

Liyuan Wu

List of Publications by Year in descending order

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51
papers

1,209
citations

567281

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377865

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51
all docs

51
docs citations

51
times ranked

1949
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong interlayer interaction in two-dimensional layered PtTe ₂ . Journal of Solid State Chemistry, 2022, 305, 122657.	2.9	3
2	First-principles study on optoelectronic properties of Cs ₂ PbX ₄ –PtSe ₂ van der Waals heterostructures. RSC Advances, 2022, 12, 2292-2299.	3.6	8
3	Type-II van der Waals Heterostructures Based on AsP and Transition Metal Dichalcogenides: Great Promise for Applications in Solar Cell. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	9
4	Broken electron transfer pathway in enzyme: Gold clusters inhibiting TrxR1/Trx via cell studies and theory simulations. Chinese Chemical Letters, 2022, 33, 3488-3491.	9.0	4
5	Investigation of native defects and impurities in X-N (X=Al, Ga, In). Computational Materials Science, 2021, 188, 110169.	3.0	4
6	Quasiparticle energies and significant exciton effects of monolayered blue arsenic phosphorus conformers. Physical Chemistry Chemical Physics, 2021, 23, 23808-23817.	2.8	11
7	Electronic and Topological Properties of Ultraflat Stanene Functionalized by Hydrogen and Halogen Atoms. Journal of Electronic Materials, 2021, 50, 3334-3340.	2.2	9
8	Hydrogen evolution reaction on in-plane platinum and palladium dichalcogenides via single-atom doping. International Journal of Hydrogen Energy, 2021, 46, 18294-18304.	7.1	23
9	An investigation of Li-decorated N-doped penta-graphene for hydrogen storage. International Journal of Hydrogen Energy, 2021, 46, 25533-25542.	7.1	42
10	Impact of Halogen Substitution on the Electronic and Optical Properties of 2D Lead-Free Hybrid Perovskites. Journal of Physical Chemistry C, 2021, 125, 15742-15750.	3.1	10
11	Anisotropic to Isotropic Transition in Monolayer Group-IV Tellurides. Materials, 2021, 14, 4495.	2.9	4
12	Promising two-dimensional T-silicene as high capacity anode for rechargeable lithium-ion and sodium-ion batteries. Chemical Physics Letters, 2021, 784, 139097.	2.6	8
13	First principles study on planar mechanism and heterostructures of ultraflat stanene. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114908.	2.7	2
14	Two dimension transition metal boride Y ₂ B ₂ as a promising anode in Li-ion and Na-ion batteries. Computational Materials Science, 2021, 200, 110776.	3.0	22
15	Novel high-performance anodic materials for lithium ion batteries: two-dimensional SnX ₂ (X = C, Si). Journal of Applied Electrochemistry, 2021, 51, 1078-1084.	2.8	1
16	1D/2D Heterostructures as Ultrathin Catalysts for Hydrogen Evolution Reaction. Small, 2020, 16, e2004296.	10.0	10
17	Strain-induced energetic and electronic properties of stanene nanomeshes. Journal of Computational Electronics, 2020, 19, 1357-1364.	2.5	2
18	Fluorine passivation of ODC defects in amorphous germanium dioxide. Journal of Non-Crystalline Solids, 2020, 550, 120388.	3.1	15

#	ARTICLE	IF	CITATIONS
19	Mechanical, electronic and optical properties of bulk and monolayer GeSe ₂ . International Journal of Modern Physics B, 2020, 34, 2050034.	2.0	6
20	First-principles study on composition-dependent properties of quaternary InP _{1-x} As _x Bi _y alloys. Modern Physics Letters B, 2020, 34, 2050111.	1.9	1
21	First-principles study of two-dimensional zirconium nitrogen compounds: Anode materials for Na-ion batteries. Materials Chemistry and Physics, 2020, 250, 123028.	4.0	13
22	Electronic Properties of Dilute Bismides. Springer Series in Materials Science, 2019, , 1-9.	0.6	0
23	Strain Effect on Thermoelectric Performance of InSe Monolayer. Nanoscale Research Letters, 2019, 14, 287.	5.7	40
24	Graphene-like carbon-nitrogen materials as anode materials for Li-ion and mg-ion batteries. Applied Surface Science, 2019, 487, 1026-1032.	6.1	85
25	Dark Current Characteristic of p-i-n and nBn MWIR InAs/GaSb Superlattice Infrared Detectors. , 2019, , .		1
26	Electronic and Interface Properties in Graphene Oxide/Hydrogen-terminated Passivated Ge Heterostructure. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800461.	2.4	31
27	Crown oxygen-doping graphene with embedded main-group metal atoms. European Physical Journal B, 2018, 91, 1.	1.5	3
28	Stanene nanomeshes as anode materials for Na-ion batteries. Journal of Materials Chemistry A, 2018, 6, 7933-7941.	10.3	72
29	Structural and electronic properties of PdS ₂ nanoribbons. Journal of Magnetism and Magnetic Materials, 2018, 458, 310-316.	2.3	10
30	First-principles characterization of two-dimensional (CH ₃) ₂ (CH ₂) ₃ NH ₃ (CH ₃) ₂ (CH ₃) ₃ NH ₃ perovskite. Journal of Materials Chemistry A, 2018, 6, 24389-24396.	10.3	72
31	Phase-selective synthesis of 1T MoS ₂ monolayers and heterophase bilayers. Nature Materials, 2018, 17, 1108-1114.	27.5	348
32	Structural and Optical Properties of α -Quartz Cluster with Oxygen-Deficiency Centers. Advances in Condensed Matter Physics, 2018, 2018, 1-9.	1.1	1
33	High n-type and p-type thermoelectric performance of two-dimensional SiTe at high temperature. RSC Advances, 2018, 8, 21280-21287.	3.6	11
34	Tunable band gaps in stanene/MoS ₂ heterostructures. Journal of Materials Science, 2017, 52, 5799-5806.	3.7	9
35	Electrical and optical properties of Si-doped Ga ₂ O ₃ . Modern Physics Letters B, 2017, 31, 1750172.	1.9	9
36	Robust quasi-ohmic contact against angle rotation in noble transition-metal-dichalcogenide/graphene heterobilayers. RSC Advances, 2017, 7, 45896-45901.	3.6	8

#	ARTICLE	IF	CITATIONS
37	First-principles study on electronic properties of stanene/WS ₂ monolayer. Modern Physics Letters B, 2017, 31, 1750271.	1.9	7
38	Electronic and excitonic properties of two-dimensional and bulk InN crystals. RSC Advances, 2017, 7, 42455-42461.	3.6	34
39	Quasiparticle and optical properties of strained stanene and stanane. Scientific Reports, 2017, 7, 3912.	3.3	40
40	Electronic and Optical Properties of Arsenene Under Uniaxial Strain. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 214-218.	2.9	12
41	Structural and electronic properties of two-dimensional stanene and graphene heterostructure. Nanoscale Research Letters, 2016, 11, 525.	5.7	43
42	Structural Properties and Phase Transition of Na Adsorption on Monolayer MoS ₂ . Nanoscale Research Letters, 2016, 11, 330.	5.7	45
43	Tension-induced mechanical properties of stanene. Modern Physics Letters B, 2016, 30, 1650146.	1.9	19
44	Structural and electronic properties of peroxy linkage defect and its interconversion in fused silica. Journal of Non-Crystalline Solids, 2016, 434, 96-101.	3.1	12
45	The effect of Biln hetero-antisite defects in In _{1-x} Pb _x alloy. Journal of Alloys and Compounds, 2016, 674, 21-25.	5.5	10
46	First-Principles Study of Alkali Metal Atoms Adsorption on Pristine and p-Type Graphene. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5187-5193.	0.4	0
47	Structural and Optical Properties of Point Defects in $\hat{1}\pm$ -SiO ₂ Cluster*. Communications in Theoretical Physics, 2015, 64, 244-248.	2.5	10
48	Raman scattering studies of dilute InP _{1-x} Bi _x alloys reveal unusually strong oscillator strength for Bi-induced modes. Semiconductor Science and Technology, 2015, 30, 094003.	2.0	15
49	Thermoelectric properties of SnSe compound. Journal of Alloys and Compounds, 2015, 643, 116-120.	5.5	55
50	Electronic structure and optical properties of boron-sulfur symmetric codoping in 4 Å— 4 graphene systems. European Physical Journal B, 2015, 88, 1.	1.5	11
51	Valence Band Anticrossing in InP _{1-x} Bi _x . , 2015, , .		0