

Shiang Fang

List of Publications by Citations

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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.

46
papers

7,247
citations

25
h-index

52
g-index

52
ext. papers

10,422
ext. citations

13.6
avg, IF

6.39
L-index

#	Paper	IF	Citations
46	Unconventional superconductivity in magic-angle graphene superlattices. <i>Nature</i> , 2018 , 556, 43-50	50.4	2942
45	Correlated insulator behaviour at half-filling in magic-angle graphene superlattices. <i>Nature</i> , 2018 , 556, 80-84	50.4	1771
44	MoS Field-Effect Transistor with Sub-10 nm Channel Length. <i>Nano Letters</i> , 2016 , 16, 7798-7806	11.5	283
43	Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene. <i>Nature Materials</i> , 2019 , 18, 448-453	27	282
42	Superlattice-Induced Insulating States and Valley-Protected Orbits in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2016 , 117, 116804	7.4	218
41	Twistronics: Manipulating the electronic properties of two-dimensional layered structures through their twist angle. <i>Physical Review B</i> , 2017 , 95,	3.3	171
40	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. <i>Nature</i> , 2019 , 565, 337-342	50.4	159
39	Dirac fermions and flat bands in the ideal kagome metal FeSn. <i>Nature Materials</i> , 2020 , 19, 163-169	27	121
38	Electronic structure theory of weakly interacting bilayers. <i>Physical Review B</i> , 2016 , 93,	3.3	114
37	Ab initio tight-binding Hamiltonian for transition metal dichalcogenides. <i>Physical Review B</i> , 2015 , 92,	3.3	111
36	Exact continuum model for low-energy electronic states of twisted bilayer graphene. <i>Physical Review Research</i> , 2019 , 1,	3.9	105
35	Pressure dependence of the magic twist angle in graphene superlattices. <i>Physical Review B</i> , 2018 , 98,	3.3	103
34	Enhancement of interlayer exchange in an ultrathin two-dimensional magnet. <i>Nature Physics</i> , 2019 , 15, 1255-1260	16.2	85
33	Magnetic resonance spectroscopy of an atomically thin material using a single-spin qubit. <i>Science</i> , 2017 , 355, 503-507	33.3	74
32	Strain dependence of band gaps and exciton energies in pure and mixed transition-metal dichalcogenides. <i>Physical Review B</i> , 2016 , 94,	3.3	72
31	Berry curvature dipole current in the transition metal dichalcogenides family. <i>Physical Review B</i> , 2018 , 98,	3.3	66
30	Theory of Graphene Raman Scattering. <i>ACS Nano</i> , 2016 , 10, 2803-18	16.7	65

29	Electronic-structure methods for twisted moiré layers. <i>Nature Reviews Materials</i> , 2020 , 5, 748-763	73.3	51
28	Revealing the Empty-State Electronic Structure of Single-Unit-Cell FeSe/SrTiO ₃ . <i>Physical Review Letters</i> , 2015 , 115, 017002	7.4	48
27	Enhanced superconductivity upon weakening of charge density wave transport in 2H-TaS ₂ in the two-dimensional limit. <i>Physical Review B</i> , 2018 , 98,	3.3	46
26	Topological flat bands in frustrated kagome lattice CoSn. <i>Nature Communications</i> , 2020 , 11, 4004	17.4	43
25	Electronic structure theory of strained two-dimensional materials with hexagonal symmetry. <i>Physical Review B</i> , 2018 , 98,	3.3	37
24	Atomic electrostatic maps of 1D channels in 2D semiconductors using 4D scanning transmission electron microscopy. <i>Nature Communications</i> , 2019 , 10, 1127	17.4	33
23	Quantum criticality from in situ density imaging. <i>Physical Review A</i> , 2011 , 83,	2.6	30
22	Derivation of Wannier orbitals and minimal-basis tight-binding Hamiltonians for twisted bilayer graphene: First-principles approach. <i>Physical Review Research</i> , 2019 , 1,	3.9	26
21	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17499-17507	16.4	23
20	Dihedral-angle-corrected registry-dependent interlayer potential for multilayer graphene structures. <i>Physical Review B</i> , 2018 , 98,	3.3	23
19	Clean 2D superconductivity in a bulk van der Waals superlattice. <i>Science</i> , 2020 , 370, 231-236	33.3	21
18	Creating Weyl nodes and controlling their energy by magnetization rotation. <i>Physical Review Research</i> , 2019 , 1,	3.9	18
17	Simultaneous Identification of Low and High Atomic Number Atoms in Monolayer 2D Materials Using 4D Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2019 , 19, 6482-6491	11.5	17
16	Twofold van Hove singularity and origin of charge order in topological kagome superconductor CsV ₃ Sb ₅ . <i>Nature Physics</i> ,	16.2	16
15	Bounds on nanoscale nematicity in single-layer FeSe/SrTiO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	11
14	Quantum and thermal transitions out of the pair-supersolid phase of two-species bosons on a square lattice. <i>Physical Review B</i> , 2012 , 85,	3.3	10
13	High performance tunnel field effect transistors based on in-plane transition metal dichalcogenide heterojunctions. <i>Nanotechnology</i> , 2019 , 30, 025201	3.4	10
12	Observation of interband collective excitations in twisted bilayer graphene. <i>Nature Physics</i> ,	16.2	7

11	A Michelson Interferometer for Relative Phase Locking of Optical Beams. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 024301	1.5	6
10	Spectroscopic Signatures of Interlayer Coupling in Janus MoSSe/MoS Heterostructures. <i>ACS Nano</i> , 2021 , 15, 14394-14403	16.7	6
9	Evidence of two-dimensional flat band at the surface of antiferromagnetic kagome metal FeSn. <i>Nature Communications</i> , 2021 , 12, 5345	17.4	5
8	Tuning the Kosterlitz-Thouless transition to zero temperature in anisotropic boson systems. <i>Physical Review A</i> , 2012 , 86,	2.6	4
7	Moiré Superlattice on the surface of a topological insulator. <i>Physical Review B</i> , 2021 , 103,	3.3	4
6	Quantum fluctuations and condensate fraction during time-of-flight expansion. <i>Physical Review A</i> , 2010 , 82,	2.6	3
5	Compression of Wannier functions into Gaussian-type orbitals. <i>Computer Physics Communications</i> , 2018 , 230, 27-37	4.2	2
4	Effects of structural distortions on the electronic structure of T-type transition metal dichalcogenides. <i>Physical Review B</i> , 2020 , 102,	3.3	1
3	Signatures of bosonic Landau levels in a finite-momentum superconductor. <i>Nature</i> , 2021 , 599, 51-56	50.4	0
2	Magnetic Weyl Semimetallic Phase in Thin Films of $\text{Eu}_{1-x}\text{Ir}_x\text{O}_3$. <i>Physical Review Letters</i> , 2021 , 127, 277204	7.4	0
1	Modeling Electronic Properties of Twisted 2D Atomic Heterostructures. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 245-265	0.2	