

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.

43 papers	6,247 citations	24 h-index	43 g-index
43 ext. papers	6,915 ext. citations	6.5 avg, IF	6.04 L-index

#	Paper	IF	Citations
43	Stable, Single-Layer MX ₂ Transition-Metal Oxides and Dichalcogenides in a Honeycomb-Like Structure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8983-8999	3.8	992
42	Thermally driven crossover from indirect toward direct bandgap in 2D semiconductors: MoSe ₂ versus MoS ₂ . <i>Nano Letters</i> , 2012 , 12, 5576-80	11.5	989
41	Defects activated photoluminescence in two-dimensional semiconductors: interplay between bound, charged, and free excitons. <i>Scientific Reports</i> , 2013 , 3, 2657	4.9	726
40	Broad-range modulation of light emission in two-dimensional semiconductors by molecular physisorption gating. <i>Nano Letters</i> , 2013 , 13, 2831-6	11.5	566
39	Functionalization of Single-Layer MoS ₂ Honeycomb Structures. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13303-13311	3.8	429
38	Mechanical and Electronic Properties of MoS ₂ Nanoribbons and Their Defects. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3934-3941	3.8	391
37	High-capacity hydrogen storage by metallized graphene. <i>Applied Physics Letters</i> , 2008 , 93, 043123	3.4	356
36	Hydrogen storage of calcium atoms adsorbed on graphene: First-principles plane wave calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	277
35	A Comparative Study of Lattice Dynamics of Three- and Two-Dimensional MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16354-16361	3.8	250
34	Self-Driven Photodetector and Ambipolar Transistor in Atomically Thin GaTe-MoS ₂ p-n vdW Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2533-9	9.5	126
33	Electronic and magnetic properties of graphane nanoribbons. <i>Physical Review B</i> , 2010 , 81,	3.3	122
32	Dissociation of H ₂ O at the vacancies of single-layer MoS ₂ . <i>Physical Review B</i> , 2012 , 85,	3.3	117
31	Magnetization of graphane by dehydrogenation. <i>Applied Physics Letters</i> , 2009 , 95, 222510	3.4	105
30	Frictional figures of merit for single layered nanostructures. <i>Physical Review Letters</i> , 2012 , 108, 126103	7.4	94
29	Optical and Electronic Properties of Two-Dimensional Layered Materials. <i>Nanophotonics</i> , 2017 , 6, 479-493	3.3	86
28	Functionalization of BN honeycomb structure by adsorption and substitution of foreign atoms. <i>Physical Review B</i> , 2010 , 82,	3.3	83
27	Structural, electronic, and magnetic properties of 3d transition metal monatomic chains: First-principles calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	61

26	Effects of silicon and germanium adsorbed on graphene. <i>Applied Physics Letters</i> , 2010 , 96, 123112	3.4	55
25	Adsorption of carbon adatoms to graphene and its nanoribbons. <i>Journal of Applied Physics</i> , 2011 , 109, 013704	2.5	53
24	MoS ₂ Enhanced T-Phase Stabilization and Tunability Through Alloying. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2304-9	6.4	48
23	Perpendicular growth of carbon chains on graphene from first-principles. <i>Physical Review B</i> , 2011 , 83,	3.3	43
22	Atomic and electronic structures of doped silicon nanowires: A first-principles study. <i>Physical Review B</i> , 2007 , 76,	3.3	34
21	Torsional Deformations in Subnanometer MoS Interconnecting Wires. <i>Nano Letters</i> , 2016 , 16, 1210-7	11.5	27
20	Janus PtXnY2B (X, Y = S, Se, Te; 0 ≤ n ≤ 2) Monolayers for Enhanced Photocatalytic Water Splitting. <i>Physical Review Applied</i> , 2020 , 13,	4.3	25
19	Predicting Electronic Structure in Tricalcium Silicate Phases with Impurities Using First-Principles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5074-5079	3.8	23
18	Band Engineering by Controlling vdW Epitaxy Growth Mode in 2D Gallium Chalcogenides. <i>Advanced Materials</i> , 2016 , 28, 7375-82	24	23
17	Strain effects on electronic and magnetic properties of the monolayer α -RuCl ₃ : A first-principles and Monte Carlo study. <i>Journal of Applied Physics</i> , 2019 , 125, 083903	2.5	20
16	Electronic properties of bare and functionalized two-dimensional (2D) tellurene structures. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6727-6737	3.6	20
15	A first-principles Quantum Monte Carlo study of two-dimensional (2D) GaSe. <i>Journal of Chemical Physics</i> , 2020 , 153, 154704	3.9	16
14	Accurate Predictions of Electron Binding Energies of Dipole-Bound Anions via Quantum Monte Carlo Methods. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6185-6190	6.4	16
13	Comprehensive Study of Lithium Adsorption and Diffusion on Janus Mo/WXY (X, Y = S, Se, Te) Using First-Principles and Machine Learning Approaches. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36388-36406	8.5	12
12	Unusual Pressure-Driven Phase Transformation and Band Renormalization in 2D vdW Hybrid Lead Halide Perovskites. <i>Advanced Materials</i> , 2020 , 32, e1907364	24	10
11	Enhancing light emission efficiency without color change in post-transition metal chalcogenides. <i>Nanoscale</i> , 2016 , 8, 5820-5	7.7	10
10	Tuneable structure and magnetic properties in Fe ₃ VxGe alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154403	5.7	9
9	Engineering the Electronic, Thermoelectric, and Excitonic Properties of Two-Dimensional Group-III Nitrides through Alloying for Optoelectronic Devices (BAlN, AlGa _{0.5} N, and GaInN). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46416-46428	9.5	8

8	Influence of Cr-substitution on the structural, magnetic, electron transport, and mechanical properties of Fe ₃ Ir Ge Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 521, 167398	2.8	8
7	Surface Defect Engineering of MoS for Atomic Layer Deposition of TiO Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48150-48160	9.5	5
6	Positive and Negative Photoconductivity in Monolayer MoS ₂ as a Function of Physisorbed Oxygen. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8712-8718	3.8	5
5	Stability of adsorption of Mg and Na on sulfur-functionalized MXenes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25424-25433	3.6	2
4	A pathway toward high-throughput quantum Monte Carlo simulations for alloys: A case study of two-dimensional (2D) GaSSe. <i>Journal of Chemical Physics</i> , 2021 , 155, 194112	3.9	2
3	Abnormal Phase Transition and Band Renormalization of Guanidinium-Based Organic-Inorganic Hybrid Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44964-44971	9.5	2
2	Intrinsic Ferromagnetism of Two-Dimensional (2D) MnO ₂ Revisited: A Many-Body Quantum Monte Carlo and DFT+U Study. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5813-5821	3.8	1
1	Layered Perovskites: Unusual Pressure-Driven Phase Transformation and Band Renormalization in 2D vdW Hybrid Lead Halide Perovskites (Adv. Mater. 12/2020). <i>Advanced Materials</i> , 2020 , 32, 2070088	24	