

Yue Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

844
citations

17
h-index

28
g-index

48
ext. papers

1,047
ext. citations

3.5
avg, IF

4.09
L-index

#	Paper	IF	Citations
47	Protonation-induced discrete superconducting phases in bulk FeSe single crystals. <i>Physical Review B</i> , 2022 , 105,	3.3	2
46	Significant enhancement of critical current density in H ⁺ -intercalated FeSe single crystal. <i>Superconductor Science and Technology</i> , 2022 , 35, 075012	3.1	0
45	Electronic transport properties and hydrostatic pressure effect of FeSe _{0.67} Te _{0.33} single crystals free of phase separation. <i>Superconductor Science and Technology</i> , 2021 , 34, 055006	3.1	1
44	Hydrothermal synthesis and complete phase diagram of FeSe _{1-x} S _x (0 ≤ x ≤ 1) single crystals. <i>Physical Review B</i> , 2021 , 103,	3.3	4
43	Comparative study of superconducting and normal-state anisotropy in Fe _{1+y} Te _{0.6} Se _{0.4} superconductors with controlled amounts of interstitial excess Fe. <i>Physical Review B</i> , 2021 , 103,	3.3	1
42	Relationship between superconductivity and nematicity in FeSe _{1-x} Tex (x=0-0.5) films studied by complex conductivity measurements. <i>Physical Review B</i> , 2021 , 104,	3.3	1
41	Focused ion beam microfabrication of single-crystal nanobridge toward Fe(Te, Se)-based Josephson device. <i>Journal of Physics: Conference Series</i> , 2021 , 1975, 012010	0.3	
40	Evidence for nematic superconductivity of topological surface states in PbTaSe ₂ . <i>Science Bulletin</i> , 2020 , 65, 1349-1355	10.6	8
39	Achieving the depairing limit along the c axis in Fe _{1+y} Te _{1-x} Sex single crystals. <i>Physical Review B</i> , 2020 , 101,	3.3	5
38	Fully gapped superconductivity without sign reversal in the topological superconductor PbTaSe ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	2
37	Deviation from Canonical Collective Creep Behavior in Li _{0.8} Fe _{0.2} OHFeSe. <i>Journal of the Physical Society of Japan</i> , 2019 , 88, 034703	1.5	6
36	Review of annealing effects and superconductivity in Fe _{1+y} Te _{1-x} Se _x superconductors. <i>Superconductor Science and Technology</i> , 2019 , 32, 103001	3.1	22
35	Quasiparticle Evidence for the Nematic State above T _c in Sr _x Bi ₂ Se ₃ . <i>Physical Review Letters</i> , 2019 , 123, 027002	7.4	18
34	Multiple topological states in iron-based superconductors. <i>Nature Physics</i> , 2019 , 15, 41-47	16.2	96
33	Angular-dependent magnetoresistance study in CaLaFeAs: a parent compound of 112-type iron pnictide superconductors. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 025701	1.8	2
32	Domain Meissner state and spontaneous vortex-antivortex generation in the ferromagnetic superconductor EuFe(AsP). <i>Science Advances</i> , 2018 , 4, eaat1061	14.3	35
31	Quasiparticle scattering in 3 MeV proton irradiated BaFe ₂ (As _{0.67} P _{0.33}) ₂ . <i>Physical Review B</i> , 2018 , 98,	3.3	7

30	Disorder-sensitive nodelike small gap in FeSe. <i>Physical Review B</i> , 2018 , 98,	3.3	5
29	Effects of heavy-ion irradiation on FeSe. <i>Physical Review B</i> , 2017 , 95,	3.3	14
28	Optimization of Deposition Conditions to Grow High-Quality FeSe _{1-x} Te _x Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	5
27	Symmetry-unprotected nodes or gap minima in the s ₊₊ state of monocrystalline FeSe. <i>Physical Review B</i> , 2017 , 96,	3.3	16
26	Visualization of the magnetic flux structure in phosphorus-doped EuFe ₂ As ₂ single crystals. <i>JETP Letters</i> , 2017 , 105, 98-102	1.2	15
25	Gap structure of FeSe determined by angle-resolved specific heat measurements in applied rotating magnetic field. <i>Physical Review B</i> , 2017 , 96,	3.3	21
24	Electron carriers with possible Dirac-cone-like dispersion in FeSe _{1-x} S _x (x=0 and 0.14) single crystals triggered by structural transition. <i>Physical Review B</i> , 2016 , 93,	3.3	47
23	Structural-transition-induced quasi-two-dimensional Fermi surface in FeSe. <i>Physical Review B</i> , 2016 , 94,	3.3	8
22	Effects of Pnictogen Atmosphere Annealing on Fe _{1+y} Te _{0.6} Se _{0.4} . <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 024712	1.5	8
21	Effects of Iodine Annealing on Fe _{1+y} Te _{0.6} Se _{0.4} . <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 104714	1.5	3
20	Enhancement of critical current density in a Ca _{0.85} La _{0.15} Fe(As _{0.92} Sb _{0.08}) ₂ superconductor with T _c = 47 K through 3 MeV proton irradiation. <i>Superconductor Science and Technology</i> , 2016 , 29, 055006	2.1	6
19	Influence of interstitial Fe to the phase diagram of Fe _{1+y} Te _{1-x} S _x single crystals. <i>Scientific Reports</i> , 2016 , 6, 32290	4.9	22
18	Effect of S doping on the critical current density and vortex dynamics in FeSe single crystal. <i>Physica C: Superconductivity and Its Applications</i> , 2016 , 530, 55-57	1.3	3
17	Evolution of superconducting and transport properties in annealed FeTe _{1-x} S _x (0.1 ≤ x ≤ 0.4) multiband superconductors. <i>Superconductor Science and Technology</i> , 2015 , 28, 044002	3.1	12
16	Improvement of superconductivity in Fe _{1+y} Te _{0.6} Se _{0.4} induced by annealing with CaF ₂ and SmF ₃ . <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 517, 16-19	1.3	7
15	Enhancement of weak localization for nitrogen-doped graphene by short range potentials. <i>Carbon</i> , 2015 , 82, 346-352	10.4	8
14	Critical current density, vortex dynamics, and phase diagram of single-crystal FeSe. <i>Physical Review B</i> , 2015 , 92,	3.3	45
13	Enhancement of critical current density and mechanism of vortex pinning in H ⁺ -irradiated FeSe single crystal. <i>Applied Physics Express</i> , 2015 , 8, 113102	2.4	17

12	Magneto-optical characterizations of FeTe _{0.5} Se _{0.5} thin films with critical current density over 1 MA cm ⁻² . <i>Superconductor Science and Technology</i> , 2015 , 28, 015010	3.1	6
11	Bulk Superconductivity in Fe _{1+y} Te _{0.6} Se _{0.4} Induced by Removal of Excess Fe. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 064704	1.5	19
10	Dynamics and mechanism of oxygen annealing in Fe _{1+y} Te _{0.6} Se _{0.4} single crystal. <i>Scientific Reports</i> , 2014 , 4, 4585	4.9	64
9	Multiband effects and possible Dirac fermions in Fe _{1+y} Te _{0.6} Se _{0.4} . <i>Physical Review B</i> , 2014 , 89,	3.3	43
8	Evolution of Superconductivity in Fe _{1+y} Te _{1-x} Se _x Annealed in Te Vapor. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 093705	1.5	22
7	Magnetic relaxation and collective vortex creep in FeTe _{0.6} Se _{0.4} single crystal. <i>Europhysics Letters</i> , 2013 , 103, 57013	1.6	28
6	Large, Homogeneous, and Isotropic Critical Current Density in Oxygen-Annealed Fe _{1+y} Te _{0.6} Se _{0.4} Single Crystal. <i>Applied Physics Express</i> , 2013 , 6, 043101	2.4	37
5	Pair-breaking effects induced by 3-MeV proton irradiation in Ba _{1-x} K _x Fe ₂ As ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	38
4	Bulk Superconductivity in Fe _{1+y} Te _{1-x} Se _x Induced by Annealing in Se and S Vapor. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 115002	1.5	16
3	Effect of Gd substitution on the structure and magnetic properties of YFeO ₃ ceramics. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 362-366	3.3	55
2	Structure and magnetic properties of Y _{1-x} Lu _x FeO ₃ (0 ≤ x ≤ 1) ceramics. <i>Journal of Applied Physics</i> , 2012 , 111, 053911	2.5	39
1	Anisotropies and Homogeneities of Superconducting Properties in IronPlatinumArsenide Ca ₁₀ (Pt ₃ As ₈)(Fe _{1.79} Pt _{0.21} As ₂) ₅ . <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 114723	1.5	5