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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.

37 papers	420 citations	10 h-index	19 g-index
43 ext. papers	608 ext. citations	4.2 avg, IF	3.51 L-index

#	Paper	IF	Citations
37	Preparation and electrochemical studies of Li ₃ V ₂ (PO ₄) ₃ /Cu composite cathode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2009 , 488, L26-L29	5.7	63
36	A new 2D high-pressure phase of PdSe ₂ with high-mobility transport anisotropy for photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2096-2105	7.1	43
35	Designing sub-10-nm Metal-Oxide-Semiconductor Field-Effect Transistors via Ballistic Transport and Disparate Effective Mass: The Case of Two-Dimensional BiN. <i>Physical Review Applied</i> , 2020 , 13,	4.3	42
34	Phase transformation, ionic diffusion, and charge transfer mechanisms of KVOPO ₄ in potassium ion batteries: first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16228-16234	13	37
33	Computational Screening of 2D Ordered Double Transition-Metal Carbides (MXenes) as Electrocatalysts for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10584-10592	3.8	24
32	Ferroelastic lattice rotation and band-gap engineering in quasi 2D layered-structure PdSe under uniaxial stress. <i>Nanoscale</i> , 2019 , 11, 12317-12325	7.7	21
31	Considering the spin-orbit coupling effect on the photocatalytic performance of AlN/MX ₂ nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9412-9420	7.1	19
30	First-principles comparative study of multiferroic compound PbVO ₃ . <i>Solid State Sciences</i> , 2010 , 12, 938-945	9.45	18
29	Pressure-induced magnetic moment collapse and insulator-to-semimetal transition in BiCoO(3). <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 295902	1.8	17
28	Synthesis and characterizations of highly crystallized α -NaV ₂ O ₅ needles prepared by a hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2009 , 479, 888-892	5.7	12
27	Role of square planar coordination in the magnetic properties of Na ₄ IrO ₄ . <i>Physical Review B</i> , 2017 , 96,	3.3	10
26	Bismuth-Based Halide Double Perovskite Cs ₂ LiBiCl ₆ : Crystal Structure, Luminescence, and Stability. <i>Chemistry of Materials</i> , 2021 , 33, 5905-5916	9.6	10
25	Structural transition, metallization, and superconductivity in quasi-two-dimensional layered PdS ₂ under compression. <i>Physical Review B</i> , 2020 , 101,	3.3	8
24	Charge disproportionation in AlV ₂ O ₄ : A first-principles study. <i>Journal of Alloys and Compounds</i> , 2010 , 505, L23-L26	5.7	8
23	Magnetic gap in Slater insulator α -NaV ₂ O ₅ . <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 155203	1.8	8
22	First-principles investigation on extraction of lithium ion from monoclinic LiMnO ₂ . <i>Solid State Sciences</i> , 2009 , 11, 271-274	3.4	7
21	Charge density wave instability and pressure-induced superconductivity in bulk 1T-NbS ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	7

20	Uniaxial pressure induced phase transitions in multiferroic materials BiCoO ₃ . <i>RSC Advances</i> , 2014 , 4, 64601-64607	3.7	6
19	First-principles study of pressure-induced magnetic transition in siderite FeCO ₃ . <i>Journal of Alloys and Compounds</i> , 2012 , 510, L1-L4	5.7	6
18	Pressure-induced phase transformation and magnetism transition in BaRuO ₃ : A first-principles study. <i>Solid State Sciences</i> , 2011 , 13, 350-355	3.4	6
17	Simultaneous squeezing of coherent fields using coherent population trapping. <i>Laser Physics</i> , 2015 , 25, 015201	1.2	5
16	First-principles study of multiferroic material PbVO ₃ under uniaxial pressure. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	5
15	Electronic structure of the weakly coupled edge-sharing MnO ₄ spin-frac {5}{2} chain compound LiMnVO ₄ : an ab initio study. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 395204	1.8	5
14	Pentagonal two-dimensional noble-metal dichalcogenide PdSSe for photocatalytic water splitting with pronounced optical absorption and ultrahigh anisotropic carrier mobility. <i>Journal of Materials Chemistry C</i> ,	7.1	5
13	Prediction of the phase transition from ferromagnetic perovskite to non-magnetic post-perovskite in SrRuO ₃ : A first-principles study. <i>Solid State Communications</i> , 2011 , 151, 798-801	1.6	4
12	Structural transition from marcasite to pyrite phase in FeSe ₂ under high pressure: a first-principles study. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	4
11	Unusual intermediate spin Fe ³⁺ ion in antiferromagnetic Li ₃ FeN ₂ . <i>Journal of Applied Physics</i> , 2012 , 111, 063704	2.5	3
10	Potential multiferroic materials of Fe-substituted BiCoO ₃ : An ab initio study. <i>Computational Materials Science</i> , 2016 , 119, 33-40	3.2	3
9	Spin-orbit coupling driven insulating state in hexagonal iridates Sr ₃ MIrO ₆ (M=Sr,Na,Li). <i>Physical Review B</i> , 2018 , 98,	3.3	3
8	Shift-Twin Option in Eight-Layer Hexagonal Perovskite Niobates BaMnNbO. <i>Inorganic Chemistry</i> , 2020 , 59, 16375-16384	5.1	2
7	Electronic structure and phase transition engineering in NbS ₂ : Crucial role of van der Waals interactions. <i>Chinese Physics B</i> , 2020 , 29, 056201	1.2	2
6	First-principles study of orbital ordering in cubic fluoride KCrF ₃ . <i>Chinese Physics B</i> , 2014 , 23, 037401	1.2	1
5	Electronic structure and magnetic coupling in CaV ₂ O ₅ : spin dimer versus spin ladder. <i>European Physical Journal B</i> , 2010 , 75, 179-185	1.2	1
4	Valence transition in topological Kondo insulator. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 035602	1.8	1
3	Intrachain collinear magnetism and interchain magnetic phases in Cr ₃ As ₃ R ₃ -based materials. <i>Physical Review B</i> , 2021 , 103,	3.3	1

- 2 Tuning interchain ferromagnetic instability in $A_2Cr_3As_3$ ternary arsenides by chemical pressure and uniaxial strain. *Physical Review Materials*, **2021**, 5, 3:2 1
- 1 Effect of electron doping on the magnetic properties of spin-Peierls like material δ - NaV_2O_5 . *Journal of Alloys and Compounds*, **2009**, 479, 603-606 5:7