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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.

67 papers	2,585 citations	25 h-index	50 g-index
74 ext. papers	3,024 ext. citations	7.4 avg, IF	4.68 L-index

#	Paper	IF	Citations
67	Visualizing individual nitrogen dopants in monolayer graphene. <i>Science</i> , <b>2011</b> , 333, 999-1003	33.3	697
66	Influence of copper crystal surface on the CVD growth of large area monolayer graphene. <i>Solid State Communications</i> , <b>2011</b> , 151, 509-513	1.6	175
65	Observation of interlayer phonon modes in van der Waals heterostructures. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	147
64	Coupling and Stacking Order of ReS <sub>2</sub> Atomic Layers Revealed by Ultralow-Frequency Raman Spectroscopy. <i>Nano Letters</i> , <b>2016</b> , 16, 1404-9	11.5	115
63	Observation of low energy Raman modes in twisted bilayer graphene. <i>Nano Letters</i> , <b>2013</b> , 13, 3594-601	11.5	111
62	Large physisorption strain in chemical vapor deposition of graphene on copper substrates. <i>Nano Letters</i> , <b>2012</b> , 12, 2408-13	11.5	107
61	Resonance Raman scattering in bulk 2H-MX <sub>2</sub> (M = Mo, W; X = S, Se) and monolayer MoS <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 053527	2.5	70
60	Raman fingerprint of two terahertz spin wave branches in a two-dimensional honeycomb Ising ferromagnet. <i>Nature Communications</i> , <b>2018</b> , 9, 5122	17.4	68
59	Single Crystal Growth of Millimeter-Sized Monoisotopic Hexagonal Boron Nitride. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6222-6225	9.6	63
58	Temperature-activated layer-breathing vibrations in few-layer graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 4615-21	11.5	58
57	Screening limited switching performance of multilayer 2D semiconductor FETs: the case for SnS. <i>Nanoscale</i> , <b>2016</b> , 8, 19050-19057	7.7	49
56	Multilayer graphene grown by precipitation upon cooling of nickel on diamond. <i>Carbon</i> , <b>2011</b> , 49, 1006-1012	10.1	48
55	Resonant Raman scattering in nanoscale pentacene films. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 987-989	3.4	44
54	Observation of magnetophonon resonance of Dirac fermions in graphite. <i>Physical Review Letters</i> , <b>2010</b> , 105, 227401	7.4	43
53	Stacking-dependent shear modes in trilayer graphene. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 041904	3.4	40
52	Distinct surface and bulk charge density waves in ultrathin 1T-TaS <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	34
51	Possible structural transformation and enhanced magnetic fluctuations in exfoliated RuCl <sub>3</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 128, 291-295	3.9	33

50	Dimensionality-driven orthorhombic MoTe <sub>2</sub> at room temperature. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	32
49	Observation of infrared-active modes in Raman scattering from topological insulator nanoplates. <i>Nanotechnology</i> , <b>2012</b> , 23, 455703	3.4	32
48	Multilayer graphene films grown by molecular beam deposition. <i>Solid State Communications</i> , <b>2010</b> , 150, 809-811	1.6	30
47	Large-Scale Growth of High-Quality Hexagonal Boron Nitride Crystals at Atmospheric Pressure from an Fe <sub>2</sub> Flux. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 4932-4935	3.5	29
46	Molecular beam growth of graphene nanocrystals on dielectric substrates. <i>Carbon</i> , <b>2012</b> , 50, 4822-4829	10.4	29
45	Metal-insulator transition in variably doped (Bi(1-x)Sb(x)) <sub>2</sub> Se <sub>3</sub> nanosheets. <i>Nanoscale</i> , <b>2013</b> , 5, 4337-43	7.7	27
44	Extrinsic optical recombination in pentacene single crystals: Evidence of gap states. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 211117	3.4	26
43	Fundamental optical recombination in pentacene clusters and ultrathin films. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 103107	3.4	26
42	Interlayer breathing and shear modes in NbSe <sub>2</sub> atomic layers. <i>2D Materials</i> , <b>2016</b> , 3, 031008	5.9	25
41	Effects of Moisture-Based Grain Boundary Passivation on Cell Performance and Ionic Migration in Organic-Inorganic Halide Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30322-30329	9.5	23
40	VO: A 2D van der Waals Oxide with Strong In-Plane Electrical and Optical Anisotropy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23949-23956	9.5	23
39	Magnetic-Field-Induced Quantum Phase Transitions in a van der Waals Magnet. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	20
38	Robust spin-valley polarization in commensurate MoS <sub>2</sub> /graphene heterostructures. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	20
37	Stacking-dependent interlayer phonons in 3R and 2H MoS <sub>2</sub> . <i>2D Materials</i> , <b>2019</b> , 6, 025022	5.9	19
36	Temperature-driven evolution of critical points, interlayer coupling, and layer polarization in bilayer MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	18
35	Optical phonons in twisted bilayer graphene with gate-induced asymmetric doping. <i>Nano Letters</i> , <b>2015</b> , 15, 1203-10	11.5	18
34	Intense photoluminescence from pentacene monolayers. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 263303	3.4	18
33	BiMoO <sub>3</sub> as a Conductive 2D Oxide: Tunable n-Type Electrical Transport via Oxygen Vacancy and Fluorine Doping. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6407-6413	5.6	18

32	Dopant segregation in polycrystalline monolayer graphene. <i>Nano Letters</i> , <b>2015</b> , 15, 1428-36	11.5	16
31	Highly tunable Raman scattering and transport in layered magnetic Cr <sub>2</sub> S <sub>3</sub> nanoplates grown by sulfurization. <i>2D Materials</i> , <b>2019</b> , 6, 035029	5.9	15
30	Fermion-boson many-body interplay in a frustrated kagome paramagnet. <i>Nature Communications</i> , <b>2020</b> , 11, 4003	17.4	14
29	Plasma-Induced Fabrication and Straining of MoS <sub>2</sub> Films for the Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5162-5170	6.1	13
28	Raman spectroscopy of diesel and gasoline engine-out soot using different laser power. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 79, 74-80	6.4	13
27	Quantum Engineering With Hybrid Magnonic Systems and Materials (Invited Paper). <i>IEEE Transactions on Quantum Engineering</i> , <b>2021</b> , 2, 1-36	2.9	13
26	Laser induced oxidation and optical properties of stoichiometric and non-stoichiometric Bi <sub>2</sub> Te <sub>3</sub> nanoplates. <i>Nano Research</i> , <b>2015</b> , 8, 851-859	10	12
25	Observation of the polaronic character of excitons in a two-dimensional semiconducting magnet CrI <sub>3</sub> . <i>Nature Communications</i> , <b>2020</b> , 11, 4780	17.4	12
24	Strong pseudospin-lattice coupling in Sr <sub>3</sub> Ir <sub>2</sub> O <sub>7</sub> : Coherent phonon anomaly and negative thermal expansion. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	11
23	Low-lying lattice modes of highly uniform pentacene monolayers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 223310	3.0	11
22	Franck-Condon processes in pentacene monolayers revealed in resonance Raman scattering. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	11
21	Hexagonal Boron Nitride Crystal Growth from Iron, a Single Component Flux. <i>ACS Nano</i> , <b>2021</b> , 15, 7032-7039	10.9	11
20	Influence of interface coupling on the electronic properties of the Au/MoS <sub>2</sub> junction. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	10
19	Electronic structure-dependent magneto-optical Raman effect in atomically thin WS <sub>2</sub> . <i>2D Materials</i> , <b>2018</b> , 5, 035028	5.9	9
18	Hexagonal Boron Nitride Single Crystal Growth from Solution with a Temperature Gradient. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5066-5072	9.6	8
17	Tunable layered-magnetism-assisted magneto-Raman effect in a two-dimensional magnet CrI <sub>3</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 24664-24669	11.5	8
16	Double charge ordering states and spin ordering state observed in a RFe <sub>2</sub> O <sub>4</sub> system. <i>Scientific Reports</i> , <b>2014</b> , 4, 6429	4.9	7
15	Single crystal growth of monoisotopic hexagonal boron nitride from a FeIr flux. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 9931-9935	7.1	6

14	Raman scattering in superconducting NdO <sub>1-x</sub> F <sub>x</sub> BiS <sub>2</sub> crystals. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 015007	3.1	6
13	Twist engineering of the two-dimensional magnetism in double bilayer chromium triiodide homostructures. <i>Nature Physics</i> ,	16.2	6
12	Raman spectroscopy of optical phonon and charge density wave modes in 1T-TiSe <sub>2</sub> exfoliated flakes. <i>Solid State Communications</i> , <b>2017</b> , 266, 21-25	1.6	5
11	Electron-Phonon and Spin-Lattice Coupling in Atomically Thin Layers of MnBiTe. <i>Nano Letters</i> , <b>2021</b> , 21, 6139-6145	11.5	5
10	Modification of the G-phonon mode of graphene by nitrogen doping. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 041907	3.4	4
9	Room Temperature Formation of Carbon Onions via Ultrasonic Agitation of MoS <sub>2</sub> in Isopropanol. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 3171-3175	1.3	2
8	Universal method for creating optically active nanostructures on layered materials. <i>Langmuir</i> , <b>2014</b> , 30, 5939-45	4	2
7	Structural Monoclinicity and Its Coupling to Layered Magnetism in Few-Layer CrI. <i>ACS Nano</i> , <b>2021</b> , 15, 10444-10450	16.7	2
6	Probing high quality pentacene monolayers by optical methods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 32, 589-591	3	1
5	Synthesis of large-area MoS <sub>2</sub> films by plasma-enhanced chemical film conversion of solution-processed ammonium tetrathiomolybdate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 063006	2.9	1
4	Modification of electronic band structure in mL + nL (m = 1, 2; n = 1-5) free-stacking graphene. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 153111	3.4	1
3	Magnons and magnetic fluctuations in atomically thin MnBiTe. <i>Nature Communications</i> , <b>2022</b> , 13, 2527	17.4	1
2	Magnetic evolution of itinerant ferromagnetism and interlayer antiferromagnetism in cerium doped LaCo <sub>2</sub> P <sub>2</sub> crystals. <i>Physica B: Condensed Matter</i> , <b>2017</b> , 512, 75-80	2.8	0
1	The reinforcement mechanisms of graphene oxide in laser-directed energy deposition fabricated metal and ceramic matrix composites: a comparison study. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	