

Liyuan Wu

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,209
citations

567281

15
h-index

377865

34
g-index

51
all docs

51
docs citations

51
times ranked

1949
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Phase-selective synthesis of 1T MoS ₂ monolayers and heterophase bilayers. <i>Nature Materials</i> , 2018, 17, 1108-1114. | 27.5 | 348 |
| 2 | Graphene-like carbon-nitrogen materials as anode materials for Li-ion and mg-ion batteries. <i>Applied Surface Science</i> , 2019, 487, 1026-1032. | 6.1 | 85 |
| 3 | Stanene nanomeshes as anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7933-7941. | 10.3 | 72 |
| 4 | First-principles characterization of two-dimensional (CH ₃) ₂ (CH ₂) ₃ NH ₃) ₂ (CH ₃) ₃ NH ₃ perovskite. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24389-24396. | 4.0 | 15 |
| 5 | Thermoelectric properties of SnSe compound. <i>Journal of Alloys and Compounds</i> , 2015, 643, 116-120. | 5.5 | 55 |
| 6 | Structural Properties and Phase Transition of Na Adsorption on Monolayer MoS ₂ . <i>Nanoscale Research Letters</i> , 2016, 11, 330. | 5.7 | 45 |
| 7 | Structural and electronic properties of two-dimensional stanene and graphene heterostructure. <i>Nanoscale Research Letters</i> , 2016, 11, 525. | 5.7 | 43 |
| 8 | An investigation of Li-decorated N-doped penta-graphene for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 25533-25542. | 7.1 | 42 |
| 9 | Quasiparticle and optical properties of strained stanene and stanane. <i>Scientific Reports</i> , 2017, 7, 3912. | 3.3 | 40 |
| 10 | Strain Effect on Thermoelectric Performance of InSe Monolayer. <i>Nanoscale Research Letters</i> , 2019, 14, 287. | 5.7 | 40 |
| 11 | Electronic and excitonic properties of two-dimensional and bulk InN crystals. <i>RSC Advances</i> , 2017, 7, 42455-42461. | 3.6 | 34 |
| 12 | Electronic and Interface Properties in Graphene Oxide/Hydrogen-passivated Ge Heterostructure. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800461. | 2.4 | 31 |
| 13 | Hydrogen evolution reaction on in-plane platinum and palladium dichalcogenides via single-atom doping. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 18294-18304. | 7.1 | 23 |
| 14 | Two dimension transition metal boride Y ₂ B ₂ as a promising anode in Li-ion and Na-ion batteries. <i>Computational Materials Science</i> , 2021, 200, 110776. | 3.0 | 22 |
| 15 | Tension-induced mechanical properties of stanene. <i>Modern Physics Letters B</i> , 2016, 30, 1650146. | 1.9 | 19 |
| 16 | Raman scattering studies of dilute InP _{1-x} Bi _x alloys reveal unusually strong oscillator strength for Bi-induced modes. <i>Semiconductor Science and Technology</i> , 2015, 30, 094003. | 2.0 | 15 |
| 17 | Fluorine passivation of ODC defects in amorphous germanium dioxide. <i>Journal of Non-Crystalline Solids</i> , 2020, 550, 120388. | 3.1 | 15 |
| 18 | First-principles study of two-dimensional zirconium nitrogen compounds: Anode materials for Na-ion batteries. <i>Materials Chemistry and Physics</i> , 2020, 250, 123028. | 4.0 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Structural and electronic properties of peroxy linkage defect and its interconversion in fused silica. <i>Journal of Non-Crystalline Solids</i> , 2016, 434, 96-101. | 3.1 | 12 |
| 20 | Electronic and Optical Properties of Arsenene Under Uniaxial Strain. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 214-218. | 2.9 | 12 |
| 21 | Electronic structure and optical properties of boron-sulfur symmetric codoping in 4 Å— 4 graphene systems. <i>European Physical Journal B</i> , 2015, 88, 1. | 1.5 | 11 |
| 22 | High n-type and p-type thermoelectric performance of two-dimensional SiTe at high temperature. <i>RSC Advances</i> , 2018, 8, 21280-21287. | 3.6 | 11 |
| 23 | Quasiparticle energies and significant exciton effects of monolayered blue arsenic phosphorus conformers. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23808-23817. | 2.8 | 11 |
| 24 | Structural and Optical Properties of Point Defects in $\hat{1}\pm$ -SiO ₂ Cluster*. <i>Communications in Theoretical Physics</i> , 2015, 64, 244-248. | 2.5 | 10 |
| 25 | The effect of Biln hetero-antisite defects in In ¹ â€“PBi alloy. <i>Journal of Alloys and Compounds</i> , 2016, 674, 21-25. | 5.5 | 10 |
| 26 | Structural and electronic properties of PdS ₂ nanoribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 458, 310-316. | 2.3 | 10 |
| 27 | 1D/2D Heterostructures as Ultrathin Catalysts for Hydrogen Evolution Reaction. <i>Small</i> , 2020, 16, e2004296. | 10.0 | 10 |
| 28 | Impact of Halogen Substitution on the Electronic and Optical Properties of 2D Lead-Free Hybrid Perovskites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15742-15750. | 3.1 | 10 |
| 29 | Tunable band gaps in stanene/MoS ₂ heterostructures. <i>Journal of Materials Science</i> , 2017, 52, 5799-5806. | 3.7 | 9 |
| 30 | Electrical and optical properties of Si-doped Ga ₂ O ₃ . <i>Modern Physics Letters B</i> , 2017, 31, 1750172. | 1.9 | 9 |
| 31 | Electronic and Topological Properties of Ultraflat Stanene Functionalized by Hydrogen and Halogen Atoms. <i>Journal of Electronic Materials</i> , 2021, 50, 3334-3340. | 2.2 | 9 |
| 32 | Typeâ€“II van der Waals Heterostructures Based on AsP and Transition Metal Dichalcogenides: Great Promise for Applications in Solar Cell. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, . | 2.4 | 9 |
| 33 | Robust quasi-ohmic contact against angle rotation in noble transition-metal-dichalcogenide/graphene heterobilayers. <i>RSC Advances</i> , 2017, 7, 45896-45901. | 3.6 | 8 |
| 34 | Promising two-dimensional T-silicene as high capacity anode for rechargeable lithium-ion and sodium-ion batteries. <i>Chemical Physics Letters</i> , 2021, 784, 139097. | 2.6 | 8 |
| 35 | First-principles study on optoelectronic properties of Cs ₂ PbX ₄ â€“PtSe ₂ van der Waals heterostructures. <i>RSC Advances</i> , 2022, 12, 2292-2299. | 3.6 | 8 |
| 36 | First-principles study on electronic properties of stanene/WS ₂ monolayer. <i>Modern Physics Letters B</i> , 2017, 31, 1750271. | 1.9 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Mechanical, electronic and optical properties of bulk and monolayer GeSe ₂ . International Journal of Modern Physics B, 2020, 34, 2050034. | 2.0 | 6 |
| 38 | Investigation of native defects and impurities in X-N (X=Al, Ga, In). Computational Materials Science, 2021, 188, 110169. | 3.0 | 4 |
| 39 | Anisotropic to Isotropic Transition in Monolayer Group-IV Tellurides. Materials, 2021, 14, 4495. | 2.9 | 4 |
| 40 | 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 | 4 |
| 41 | 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 |
| 42 | Crown oxygen-doping graphene with embedded main-group metal atoms. European Physical Journal B, 2018, 91, 1. | 1.5 | 3 |
| 43 | Strong interlayer interaction in two-dimensional layered PtTe ₂ . Journal of Solid State Chemistry, 2022, 305, 122657. | 2.9 | 3 |
| 44 | Strain-induced energetic and electronic properties of stanene nanomeshes. Journal of Computational Electronics, 2020, 19, 1357-1364. | 2.5 | 2 |
| 45 | First principles study on planar mechanism and heterostructures of ultraflat stanene. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114908. | 2.7 | 2 |
| 46 | Structural and Optical Properties of α -Quartz Cluster with Oxygen-Deficiency Centers. Advances in Condensed Matter Physics, 2018, 2018, 1-9. | 1.1 | 1 |
| 47 | Dark Current Characteristic of p-i-n and nBn MWIR InAs/GaSb Superlattice Infrared Detectors. , 2019, , . | | 1 |
| 48 | 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 |
| 49 | Electronic Properties of Dilute Bismides. Springer Series in Materials Science, 2019, , 1-9. | 0.6 | 0 |
| 50 | Valence Band Anticrossing in InP _{1-x} Bi _x . , 2015, , . | | 0 |
| 51 | First-Principles Study of Alkali Metal Atoms Adsorption on Pristine and <i>p</i> -Type Graphene. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5187-5193. | 0.4 | 0 |