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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.

74 papers	23,536 citations	35 h-index	88 g-index
88 ext. papers	28,243 ext. citations	19.9 avg, IF	7.53 L-index

#	Paper	IF	Citations
74	Atomically thin MoS ₂ : a new direct-gap semiconductor. <i>Physical Review Letters</i> , 2010 , 105, 136805	7.4	10306
73	Control of valley polarization in monolayer MoS ₂ by optical helicity. <i>Nature Nanotechnology</i> , 2012 , 7, 494-8	28.7	2670
72	Photonics and optoelectronics of 2D semiconductor transition metal dichalcogenides. <i>Nature Photonics</i> , 2016 , 10, 216-226	33.9	1997
71	Tightly bound trions in monolayer MoS ₂ . <i>Nature Materials</i> , 2013 , 12, 207-11	27	1878
70	Tightly bound excitons in monolayer WSe ₂ . <i>Physical Review Letters</i> , 2014 , 113, 026803	7.4	762
69	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
68	Ising pairing in superconducting NbSe ₂ atomic layers. <i>Nature Physics</i> , 2016 , 12, 139-143	16.2	534
67	Controlling magnetism in 2D CrI ₃ by electrostatic doping. <i>Nature Nanotechnology</i> , 2018 , 13, 549-553	28.7	525
66	Strongly enhanced charge-density-wave order in monolayer NbSe ₂ . <i>Nature Nanotechnology</i> , 2015 , 10, 765-9	28.7	474
65	Electric-field switching of two-dimensional van der Waals magnets. <i>Nature Materials</i> , 2018 , 17, 406-410	27	431
64	Electrical control of the valley Hall effect in bilayer MoS ₂ transistors. <i>Nature Nanotechnology</i> , 2016 , 11, 421-5	28.7	246
63	Simulation of Hubbard model physics in WSe ₂ /WS ₂ moiré superlattices. <i>Nature</i> , 2020 , 579, 353-358	50.4	195
62	Orientation of luminescent excitons in layered nanomaterials. <i>Nature Nanotechnology</i> , 2013 , 8, 271-6	28.7	195
61	Light-valley interactions in 2D semiconductors. <i>Nature Photonics</i> , 2018 , 12, 451-460	33.9	187
60	Pressure-controlled interlayer magnetism in atomically thin CrI ₃ . <i>Nature Materials</i> , 2019 , 18, 1303-1308	27	178
59	Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. <i>Nature</i> , 2019 , 574, 76-80	50.4	162
58	Probing and controlling magnetic states in 2D layered magnetic materials. <i>Nature Reviews Physics</i> , 2019 , 1, 646-661	23.6	129

57	Valley- and spin-polarized Landau levels in monolayer WSe. <i>Nature Nanotechnology</i> , 2017 , 12, 144-149	28.7	121
56	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
55	Nonlinear anomalous Hall effect in few-layer WTe. <i>Nature Materials</i> , 2019 , 18, 324-328	27	117
54	Gate Tuning of Electronic Phase Transitions in Two-Dimensional NbSe ₂ . <i>Physical Review Letters</i> , 2016 , 117, 106801	7.4	105
53	Valley magnetoelectricity in single-layer MoS. <i>Nature Materials</i> , 2017 , 16, 887-891	27	101
52	Spin tunnel field-effect transistors based on two-dimensional van der Waals heterostructures. <i>Nature Electronics</i> , 2019 , 2, 159-163	28.4	99
51	Synthesis, lattice structure, and band gap of ZnSnN ₂ . <i>MRS Communications</i> , 2013 , 3, 135-138	2.7	89
50	Correlated insulating states at fractional fillings of moiré superlattices. <i>Nature</i> , 2020 , 587, 214-218	50.4	82
49	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
48	Charge-neutral disorder and polytypes in heterovalent wurtzite-based ternary semiconductors: The importance of the octet rule. <i>Physical Review B</i> , 2015 , 91,	3.3	76
47	Electrically tunable single- and few-layer MoS nanoelectromechanical systems with broad dynamic range. <i>Science Advances</i> , 2018 , 4, eaao6653	14.3	67
46	Electrical Tuning of Interlayer Exciton Gases in WSe Bilayers. <i>Nano Letters</i> , 2018 , 18, 137-143	11.5	67
45	An unusual continuous paramagnetic-limited superconducting phase transition in 2D NbSe. <i>Nature Materials</i> , 2018 , 17, 504-508	27	58
44	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
43	Stripe phases in WSe/WS moiré superlattices. <i>Nature Materials</i> , 2021 , 20, 940-944	27	41
42	Layer-dependent spin-orbit torques generated by the centrosymmetric transition metal dichalcogenide MoTe_2 . <i>Physical Review B</i> , 2019 , 100,	3.3	36
41	Terahertz Photonic Crystals Based on Barium Titanate/Polymer Nanocomposites. <i>Advanced Materials</i> , 2008 , 20, 3649-3653	24	36
40	Opportunities and challenges of interlayer exciton control and manipulation. <i>Nature Nanotechnology</i> , 2018 , 13, 974-976	28.7	36

39	Gate-tunable spin waves in antiferromagnetic atomic bilayers. <i>Nature Materials</i> , 2020 , 19, 838-842	27	35
38	Probing many-body interactions in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99,	3.3	34
37	NaSnAs: An Exfoliatable Layered van der Waals Zintl Phase. <i>ACS Nano</i> , 2016 , 10, 9500-9508	16.7	33
36	Exchange magnetostriction in two-dimensional antiferromagnets. <i>Nature Materials</i> , 2020 , 19, 1295-1299	27	31
35	Effect of Surface States on Terahertz Emission from the Bi ₂ Se ₃ Surface. <i>Scientific Reports</i> , 2015 , 5, 10308	4.9	30
34	Strongly Interaction-Enhanced Valley Magnetic Response in Monolayer WSe ₂ . <i>Physical Review Letters</i> , 2018 , 120, 066402	7.4	30
33	Embracing structural nonidealities and asymmetries in two-dimensional nanomechanical resonators. <i>Scientific Reports</i> , 2014 , 4, 3919	4.9	29
32	Continuous Mott transition in semiconductor moiré superlattices. <i>Nature</i> , 2021 , 597, 350-354	50.4	29
31	Circularly polarized light in the single-cycle limit: The nature of highly polychromatic radiation of defined polarization. <i>Optics Express</i> , 2009 , 17, 7431-9	3.3	28
30	Long valley lifetime of dark excitons in single-layer WSe. <i>Nature Communications</i> , 2019 , 10, 4047	17.4	27
29	Size dependence of two-photon absorption in semiconductor quantum dots. <i>Journal of Applied Physics</i> , 2013 , 114, 014301	2.5	26
28	Excitons and emergent quantum phenomena in stacked 2D semiconductors. <i>Nature</i> , 2021 , 599, 383-392	50.4	24
27	Terahertz Electric Polarizability of Excitons in PbSe and CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5904-5908	3.8	19
26	Quantum anomalous Hall effect from intertwined moiré bands.. <i>Nature</i> , 2021 , 600, 641-646	50.4	18
25	Strongly correlated excitonic insulator in atomic double layers. <i>Nature</i> , 2021 , 598, 585-589	50.4	18
24	Tuning layer-hybridized moiré excitons by the quantum-confined Stark effect. <i>Nature Nanotechnology</i> , 2021 , 16, 52-57	28.7	18
23	Manipulation of the van der Waals Magnet CrGeTe by Spin-Orbit Torques. <i>Nano Letters</i> , 2020 , 20, 7482-7488	14.5	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. <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	
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	Valley-Selective Exciton Bistability in a Suspended Monolayer Semiconductor. <i>Nano Letters</i> , 2018 , 18, 3213-3220	11.5	9
15	Charge-order-enhanced capacitance in semiconductor moiré superlattices. <i>Nature Nanotechnology</i> , 2021 , 16, 1068-1072	28.7	9
14	Vapor-Liquid-Solid synthesis of ZnSnN ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600718	1.3	8
13	Effect of Cation Sublattice Ordering on Structure and Raman Scattering of ZnGeN ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1493, 237-242		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	25.43	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	Emergence of a noncollinear magnetic state in twisted bilayer CrI ₃		4
7	Quantum Oscillations in Two-Dimensional Insulators Induced by Graphite Gates.. <i>Physical Review Letters</i> , 2021 , 127, 247702	7.4	4
6	Spin Dynamics Slowdown near the Antiferromagnetic Critical Point in Atomically Thin FePS. <i>Nano Letters</i> , 2021 , 21, 5045-5052	11.5	3
5	Dipolar excitonic insulator in a moiré lattice. <i>Nature Physics</i> ,	16.2	2
4	Strong interlayer interactions in bilayer and trilayer moiré superlattices.. <i>Science Advances</i> , 2022 , 8, eabk1941	19.1	1

- 3 Spectral and spatial isolation of single tungsten diselenide quantum emitters using hexagonal boron nitride wrinkles. *APL Photonics*, **2020**, 5, 096105 5.2 0
- 2 Memristive Switching: Magneto-Memristive Switching in a 2D Layer Antiferromagnet (Adv. Mater. 2/2020). *Advanced Materials*, **2020**, 32, 2070010 24
- 1 Optical Data Storage: Roll-to-Roll Fabrication of Multilayer Films for High Capacity Optical Data Storage (Adv. Mater. 38/2012). *Advanced Materials*, **2012**, 24, 5146-5146 24