

Yuanbo Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

19,630
citations

136885

32
h-index

302012

39
g-index

40
all docs

40
docs citations

40
times ranked

20691
citing authors

#	ARTICLE	IF	CITATIONS
1	Black phosphorus field-effect transistors. <i>Nature Nanotechnology</i> , 2014, 9, 372-377.	15.6	7,071
2	Direct observation of a widely tunable bandgap in bilayer graphene. <i>Nature</i> , 2009, 459, 820-823.	13.7	3,148
3	Gate-tunable room-temperature ferromagnetism in two-dimensional Fe ₃ GeTe ₂ . <i>Nature</i> , 2018, 563, 94-99.	13.7	1,646
4	Quantum anomalous Hall effect in intrinsic magnetic topological insulator MnBi ₂ Te ₄ . <i>Science</i> , 2020, 367, 895-900.	6.0	909
5	Origin of spatial charge inhomogeneity in graphene. <i>Nature Physics</i> , 2009, 5, 722-726.	6.5	630
6	Direct observation of the layer-dependent electronic structure in phosphorene. <i>Nature Nanotechnology</i> , 2017, 12, 21-25.	15.6	625
7	Gate-tunable phase transitions in thin flakes of 1T-TaS ₂ . <i>Nature Nanotechnology</i> , 2015, 10, 270-276.	15.6	584
8	Signatures of tunable superconductivity in a trilayer graphene moiré superlattice. <i>Nature</i> , 2019, 572, 215-219.	13.7	458
9	Drude conductivity of Dirac fermions in graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	447
10	Evidence of a gate-tunable Mott insulator in a trilayer graphene moiré superlattice. <i>Nature Physics</i> , 2019, 15, 237-241.	6.5	436
11	Tunable correlated Chern insulator and ferromagnetism in a moiré superlattice. <i>Nature</i> , 2020, 579, 56-61.	13.7	425
12	Giant phonon-induced conductance in scanning tunnelling spectroscopy of gate-tunable graphene. <i>Nature Physics</i> , 2008, 4, 627-630.	6.5	404
13	Quantum Hall effect in black phosphorus two-dimensional electron system. <i>Nature Nanotechnology</i> , 2016, 11, 593-597.	15.6	356
14	Gate-tunable topological valley transport in bilayer graphene. <i>Nature Physics</i> , 2015, 11, 1027-1031.	6.5	301
15	Quantum oscillations in a two-dimensional electron gas in black phosphorus thin films. <i>Nature Nanotechnology</i> , 2015, 10, 608-613.	15.6	282
16	Scanning tunneling spectroscopy of inhomogeneous electronic structure in monolayer and bilayer graphene on SiC. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	238
17	High-temperature superconductivity in monolayer Bi ₂ Sr ₂ CaCu ₂ O ₈ +f. <i>Nature</i> , 2019, 575, 156-163.	13.7	218
18	A metallic mosaic phase and the origin of Mott-insulating state in 1T-TaS ₂ . <i>Nature Communications</i> , 2016, 7, 10956.	5.8	196

#	ARTICLE	IF	CITATIONS
19	Gaps induced by inversion symmetry breaking and a second-generation Dirac cones in graphene/hexagonal boron nitride. <i>Nature Physics</i> , 2016, 12, 1111-1115.	6.5	179
20	Widely Tunable Terahertz Phase Modulation with Gate-Controlled Graphene Metasurfaces. <i>Physical Review X</i> , 2015, 5, .	2.8	173
21	Thermally Induced Graphene Rotation on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2016, 116, 126101.	2.9	142
22	Gate-Tunable Topological Flat Bands in Trilayer Graphene Boron-Nitride Moiré Superlattices. <i>Physical Review Letters</i> , 2019, 122, 016401.	2.9	130
23	Mechanism of Electric Power Generation from Ionic Droplet Motion on Polymer Supported Graphene. <i>Journal of the American Chemical Society</i> , 2018, 140, 13746-13752.	6.6	87
24	Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. <i>Nature Materials</i> , 2020, 19, 292-298.	13.3	77
25	Gate-dependent pseudospin mixing in graphene/boron nitride moiré superlattices. <i>Nature Physics</i> , 2014, 10, 743-747.	6.5	64
26	Gate-tuned graphene meta-devices for dynamically controlling terahertz wavefronts. <i>Nanophotonics</i> , 2022, 11, 2085-2096.	2.9	50
27	HgCdTe/black phosphorus van der Waals heterojunction for high-performance polarization-sensitive midwave infrared photodetector. <i>Science Advances</i> , 2022, 8, eabn1811.	4.7	50
28	Flat Chern Band from Twisted Bilayer MnBi_2Te_4 . <i>Physical Review Letters</i> , 2020, 124, 126402.	2.9	48
29	Quantum Hall Effect in Electron-Doped Black Phosphorus Field-Effect Transistors. <i>Nano Letters</i> , 2018, 18, 6611-6616.	4.5	47
30	Polymer Adsorption on Graphite and CVD Graphene Surfaces Studied by Surface-Specific Vibrational Spectroscopy. <i>Nano Letters</i> , 2015, 15, 6501-6505.	4.5	39
31	Hofstadter Butterfly and Many-Body Effects in Epitaxial Graphene Superlattice. <i>Nano Letters</i> , 2016, 16, 2387-2392.	4.5	36
32	Anisotropic moiré optical transitions in twisted monolayer/bilayer phosphorene heterostructures. <i>Nature Communications</i> , 2021, 12, 3947.	5.8	33
33	Spectroscopy signatures of electron correlations in a trilayer graphene/hBN moiré superlattice. <i>Science</i> , 2022, 375, 1295-1299.	6.0	30
34	Mapping Dynamical Magnetic Responses of Ultrathin Micron-Size Superconducting Films Using Nitrogen-Vacancy Centers in Diamond. <i>Nano Letters</i> , 2019, 19, 5697-5702.	4.5	18
35	Engineering single-molecule fluorescence with asymmetric nano-antennas. <i>Light: Science and Applications</i> , 2021, 10, 79.	7.7	18
36	Tunable Orbital Ferromagnetism at Noninteger Filling of a Moiré Superlattice. <i>Nano Letters</i> , 2022, 22, 238-245.	4.5	17

#	ARTICLE	IF	CITATIONS
37	Zeeman effect of the topological surface states revealed by quantum oscillations up to 91 Tesla. Physical Review B, 2015, 92, .	1.1	11
38	Layer Controllable Graphene Using Graphite Intercalation Compounds with Different Stage Numbers through Li Conversion Reaction. Advanced Materials Interfaces, 2016, 3, 1500496.	1.9	4
39	Optical spectroscopy of bilayer graphene. Physica Status Solidi (B): Basic Research, 2010, 247, 2931-2934.	0.7	3
40	Infrared spectroscopy of graphene. , 2011, , .		0