

# Shi-Jing Gong

## List of Publications by Year in descending order

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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	Concepts of ferrovalley material and anomalous valley Hall effect. Nature Communications, 2016, 7, 13612.	12.8	326
2	Manipulation of the large Rashba spin splitting in polar two-dimensional transition-metal dichalcogenides. Physical Review B, 2017, 95, .	3.2	265
3	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
4	Multifunctional Lateral Transition-Metal Disulfides Heterojunctions. Advanced Functional Materials, 2020, 30, 2002939.	14.9	86
5	2D organ-like molybdenum carbide (MXene) coupled with MoS <sub>2</sub> nanoflowers enhances the catalytic activity in the hydrogen evolution reaction. CrystEngComm, 2020, 22, 1395-1403.	2.6	63
6	Cu <sub>3</sub> BiS <sub>3</sub> /MXenes with Excellent Solar-Thermal Conversion for Continuous and Efficient Seawater Desalination. ACS Applied Materials & Interfaces, 2021, 13, 16246-16258.	8.0	60
7	Ta <sub>2</sub> nanosheet-based ultrafast response and flexible humidity sensor for multifunctional applications. Journal of Materials Chemistry C, 2019, 7, 9284-9292.	5.5	48
8	Enhanced carrier separation in ferroelectric In <sub>2</sub> Se <sub>3</sub> /MoS <sub>2</sub> van der Waals heterostructure. Journal of Materials Chemistry C, 2020, 8, 11160-11167.	5.5	44
9	Controlling Rashba spin splitting in Au(111) surface states through electric field. Physical Review B, 2013, 87, .	3.2	43
10	A type-II GaSe/GeS heterobilayer with strain enhanced photovoltaic properties and external electric field effects. Journal of Materials Chemistry C, 2020, 8, 89-97.	5.5	42
11	3R Ta <sub>2</sub> Surpasses the Corresponding 1T and 2H Phases for the Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 2382-2390.	3.1	38
12	Evaluating the exfoliation of two-dimensional materials with a Green's function surface model. Physical Review B, 2020, 101, .	3.2	32
13	Vanadium based carbide-oxide heterogeneous V <sub>2</sub> O <sub>5</sub> @V <sub>2</sub> C nanotube arrays for high-rate and long-life lithium-sulfur batteries. Nanoscale, 2020, 12, 18950-18964.	5.6	31
14	Phonon Influence on Bulk Photovoltaic Effect in the Ferroelectric Semiconductor GeTe. Physical Review Letters, 2018, 121, 017402.	7.8	30
15	The InSe/SiH type-II van der Waals heterostructure as a promising water splitting photocatalyst: a first-principles study. Physical Chemistry Chemical Physics, 2020, 22, 21436-21444.	2.8	30
16	Experimental and theoretical investigation on MoS <sub>2</sub> /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
17	Origin of Improved Photoelectrochemical Water Splitting in Mixed Perovskite Oxides. Advanced Energy Materials, 2018, 8, 1801972.	19.5	22
18	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

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19	Oxygen-Terminated Nb <sub>2</sub> CO <sub>2</sub> MXene with Interfacial Self-Assembled COF as a Bifunctional Catalyst for Durable Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2022, 14, 10738-10746.	8.0	22
20	Spin-dependent optical response of multiferroic EuO: First-principles DFT calculations. Physical Review B, 2014, 89, .	3.2	21
21	Ferroelectric control of Rashba spin orbit coupling at the GeTe(111)/InP(111) interface. Nanoscale, 2017, 9, 17957-17962.	5.6	21
22	MoB <sub>2</sub> : a new multifunctional transition metal diboride monolayer. Journal of Physics Condensed Matter, 2020, 32, 055503.	1.8	21
23	Ferroelectric and dipole control of band alignment in the two dimensional InTe/In <sub>2</sub> Se <sub>3</sub> heterostructure. Journal of Physics Condensed Matter, 2020, 32, 055703.	1.8	19
24	Flower-petal-like Nb <sub>2</sub> C MXene combined with MoS <sub>2</sub> as bifunctional catalysts towards enhanced lithium-sulfur batteries and hydrogen evolution. Electrochimica Acta, 2022, 404, 139781.	5.2	19
25	Electric field control of Rashba spin splitting in 2D N <sup>III</sup> X <sup>VI</sup> (N=Ga, In; X=As, Sb, Bi)	1.8	17
26	Valley splitting in the antiferromagnetic heterostructure MnPSe <sub>3</sub> /WSe <sub>2</sub> . Journal of Materials Chemistry C, 2021, 9, 3562-3568.	5.5	16
27	Orbital control of Rashba spin orbit coupling in noble metal surfaces. Journal of Applied Physics, 2016, 119, 125310.	2.5	13
28	Ni <sub>2</sub> Nanocubes Coated Ti <sub>3</sub> C <sub>2</sub> Nanosheets with Enhanced Light-Heat Conversion for Fast and Efficient Solar Seawater Steam Generation. Solar Rrl, 2021, 5, 2100183.	5.8	13
29	Ferroelectric control of in-plane to out-of-plane magnetization switching at poly(vinylidene fluoride)/ferroelectric thin film heterostructure	2.5	12
30	Interfacial superassembly of MoSe <sub>2</sub> @Ti <sub>2</sub> N MXene hybrids enabling promising lithium-ion storage. CrystEngComm, 2020, 22, 5995-6002.	2.6	12
31	A new pathway towards all-electric spintronics: electric-field control of spin states through surface/interface effects. Science China: Physics, Mechanics and Astronomy, 2013, 56, 232-244.	5.1	11
32	Improved multiferroic behavior in [111]-oriented BiFeO <sub>3</sub> /BiAlO <sub>3</sub> superlattice. Journal of Applied Physics, 2013, 113, 123703.	2.5	10
33	Electric manipulation of magnetism in bilayer van der Waals magnets. Journal of Physics Condensed Matter, 2019, 31, 205501.	1.8	9
34	Synthesis of a finger-like MoS <sub>2</sub> @VS <sub>2</sub> micro-nanocomposite with enhanced field emission performance. CrystEngComm, 2020, 22, 3797-3803.	2.6	9
35	Enhancement effects of interlayer orbital hybridization in Janus MoSSe and tellurene heterostructures for photovoltaic applications. Physical Review Materials, 2021, 5, .	2.4	9
36	Lattice dynamics, phase transition, and tunable fundamental band gap of photovoltaic (K,Ba)(Ni,Nb)O <sub>3</sub> ceramics from spectral measurements and first-principles calculations. Physical Review B, 2018, 97, .	3.2	8

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37	Giant Flexomagnetolectric Effect in Dilute Magnetic Monolayer. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800048.	2.8	6
38	Tuning valley polarization in two-dimensional ferromagnetic heterostructures. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14932-14937.	5.5	6
39	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
40	Engineering the magnetic anisotropy of atomic-scale nanostructure under electric field. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 076003.	1.8	4
41	Doping and band gap control at poly(vinylidene fluoride)/graphene interface. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 195303.	2.8	4
42	Effect of charging on silicene with alkali metal atom adsorption. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 075302.	2.8	3
43	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
44	Comparative Raman spectroscopy of magnetic topological material $\text{EuCd}_2\text{X}_2$ ( $X = \text{P, As}$ ). <i>Journal of Physics Condensed Matter</i> , 2022, 34, 224001.	1.8	3
45	First-principles investigation of the interface magnetic anisotropy of Fe/SrTiO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2019, 31, 075803.	1.8	2
46	Ferroelectric Switching of Pure Spin Polarization in Two-Dimensional Electron Gas. <i>Nano Letters</i> , 2020, 20, 7230-7236.	9.1	2