

# Wei-Xiao Ji

## List of Publications by Citations

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76  
papers

1,801  
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22  
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40  
g-index

80  
ext. papers

2,039  
ext. citations

4.5  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
76	Ethynyl-functionalized stanene film: a promising candidate as large-gap quantum spin Hall insulator. <i>New Journal of Physics</i> , <b>2015</b> , 17, 083036	2.9	139
75	Unexpected Giant-Gap Quantum Spin Hall Insulator in Chemically Decorated Plumbene Monolayer. <i>Scientific Reports</i> , <b>2016</b> , 6, 20152	4.9	131
74	Intrinsic Dirac half-metal and quantum anomalous Hall phase in a hexagonal metal-oxide lattice. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	112
73	Effect of Amidogen Functionalization on Quantum Spin Hall Effect in Bi/Sb(111) Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 41443-41453	9.5	101
72	Two-dimensional arsenene oxide: A realistic large-gap quantum spin Hall insulator. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 213101	3.4	100
71	Large-gap quantum spin Hall state in functionalized dumbbell stanene. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 073104	3.4	77
70	Controllable band structure and topological phase transition in two-dimensional hydrogenated arsenene. <i>Scientific Reports</i> , <b>2016</b> , 6, 20342	4.9	72
69	New family of room temperature quantum spin Hall insulators in two-dimensional germanene films. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2088-2094	7.1	66
68	Silicon-based chalcogenide: Unexpected quantum spin Hall insulator with sizable band gap. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 182109	3.4	62
67	Tunable electronic and magnetic properties in germanene by alkali, alkaline-earth, group III and 3d transition metal atom adsorption. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 15968-78	3.6	56
66	Silicane as an Inert Substrate of Silicene: A Promising Candidate for FET. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25278-25283	3.8	55
65	Discovery of intrinsic quantum anomalous Hall effect in organic Mn-DCA lattice. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 233107	3.4	52
64	Tunable quantum spin Hall effect via strain in two-dimensional arsenene monolayer. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 055305	3	52
63	Room Temperature Quantum Spin Hall Insulator in Ethynyl-Derivative Functionalized Stanene Films. <i>Scientific Reports</i> , <b>2016</b> , 6, 18879	4.9	48
62	Discovery of a novel spin-polarized nodal ring in a two-dimensional HK lattice. <i>Nanoscale</i> , <b>2018</b> , 10, 20748-20753	4.7	37
61	High-temperature Dirac half-metal PdCl <sub>3</sub> : a promising candidate for realizing quantum anomalous Hall effect. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10284-10291	7.1	37
60	NaC monolayer: a novel 2p Dirac half-metal with multiple symmetry-protected Dirac cones. <i>Nanoscale</i> , <b>2018</b> , 10, 13645-13651	7.7	29

59	A planar C3Ca2 film: a novel 2p Dirac half metal. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8504-8508	7.1	28
58	Functionalized Thallium Antimony Films as Excellent Candidates for Large-Gap Quantum Spin Hall Insulator. <i>Scientific Reports</i> , <b>2016</b> , 6, 21351	4.9	25
57	First-principles study of small PdAu alloy clusters on graphene. <i>RSC Advances</i> , <b>2014</b> , 4, 55781-55789	3.7	25
56	First-principles prediction on bismuthylene monolayer as a promising quantum spin Hall insulator. <i>Nanoscale</i> , <b>2017</b> , 9, 8207-8212	7.7	23
55	The magnetic and optical properties of 3d transition metal doped SnO2 nanosheets. <i>RSC Advances</i> , <b>2015</b> , 5, 24306-24312	3.7	22
54	Robust Room-Temperature Quantum Spin Hall Effect in Methyl-functionalized InBi honeycomb film. <i>Scientific Reports</i> , <b>2016</b> , 6, 23242	4.9	22
53	Tunability of the Quantum Spin Hall Effect in Bi(110) Films: Effects of Electric Field and Strain Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21515-21523	9.5	20
52	Robust room-temperature inversion-asymmetry topological transitions in functionalized HgSe monolayer. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2243-2251	7.1	20
51	Emergence of ferrimagnetic half-metallicity in two-dimensional MXene Mo3N2F2. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 202405	3.4	18
50	First-principles study of AlN nanosheets with chlorination. <i>RSC Advances</i> , <b>2014</b> , 4, 7500	3.7	17
49	First-principles prediction of a giant-gap quantum spin Hall insulator in Pb thin film. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 31862-31868	3.6	16
48	Design of ferromagnetism in Co-doped SnO2 nanosheets: a first-principles study. <i>RSC Advances</i> , <b>2014</b> , 4, 9602	3.7	16
47	Electronic structure and optical properties of Bi,N co-doped SnO2. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 6993-6999	4.3	15
46	Discovery of multiferroics with tunable magnetism in two-dimensional lead oxide. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 172105	3.4	15
45	Glide Mirror Plane Protected Nodal-Loop in an Anisotropic Half-Metallic MnNF Monolayer. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 485-491	6.4	15
44	Prediction of flatness-driven quantum spin Hall effect in functionalized germanene and stanene. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 28134-28139	3.6	15
43	Prediction of tunable quantum spin Hall effect in methyl-functionalized tin film. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2656-2661	7.1	14
42	Two-dimensional honeycomb-kagome TaS: a promising single-spin Dirac fermion and quantum anomalous hall insulator with half-metallic edge states. <i>Nanoscale</i> , <b>2019</b> , 11, 5666-5673	7.7	14

41	Giant gap quantum spin Hall effect and valley-polarized quantum anomalous Hall effect in cyanided bismuth bilayers. <i>New Journal of Physics</i> , <b>2016</b> , 18, 083002	2.9	14
40	Tunable Electronic and Topological Properties of Germanene by Functional Group Modification. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	13
39	Unconventional band inversion and intrinsic quantum spin Hall effect in functionalized group-V binary films. <i>Scientific Reports</i> , <b>2017</b> , 7, 6126	4.9	13
38	Two-dimensional GaGeTe film: a promising graphene-like material with tunable band structure and high carrier mobility. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8847-8853	7.1	13
37	Discovery of a new quantum spin Hall phase in bilayer plumbene. <i>Chemical Physics Letters</i> , <b>2018</b> , 712, 78-82	2.5	13
36	Two-Dimensional Large Gap Topological Insulators with Tunable Rashba Spin-Orbit Coupling in Group-IV Films. <i>Scientific Reports</i> , <b>2017</b> , 7, 45923	4.9	12
35	Stanene cyanide: a novel candidate of Quantum Spin Hall insulator at high temperature. <i>Scientific Reports</i> , <b>2015</b> , 5, 18604	4.9	12
34	Controllable electronic and magnetic properties in a two-dimensional germanene heterostructure. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 12169-74	3.6	10
33	Quantum spin Hall insulator BiXH (XH = OH, SH) monolayers with a large bulk band gap. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 13632-13636	3.6	9
32	High hydrogen storage capacity in calcium-decorated silicene nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 2072-2078	1.3	9
31	Two-Dimensional Honeycomb B <sub>2</sub> Se with Orthogonal Lattice: High Stability and Strong Anisotropic Dirac Cone. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 7558-7565	3.8	8
30	A two-dimensional robust topological insulator with coexisting ferroelectric and valley polarization. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9406-9412	7.1	8
29	Prediction of half-metallic ferromagnetism in C-doped CdS nanowire. <i>RSC Advances</i> , <b>2014</b> , 4, 24399	3.7	8
28	Quantum spin Hall phase transitions in two-dimensional SbBi alloy films. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2649-2655	7.1	7
27	A new topological crystalline insulator in two-dimensional PbPo with tunable large bulk gaps. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8745-8749	7.1	7
26	First-principles prediction of inversion-asymmetric topological insulator in hexagonal BiPbH monolayer. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8750-8757	7.1	7
25	Prediction of topological crystalline insulators and topological phase transitions in two-dimensional PbTe films. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 29647-29652	3.6	6
24	Nontrivial topology and topological phase transition in two-dimensional monolayer Tl. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 24790-24795	3.6	6

23	Electronic Structural and Optical Properties of Multilayer Blue Phosphorus: A First-Principle Study. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-8	3.2	5
22	First-principles prediction of graphene/SnO <sub>2</sub> heterostructure as a promising candidate for FET. <i>RSC Advances</i> , <b>2015</b> , 5, 35377-35383	3.7	5
21	Strain-Tuned Topological Insulator and Rashba-Induced Anisotropic Momentum-Locked Dirac Cones in Two-Dimensional SeTe Monolayers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43962-43969	3.5	5
20	Two-dimensional Weyl semi-half-metallic NiCS with a band structure controllable by the direction of magnetization. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 12068-12074	3.6	5
19	Discovery of a ferroelastic topological insulator in a two-dimensional tetragonal lattice. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 5165-5169	3.6	4
18	Two-dimensional ligand-functionalized plumbene: A promising candidate for ferroelectric and topological order with a large bulk band gap. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 120, 114095	3	4
17	Bismuth oxide film: a promising room-temperature quantum spin Hall insulator. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 105303	1.8	4
16	Strain-Induced Quantum Spin Hall Effect in Two-Dimensional Methyl-Functionalized Silicene SiCH <sub>3</sub> . <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	4
15	Films based on group IV/VI elements for the design of a large-gap quantum spin Hall insulator with tunable Rashba splitting. <i>RSC Advances</i> , <b>2017</b> , 7, 11636-11643	3.7	3
14	Half-Dirac semimetals and the quantum anomalous Hall effect in Kagome Cd <sub>2</sub> N <sub>3</sub> lattices. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 847-854	5.1	3
13	Prediction of topological property in TlPBr monolayer with appreciable Rashba effect. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 4308-4316	3.6	2
12	Hydrogenated group-IV binary monolayers: a new family of inversion-asymmetric topological insulators. <i>RSC Advances</i> , <b>2016</b> , 6, 79452-79458	3.7	2
11	Novel optical properties of MoS <sub>2</sub> on monolayer zinc tellurium substrate. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 4580-4587	4.3	2
10	Quantum spin Hall state in cyanided dumbbell stanene. <i>RSC Advances</i> , <b>2016</b> , 6, 86089-86094	3.7	2
9	Strain-Mediated Stability of Structures and Electronic Properties of ReS <sub>2</sub> , Janus ReSSe, and ReSe <sub>2</sub> Monolayers. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-8	3.2	2
8	2D ternary nitrides XNY (X=Ti, Zr, Hf; YF, Cl, Br) with applications as photoelectric and photocatalytic materials featuring mechanical and optical anisotropy: A DFT study. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 303, 122517	3.3	2
7	Discovery of asymmetric NaXBi (X= Sn /Pb) monolayers with non-trivial topological properties.. <i>RSC Advances</i> , <b>2018</b> , 8, 27995-28001	3.7	1
6	First-Principles Prediction on Long-Range Ferromagnetism Induced by Vacancies in SnO <sub>2</sub> Nanosheet. <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 104601	1.5	1

5	Strain-Tuned Nodal Ring in Two-Dimensional Zn <sub>3</sub> C <sub>6</sub> S <sub>6</sub> Monolayers. <i>Journal of Nanomaterials</i> , <b>2020</b> , 2020, 1-6	3.2	1
4	Novel 2D Germanene Dioxide Monolayers: Mechanical Properties, Hole-Mobility Values, and Carrier Mobility. <i>Annalen Der Physik</i> , <b>2018</b> , 530, 1800214	2.6	1
3	A novel spin-valley-coupled nodal-ring semimetal in single-layer TaC. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 12280-12287	3.6	0
2	IZrP: Two-dimensional narrow band gap semiconductor with high Stability, anisotropic electronic properties and high carrier mobility. <i>Computational and Theoretical Chemistry</i> , <b>2021</b> , 1205, 113458	2	0
1	Intrinsic direct bandgap semiconductor with high stability, strong anisotropy and controllable edge position in BrHfN monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2022</b> , 135, 114971 <sup>3</sup>		0