Naihua Miao

List of Publications by Year in descending order

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Νλιμμα Μίλο

#	Article	IF	CITATIONS
1	2D Intrinsic Ferromagnets from van der Waals Antiferromagnets. Journal of the American Chemical Society, 2018, 140, 2417-2420.	13.7	312
2	Tunable Magnetism and Extraordinary Sunlight Absorbance in Indium Triphosphide Monolayer. Journal of the American Chemical Society, 2017, 139, 11125-11131.	13.7	265
3	Theoretical investigation on the transition-metal borides with Ta3B4-type structure: A class of hard and refractory materials. Computational Materials Science, 2011, 50, 1559-1566.	3.0	169
4	Strain-mediated type-I/type-II transition in MXene/Blue phosphorene van der Waals heterostructures for flexible optical/electronic devices. Journal of Materials Chemistry C, 2017, 5, 978-984.	5.5	155
5	Sulfur-Depleted Monolayered Molybdenum Disulfide Nanocrystals for Superelectrochemical Hydrogen Evolution Reaction. ACS Nano, 2016, 10, 8929-8937.	14.6	140
6	A photocatalyst of sulphur depleted monolayered molybdenum sulfide nanocrystals for dye degradation and hydrogen evolution reaction. Nano Energy, 2017, 38, 544-552.	16.0	90
7	ALKEMIE: An intelligent computational platform for accelerating materials discovery and design. Computational Materials Science, 2021, 186, 110064.	3.0	89
8	M2C-type MXenes: Promising catalysts for CO2 capture and reduction. Applied Surface Science, 2020, 521, 146436.	6.1	77
9	The top-down synthesis of single-layered Cs ₄ CuSb ₂ Cl ₁₂ halide perovskite nanocrystals for photoelectrochemical application. Nanoscale, 2019, 11, 5180-5187.	5.6	65
10	Interaction of Trace Rareâ€Earth Dopants and Nanoheterogeneities Induces Giant Magnetostriction in Feâ€Ga Alloys. Advanced Functional Materials, 2018, 28, 1800858.	14.9	64
11	Engineering Carbon Materials for Electrochemical Oxygen Reduction Reactions. Advanced Energy Materials, 2021, 11, 2100695.	19.5	63
12	Computational mining of Janus Sc ₂ C-based MXenes for spintronic, photocatalytic, and solar cell applications. Journal of Materials Chemistry A, 2021, 9, 10882-10892.	10.3	52
13	High thermoelectric performance of few-quintuple Sb2Te3 nanofilms. Nano Energy, 2018, 43, 285-290.	16.0	51
14	I-doped Cu2Se nanocrystals for high-performance thermoelectric applications. Journal of Alloys and Compounds, 2019, 772, 366-370.	5.5	47
15	Stabilizing a Lithium Metal Battery by an In Situ Li ₂ S-modified Interfacial Layer via Amorphous-Sulfide Composite Solid Electrolyte. Nano Letters, 2020, 20, 8273-8281.	9.1	47
16	Strengthening mechanism of aluminum on elastic properties of NbVTiZr high-entropy alloys. Intermetallics, 2018, 92, 7-14.	3.9	44
17	Ab initio study of the structure and chemical bonding of stable Ge3Sb2Te6. Physical Chemistry Chemical Physics, 2010, 12, 1585.	2.8	37
18	Few-layer arsenic trichalcogenides: Emerging two-dimensional semiconductors with tunable indirect-direct band-gaps. Journal of Alloys and Compounds, 2017, 699, 554-560.	5.5	33

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19	Breaking the linear scaling relations in MXene catalysts for efficient CO2 reduction. Chemical Engineering Journal, 2022, 429, 132171.	12.7	32
20	TlP ₅ : an unexplored direct band gap 2D semiconductor with ultra-high carrier mobility. Journal of Materials Chemistry C, 2019, 7, 639-644.	5.5	30
21	First-principles study of the lattice dynamical properties of strontium ruthenate. Journal of Physics Condensed Matter, 2014, 26, 035401.	1.8	29
22	Functionalized Mo2B2 MBenes: Promising anchoring and electrocatalysis materials for Lithium-Sulfur battery. Applied Surface Science, 2021, 566, 150634.	6.1	29
23	Computational design of double transition metal MXenes with intrinsic magnetic properties. Nanoscale Horizons, 2022, 7, 276-287.	8.0	29
24	2D Magnetic Janus Semiconductors with Exotic Structural and Quantum-Phase Transitions. Journal of Physical Chemistry Letters, 2019, 10, 3922-3928.	4.6	28
25	First-Principles Study of the Thermoelectric Properties of SrRuO3. Journal of Physical Chemistry C, 2016, 120, 9112-9121.	3.1	27
26	Strengthening effects of alloying elements W and Re on Ni3Al: A first-principles study. Computational Materials Science, 2018, 144, 23-31.	3.0	27
27	Structural stability and mechanical properties of Co3(Al, M) (M =â€⁻Ti, V, Cr, Zr, Nb, Mo, Hf, Ta, W) compounds. Computational Materials Science, 2018, 148, 27-37.	3.0	24
28	Reduction, sintering and mechanical properties of rhenium-tungsten compounds. Journal of Alloys and Compounds, 2018, 735, 2685-2693.	5.5	24
29	Thermodynamic evaluation and optimization of the (Na+X) binary systems (X=Ag, Ca, In, Sn, Zn) using combined Calphad and first-principles methods of calculation. Journal of Chemical Thermodynamics, 2013, 66, 22-33.	2.0	23
30	Reduction of thermal conductivity in Y <i>x</i> Sb2– <i>x</i> Te3 for phase change memory. Journal of Applied Physics, 2017, 122, .	2.5	21
31	Robust Design of High-Performance Optoelectronic Chalcogenide Crystals from High-Throughput Computation. Journal of the American Chemical Society, 2022, 144, 5878-5886.	13.7	21
32	Mechanical properties and electronic structure of the incompressible rhenium carbides and nitrides: A first-principles study. Solid State Communications, 2011, 151, 1842-1845.	1.9	20
33	Emission and evaporation properties of 75 at.% Re-25 at.% W mixed matrix impregnated cathode. Applied Surface Science, 2018, 427, 874-882.	6.1	20
34	Pressure-induced semimetal-semiconductor transition and enhancement of thermoelectric performance in <i>α</i> -MgAgSb. Applied Physics Letters, 2016, 108, .	3.3	19
35	Insight into the role of oxygen in the phase-change material GeTe. Journal of Materials Chemistry C, 2017, 5, 3592-3599.	5.5	18
36	Preparation and surface characteristics of Re3W matrix scandate cathode: An experimental and theoretical study. Applied Surface Science, 2018, 440, 763-769.	6.1	18

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37	Coincident modulation of lattice and electron thermal transport performance in MXenes <i>via</i> surface functionalization. Physical Chemistry Chemical Physics, 2018, 20, 19689-19697.	2.8	18
38	Insight into the role of W in amorphous GeTe for phase-change memory. Journal of Alloys and Compounds, 2018, 738, 270-276.	5.5	17
39	Tunable phase transitions and high photovoltaic performance of two-dimensional In ₂ Ge ₂ Te ₆ semiconductors. Nanoscale Horizons, 2020, 5, 1566-1573.	8.0	17
40	Structural stability and thermoelectric property optimization of Ca ₂ Si. RSC Advances, 2017, 7, 8936-8943.	3.6	15
41	Electronic, elastic, thermodynamic properties and structure disorder of γ-AlON solid solution from ab initio calculations. Journal of Alloys and Compounds, 2013, 548, 228-234.	5.5	14
42	Novel IV–V–VI semiconductors with ultralow lattice thermal conductivity. Journal of Materials Chemistry C, 2021, 9, 4189-4199.	5.5	14
43	Novel metal oxides with promising high-temperature thermoelectric performance. Journal of Materials Chemistry C, 2021, 9, 12884-12894.	5.5	14
44	Optimization of Thermoelectric Properties of MgAgSb-Based Materials: A First-Principles Investigation. Journal of Physical Chemistry C, 2015, 119, 14017-14022.	3.1	12
45	Composition-Gradient-Mediated Semiconductor–Metal Transition in Ternary Transition-Metal-Dichalcogenide Bilayers. ACS Applied Materials & Interfaces, 2020, 12, 45184-45191.	8.0	12
46	Computational design of twoâ€dimensional magnetic materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, e1545.	14.6	12
47	Adsorption and diffusion of hydrogen and oxygen in FCC-Co: a first-principles study. Physical Chemistry Chemical Physics, 2017, 19, 32404-32411.	2.8	11
48	First-principles investigation on the phase stability and chemical bonding of phase-change random alloys. Solid State Communications, 2010, 150, 1375-1377.	1.9	10
49	Polyhedral transformation and phase transition in TcO ₂ . RSC Advances, 2015, 5, 1690-1696.	3.6	9
50	Pressure-mediated structural phase transitions and ultrawide indirect–direct bandgaps in novel rare-earth oxyhalides. Journal of Materials Chemistry C, 2021, 9, 547-554.	5.5	9
51	Origin of high thermoelectric performance with a wide range of compositions for Bi _x Sb _{2â^*x} Te ₃ single quintuple layers. Physical Chemistry Chemical Physics, 2019, 21, 1315-1323.	2.8	7
52	Quantifying the composition dependency of the ground-state structure, electronic property and phase-transition dynamics in ternary transition-metal-dichalcogenide monolayers. Journal of Materials Chemistry C, 2020, 8, 721-733.	5.5	7
53	Local-ordering mediated configuration stability and elastic properties of aluminum-containing high entropy alloys. Intermetallics, 2019, 110, 106474.	3.9	6
54	The pressure induced twisted distortion in the flexible oxide Tc2O7. CrystEngComm, 2016, 18, 328-333.	2.6	5

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55	Investigation on Ge5â^'x Sb x Te5 phase-change materials byÂfirst-principles method. Applied Physics A: Materials Science and Processing, 2010, 99, 961-964.	2.3	4
56	An experimental and first-principles investigation of noncentrosymmetric cubic Re3W. Journal of Alloys and Compounds, 2017, 728, 984-991.	5.5	3
57	Computational mining of the pressure effect on thermodynamic and thermoelectric properties of cubic Ca ₂ Si. Europhysics Letters, 2018, 123, 67003.	2.0	3
58	Phase stability and electronic structure of Si2Sb2Te5 phase-change material. Journal of Physics and Chemistry of Solids, 2010, 71, 1165-1167.	4.0	2
59	Pressure-Induced Destabilization and Anomalous Lattice Distortion in TcO2. Inorganic Chemistry, 2017, 56, 9973-9978.	4.0	1