

# Liling Sun

## List of Publications by Year in descending order

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62  
papers

1,626  
citations

361413

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302126

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63  
all docs

63  
docs citations

63  
times ranked

2690  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum phase transition from superconducting to insulating-like state in a pressurized cuprate superconductor. Nature Physics, 2022, 18, 406-410.	16.7	18
2	Observation of three superconducting transitions in the pressurized CDW-bearing compound $\text{TaTe}_2$ . Physical Review Materials, 2022, 6, .	2.4	6
3	Quasi-uniaxial pressure induced superconductivity in the stoichiometric compound $\text{UTe}_2$ . Physical Review B, 2022, 106, .	2.4	6
4	Reemergence of superconductivity in pressurized quasi-one-dimensional superconductor $\text{K}_2\text{Mo}_3\text{As}_3$ . Physical Review Materials, 2021, 5, .	2.4	5
5	Pressure influence on the valence and magnetic state of Yb ions in noncentrosymmetric heavy-fermion $\text{YbNiC}_2$ . Physical Review B, 2021, 103, .	3.2	1
6	Observation of nearly identical superconducting transition temperatures in the pressurized Weyl semimetals $\text{MlRTe}_4$ (M=Nb and Ta). Physical Review B, 2021, 104, .	3.2	1
7	Crossover from two-dimensional to three-dimensional superconducting states in bismuth-based cuprate superconductor. Nature Physics, 2020, 16, 295-300.	16.7	22
8	Localized-to-itinerant transition preceding antiferromagnetic quantum critical point and gapless superconductivity in $\text{CeRh}_{0.5}\text{Ir}_{0.5}\text{In}_5$ . Communications Physics, 2020, 3, .	5.3	8
9	Quantum Phases of $\text{SrCu}_2\text{BO}_3$ . Physical Review B, 2020, 101, 200602.	3.2	3
10	Dualism of the $f$ -electrons and its relation to high-temperature antiferromagnetism in the heavy-fermion compound $\text{YbCoC}_2$ . Physical Review B, 2020, 101, .	3.2	3
11	Correlation between Fermi surface reconstruction and superconductivity in pressurized $\text{FeTe}_{0.55}$ . Physical Review B, 2020, 101, .	3.2	3
12	Hall-coefficient diagnostics of the surface state in pressurized $\text{SmB}_6$ . Physical Review B, 2020, 101, .	3.2	3
13	Ground state in pressurized $\text{BaFe}_2\text{S}_3$ and $\text{BaFe}_2\text{Te}_3$ . Physical Review B, 2020, 101, .	3.2	8
14	RSAVS superconductors: Materials with a superconducting state that is robust against large volume shrinkage. Physical Review Materials, 2020, 4, .	2.4	7
15	Anomalous connection between antiferromagnetic and superconducting phases in the pressurized noncentrosymmetric heavy-fermion compound $\text{CeRhG}$ . Physical Review B, 2019, 99, .	3.2	6
16	Observation of superconductivity in the pressurized Weyl-semimetal candidate $\text{TaIrTe}_4$ . Physical Review B, 2019, 99, .	3.2	20
17	Record High Superconductivity in Niobium-Titanium Alloy. Advanced Materials, 2019, 31, e1807240.	21.0	27
18	High-entropy alloy superconductors: Status, opportunities, and challenges. Physical Review Materials, 2019, 3, .	2.4	88

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19	Superconductivity in pressurized $\text{CeRhG}$ and related noncentrosymmetric compounds. <i>Physical Review B</i> , 2018, 97, .	3.2	18
20	Independence of topological surface state and bulk conductance in three-dimensional topological insulators. <i>Npj Quantum Materials</i> , 2018, 3, .	5.2	33
21	Advanced high-pressure transport measurement system integrated with low temperature and magnetic field. <i>Chinese Physics B</i> , 2018, 27, 077402.	1.4	0
22	Thermodynamics of a Magnetic Transition in $\text{MnS}_2$ at High Pressures. <i>JETP Letters</i> , 2018, 107, 311-314.	1.4	4
23	Pressure-induced melting of magnetic order and emergence of a new quantum state in $\text{RuCl}_3$ . <i>Physical Review B</i> , 2018, 97, .	3.2	43
24	Universal superconductivity phase diagram for pressurized tetradymite topological insulators. <i>Physical Review Materials</i> , 2018, 2, .	2.4	8
25	Observation of a bi-critical point between antiferromagnetic and superconducting phases in pressurized single crystal $\text{Ca}_{0.73}\text{La}_{0.27}\text{FeAs}_2$ . <i>Science Bulletin</i> , 2017, 62, 857-862.	9.0	10
26	Puzzle maker in $\text{SmB}_6$ : accompany-type valence fluctuation state. <i>Reports on Progress in Physics</i> , 2017, 80, 112501.	20.1	10
27	Robust zero resistance in a superconducting high-entropy alloy at pressures up to 190 GPa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13144-13147.	7.1	121
28	Quantum phase transition and destruction of Kondo effect in pressurized $\text{SmB}_6$ . <i>Science Bulletin</i> , 2017, 62, 1439-1444.	9.0	22
29	Electron-hole balance and the anomalous pressure-dependent superconductivity in black phosphorus. <i>Physical Review B</i> , 2017, 96, .	3.2	37
30	Pressure-induced exotic states in rare earth hexaborides. <i>Reports on Progress in Physics</i> , 2016, 79, 084503.	20.1	17
31	Correlation between superconductivity and bond angle of CrAs chain in non-centrosymmetric compounds $\text{A}_2\text{Cr}_3\text{As}_3$ ( $\text{A} = \text{K}, \text{Rb}$ ). <i>Scientific Reports</i> , 2016, 6, 37878.	3.3	19
32	Superconducting Properties of $\text{GdFeAsO}_{0.85}$ at High Pressure. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 1105-1110.	1.8	7
33	Electronic correlations and pressure-induced metallicity in $\text{LaMnPO}_F$ revealed via infrared spectroscopy. <i>Physical Review B</i> , 2016, 94, .	3.2	0
34	Introduction of Interfacial Charges to Black Phosphorus for a Family of Planar Devices. <i>Nano Letters</i> , 2016, 16, 6870-6878.	9.1	69
35	Pressure-induced quantum phase transitions in $\text{YbB}_6$ single crystal. <i>Physical Review B</i> , 2015, 92, .	3.2	26
36	Superconductivity emerging from a suppressed large magnetoresistant state in tungsten ditelluride. <i>Nature Communications</i> , 2015, 6, 7804.	12.8	290

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37	Emergence of double-dome superconductivity in ammoniated metal-doped FeSe. Scientific Reports, 2015, 5, 9477.	3.3	39
38	Robust antiferromagnetism preventing superconductivity in pressurized (Ba <sub>0.61</sub> K <sub>0.39</sub> )Mn <sub>2</sub> Bi <sub>2</sub> . Scientific Reports, 2015, 4, 7342.	3.3	5
39	Role of the 245 phase in alkaline iron selenide superconductors revealed by high-pressure studies. Physical Review B, 2014, 89, .	3.2	31
40	Re-emerging superconductivity at 48 K in iron chalcogenides. Nature, 2012, 483, 67-69.	27.8	294
41	Valence change of europium in compressed EuFe <sub>2</sub> Si <sub>2</sub> . Physical Review B, 2010, 82, .	3.2	33
42	In situ fabrication of cobalt-doped SrFe <sub>2</sub> As <sub>2</sub> thin films by using pulsed laser deposition with excimer laser. Applied Physics Letters, 2009, 95, 062507.	3.3	40
43	Pressure-induced superconducting state in crystalline boron nanowires. Physical Review B, 2009, 79, .	3.2	18
44	Pressure-induced lattice collapse in the tetragonal phase of single-crystalline Fe <sub>1.05</sub> Si <sub>2</sub> . Physical Review B, 2009, 80, .	3.2	29
45	Valence electronic structure of tantalum carbide and nitride. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 737-741.	0.2	6
46	High pressure studies on silane to 210 GPa at 300 K: optical evidence of an insulator-semiconductor transition. Journal of Physics Condensed Matter, 2006, 18, 8573-8580.	1.8	21
47	Technique for x-ray markers at high pressure in the diamond anvil cell. Review of Scientific Instruments, 2005, 76, 036102.	1.3	1
48	Convenient optical pressure gauge for multimegabar pressures calibrated to 300 GPa. Applied Physics Letters, 2005, 86, 014103.	3.3	38
49	Effect of proton irradiation on structure relaxation of Zr <sub>41.5</sub> Ti <sub>14.9</sub> Cu <sub>12.6</sub> Ni <sub>10.5</sub> Be <sub>20.4</sub> bulk metallic glass. Science Bulletin, 2004, 49, 999-1001.	1.7	0
50	Unusual transition phenomenon in Zr-based bulk metallic glass upon heating at high pressure. Applied Physics Letters, 2002, 80, 3087-3089.	3.3	7
51	Containerless solidification of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> glass-forming alloy in drop tube. Science Bulletin, 2002, 47, 1700-1703.	1.7	1
52	Dependence of High Pressure on Phase Transformation in Zr <sub>41.2</sub> Ti <sub>13.8</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> Materials Transactions, 2001, 42, 579-582.	1.7	1
53	Effects of gravity on the microstructure of Zr <sub>41</sub> Ti <sub>14</sub> -Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> bulk glass forming alloy. Science Bulletin, 2001, 46, 961-962.	1.7	4
54	Bulk diamond formation from graphite in the presence of C-O-H fluid under high pressure. High Pressure Research, 2001, 21, 159-173.	1.2	3

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55	Enhanced crystallization and phase transformation of amorphous silicon nitride under high pressure. <i>Journal of Materials Research</i> , 2001, 16, 67-75.	2.6	3
56	Structure and crystallization of bulk amorphous Pd <sub>41</sub> Ni <sub>10</sub> Cu <sub>28</sub> P <sub>21</sub> alloy. <i>Science in China Series A: Mathematics</i> , 2000, 43, 407-413.	0.5	8
57	Reversible phase transition between amorphous and crystalline in Zr <sub>41.2</sub> Ti <sub>13.8</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> under high pressure at room temperature. <i>Applied Physics Letters</i> , 2000, 76, 2874-2876.	3.3	20
58	Formation of bulk $\alpha$ -FeSi <sub>2</sub> by annealing rapidly solidified $\alpha$ -FeSi <sub>2</sub> ribbons. <i>Journal of Materials Research</i> , 2000, 15, 1045-1047.	2.6	3
59	Transformation probability of graphite-diamond assisted by nonmetallic catalysts at high pressure and high temperature. <i>Journal of Materials Research</i> , 1999, 14, 631-633.	2.6	10
60	Non-metallic catalysts for diamond synthesis under high pressure and high temperature. <i>Science in China Series A: Mathematics</i> , 1999, 42, 834-841.	0.5	1
61	Conversion of graphite to diamond assisted by non-metallic catalysts under high pressure and high temperature: A review. <i>High Pressure Research</i> , 1998, 16, 69-77.	1.2	3
62	Solidification characteristics of Pd <sub>40</sub> Ni <sub>40</sub> P <sub>20</sub> alloy under microgravity condition. <i>Science in China Series A: Mathematics</i> , 1997, 40, 662-667.	0.5	9