Oil/Water Separation. <i>ACS Applied Nano Materials</i> , 2018 , 1, 531-540	5.6	36
28	Preparation of graphene nanowalls on nickel foam as supercapacitor electrodes. <i>Micro and Nano Letters</i> , 2018 , 13, 842-844	0.9	12
27	A low-temperature scanning probe microscopy system with molecular beam epitaxy and optical access. <i>Review of Scientific Instruments</i> , 2018 , 89, 113705	1.7	2
26	Modulation of field emission by small AC signals. <i>Science China Technological Sciences</i> , 2017 , 60, 1897-1903	9.5	2
25	Impurity-induced formation of bilayered graphene on copper by chemical vapor deposition. <i>Nano Research</i> , 2016 , 9, 2803-2810	10	19
24	High-quality graphene grown on polycrystalline PtRh_{20} alloy foils by low pressure chemical vapor deposition and its electrical transport properties. <i>Applied Physics Letters</i> , 2016 , 108, 063102	3.4	3
23	Epitaxy of Ultrathin SnSe Single Crystals on Polydimethylsiloxane: In-Plane Electrical Anisotropy and Gate-Tunable Thermopower. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600292	6.4	23
22	Room-Temperature, Low-Barrier Boron Doping of Graphene. <i>Nano Letters</i> , 2015 , 15, 6464-8	11.5	18

21	GrapheneSilicon Layered Structures on Single-Crystalline Ir(111) Thin Films. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400543	4.6	11
20	One-pot synthesis of graphene-supported monodisperse Pd nanoparticles as catalyst for formic acid electro-oxidation. <i>Scientific Reports</i> , 2014 , 4, 4501	4.9	109
19	An innovative way of etching MoS ₂ : Characterization and mechanistic investigation. <i>Nano Research</i> , 2013 , 6, 200-207	10	128
18	Control of Superhydrophilic and Superhydrophobic Graphene Interface. <i>Scientific Reports</i> , 2013 , 3,	4.9	89
17	Graphene: Controlled Synthesis of Large-Scale, Uniform, Vertically Standing Graphene for High-Performance Field Emitters (Adv. Mater. 2/2013). <i>Advanced Materials</i> , 2013 , 25, 292-292	24	3
16	A facile fabrication of Cu ₂ O nanowire arrays on Cu substrates. <i>Open Engineering</i> , 2012 , 2,	1.7	5
15	Fabrication of patterned boron carbide nanowires and their electrical, field emission, and flexibility properties. <i>Nano Research</i> , 2012 , 5, 896-902	10	10
14	Influence of Si Co-doping on electrical transport properties of magnesium-doped boron nanowires. <i>Applied Physics Letters</i> , 2012 , 100, 103112	3.4	2
13	Synthesis of monodisperse CoPt ₃ nanocrystals and their catalytic behavior for growth of boron nanowires. <i>Nano Research</i> , 2011 , 4, 780-787	10	10
12	Metal-like single crystalline boron nanotubes: synthesis and in situ study on electric transport and field emission properties. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2197		139
11	Effect of Contact Mode on the Electrical Transport and Field-Emission Performance of Individual Boron Nanowires. <i>Advanced Functional Materials</i> , 2010 , 20, 1994-2003	15.6	17
10	Pressure-induced superconducting state in crystalline boron nanowires. <i>Physical Review B</i> , 2009 , 79,	3.3	15
9	Patterned boron nanowires and field emission properties. <i>Applied Physics Letters</i> , 2009 , 94, 083101	3.4	15
8	Boron Nanowires for Flexible Electronics and Field Emission 2009 ,		1
7	Solvothermal-assisted exfoliation process to produce graphene with high yield and high quality. <i>Nano Research</i> , 2009 , 2, 706-712	10	198
6	Shape-Controlled Synthesis of Palladium Nanorods and Their Magnetic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13466-13469	3.8	44
5	Oleylamine as Both Reducing Agent and Stabilizer in a Facile Synthesis of Magnetite Nanoparticles. <i>Chemistry of Materials</i> , 2009 , 21, 1778-1780	9.6	458
4	Boron nanowires for flexible electronics. <i>Applied Physics Letters</i> , 2008 , 93, 122105	3.4	27

3	A new route to single crystalline vanadium dioxide nanoflakes via thermal reduction. <i>Journal of Materials Research</i> , 2007 , 22, 1921-1926	2.5	15
2	Synthesis, characterization and self-assemblies of magnetite nanoparticles. <i>Surface and Interface Analysis</i> , 2006 , 38, 1063-1067	1.5	18
1	Line defects in monolayer TiSe ₂ with adsorption of Pt atoms potentially enable excellent catalytic activity. <i>Nano Research</i> , 1	10	1