

Shi-Jing Gong

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6841946/publications.pdf>

Version: 2024-02-01

46
papers

1,672
citations

361413

20
h-index

289244

40
g-index

46
all docs

46
docs citations

46
times ranked

1931
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Flower-petal-like Nb ₂ C MXene combined with MoS ₂ as bifunctional catalysts towards enhanced lithium-sulfur batteries and hydrogen evolution. <i>Electrochimica Acta</i> , 2022, 404, 139781. | 5.2 | 19 |
| 2 | Oxygen-Terminated Nb ₂ CO ₂ MXene with Interfacial Self-Assembled COF as a Bifunctional Catalyst for Durable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10738-10746. | 8.0 | 22 |
| 3 | Comparative Raman spectroscopy of magnetic topological material EuCd ₂ X ₂ (X = P, As). <i>Journal of Physics Condensed Matter</i> , 2022, 34, 224001. | 1.8 | 3 |
| 4 | Valley splitting in the antiferromagnetic heterostructure MnPSe ₃ /WSe ₂ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 3562-3568. | 5.5 | 16 |
| 5 | Cu ₃ BiS ₃ /MXenes with Excellent Solar-Thermal Conversion for Continuous and Efficient Seawater Desalination. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16246-16258. | 8.0 | 60 |
| 6 | Electric control of nearly free electron states and ferromagnetism in the transition-metal dichalcogenides monolayers. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 205702. | 1.8 | 3 |
| 7 | NiS ₂ Nanocubes Coated Ti ₃ C ₂ Nanosheets with Enhanced Light-Heat Conversion for Fast and Efficient Solar Seawater Steam Generation. <i>Solar Rrl</i> , 2021, 5, 2100183. | 5.8 | 13 |
| 8 | Dipole control of Rashba spin splitting in a type-II Sb/InSe van der Waals heterostructure. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 045501. | 1.8 | 5 |
| 9 | Enhancement effects of interlayer orbital hybridization in Janus MoSSe and tellurene heterostructures for photovoltaic applications. <i>Physical Review Materials</i> , 2021, 5, . | 2.4 | 9 |
| 10 | Ferroelectric and dipole control of band alignment in the two dimensional InTe/In ₂ Se ₃ heterostructure. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 055703. | 1.8 | 19 |
| 11 | A type-II GaSe/GeS heterobilayer with strain enhanced photovoltaic properties and external electric field effects. <i>Journal of Materials Chemistry C</i> , 2020, 8, 89-97. | 5.5 | 42 |
| 12 | 2D organ-like molybdenum carbide (MXene) coupled with MoS ₂ nanoflowers enhances the catalytic activity in the hydrogen evolution reaction. <i>CrystEngComm</i> , 2020, 22, 1395-1403. | 2.6 | 63 |
| 13 | Interfacial superassembly of MoSe ₂ @Ti ₂ N MXene hybrids enabling promising lithium-ion storage. <i>CrystEngComm</i> , 2020, 22, 5995-6002. | 2.6 | 12 |
| 14 | Ferroelectric Switching of Pure Spin Polarization in Two-Dimensional Electron Gas. <i>Nano Letters</i> , 2020, 20, 7230-7236. | 9.1 | 2 |
| 15 | The InSe/SiH type-II van der Waals heterostructure as a promising water splitting photocatalyst: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21436-21444. | 2.8 | 30 |
| 16 | Vanadium based carbide-oxide heterogeneous V ₂ O ₅ @V ₂ C nanotube arrays for high-rate and long-life lithium-sulfur batteries. <i>Nanoscale</i> , 2020, 12, 18950-18964. | 5.6 | 31 |
| 17 | Synthesis of a finger-like MoS ₂ @VS ₂ micro-nanocomposite with enhanced field emission performance. <i>CrystEngComm</i> , 2020, 22, 3797-3803. | 2.6 | 9 |
| 18 | Multifunctional Lateral Transition-Metal Disulfides Heterojunctions. <i>Advanced Functional Materials</i> , 2020, 30, 2002939. | 14.9 | 86 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | MoB ₂ : a new multifunctional transition metal diboride monolayer. Journal of Physics Condensed Matter, 2020, 32, 055503. | 1.8 | 21 |
| 20 | Remarkable Rashba spin splitting induced by an asymmetrical internal electric field in polar III-VI chalcogenides. Physical Chemistry Chemical Physics, 2020, 22, 9148-9156. | 2.8 | 22 |
| 21 | Enhanced carrier separation in ferroelectric In ₂ Se ₃ /MoS ₂ van der Waals heterostructure. Journal of Materials Chemistry C, 2020, 8, 11160-11167. | 5.5 | 44 |
| 22 | Evaluating the exfoliation of two-dimensional materials with a Green's function surface model. Physical Review B, 2020, 101, . | 3.2 | 32 |
| 23 | Electric field control of Rashba spin splitting in 2D N ^{III} X ^{VI} (N=Ga, In; X=As, Sb, Bi). Journal of Physics Condensed Matter, 2019, 31, 205501. | 1.8 | 17 |
| 24 | Experimental and theoretical investigation on MoS ₂ /MXene heterostructure as an efficient electrocatalyst for hydrogen evolution in both acidic and alkaline media. New Journal of Chemistry, 2020, 44, 7902-7911. | 2.8 | 27 |
| 25 | TaS ₂ nanosheet-based ultrafast response and flexible humidity sensor for multifunctional applications. Journal of Materials Chemistry C, 2019, 7, 9284-9292. | 5.5 | 48 |
| 26 | Electric manipulation of magnetism in bilayer van der Waals magnets. Journal of Physics Condensed Matter, 2019, 31, 205501. | 1.8 | 9 |
| 27 | Tuning valley polarization in two-dimensional ferromagnetic heterostructures. Journal of Materials Chemistry C, 2019, 7, 14932-14937. | 5.5 | 6 |
| 28 | First-principles investigation of the interface magnetic anisotropy of Fe/SrTiO ₃ . Journal of Physics Condensed Matter, 2019, 31, 075803. | 1.8 | 2 |
| 29 | Doping and band gap control at poly(vinylidene fluoride)/graphene interface. Journal Physics D: Applied Physics, 2018, 51, 195303. | 2.8 | 4 |
| 30 | 3R TaS ₂ Surpasses the Corresponding 1T and 2H Phases for the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 2382-2390. | 3.1 | 38 |
| 31 | Effect of charging on silicene with alkali metal atom adsorption. Journal Physics D: Applied Physics, 2018, 51, 075302. | 2.8 | 3 |
| 32 | Lattice dynamics, phase transition, and tunable fundamental band gap of photovoltaic (K,Ba)(Ni,Nb)O ₃ ceramics from spectral measurements and first-principles calculations. Physical Review B, 2018, 97, . | 3.2 | 8 |
| 33 | Origin of Improved Photoelectrochemical Water Splitting in Mixed Perovskite Oxides. Advanced Energy Materials, 2018, 8, 1801972. | 19.5 | 22 |
| 34 | Phonon Influence on Bulk Photovoltaic Effect in the Ferroelectric Semiconductor GeTe. Physical Review Letters, 2018, 121, 017402. | 7.8 | 30 |
| 35 | Giant Flexomagnetoelectric Effect in Dilute Magnetic Monolayer. Advanced Theory and Simulations, 2018, 1, 1800048. | 2.8 | 6 |
| 36 | Electrically induced 2D half-metallic antiferromagnets and spin field effect transistors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8511-8516. | 7.1 | 163 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Manipulation of the large Rashba spin splitting in polar two-dimensional transition-metal dichalcogenides. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 265 |
| 38 | Ferroelectric control of Rashba spin orbit coupling at the GeTe(111)/InP(111) interface. <i>Nanoscale</i> , 2017, 9, 17957-17962. | 5.6 | 21 |
| 39 | Concepts of ferrovalley material and anomalous valley Hall effect. <i>Nature Communications</i> , 2016, 7, 13612. | 12.8 | 326 |
| 40 | Orbital control of Rashba spin orbit coupling in noble metal surfaces. <i>Journal of Applied Physics</i> , 2016, 119, 125310. | 2.5 | 13 |
| 41 | Engineering the magnetic anisotropy of atomic-scale nanostructure under electric field. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 076003. | 1.8 | 4 |
| 42 | Spin-dependent optical response of multiferroic EuO: First-principles DFT calculations. <i>Physical Review B</i> , 2014, 89, . | 3.2 | 21 |
| 43 | Ferroelectric control of in-plane to out-of-plane magnetization switching at poly(vinylidene fluoride)/ferromagnetic metal interface. <i>Physical Review B</i> , 2014, 89, 080401. | 2.5 | 12 |
| 44 | Controlling Rashba spin splitting in Au(111) surface states through electric field. <i>Physical Review B</i> , 2013, 87, . | 3.2 | 43 |
| 45 | A new pathway towards all-electric spintronics: electric-field control of spin states through surface/interface effects. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 232-244. | 5.1 | 11 |
| 46 | Improved multiferroic behavior in [111]-oriented BiFeO ₃ /BiAlO ₃ superlattice. <i>Journal of Applied Physics</i> , 2013, 113, 123703. | 2.5 | 10 |