Yanhui Liu

List of Publications by Year
in descending order

18	829	932766 10	887659 17
papers	citations	h-index	g-index

18	18	18	1330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modifying structural polymorphs and tuning electronic properties in pressure-stabilized binary Irâ€“Sb phases. RSC Advances, 2020, 10, 19185-19191.	1.7	0
2	Insight into the Anchoring and Catalytic Effects of VO₂ and VS₂ Nanosheets as Sulfur Cathode Hosts for Liâ€“S Batteries. ChemSusChem, 2019, 12, 4671-4678.	3.6	50
3	Phase transition and electronic properties of skutterudite-type IrP₃ under high pressure. Physical Chemistry Chemical Physics, 2019, 21, 21262-21266.	1.3	6
4	A General Atomic Surface Modification Strategy for Improving Anchoring and Electrocatalysis Behavior of Ti₃C₂T₂ MXene in Lithiumâ€“Sulfur Batteries. ACS Nano, 2019, 13, 11078-11086.	7.3	232
5	Structural prediction and multilayer Li⁺ storage in two-dimensional VC₂ carbide studied by first-principles calculations. Journal of Materials Chemistry A, 2019, 7, 8873-8881.	5.2	34
6	Phase diagram and bonding states of Ir-P binary compounds at high pressures. Journal of Alloys and Compounds, 2019, 791, 1257-1262.	2.8	7
7	Theoretical prediction and atomic-scale investigation of a tetra-VN₂monolayer as a high energy alkali ion storage material for rechargeable batteries. Journal of Materials Chemistry A, 2019, 7, 26858-26866.	5.2	18
8	A hidden symmetry-broken phase of MoS₂ revealed as a superior photovoltaic material. Journal of Materials Chemistry A, 2018, 6, 16087-16093.	5.2	16
9	Atomic insight into the structural transformation and anionic/cationic redox reactions of VS₂ nanosheets in sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 15985-15992.	5.2	33
10	Pressureâ€Dependent Strong Photoluminescence of Excitons Bound to Defects in WS₂ Quantum Dots. Advanced Materials Interfaces, 2018, 5, 1800305.	1.9	8
11	Two-dimensional VS₂ monolayers as potential anode materials for lithium-ion batteries and beyond: first-principles calculations. Journal of Materials Chemistry A, 2017, 5, 21370-21377.	5.2	176
12	Pressure Driven Enhancement of Ideal Shear Strength in bc8-Carbon and Diamond. Journal of Physical Chemistry C, 2017, 121, 26457-26464.	1.5	9
13	Investigation of chloride ion adsorption onto Ti₂C MXene monolayers by first-principles calculations. Journal of Materials Chemistry A, 2017, 5, 24720-24727.	5.2	57
14	First-Principles Calculations of Ti₂N and Ti₂NT₂ (T = O, F, OH) Monolayers as Potential Anode Materials for Lithium-Ion Batteries and Beyond. Journal of Physical Chemistry C, 2017, 121, 13025-13034.	1.5	151
15	Nonmetallization and band inversion in beryllium dicarbide at high pressure. Scientific Reports, 2016, 6, 26398.	1.6	2
16	Evolution of crystal and electronic structures of magnesium dicarbide at high pressure. Scientific Reports, 2016, 5, 17815.	1.6	11
17	Structural prediction of ultrahard semi-titanium boride (Ti₂B) using the frozen-phonon method. Physical Chemistry Chemical Physics, 2016, 18, 7927-7931.	1.3	16
18	Highâ€pressure phase transitions in NaBH₄ from firstâ€principles calculations. Physica Status Solidi (B): Basic Research, 2011, 248, 1139-1142.	0.7	3