Yue Sun

List of Publications by Year
in descending order

48 papers	1,232 citations	361045 20 h-index	377514 34 g-index
48 all docs	48 docs citations	48 times ranked	1412 citing authors

#	Article	IF	Citations
1	Multiple topological states in iron-based superconductors. Nature Physics, 2019, 15, 41-47.	6.5	170
2	Dynamics and mechanism of oxygen annealing in Fe1+yTe0.6Se0.4 single crystal. Scientific Reports, 2014, 4, 4585.	1.6	79
3	Effect of Gd substitution on the structure and magnetic properties of YFeO3 ceramics. Journal of Solid State Chemistry, 2012, 196, 362-366.	1.4	69
4	Critical current density, vortex dynamics, and phase diagram of single-crystal FeSe. Physical Review B, 2015, 92, .	1.1	65
5	Electron carriers with possible Dirac cone like dispersion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeSe</mml:mi><mml:mrow><mml:mn>1<mathvariant="normal">S</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>(<mml:math) Tj ETQq1 1 0.784314 93, .	1.1	57
6	Structure and magnetic properties of Y1â^'xLuxFeO3 (0â€‰â‰€â€‰xâ€‰â‰€â€‰1) ceramics. Journal of Applied Physics, 2012, 111, .	1.1	54
7	Multiband effects and possible Dirac fermions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Fe</mml:mtext><mml:mrow><mml:mn>1</mml:mn> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Te</mml:mtext><mml:mrow><mml:mn>0.6 xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Se</mml:mtext><mml:mrow><mml:mn>0.4</mml:mn> Physical Review B, 2014, 89, .	1.1	54
8	Domain Meissner state and spontaneous vortex-antivortex generation in the ferromagnetic superconductor EuFe ₂ (As _{0.79} P _{0.21}) ₂. Science Advances, 2018, 4, eaat1061.	4.7	54
9	Review of annealing effects and superconductivity in Fe_{1+y}Te_{1â^'x}Se_x superconductors. Superconductor Science and Technology, 2019, 32, 123001.	1.8	45
10	Pair-breaking effects induced by 3-MeV proton irradiation in Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>K<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow	1.1	43
11	Large Homogeneous and Isotropic Critical Current Density in Oxygen-Annealed Fe_{1+y}Te_{0.6}Se_{0.4}Single Crystal. Applied Physics Express, 2013, 6, 043101.	1.1	39
12	Magnetic relaxation and collective vortex creep in FeTe _{0.6} Se _{0.4} single crystal. Europhysics Letters, 2013, 103, 57013.	0.7	36
13	Influence of interstitial Fe to the phase diagram of Fe1+yTe1â^'xSex single crystals. Scientific Reports, 2016, 6, 32290.	1.6	35
14	Quasiparticle Evidence for the Nematic State above <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mi mathvariant="normal">c</mml:mi></mml:msub></mml:math> in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow>	2.9	32
15	Gap structure of FeSe determined by angle-resolved specific heat measurements in applied rotating magnetic field. Physical Review B, 2017, 96, .	1.1	29
16	Evidence for nematic superconductivity of topological surface states in PbTaSe2. Science Bulletin, 2020, 65, 1349-1355.	4.3	27
17	Evolution of Superconductivity in Fe_{1+y}Te_{1-x}Se_xAnnealed in Te Vapor. Journal of the Physical Society of Japan, 2013, 82, 093705.	0.7	25
18	Enhancement of critical current density and mechanism of vortex pinning in H⁺-irradiated FeSe single crystal. Applied Physics Express, 2015, 8, 113102.	1.1	23

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19	Bulk Superconductivity in Fe₁₊_yTe_{0.6}Se_{0.4} Induced by Removal of Excess Fe. Journal of the Physical Society of Japan, 2014, 83, 064704.	0.7	22
20	Visualization of the magnetic flux structure in phosphorus-doped EuFe2As2 single crystals. JETP Letters, 2017, 105, 98-102.	0.4	21
21	Bulk Superconductivity in Fe_{1+y}Te_{1-x}Se_x Induced by Annealing in Se and S Vapor. Journal of the Physical Society of Japan, 2013, 82, 115002.	0.7	17
22	Evolution of superconducting and transport properties in annealed FeTe_{1â^'x}Se_x(0.1 â‰¤xâ‰¤ 0.4) multiband superconductors. Superconductor Science and Technology, 2015, 28, 044002.	1.8	17
23	Effects of heavy-ion irradiation on FeSe. Physical Review B, 2017, 95, .	1.1	17
24	Symmetry-unprotected nodes or gap minima in the s++ state of monocrystalline FeSe. Physical Review B, 2017, 96, .	1.1	17
25	Hydrothermal synthesis and complete phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">FeSe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>	1.1	16
26	Quasiparticle scattering in 3 MeV proton irradiated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">BaFe</mml:mi><mml:mn>		

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37	Protonation-induced discrete superconducting phases in bulk FeSe single crystals. Physical Review B, 2022, 105, .	1.1	8
38	Anisotropies and Homogeneities of Superconducting Properties in Ironâ€“Platinumâ€“Arsenide Ca₁₀(Pt₃As₈)(Fe_{1.79}Pt_{0.21}As₂)₅. Journal of the Physical Society of Japan, 2012, 81, 114723.	1.7	7
39	Magneto-optical characterizations of FeTe_{0.5}Se_{0.5}thin films with critical current density over 1 MA cm^{â^'2}. Superconductor Science and Technology, 2015, 28, 015010.	1.8	7
40	Disorder-robust high-field superconducting phase of FeSe single crystals. Physical Review B, 2021, 104, .	1.1	7
41	Significant enhancement of critical current density in H⁺-intercalated FeSe single crystal. Superconductor Science and Technology, 2022, 35, 075012.	1.8	7
42	Optimization of Deposition Conditions to Grow High-Quality Feâ€“Seâ€“Te Thin Films. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	5
43	Effects of Iodine Annealing on Fe₁₊_yTe_{0.6}Se_{0.4}. Journal of the Physical Society of Japan, 2016, 85, 104714.	0.7	4
44	Effect of S doping on the critical current density and vortex dynamics in FeSe single crystal. Physica C: Superconductivity and Its Applications, 2016, 530, 55-57.	0.6	4
45	Angular-dependent magnetoresistance study in Ca0.73La0.27FeAs2: a â€˜parentâ€™ compound of 112-type iron pnictide superconductors. Journal of Physics Condensed Matter, 2018, 30, 025701.	0.7	4
46	Relationship between superconductivity and nematicity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeSe</mml:mi><mml:mrow><mml:mn>1</m <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>x</mml:mi><mml:mo>=</mml:mo Physical Review B, 2021, 104, .	1.1	4
47	Fully gapped superconductivity without sign reversal in the topological superconductor PbTaSe2. Physical Review B, 2020, 102, .	1.1	2
48	Focused ion beam microfabrication of single-crystal nanobridge toward Fe(Te, Se)-based Josephson device. Journal of Physics: Conference Series, 2021, 1975, 012010.	0.3	1