

# Lili Wang

## List of Publications by Year in descending order

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129  
papers

9,820  
citations

44069

48  
h-index

36028

97  
g-index

129  
all docs

129  
docs citations

129  
times ranked

10871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase diagram and electronic indication of high-temperature superconductivity at 65 K in single-layer FeSe films. Nature Materials, 2013, 12, 605-610.	27.5	706
2	Experimental Demonstration of Topological Surface States Protected by Time-Reversal Symmetry. Physical Review Letters, 2009, 103, 266803.	7.8	653
3	Femtosecond Time-Resolved Transient Absorption Spectroscopy of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Films: Evidence for Passivation Effect of $\text{PbI}_2$ . Journal of the American Chemical Society, 2014, 136, 12205-12208.	13.7	501
4	Electronic origin of high-temperature superconductivity in single-layer FeSe superconductor. Nature Communications, 2012, 3, 931.	12.8	495
5	Superconductivity in one-atomic-layer metal films grown on Si(111). Nature Physics, 2010, 6, 104-108.	16.7	479
6	Controlled nanocutting of graphene. Nano Research, 2008, 1, 116-122.	10.4	472
7	Band structure engineering in $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_3$ ternary topological insulators. Nature Communications, 2011, 2, 574.	12.8	460
8	Direct Observation of Nodes and Twofold Symmetry in FeSe Superconductor. Science, 2011, 332, 1410-1413.	12.6	360
9	Landau Quantization of Topological Surface States in $\text{Bi}_2\text{Se}_3$ . Physical Review Letters, 2010, 105, 076801.	7.8	352
10	Phase separation and magnetic order in K-doped iron selenide superconductor. Nature Physics, 2012, 8, 126-130.	16.7	280
11	Landau Quantization and the Thickness Limit of Topological Insulator Thin Films of $\text{Sb}_2\text{Te}_3$ . Physical Review Letters, 2012, 108, 016401.	7.8	195
12	Evolution and convergence of the patterns of international scientific collaboration. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2057-2061.	7.1	169
13	Topological insulator $\text{Bi}_2\text{Se}_3$ thin films grown on double-layer graphene by molecular beam epitaxy. Applied Physics Letters, 2010, 97, .	3.3	154
14	Fermi-Level Tuning of Epitaxial $\text{Sb}_2\text{Te}_3$ Films on Graphene by Regulating Intrinsic Defects and Substrate Transfer Doping. Physical Review Letters, 2012, 108, 066809.	7.8	152
15	Fully gapped topological surface states in $\text{Bi}_2\text{Se}_3$ films induced by a d-wave high-temperature superconductor. Nature Physics, 2013, 9, 621-625.	16.7	149
16	Molecular-beam epitaxy and robust superconductivity of stoichiometric FeSe crystalline films on bilayer graphene. Physical Review B, 2011, 84, .	3.2	146
17	Topological edge states in a high-temperature superconductor FeSe/SrTiO <sub>3</sub> (001) film. Nature Materials, 2016, 15, 968-973.	27.5	145
18	Interface charge doping effects on superconductivity of single-unit-cell FeSe films on SrTiO <sub>3</sub> . Physical Review B, 2014, 89, .	12.8	128

#	ARTICLE	IF	CITATIONS
19	Experimental Observation of Dirac-like Surface States and Topological Phase Transition in $\text{Pb}_{1-x}\text{Sn}_x$ . Physical Review Letters, 2014, 112, 106001.	10.9	109
20	High temperature superconducting FeSe films on SrTiO <sub>3</sub> substrates. Scientific Reports, 2014, 4, 6040.	3.3	109
21	Atomically smooth ultrathin films of topological insulator Sb <sub>2</sub> Te <sub>3</sub> . Nano Research, 2010, 3, 874-880.	10.4	104
22	Evidence of anisotropic Majorana bound states in 2M-WS <sub>2</sub> . Nature Physics, 2019, 15, 1046-1051.	16.7	104
23	$\text{KFe}_2\text{Se}_2$ : the Parent Compound of K-Doped Iron Selenide Superconductors. Physical Review Letters, 2012, 109, 057003.	7.8	101
24	Suppression of Superconductivity by Twin Boundaries in FeSe. Physical Review Letters, 2012, 109, 137004.	7.8	90
25	Observation of Double-Dome Superconductivity in Potassium-Doped FeSe Thin Films. Physical Review Letters, 2016, 116, 157001.	7.8	88
26	Molecular beam epitaxy growth and scanning tunneling microscopy study of $\text{TiSe}_2$ films. Physical Review B, 2015, 91, .	3.2	87
27	High-Temperature Superconductivity in Single-Unit-Cell FeSe Films on Anatase $\text{TiO}_2$ . Physical Review Letters, 2016, 116, 107001.	7.8	87
28	Atomic and electronic structures of single-layer FeSe on SrTiO <sub>3</sub> (001): The role of oxygen deficiency. Physical Review B, 2013, 87, .	3.2	86
29	Path-breaking directions of nanotechnology-based chemotherapy and molecular cancer therapy. Technological Forecasting and Social Change, 2015, 94, 155-169.	11.6	86
30	Helper lipid structure influences protein adsorption and delivery of lipid nanoparticles to spleen and liver. Biomaterials Science, 2021, 9, 1449-1463.	5.4	84
31	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.	7.8	81
32	Ultrafast Dynamics Evidence of High Temperature Superconductivity in Single Unit Cell FeSe on SrTiO <sub>3</sub> . Physical Review Letters, 2016, 116, 107001.	7.8	77
33	Origin of charge transfer and enhanced electron-phonon coupling in single unit-cell FeSe films on SrTiO <sub>3</sub> . Nature Communications, 2017, 8, 214.	12.8	77
34	Large-scale uniform bilayer graphene prepared by vacuum graphitization of 6H-SiC(0001) substrates. Journal of Physics Condensed Matter, 2013, 25, 095002.	1.8	76
35	Role of $\text{SrTiO}_3$ penetrating into thin FeSe films in the enhancement of superconductivity. Physical Review B, 2016, 94, .	7.8	74
36	Exploring the regional pollution characteristics and meteorological formation mechanism of PM <sub>2.5</sub> in North China during 2013-2017. Environment International, 2020, 134, 105283.	10.0	73

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37	Determinants of citation impact: A comparative analysis of the Global South versus the Global North. <i>Research Policy</i> , 2017, 46, 265-279.	6.4	72
38	Interface-enhanced electron-phonon coupling and high-temperature superconductivity in potassium-coated ultrathin FeSe films on $\text{SrTiO}_3$ . <i>Physical Review B</i> , 2016, 93, .	3.2	70
39	Thermal Conductivity of $\text{CH}_3\text{NH}_3\text{PbI}_3$ and $\text{CsPbI}_3$ : Measuring the Effect of the Methylammonium Ion on Phonon Scattering. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3228-3233.	3.1	69
40	Electronic evidence of an insulator–superconductor crossover in single-layer FeSe/SrTiO <sub>3</sub> films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18501-18506.	7.1	67
41	Aqueous–Containing Precursor Solutions for Efficient Perovskite Solar Cells. <i>Advanced Science</i> , 2018, 5, 1700484.	11.2	66
42	Realizing an Epitaxial Decorated Stanene with an Insulating Bandgap. <i>Advanced Functional Materials</i> , 2018, 28, 1802723.	14.9	63
43	Dichotomy of the electronic structure and superconductivity between single-layer and double-layer FeSe/SrTiO <sub>3</sub> films. <i>Nature Communications</i> , 2014, 5, 5047.	12.8	57
44	CRISPR/Cas9-mediated in vivo gene targeting corrects hemostasis in newborn and adult factor IX–knockout mice. <i>Blood</i> , 2019, 133, 2745-2752.	1.4	57
45	Two-dimensional superconductivity and topological states in $\text{PdTe}_2$ thin films. <i>Physical Review Materials</i> , 2018, 2, .	2.4	57
46	Molecular beam epitaxy growth and post-growth annealing of FeSe films on $\text{SrTiO}_3$ : a scanning tunneling microscopy study. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 265002.	1.8	56
47	Interface induced high temperature superconductivity in single unit-cell FeSe on $\text{SrTiO}_3(110)$ . <i>Applied Physics Letters</i> , 2016, 108, .	3.3	51
48	Imaging the Long Transport Lengths of Photo-generated Carriers in Oriented Perovskite Films. <i>Nano Letters</i> , 2016, 16, 7925-7929.	9.1	50
49	Atomically resolved FeSe/SrTiO <sub>3</sub> (001) interface structure by scanning transmission electron microscopy. <i>2D Materials</i> , 2016, 3, 024002.	4.4	50
50	Interface high-temperature superconductivity. <i>Superconductor Science and Technology</i> , 2016, 29, 123001.	3.5	49
51	Charge-Transfer-Induced Cesium Superlattices on Graphene. <i>Physical Review Letters</i> , 2012, 108, 156803.	7.8	48
52	Interface-enhanced high-temperature superconductivity in single-unit-cell $\text{FeTe}_x\text{S}_{1-x}$ films. <i>Physical Review B</i> , 2013, 87, 040502.	3.2	48
53	Evidence for Berezinskii–Kosterlitz–Thouless transition in atomically flat two-dimensional Pb superconducting films. <i>Solid State Communications</i> , 2013, 165, 59-63.	1.9	47
54	Electrically tuned magnetic order and magnetoresistance in a topological insulator. <i>Nature Communications</i> , 2014, 5, 4915.	12.8	47

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55	Superconductivity dichotomy in K-coated single and double unit cell FeSe films on $\text{SrTiO}_3$ . Physical Review B, 2015, 92, .	3.2	47
56	A mutation-independent CRISPR-Cas9-mediated gene targeting approach to treat a murine model of ornithine transcarbamylase deficiency. Science Advances, 2020, 6, eaax5701.	10.3	44
57	Type-II Ising Superconductivity and Anomalous Metallic State in Macro-Size Ambient-Stable Ultrathin Crystalline Films. Nano Letters, 2020, 20, 5728-5734.	9.1	43
58	Gating the charge state of single Fe dopants in the topological insulator $\text{Bi}_2\text{Se}_3$ with a scanning tunneling microscope. Physical Review B, 2012, 86, .	3.2	42
59	Long-term stable reduction of low-density lipoprotein in nonhuman primates following in vivo genome editing of PCSK9. Molecular Therapy, 2021, 29, 2019-2029.	8.2	42
60	Interdisciplinarity of nano research fields: a keyword mining approach. Scientometrics, 2013, 94, 877-892.	3.0	38
61	Thickness dependence of superconductivity and superconductor-insulator transition in ultrathin $\text{FeSe}$ films on $\text{SrTiO}_3$ (001) substrate. 2D Materials, 2015, 2, 044012.	4.4	37
62	The structure and comparative advantages of China's scientific research: quantitative and qualitative perspectives. Scientometrics, 2016, 106, 435-452.	3.0	35
63	Visualization of Dopant Oxygen Atoms in a $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Superconductor. Advanced Functional Materials, 2019, 29, 1903843.	14.9	34
64	Network structure of scientific collaborations between China and the EU member states. Scientometrics, 2017, 113, 765-781.	3.0	33
65	Observation of interface superconductivity in a $\text{SnSe}_2$ /epitaxial graphene van der Waals heterostructure. Physical Review B, 2018, 98, .	3.2	32
66	Disentangling the magnetoelectric and thermoelectric transport in topological insulator thin films. Physical Review B, 2015, 91, .	3.2	32
67	Trajectories of science and technology and their co-evolution in BRICS: Insights from publication and patent analysis. Journal of Informetrics, 2015, 9, 90-101.	2.9	32
68	Imaging the Electron-Boson Coupling in Superconducting $\text{FeSe}$ Films Using a Scanning Tunneling Microscope. Physical Review Letters, 2014, 112, 057002.	7.8	31
69	Unlocking the Single-Domain Epitaxy of Halide Perovskites. Advanced Materials Interfaces, 2017, 4, 1701003.	3.7	29
70	The effect of collaborations on scientific research output: the case of nanoscience in Chinese regions. Scientometrics, 2019, 121, 839-868.	3.0	29
71	Alkali Metal Halide Salts as Interface Additives to Fabricate Hysteresis-Free Hybrid Perovskite-Based Photovoltaic Devices. ACS Applied Materials & Interfaces, 2016, 8, 23086-23094.	8.0	28
72	Mapping the Electronic Structure of Each Ingredient Oxide Layer of High- $T_c$ Cuprate Superconductor $\text{Bi}_2\text{Te}_2\text{O}_7$ . Physical Review Letters, 2015, 115, 237002.	7.8	26

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73	Who sets up the bridge? Tracking scientific collaborations between China and the European Union. Research Evaluation, 2017, 26, 124-131.	2.6	24
74	Interface enhanced superconductivity in monolayer FeSe films on MgO(001): charge transfer with atomic substitution. Science Bulletin, 2018, 63, 747-752.	9.0	24
75	Medical research versus disease burden in Africa. Research Policy, 2020, 49, 103916.	6.4	24
76	Extensive impurity-scattering study on the pairing symmetry of monolayer FeSe films on $\text{SrTiO}_3$ . Physical Review B, 2018, 97, 104504.	3.2	23
77	Charge ordering in magnetically doped topological insulator $\text{Sb}_2\text{Te}_3$ films. Physical Review B, 2016, 93, 080401.	3.2	22
78	Charge ordering in stoichiometric FeTe: Scanning tunneling microscopy and spectroscopy. Physical Review B, 2016, 93, 080401.	3.2	21
79	Advances and challenges in adeno-associated viral inner-ear gene therapy for sensorineural hearing loss. Molecular Therapy - Methods and Clinical Development, 2021, 21, 209-236.	4.1	20
80	Observation of In-Plane Quantum Griffiths Singularity in Two-Dimensional Crystalline Superconductors. Physical Review Letters, 2021, 127, 137001.	7.8	17
81	Spin fluctuation induced linear magnetoresistance in ultrathin superconducting FeSe films. 2D Materials, 2017, 4, 034004.	4.4	16
82	Edge States at Nematic Domain Walls in FeSe Films. Nano Letters, 2018, 18, 7176-7180.	9.1	16
83	Knowledge flows from public science to industrial technologies. Journal of Technology Transfer, 2021, 46, 1232-1255.	4.3	16
84	Capital inputs in the Chinese economy: Estimates for the total economy, industry and manufacturing. China Economic Review, 2012, 23, 81-104.	4.4	15
85	Probing Dirac Fermion Dynamics in Topological Insulator $\text{Bi}_2\text{Te}_3$ with a Scanning Tunneling Microscope. Physical Review Letters, 2015, 114, 176602.	7.8	15
86	Oxygen vacancy modulated superconductivity in monolayer FeSe on $\text{SrTiO}_3$ . Physical Review B, 2019, 100, 080501.	3.2	15
87	Self-assembly of manganese phthalocyanine on Pb(111) surface: A scanning tunneling microscopy study. Journal of Chemical Physics, 2011, 134, 154703.	3.0	14
88	Transport properties of $\text{Sb}_2\text{Te}_3/\text{Bi}_2\text{Te}_3$ topological insulator heterostructures. Physica Status Solidi - Rapid Research Letters, 2013, 7, 142-144.	2.4	14
89	Atomic visualization of copper oxide structure in the infinite-layer cuprate $\text{SrCu}_2\text{O}_7$ . Physical Review B, 2018, 97, 104504.	3.2	14
90	The effect of competitive public funding on scientific output: A comparison between China and the EU. Research Evaluation, 2021, 29, 418-429.	2.6	14

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91	Signature of Superconductivity in Orthorhombic CoSb Monolayer Films on SrTiO <sub>3</sub> (001). ACS Nano, 2019, 13, 10434-10439.	14.6	13
92	Exploring the spatial dimensions of nanotechnology development in China: the effects of funding and spillovers. Regional Studies, 2019, 53, 245-260.	4.4	13
93	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.	1.8	12
94	Electronic structure of the ingredient planes of the cuprate superconductor A comparison study with Physical Review B, 2016, 93, .	3.2	12
95	Detecting the emergence of new scientific collaboration links in Africa: A comparison of expected and realized collaboration intensities. Journal of Informetrics, 2017, 11, 892-903.	2.9	12
96	Anisotropic superconductivity and elongated vortices with unusual bound states in quasi-one-dimensional nickel-bismuth compounds. Physical Review B, 2018, 97, .	3.2	12
97	Superconductivity in a single-layer alkali-doped FeSe: A weakly coupled two-leg ladder system. Physical Review B, 2013, 88, .	3.2	11
98	Scanning tunneling microscopy study of the superconducting properties of three-atomic-layer Pb films. Applied Physics Letters, 2013, 103, .	3.3	10
99	Visualizing superconductivity in FeSe nanoflakes on SrTiO <sub>3</sub> scanning tunneling microscopy. Physical Review B, 2015, 91, .	3.2	10
100	Complete Conversion of Pbl <sub>2</sub> to Methyl Ammonium Pbl <sub>3</sub> Improves Perovskite Solar Cell Efficiency. ChemPhysChem, 2017, 18, 47-50.	2.1	10
101	Prednisolone reduces the interferon response to AAV in cynomolgus macaques and may increase liver gene expression. Molecular Therapy - Methods and Clinical Development, 2022, 24, 292-305.	4.1	10
102	Controlled synthesis and tunable properties of hematite hierarchical structures in a dual-surfactant system. CrystEngComm, 2011, 13, 1998-2005.	2.6	8
103	The Unexpected Convergence of Regional Productivity in Chinese Industry, 1978-2005. Oxford Development Studies, 2013, 41, 29-53.	1.9	8
104	Visualizing the elongated vortices in Bi <sub>2</sub> -Ga nanostrips. Physical Review B, 2016, 93, .	3.2	8
105	Superconductivity above 28 K in single unit cell FeSe films interfaced with GaO <sub>2</sub> layer on NdGaO <sub>3</sub> (111)O <sub>9.0</sub> . Science Bulletin, 2019, 64, 490-494.		8
106	R&D and economic growth in China on the basis of data envelopment analysis. Journal of Technology Management in China, 2007, 2, 225-236.	0.2	7
107	Combination of Optical and Electrical Loss Analyses for a Si-Phthalocyanine Dye-Sensitized Solar Cell. Journal of Physical Chemistry B, 2014, 118, 14027-14036.	2.6	7
108	Knowledge Transfer from Science to Technology-The Case of Nano Medical Device Technologies. Frontiers in Research Metrics and Analytics, 2018, 3, .	1.9	7

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109	Patterns of technology upgrading – the case of biotechnology in China. Asian Journal of Technology Innovation, 2019, 27, 152-171.	2.8	7
110	Temperature-Dependent Thermal Conductivity Study of MAPbI <sub>3</sub> : Using Mild Aging To Reach a Thermal Percolation Threshold for Greatly Improved Heat Transport. Journal of Physical Chemistry C, 2018, 122, 13243-13249.	3.1	6
111	Anti-PbO-type CoSe film: a possible analog to FeSe superconductors. Superconductor Science and Technology, 2018, 31, 115011.	3.5	6
112	Selective trapping of hexagonally warped topological surface states in a triangular quantum corral. Science Advances, 2019, 5, eaaw3988.	10.3	6
113	Discovery of an insulating parent phase in single-layer FeSe/SrTiO <sub>3</sub> films. Physical Review B, 2020, 102, .	3.2	6
114	Existence of uncountably many bounded positive solutions for a third order nonlinear neutral delay difference equation. Computers and Mathematics With Applications, 2010, 60, 2399-2416.	2.7	5
115	Experimental evidence of the thickness- and electric-field-dependent topological phase transitions in topological crystalline insulator SnTe(111) thin films. Nano Research, 2018, 11, 6045-6050.	10.4	5
116	Technological spillovers and industrial growth in Chinese regions. Industrial and Corporate Change, 0, , dtw022.	2.8	4
117	Asymmetrically optimized structure in a high- <i>T<sub>c</sub></i> single unit-cell FeSe superconductor. Journal of Physics Condensed Matter, 2019, 31, 055701.	1.8	4
118	An <i>in situ</i> electrical transport measurement system under ultra-high vacuum. Review of Scientific Instruments, 2020, 91, 063902.	1.3	4
119	Post-growth Fe deposition on the superconductivity of monolayer FeSe films on SrTiO <sub>3</sub> . Physical Review Materials, 2022, 6, .	2.4	4
120	Stochastic diffusion models for substitutable technological innovations. International Journal of Technology Management, 2004, 28, 654.	0.5	3
121	Interface-enhanced superconductivity in multi-grain (FeSe) <sub>1-x</sub> (SrTiO <sub>3</sub> ) <sub>x</sub> composites. Superconductor Science and Technology, 2021, 34, 035002.	3.5	3
122	Solvability and iterative algorithms for a higher order nonlinear neutral delay differential equation. Applied Mathematics and Computation, 2009, 215, 2534-2543.	2.2	2
123	Characterization of ultrathin superconducting FeSe nanowires on SrTiO <sub>3</sub> substrates. Superconductor Science and Technology, 2022, 35, 065010.	3.5	2
124	Nanoscale superconductivity of In <sub>2</sub> S <sub>3</sub> -Ga islands grown by molecular beam epitaxy. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1.	5.1	1
125	Surface symmetry breaking and disorder effects on superconductivity in perovskite BaBi <sub>2</sub> epitaxial films. Physical Review B, 2018, 98, .	3.2	1
126	Existence of standing wave solutions for coupled quasilinear Schrödinger systems with critical exponents in $\mathbb{R}^N$ . Electronic Journal of Qualitative Theory of Differential Equations, 2017, , 1-23.	0.5	1



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127	Path-Breaking Directions of Nanotechnology-Based Chemotherapy and Molecular Cancer Therapy. SSRN Electronic Journal, 0, , .	0.4	0
128	SCANNING TUNNELING MICROSCOPIC STUDY OF THE INTERFACE SUPERCONDUCTIVITY. Surface Review and Letters, 2018, 25, 1841001.	1.1	0
129	Preparation of SrTiO <sub>3</sub> bicrystal substrates with atomic-level controlled boundaries for Josephson junction fabrication. Physical Review Materials, 2020, 4, .	2.4	0