

Zhi Li

List of Publications by Year in descending order

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papers

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citations

147726

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71
docs citations

71
times ranked

5301
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-Induced High-Temperature Superconductivity in Single Unit-Cell FeSe Films on SrTiO ₃ . Chinese Physics Letters, 2012, 29, 037402.	1.3	972
2	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
3	Electronic origin of high-temperature superconductivity in single-layer FeSe superconductor. Nature Communications, 2012, 3, 931.	5.8	495
4	Direct Observation of Nodes and Twofold Symmetry in FeSe Superconductor. Science, 2011, 332, 1410-1413.	6.0	360
5	Direct Observation of High-Temperature Superconductivity in One-Unit-Cell FeSe Films. Chinese Physics Letters, 2014, 31, 017401.	1.3	222
6	Landau Quantization and the Thickness Limit of Topological Insulator Thin Films of Sb ₂ Te ₃ . Physical Review Letters, 2012, 108, 016401.	2.9	195
7	Fermi-Level Tuning of Epitaxial Sb ₂ Te ₃ Films on Graphene by Regulating Intrinsic Defects and Substrate Transfer Doping. Physical Review Letters, 2012, 108, 066809.	2.9	152
8	Fully gapped topological surface states in Bi ₂ Se ₃ films induced by a d-wave high-temperature superconductor. Nature Physics, 2013, 9, 621-625.	6.5	149
9	Molecular-beam epitaxy and robust superconductivity of stoichiometric FeSe crystalline films on bilayer graphene. Physical Review B, 2011, 84, .	1.1	146
10	Quasi-freestanding epitaxial silicene on Ag(111) by oxygen intercalation. Science Advances, 2016, 2, e1600067.	4.7	138
11	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. Science Advances, 2018, 4, eaau4511.	4.7	131
12	Interface charge doping effects on superconductivity of single-unit-cell FeSe films on SrTiO ₃ . Physical Review B, 2014, 89, .	1.1	128
13	KFe ₂ Se ₂ the Parent Compound of K-Doped Iron Selenide Superconductors. Physical Review Letters, 2012, 109, 057003.	2.9	101
14	Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu ₂ Se Composites. Advanced Materials, 2020, 32, e2003730.	11.1	99
15	Atomic and electronic structures of single-layer FeSe on SrTiO ₃ (001): The role of oxygen deficiency. Physical Review B, 2013, 87, .	1.1	86
16	Detection of a Superconducting Phase in a Two-Atom Layer of Hexagonal Ga Film Grown on Semiconducting GaN(0001). Physical Review Letters, 2015, 114, 107003.	2.9	81
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	Cooperative Electron-Phonon Coupling and Buckled Structure in Germanene on Au(111). ACS Nano, 2017, 11, 3553-3559.	7.3	75

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19	Honeycomb silicon: a review of silicene. <i>Science Bulletin</i> , 2015, 60, 1551-1562.	4.3	74
20	Structural defects and electronic properties of the Cu-doped topological insulator Bi ₂ Se ₃ . <i>Interface Enhancement of Electron-phonon coupling and high-temperature superconductivity in potassium-coated ultrathin FeSe films on SrTiO₃ films.</i> <i>Physical Review B</i> , 2016, 93, .	1.1	70
21	Interface-Enhanced Electron-phonon coupling and high-temperature superconductivity in potassium-coated ultrathin FeSe films on SrTiO ₃ films. <i>Physical Review B</i> , 2016, 93, .	1.1	70
22	Electronic evidence of an insulator–superconductor crossover in single-layer FeSe/SrTiO ₃ films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18501-18506.	3.3	67
23	Dichotomy of the electronic structure and superconductivity between single-layer and double-layer FeSe/SrTiO ₃ films. <i>Nature Communications</i> , 2014, 5, 5047.	5.8	57
24	Molecular beam epitaxy growth and post-growth annealing of FeSe films on SrTiO ₃ : a scanning tunneling microscopy study. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 265002.	0.7	56
25	Vacancy-Based Defect Regulation for High Thermoelectric Performance in Ge ₉ Sb ₂ Te ₁₂ Compounds. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19664-19673.	4.0	47
26	Gating the charge state of single Fe dopants in the topological insulator Bi ₂ Se ₃ with a scanning tunneling microscope. <i>Physical Review B</i> , 2012, 86, .	1.1	42
27	Spin–Capless Semiconductors. <i>Small</i> , 2020, 16, e1905155.	5.2	41
28	Identifying the Manipulation of Individual Atomic-Scale Defects for Boosting Thermoelectric Performances in Artificially Controlled Bi ₂ Te ₃ Films. <i>ACS Nano</i> , 2021, 15, 5706-5714.	7.3	38
29	Delocalized Surface State in Epitaxial Si(111) Film with Spontaneous $\sqrt{3}\times\sqrt{3}$ Superstructure. <i>Scientific Reports</i> , 2015, 5, 13590.	1.6	37
30	Observation of van Hove Singularities in Twisted Silicene Multilayers. <i>ACS Central Science</i> , 2016, 2, 517-521.	5.3	37
31	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
32	Imaging the Electron-Boson Coupling in Superconducting FeSe Films Using a Scanning Tunneling Microscope. <i>Physical Review Letters</i> , 2014, 112, 057002.	2.9	31
33	Role of Cation Vacancies in Cu ₂ SnSe ₃ Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24212-24220.	4.0	30
34	High Thermoelectric Performance in Chalcopyrite Cu _{1-x} Ag _x GaTe ₂ –ZnTe: Nontrivial Band Structure and Dynamic Doping Effect. <i>Journal of the American Chemical Society</i> , 2022, 144, 9113-9125.	6.6	29
35	Optical phonon dominated heat transport: A first-principles thermal conductivity study of BaSnS ₃ . <i>Physical Review B</i> , 2021, 104, .	1.1	26
36	Optical phonon dominated heat transport: A first-principles thermal conductivity study of BaSnS ₃ . <i>Physical Review B</i> , 2021, 104, .	1.1	26

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37	Observation of Dirac fermions in magnetically doped topological insulator films. $S_{\text{b}}T_{\text{c}}$	1.1	22
38	Crystal, spin, and electronic structure of the superconductor LiFeAs. Physical Review B, 2009, 80, .	1.1	21
39	Possible Excitonic Insulating Phase in Quantum-Confined Sb Nanoflakes. Nano Letters, 2019, 19, 4960-4964.	4.5	20
40	Quantum oscillations of robust topological surface states up to 50 K in thick bulk-insulating topological insulator. Npj Quantum Materials, 2019, 4, .	1.8	20
41	Thickness-dependent electronic transport induced by <i>in situ</i> transformation of point defects in MBE-grown Bi ₂ Te ₃ thin films. Applied Physics Letters, 2020, 117, .	1.5	19
42	Weak-Bonding Elements Lead to High Thermoelectric Performance in BaSnS ₃ and SrSnS ₃ : A First-Principles Study. Chemistry of Materials, 2022, 34, 1289-1301.	3.2	19
43	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
44	Role of Atomic Interaction in Electronic Hybridization in Two-Dimensional Ag ₂ Ge Nanosheets. Journal of Physical Chemistry C, 2017, 121, 16754-16760.	1.5	13
45	Scanning tunneling microscopy of interface properties of Bi ₂ Se ₃ on FeSe. Journal of Physics Condensed Matter, 2012, 24, 475604.	0.7	12
46	Atomic mechanism of ionic confinement in the thermoelectric Cu ₂ Se based on a low-cost electric-current method. Cell Reports Physical Science, 2021, 2, 100345.	2.8	12
47	Boosting Superconducting Properties of Fe(Se, Te) via Dual-Oscillation Phenomena Induced by Fluorine Doping. ACS Applied Materials & Interfaces, 2019, 11, 18825-18832.	4.0	11
48	Impurity states in Mo _{1-x} M _x Se ₂ 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
49	Scanning tunneling microscopy study of the superconducting properties of three-atomic-layer Pb films. Applied Physics Letters, 2013, 103, .	1.5	10
50	Visualizing superconductivity in FeSe nanoflakes on SrTiO ₃ scanning tunneling microscopy. Physical Review B, 2015, 91, .	1.0	10
51	Pauli-limited effect in the magnetic phase diagram of FeSe _{1-x} Te _{1-x} thin films. Applied Physics Letters, 2015, 107, .	1.5	9
52	Metal-silicene interaction studied by scanning tunneling microscopy. Journal of Physics Condensed Matter, 2016, 28, 034002.	0.7	9
53	Synergistically Improved Electronic and Thermal Transport Properties in Nb-Doped Nb _{1-y} Mo _{1-x} Se ₂ Te _{2-x-y} Solid Solutions Due to Alloy Phonon Scattering and Increased Valley Degeneracy. ACS Applied Materials & Interfaces, 2019, 11, 26069-26081.	4.0	9
54	An Atomic Force Microscopy Study of Single-Layer FeSe Superconductor. Applied Physics Express, 2013, 6, 113101.	1.1	8

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55	Visualizing the elongated vortices in In_2S_3 -Ga nanostrips. Physical Review B, 2016, 93, .	1.1	8
56	Doping Achieves High Thermoelectric Performance in SnS: A First-Principles Study. ACS Applied Materials & Interfaces, 2022, 14, 6916-6925.	4.0	8
57	Modulation of Crystal and Electronic Structures in Topological Insulators by Rare-Earth Doping. ACS Applied Electronic Materials, 2019, 1, 1929-1936.	2.0	7
58	Boosting the superconducting properties of Fe(Se, Te) through hexagonal phase manipulation. Journal of Alloys and Compounds, 2020, 816, 152683.	2.8	7
59	Atomically Thin Superconductors. Small, 2021, 17, 1904788.	5.2	7
60	Electroresistance in multipolar antiferroelectric Cu_2Se semiconductor. Nature Communications, 2021, 12, 7207.	5.8	7
61	Majorana zero modes in iron-based superconductors. Matter, 2022, 5, 1734-1759.	5.0	7
62	Creating thin magnetic layers at the surface of Sb_2Te_3 topological insulators using a low-energy chromium ion beam. Applied Physics Letters, 2020, 116, .	1.5	6
63	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
64	Homologous Alkali Metal Copper Rare-Earth Chalcogenides $\text{A}_2\text{Cu}_2\text{Ln}_4\text{Q}_7$ ($n = 1, 2, 3$). Chemistry of Materials, 2022, 34, 3409-3422.	3.2	6
65	Structure and Improved Thermoelectric Properties of $\text{Ag}_2\text{Cr}_2\text{Se}_3$ Compounds. Inorganic Chemistry, 2018, 57, 12125-12131.	1.9	5
66	Magneto-transport and electronic structures in MoSi_2 bulks and thin films with different orientations. Journal of Alloys and Compounds, 2021, 858, 157670.	2.8	4
67	High band degeneracy and weak chemical bonds leading to enhanced thermoelectric transport properties in MoTe_2 . Journal of Solid State Chemistry, 2021, 300, 122227.	1.4	2
68	Nanoscale superconductivity of In_2S_3 -Ga islands grown by molecular beam epitaxy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	2.0	1
69	Thermoelectric Module Temperature Stability Control for the Vehicle Engine Exhaust Heat Recovery. , 2015, , .		1
70	Bonding in the Fe^{111} -Type Ferropnictide Superconductor LiFeAs . Journal of Superconductivity and Novel Magnetism, 2010, 23, 579-581.	0.8	0
71	Pushing-pulling based vehicle parking ventilation cooling characteristics analysis. , 2015, , .		0