

# Zhi Li

## List of Publications by Year in descending order

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71  
papers

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147726

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71  
docs citations

71  
times ranked

5301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping Achieves High Thermoelectric Performance in SnS: A First-Principles Study. ACS Applied Materials & Interfaces, 2022, 14, 6916-6925.	4.0	8
2	Weak-Bonding Elements Lead to High Thermoelectric Performance in BaSnS <sub>3</sub> and SrSnS <sub>3</sub> : A First-Principles Study. Chemistry of Materials, 2022, 34, 1289-1301.	3.2	19
3	Homologous Alkali Metal Copper Rare-Earth Chalcogenides A <sub>2</sub> Cu <sub>2n</sub> Ln <sub>4</sub> Q <sub>7+n</sub> ( <i>n</i> = 1, 2, 3). Chemistry of Materials, 2022, 34, 3409-3422.	3.2	6
4	High Thermoelectric Performance in Chalcopyrite Cu <sub>1-x</sub> Ag <sub>x</sub> GaTe <sub>2</sub> –ZnTe: Nontrivial Band Structure and Dynamic Doping Effect. Journal of the American Chemical Society, 2022, 144, 9113-9125.	6.6	29
5	Majorana zero modes in iron-based superconductors. Matter, 2022, 5, 1734-1759.	5.0	7
6	Atomically Thin Superconductors. Small, 2021, 17, 1904788.	5.2	7
7	Cross-over from weak localization to anti-localization in rare earth doped TRS protected topological insulators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 385, 126953.	0.9	6
8	Magneto-transport and electronic structures in MoSi <sub>2</sub> bulks and thin films with different orientations. Journal of Alloys and Compounds, 2021, 858, 157670.	2.8	4
9	Atomic mechanism of ionic confinement in the thermoelectric Cu <sub>2</sub> Se based on a low-cost electric-current method. Cell Reports Physical Science, 2021, 2, 100345.	2.8	12
10	Identifying the Manipulation of Individual Atomic-Scale Defects for Boosting Thermoelectric Performances in Artificially Controlled Bi <sub>2</sub> Te <sub>3</sub> Films. ACS Nano, 2021, 15, 5706-5714.	7.3	38
11	High band degeneracy and weak chemical bonds leading to enhanced thermoelectric transport properties in 2H–MoTe <sub>2</sub> . Journal of Solid State Chemistry, 2021, 300, 122227.	1.4	2
12	Zn-Induced Defect Complexity for the High Thermoelectric Performance of n-Type PbTe Compounds. ACS Applied Materials & Interfaces, 2021, 13, 43134-43143.	4.0	16
13	Optical phonon dominated heat transport: A first-principles thermal conductivity study of BaSnS <sub>2</sub> . Physical Review B, 2021, 104, .	2.8	2
14	Electroresistance in multipolar antiferroelectric Cu <sub>2</sub> Se semiconductor. Nature Communications, 2021, 12, 7207.	5.8	7
15	Boosting the superconducting properties of Fe(Se, Te) through hexagonal phase manipulation. Journal of Alloys and Compounds, 2020, 816, 152683.	2.8	7
16	Impurity states in Mo <sub>1-x</sub> M <sub>x</sub> Se <sub>2</sub> compounds doped with group VB elements and their electronic and thermal transport properties. Journal of Materials Chemistry C, 2020, 8, 619-629.	2.7	11
17	Band inversion induced multiple electronic valleys for high thermoelectric performance of SnTe with strong lattice softening. Nano Energy, 2020, 69, 104395.	8.2	80
18	Thickness-dependent electronic transport induced by <i>in situ</i> transformation of point defects in MBE-grown Bi <sub>2</sub> Te <sub>3</sub> thin films. Applied Physics Letters, 2020, 117, .	1.5	19

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19	Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu <sub>2</sub> Se Composites. <i>Advanced Materials</i> , 2020, 32, e2003730.	11.1	99
20	Creating thin magnetic layers at the surface of Sb <sub>2</sub> Te <sub>3</sub> topological insulators using a low-energy chromium ion beam. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	6
21	Spinless Semiconductors. <i>Small</i> , 2020, 16, e1905155.	5.2	41
22	Vacancy-Based Defect Regulation for High Thermoelectric Performance in Ge <sub>9</sub> Sb <sub>2</sub> Te <sub>12</sub> Compounds. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 19664-19673.	4.0	47
23	Possible Excitonic Insulating Phase in Quantum-Confined Sb Nanoflakes. <i>Nano Letters</i> , 2019, 19, 4960-4964.	4.5	20
24	Modulation of Crystal and Electronic Structures in Topological Insulators by Rare-Earth Doping. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1929-1936.	2.0	7
25	Role of Cation Vacancies in Cu <sub>2</sub> SnSe <sub>3</sub> Thermoelectrics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24212-24220.	4.0	30
26	Synergistically Improved Electronic and Thermal Transport Properties in Nb-Doped Nb <sub>y</sub> Mo <sub>1-y</sub> Se <sub>2</sub> Te <sub>2</sub> Solid Solutions Due to Alloy Phonon Scattering and Increased Valley Degeneracy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26069-26081.	4.0	9
27	$Sb_2Te_3$ Nanoribbons with Tunable Topological Surface States. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26082-26091.	1.1	26
28	Boosting Superconducting Properties of Fe(Se, Te) via Dual-Oscillation Phenomena Induced by Fluorine Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18825-18832.	4.0	11
29	Quantum oscillations of robust topological surface states up to 50%K in thick bulk-insulating topological insulator. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	20
30	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. <i>Science Advances</i> , 2018, 4, eaau4511.	4.7	131
31	Structure and Improved Thermoelectric Properties of Ag <sub>2</sub> Cr <sub>2</sub> Se <sub>3</sub> Compounds. <i>Inorganic Chemistry</i> , 2018, 57, 12125-12131.	1.9	5
32	Cooperative Electron-Phonon Coupling and Buckled Structure in Germanene on Au(111). <i>ACS Nano</i> , 2017, 11, 3553-3559.	7.3	75
33	Role of Atomic Interaction in Electronic Hybridization in Two-Dimensional Ag <sub>2</sub> Ge Nanosheets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16754-16760.	1.5	13
34	Synthesis of Multilayer Silicene on Si(111)- $\sqrt{3} \times \sqrt{3}$ -Ag. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27182-27190.	1.5	34
35	Observation of van Hove Singularities in Twisted Silicene Multilayers. <i>ACS Central Science</i> , 2016, 2, 517-521.	5.3	37
36	Visualizing the elongated vortices in $\text{In}_2\text{S}_3$ -Ga nanostrips. <i>Physical Review B</i> , 2016, 93, .	1.1	8

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37	Interface-enhanced electron-phonon coupling and high-temperature superconductivity in potassium-coated ultrathin FeSe films on $\text{SrTiO}_3$ . Physical Review B, 2016, 93, .	1.1	70
38	Quasi-freestanding epitaxial silicene on Ag(111) by oxygen intercalation. Science Advances, 2016, 2, e1600067.	4.7	138
39	Metal-silicene interaction studied by scanning tunneling microscopy. Journal of Physics Condensed Matter, 2016, 28, 034002.	0.7	9
40	Mass acquisition of Dirac fermions in magnetically doped topological insulator $\text{Sb}_2\text{Te}_3$ films. Physical Review B, 2015, 91, .	1.1	22
41	Delocalized Surface State in Epitaxial $\text{Si}(111)$ Film with Spontaneous $\sqrt{3}\times\sqrt{3}$ Superstructure. Scientific Reports, 2015, 5, 13590.	1.6	37
42	Pauli-limited effect in the magnetic phase diagram of $\text{FeSe}/\text{Te}$ thin films. Applied Physics Letters, 2015, 107, .	1.5	9
43	Nanoscale superconductivity of $\text{In}_2\text{S}_3$ -Ga islands grown by molecular beam epitaxy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	2.0	1
44	Thermoelectric Module Temperature Stability Control for the Vehicle Engine Exhaust Heat Recovery. , 2015, , .		1
45	Visualizing superconductivity in FeSe nanoflakes on $\text{SrTiO}_3$ by scanning tunneling microscopy. Physical Review B, 2015, 91, .		
46	Detection of a Superconducting Phase in a Two-Atom Layer of Hexagonal Ga Film Grown on Semiconducting $\text{GaN}(0001)$ . Physical Review Letters, 2015, 114, 107003.	2.9	81
47	Pushing-pulling based vehicle parking ventilation cooling characteristics analysis. , 2015, , .		0
48	Honeycomb silicon: a review of silicene. Science Bulletin, 2015, 60, 1551-1562.	4.3	74
49	Electronic evidence of an insulator-superconductor crossover in single-layer FeSe/SrTiO <sub>3</sub> films. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18501-18506.	3.3	67
50	Direct Observation of High-Temperature Superconductivity in One-Unit-Cell FeSe Films. Chinese Physics Letters, 2014, 31, 017401.	1.3	222
51	Imaging the Electron-Boson Coupling in Superconducting FeSe Films Using a Scanning Tunneling Microscope. Physical Review Letters, 2014, 112, 057002.	2.9	31
52	Dichotomy of the electronic structure and superconductivity between single-layer and double-layer FeSe/SrTiO <sub>3</sub> films. Nature Communications, 2014, 5, 5047.	5.8	57
53	Interface charge doping effects on superconductivity of single-unit-cell FeSe films on $\text{SrTiO}_3$ . Physical Review B, 2014, 89, .	1.4	16
54	Molecular beam epitaxy growth and post-growth annealing of FeSe films on $\text{SrTiO}_3$ : a scanning tunneling microscopy study. Journal of Physics Condensed Matter, 2014, 26, 265002.	0.7	56

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55	Fully gapped topological surface states in Bi <sub>2</sub> Se <sub>3</sub> films induced by a d-wave high-temperature superconductor. Nature Physics, 2013, 9, 621-625.	6.5	149
56	Atomic and electronic structures of single-layer FeSe on SrTiO <sub>3</sub> (001): The role of oxygen deficiency. Physical Review B, 2013, 87, .	1.1	86
57	Phase diagram and electronic indication of high-temperature superconductivity at 65 K in single-layer FeSe films. Nature Materials, 2013, 12, 605-610.	13.3	706
58	Scanning tunneling microscopy study of the superconducting properties of three-atomic-layer Pb films. Applied Physics Letters, 2013, 103, .	1.5	10
59	An Atomic Force Microscopy Study of Single-Layer FeSe Superconductor. Applied Physics Express, 2013, 6, 113101.	1.1	8
60	Scanning tunneling microscopy of interface properties of Bi <sub>2</sub> Se <sub>3</sub> on FeSe. Journal of Physics Condensed Matter, 2012, 24, 475604.	0.7	12
61	Fermi-Level Tuning of Epitaxial Sb <sub>2</sub> Te <sub>3</sub> Films on Graphene by Regulating Intrinsic Defects and Substrate Transfer Doping. Physical Review Letters, 2012, 108, 066809.	2.9	152
62	Landau Quantization and the Thickness Limit of Topological Insulator Thin Films of Sb <sub>2</sub> Te <sub>3</sub> . Physical Review Letters, 2012, 108, 016401.	2.9	195
63	Observing the charge state of single Fe dopants in the topological insulator Bi <sub>2</sub> Se <sub>3</sub> the Parent Compound of K-Doped Iron Selenide Superconductors. Physical Review Letters, 2012, 109, 047201.	2.9	101
64	Observing the charge state of single Fe dopants in the topological insulator Bi <sub>2</sub> Se <sub>3</sub> with a scanning tunneling microscope. Physical Review B, 2012, 86, .	1.1	42
65	Interface-Induced High-Temperature Superconductivity in Single Unit-Cell FeSe Films on SrTiO <sub>3</sub> . Chinese Physics Letters, 2012, 29, 037402.	1.3	972
66	Electronic origin of high-temperature superconductivity in single-layer FeSe superconductor. Nature Communications, 2012, 3, 931.	5.8	495
67	Structural defects and electronic properties of the Cu-doped topological insulator Bi <sub>2</sub> Se <sub>3</sub> . Physical Review B, 2011, 84, .	1.1	70
68	Direct Observation of Nodes and Twofold Symmetry in FeSe Superconductor. Science, 2011, 332, 1410-1413.	6.0	360
69	Molecular-beam epitaxy and robust superconductivity of stoichiometric FeSe crystalline films on bilayer graphene. Physical Review B, 2011, 84, .	1.1	146
70	Bonding in the 111-Type Ferropnictide Superconductor LiFeAs. Journal of Superconductivity and Novel Magnetism, 2010, 23, 579-581.	0.8	0
71	Crystal, spin, and electronic structure of the superconductor LiFeAs. Physical Review B, 2009, 80, .	1.1	21