

# Sheng-Shi Li

## List of Publications by Year in descending order

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45  
papers

1,996  
citations

236612

25  
h-index

243296

44  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic Dirac half-metal and quantum anomalous Hall phase in a hexagonal metal-oxide lattice. <i>Physical Review B</i> , 2017, 96, .	1.1	161
2	Unexpected Giant-Gap Quantum Spin Hall Insulator in Chemically Decorated Plumbene Monolayer. <i>Scientific Reports</i> , 2016, 6, 20152.	1.6	157
3	Ethynyl-functionalized stanene film: a promising candidate as large-gap quantum spin Hall insulator. <i>New Journal of Physics</i> , 2015, 17, 083036.	1.2	148
4	Effect of Amidogen Functionalization on Quantum Spin Hall Effect in Bi/Sb(111) Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 41443-41453.	4.0	139
5	Two-dimensional arsenene oxide: A realistic large-gap quantum spin Hall insulator. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	123
6	Prediction of high-temperature Chern insulator with half-metallic edge states in asymmetry-functionalized stanene. <i>Nanoscale</i> , 2018, 10, 20226-20233.	2.8	102
7	Large-gap quantum spin Hall state in functionalized dumbbell stanene. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	80
8	New family of room temperature quantum spin Hall insulators in two-dimensional germanene films. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2088-2094.	2.7	74
9	Silicon-based chalcogenide: Unexpected quantum spin Hall insulator with sizable band gap. <i>Applied Physics Letters</i> , 2016, 109, 182109.	1.5	68
10	Silicane as an Inert Substrate of Silicene: A Promising Candidate for FET. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25278-25283.	1.5	64
11	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> , 2014, 16, 15968.	1.3	61
12	Discovery of intrinsic quantum anomalous Hall effect in organic Mn-DCA lattice. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	61
13	Valley-dependent topological phase transition and quantum anomalous valley Hall effect in single-layer RuClBr. <i>Physical Review B</i> , 2022, 105, .	1.1	61
14	Distorted Janus Transition Metal Dichalcogenides: Stable Two-Dimensional Materials with Sizable Band Gap and Ultrahigh Carrier Mobility. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19153-19160.	1.5	55
15	Discovery of a novel spin-polarized nodal ring in a two-dimensional HK lattice. <i>Nanoscale</i> , 2018, 10, 20748-20753.	2.8	54
16	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> , 2018, 6, 10284-10291.	2.7	52
17	Room Temperature Quantum Spin Hall Insulator in Ethynyl-Derivative Functionalized Stanene Films. <i>Scientific Reports</i> , 2016, 6, 18879.	1.6	49
18	Novel half-metal and spin gapless semiconductor properties in N-doped silicene nanoribbons. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	37

#	ARTICLE	IF	CITATIONS
19	Tunability of the Quantum Spin Hall Effect in Bi(110) Films: Effects of Electric Field and Strain Engineering. ACS Applied Materials & Interfaces, 2017, 9, 21515-21523.	4.0	32
20	Glide Mirror Plane Protected Nodal-Loop in an Anisotropic Half-Metallic MnNF Monolayer. Journal of Physical Chemistry Letters, 2020, 11, 485-491.	2.1	32
21	Tunable electronic properties induced by a defect-substrate in graphene/BC <sub>3</sub> heterobilayers. Physical Chemistry Chemical Physics, 2014, 16, 22861-22866.	1.3	30
22	Emergence of ferrimagnetic half-metallicity in two-dimensional MXene Mo <sub>3</sub> N <sub>2</sub> F <sub>2</sub> . Applied Physics Letters, 2017, 111, .	1.5	30
23	First-principles design of silicene/Sc <sub>2</sub> C <sub>2</sub> F <sub>2</sub> heterojunction as a promising candidate for field effect transistor. Journal of Applied Physics, 2015, 117, .	1.1	27
24	Functionalized Thallium Antimony Films as Excellent Candidates for Large-Gap Quantum Spin Hall Insulator. Scientific Reports, 2016, 6, 21351.	1.6	27
25	Two-dimensional GaGeTe film: a promising graphene-like material with tunable band structure and high carrier mobility. Journal of Materials Chemistry C, 2017, 5, 8847-8853.	2.7	26
26	Robust Room-Temperature Quantum Spin Hall Effect in Methyl-functionalized InBi honeycomb film. Scientific Reports, 2016, 6, 23242.	1.6	25
27	First-principles study of graphene adsorbed on WS <sub>2</sub> monolayer. Journal of Applied Physics, 2013, 114, 183709.	1.1	22
28	Robust room-temperature inversion-asymmetry topological transitions in functionalized HgSe monolayer. Journal of Materials Chemistry C, 2016, 4, 2243-2251.	2.7	22
29	First-principles study on ferromagnetism in W-doped graphene. RSC Advances, 2013, 3, 26261.	1.7	20
30	First-principles study of AlN nanosheets with chlorination. RSC Advances, 2014, 4, 7500.	1.7	17
31	Prediction of tunable quantum spin Hall effect in methyl-functionalized tin film. Journal of Materials Chemistry C, 2017, 5, 2656-2661.	2.7	16
32	Unconventional band inversion and intrinsic quantum spin Hall effect in functionalized group-V binary films. Scientific Reports, 2017, 7, 6126.	1.6	16
33	Robust half-metallicity in transition metal tribromide nanowires. Nanoscale, 2018, 10, 15545-15552.	2.8	16
34	Electronic structure and optical properties of Bi,N co-doped SnO <sub>2</sub> . Journal of Materials Science, 2015, 50, 6993-6999.	1.7	15
35	Novel band structures in silicene on monolayer zinc sulfide substrate. Journal of Physics Condensed Matter, 2014, 26, 395003.	0.7	13
36	Controllable electronic and magnetic properties in a two-dimensional germanene heterostructure. Physical Chemistry Chemical Physics, 2016, 18, 12169-12174.	1.3	13

#	ARTICLE	IF	CITATIONS
37	Two-dimensional Weyl semi-half-metallic NiCS <sub>3</sub> with a band structure controllable by the direction of magnetization. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12068-12074.	1.3	11
38	Prediction of half-metallic ferromagnetism in C-doped CdS nanowire. <i>RSC Advances</i> , 2014, 4, 24399.	1.7	8
39	Prediction of topological crystalline insulators and topological phase transitions in two-dimensional PbTe films. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29647-29652.	1.3	8
40	Discovery of Two-Dimensional Quantum Spin Hall Effect in Triangular Transition-Metal Carbides. <i>Chinese Physics Letters</i> , 2018, 35, 087303.	1.3	6
41	Discovery of a ferroelastic topological insulator in a two-dimensional tetragonal lattice. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5165-5169.	1.3	5
42	Bismuth oxide film: a promising room-temperature quantum spin Hall insulator. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 105303.	0.7	4
43	Anisotropic nodal loop in NiB <sub>2</sub> monolayer with nonsymmorphic configuration. <i>Nanoscale</i> , 2022, 14, 1264-1270.	2.8	4
44	Hydrogenated group-IV binary monolayers: a new family of inversion-asymmetric topological insulators. <i>RSC Advances</i> , 2016, 6, 79452-79458.	1.7	3
45	Magnetic tuning in a novel half-metallic Ir <sub>2</sub> Tel <sub>2</sub> monolayer. <i>Journal of Semiconductors</i> , 2022, 43, 052001.	2.0	2