

Kin Fai Mak

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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.

88
papers

31,006
citations

49
h-index

100
g-index

100
ext. papers

36,652
ext. citations

19.7
avg. IF

7.71
L-index

#	Paper	IF	Citations
88	Atomically thin MoS ₂ a new direct-gap semiconductor. <i>Physical Review Letters</i> , 2010 , 105, 136805	7.4	10306
87	Control of valley polarization in monolayer MoS ₂ by optical helicity. <i>Nature Nanotechnology</i> , 2012 , 7, 494-8	28.7	2670
86	Photonics and optoelectronics of 2D semiconductor transition metal dichalcogenides. <i>Nature Photonics</i> , 2016 , 10, 216-226	33.9	1997
85	Tightly bound trions in monolayer MoS ₂ . <i>Nature Materials</i> , 2013 , 12, 207-11	27	1878
84	High-mobility three-atom-thick semiconducting films with wafer-scale homogeneity. <i>Nature</i> , 2015 , 520, 656-60	50.4	1224
83	Measurement of the optical conductivity of graphene. <i>Physical Review Letters</i> , 2008 , 101, 196405	7.4	1190
82	Tightly bound excitons in monolayer WSe ₂ . <i>Physical Review Letters</i> , 2014 , 113, 026803	7.4	762
81	Experimental demonstration of continuous electronic structure tuning via strain in atomically thin MoS ₂ . <i>Nano Letters</i> , 2013 , 13, 2931-6	11.5	675
80	Probing symmetry properties of few-layer MoS ₂ and h-BN by optical second-harmonic generation. <i>Nano Letters</i> , 2013 , 13, 3329-33	11.5	649
79	Ising pairing in superconducting NbSe ₂ atomic layers. <i>Nature Physics</i> , 2016 , 12, 139-143	16.2	534
78	Ultraflat graphene. <i>Nature</i> , 2009 , 462, 339-41	50.4	527
77	Controlling magnetism in 2D CrI ₃ by electrostatic doping. <i>Nature Nanotechnology</i> , 2018 , 13, 549-553	28.7	525
76	Optical spectroscopy of graphene: From the far infrared to the ultraviolet. <i>Solid State Communications</i> , 2012 , 152, 1341-1349	1.6	485
75	Observation of an electric-field-induced band gap in bilayer graphene by infrared spectroscopy. <i>Physical Review Letters</i> , 2009 , 102, 256405	7.4	485
74	Strongly enhanced charge-density-wave order in monolayer NbSe ₂ . <i>Nature Nanotechnology</i> , 2015 , 10, 765-9	28.7	474
73	Electric-field switching of two-dimensional van der Waals magnets. <i>Nature Materials</i> , 2018 , 17, 406-410	27	431
72	Observation of intense second harmonic generation from MoS ₂ atomic crystals. <i>Physical Review B</i> , 2013 , 87,	3.3	425

71	Observation of an electrically tunable band gap in trilayer graphene. <i>Nature Physics</i> , 2011 , 7, 944-947	16.2	419
70	Breaking of valley degeneracy by magnetic field in monolayer MoSe ₂ . <i>Physical Review Letters</i> , 2015 , 114, 037401	7.4	401
69	Ultrafast photoluminescence from graphene. <i>Physical Review Letters</i> , 2010 , 105, 127404	7.4	332
68	Seeing many-body effects in single- and few-layer graphene: observation of two-dimensional saddle-point excitons. <i>Physical Review Letters</i> , 2011 , 106, 046401	7.4	315
67	Electrical control of the valley Hall effect in bilayer MoS ₂ transistors. <i>Nature Nanotechnology</i> , 2016 , 11, 421-5	28.7	246
66	Electronic structure of few-layer graphene: experimental demonstration of strong dependence on stacking sequence. <i>Physical Review Letters</i> , 2010 , 104, 176404	7.4	221
65	Strong enhancement of light-matter interaction in graphene coupled to a photonic crystal nanocavity. <i>Nano Letters</i> , 2012 , 12, 5626-31	11.5	204
64	Simulation of Hubbard model physics in WSe ₂ /WS ₂ moiré superlattices. <i>Nature</i> , 2020 , 579, 353-358	50.4	195
63	Light-valley interactions in 2D semiconductors. <i>Nature Photonics</i> , 2018 , 12, 451-460	33.9	187
62	Pressure-controlled interlayer magnetism in atomically thin CrI ₃ . <i>Nature Materials</i> , 2019 , 18, 1303-1308	27	178
61	Electron and optical phonon temperatures in electrically biased graphene. <i>Physical Review Letters</i> , 2010 , 104, 227401	7.4	162
60	Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. <i>Nature</i> , 2019 , 574, 76-80	50.4	162
59	The evolution of electronic structure in few-layer graphene revealed by optical spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14999-5004	11.5	161
58	Controlling the spontaneous emission rate of monolayer MoS ₂ in a photonic crystal nanocavity. <i>Applied Physics Letters</i> , 2013 , 103, 181119	3.4	155
57	High-contrast electrooptic modulation of a photonic crystal nanocavity by electrical gating of graphene. <i>Nano Letters</i> , 2013 , 13, 691-6	11.5	151
56	Measurement of the thermal conductance of the graphene/SiO ₂ interface. <i>Applied Physics Letters</i> , 2010 , 97, 221904	3.4	148
55	Probing and controlling magnetic states in 2D layered magnetic materials. <i>Nature Reviews Physics</i> , 2019 , 1, 646-661	23.6	129
54	Valley- and spin-polarized Landau levels in monolayer WSe ₂ . <i>Nature Nanotechnology</i> , 2017 , 12, 144-149	28.7	121

53	Evolution of interlayer and intralayer magnetism in three atomically thin chromium trihalides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11131-11136	11.5	120
52	Nonlinear anomalous Hall effect in few-layer WTe. <i>Nature Materials</i> , 2019 , 18, 324-328	27	117
51	Gate Tuning of Electronic Phase Transitions in Two-Dimensional NbSe ₂ . <i>Physical Review Letters</i> , 2016 , 117, 106801	7.4	105
50	Time-resolved Raman spectroscopy of optical phonons in graphite: Phonon anharmonic coupling and anomalous stiffening. <i>Physical Review B</i> , 2009 , 80,	3.3	105
49	Possible topological superconducting phases of MoS ₂ . <i>Physical Review Letters</i> , 2014 , 113, 097001	7.4	104
48	Valley magnetoelectricity in single-layer MoS. <i>Nature Materials</i> , 2017 , 16, 887-891	27	101
47	Spin tunnel field-effect transistors based on two-dimensional van der Waals heterostructures. <i>Nature Electronics</i> , 2019 , 2, 159-163	28.4	99
46	Correlated insulating states at fractional fillings of moiré superlattices. <i>Nature</i> , 2020 , 587, 214-218	50.4	82
45	Probing the Spin-Polarized Electronic Band Structure in Monolayer Transition Metal Dichalcogenides by Optical Spectroscopy. <i>Nano Letters</i> , 2017 , 17, 740-746	11.5	80
44	Electrical Tuning of Interlayer Exciton Gases in WSe Bilayers. <i>Nano Letters</i> , 2018 , 18, 137-143	11.5	67
43	Observation of intra- and inter-band transitions in the transient optical response of graphene. <i>New Journal of Physics</i> , 2013 , 15, 015009	2.9	66
42	An unusual continuous paramagnetic-limited superconducting phase transition in 2D NbSe. <i>Nature Materials</i> , 2018 , 17, 504-508	27	58
41	Tuning Many-Body Interactions in Graphene: The Effects of Doping on Excitons and Carrier Lifetimes. <i>Physical Review Letters</i> , 2014 , 112,	7.4	57
40	Structure-dependent Fano resonances in the infrared spectra of phonons in few-layer graphene. <i>Physical Review Letters</i> , 2012 , 108, 156801	7.4	54
39	Real-time observation of interlayer vibrations in bilayer and few-layer graphene. <i>Nano Letters</i> , 2013 , 13, 4620-3	11.5	44
38	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021 , 6, 201-206	73.3	41
37	Stripe phases in WSe/WS moiré superlattices. <i>Nature Materials</i> , 2021 , 20, 940-944	27	41
36	Layer-dependent spin-orbit torques generated by the centrosymmetric transition metal dichalcogenide MoTe_2 . <i>Physical Review B</i> , 2019 , 100,	3.3	36

35	Opportunities and challenges of interlayer exciton control and manipulation. <i>Nature Nanotechnology</i> , 2018 , 13, 974-976	28.7	36
34	Gate-tunable spin waves in antiferromagnetic atomic bilayers. <i>Nature Materials</i> , 2020 , 19, 838-842	27	35
33	Probing many-body interactions in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	34
32	Exchange magnetostriction in two-dimensional antiferromagnets. <i>Nature Materials</i> , 2020 , 19, 1295-1299	27	31
31	Effect of Surface States on Terahertz Emission from the Bi ₂ Se ₃ Surface. <i>Scientific Reports</i> , 2015 , 5, 10308	4.9	30
30	Strongly Interaction-Enhanced Valley Magnetic Response in Monolayer WSe ₂ . <i>Physical Review Letters</i> , 2018 , 120, 066402	7.4	30
29	Continuous Mott transition in semiconductor moiré superlattices. <i>Nature</i> , 2021 , 597, 350-354	50.4	29
28	Long valley lifetime of dark excitons in single-layer WSe. <i>Nature Communications</i> , 2019 , 10, 4047	17.4	27
27	Quantum anomalous Hall effect from intertwined moiré bands. <i>Nature</i> , 2021 , 600, 641-646	50.4	18
26	Strongly correlated excitonic insulator in atomic double layers. <i>Nature</i> , 2021 , 598, 585-589	50.4	18
25	Tuning layer-hybridized moiré excitons by the quantum-confined Stark effect. <i>Nature Nanotechnology</i> , 2021 , 16, 52-57	28.7	18
24	Nanomaterials: 2D materials for silicon photonics. <i>Nature Nanotechnology</i> , 2017 , 12, 1121-1122	28.7	16
23	Manipulation of the van der Waals Magnet CrGeTe by Spin-Orbit Torques. <i>Nano Letters</i> , 2020 , 20, 7482-7488	16.8	16
22	Creation of moiré bands in a monolayer semiconductor by spatially periodic dielectric screening. <i>Nature Materials</i> , 2021 , 20, 645-649	27	15
21	Coexisting ferromagnetic-antiferromagnetic state in twisted bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2021 ,	28.7	14
20	Two-fold symmetric superconductivity in few-layer NbSe ₂ . <i>Nature Physics</i> , 2021 , 17, 949-954	16.2	14
19	Imaging and control of critical fluctuations in two-dimensional magnets. <i>Nature Materials</i> , 2020 , 19, 1290-1294	13	13
18	Strain relaxation induced transverse resistivity anomalies in SrRuO ₃ thin films. <i>Physical Review B</i> , 2020 , 102,	3.3	12

17	Magneto-Memristive Switching in a 2D Layer Antiferromagnet. <i>Advanced Materials</i> , 2020 , 32, e1905433	24	12
16	Reproducibility in the fabrication and physics of moiré materials.. <i>Nature</i> , 2022 , 602, 41-50	50.4	11
15	Valley-Selective Exciton Bistability in a Suspended Monolayer Semiconductor. <i>Nano Letters</i> , 2018 , 18, 3213-3220	11.5	9
14	Charge-order-enhanced capacitance in semiconductor moiré superlattices. <i>Nature Nanotechnology</i> , 2021 , 16, 1068-1072	28.7	9
13	Valley-Polarized Quantum Anomalous Hall State in Moiré MoTe ₂ /WSe ₂ Heterobilayers.. <i>Physical Review Letters</i> , 2022 , 128, 026402	7.4	7
12	Electrical switching of valley polarization in monolayer semiconductors. <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
11	Tunable Exciton-Optomechanical Coupling in Suspended Monolayer MoSe. <i>Nano Letters</i> , 2021 , 21, 2538-2543	25.4	7
10	Air-Stable and Layer-Dependent Ferromagnetism in Atomically Thin van der Waals CrPS. <i>ACS Nano</i> , 2021 , 15, 16904-16912	16.7	6
9	Observation of site-controlled localized charged excitons in CrI/WSe heterostructures. <i>Nature Communications</i> , 2020 , 11, 5502	17.4	6
8	Mirrors made of a single atomic layer. <i>Nature</i> , 2018 , 556, 177-178	50.4	4
7	Emergence of a noncollinear magnetic state in twisted bilayer CrI ₃		4
6	Quantum Oscillations in Two-Dimensional Insulators Induced by Graphite Gates.. <i>Physical Review Letters</i> , 2021 , 127, 247702	7.4	4
5	Spin Dynamics Slowdown near the Antiferromagnetic Critical Point in Atomically Thin FePS. <i>Nano Letters</i> , 2021 , 21, 5045-5052	11.5	3
4	Dipolar excitonic insulator in a moiré lattice. <i>Nature Physics</i> ,	16.2	2
3	Strong interlayer interactions in bilayer and trilayer moiré superlattices.. <i>Science Advances</i> , 2022 , 8, eabk1911	19.1	1
2	Spectral and spatial isolation of single tungsten diselenide quantum emitters using hexagonal boron nitride wrinkles. <i>APL Photonics</i> , 2020 , 5, 096105	5.2	0
1	Memristive Switching: Magneto-Memristive Switching in a 2D Layer Antiferromagnet (Adv. Mater. 2/2020). <i>Advanced Materials</i> , 2020 , 32, 2070010	24	