

Chiheng Dong

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58
papers

902
citations

14
h-index

28
g-index

59
ext. papers

1,051
ext. citations

3
avg, IF

3.73
L-index

#	Paper	IF	Citations
58	Distinct fermi surface topology and nodeless superconducting gap in a $(\text{Ti}_{0.58}\text{Rb}_{0.42})\text{Fe}_{1.72}\text{Se}_2$ superconductor. <i>Physical Review Letters</i> , 2011 , 106, 107001	7.4	191
57	Realization of practical level current densities in $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ tape conductors for high-field applications. <i>Applied Physics Letters</i> , 2014 , 104, 202601	3.4	103
56	Revised phase diagram for the $\text{FeTe}_{1-x}\text{Sex}$ system with fewer excess Fe atoms. <i>Physical Review B</i> , 2011 , 84,	3.3	70
55	Hot pressing to enhance the transport J_c of $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ superconducting tapes. <i>Scientific Reports</i> , 2014 , 4, 6944	4.9	57
54	High transport current superconductivity in powder-in-tube $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ tapes at 27 T. <i>Superconductor Science and Technology</i> , 2018 , 31, 015017	3.1	40
53	Superconducting Properties of 100-m Class $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ Tape and Pancake Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	35
52	Multiband superconductivity of heavy electrons in a TiNi_2Se_2 single crystal. <i>Physical Review Letters</i> , 2013 , 111, 207001	7.4	35
51	High critical current density in textured Ba-122/Ag tapes fabricated by a scalable rolling process. <i>Scripta Materialia</i> , 2015 , 99, 33-36	5.6	30
50	Magnetic and Superconducting Properties in Single Crystalline $\text{Fe}_{1+x}\text{Te}_{1-x}\text{Sex}$ (x. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 074704	1.5	23
49	First performance test of a 30 mm iron-based superconductor single pancake coil under a 24 T background field. <i>Superconductor Science and Technology</i> , 2019 , 32, 04LT01	3.1	21
48	Critical current density and microstructure of iron sheathed multifilamentary $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2/\text{Ag}$ composite conductors. <i>Journal of Applied Physics</i> , 2015 , 118, 203909	2.5	19
47	Vortex pinning and dynamics in high performance $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ superconductor. <i>Journal of Applied Physics</i> , 2016 , 119, 143906	2.5	19
46	Effect of metal (Zn/In/Pb) additions on the microstructures and superconducting properties of $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ tapes. <i>Scripta Materialia</i> , 2016 , 112, 128-131	5.6	18
45	Large transport $J(c)$ in Cu-sheathed $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ superconducting tape conductors. <i>Scientific Reports</i> , 2015 , 5, 11506	4.9	17
44	Transport current density at temperatures up to 25 K of Cu/Ag composite sheathed 122-type tapes and wires. <i>Superconductor Science and Technology</i> , 2017 , 30, 115007	3.1	14
43	Enhancement of transport critical current density of $\text{SmFeAsO}_{1-x}\text{Fx}$ tapes fabricated by an ex-situ powder-in-tube method with a Sn-presintering process. <i>Applied Physics Letters</i> , 2014 , 104, 172601	3.4	14
42	Transport critical current density of high-strength $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2/\text{Ag}/\text{Monel}$ composite conductors. <i>Superconductor Science and Technology</i> , 2017 , 30, 075010	3.1	11

41	Effects of rolling deformation processes on the properties of Ag-sheathed $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconducting tapes. <i>Physica C: Superconductivity and Its Applications</i> , 2016 , 525-526, 94-99	1.3	10
40	High critical current density in Cu/Ag composited sheathed $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ tapes prepared via hot isostatic pressing. <i>Superconductor Science and Technology</i> , 2019 , 32, 044007	3.1	9
39	Calorimetric evidence for enhancement of homogeneity in high performance $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductors. <i>Scripta Materialia</i> , 2017 , 138, 114-119	5.6	8
38	Influences of Tape Thickness on the Properties of Ag-Sheathed $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ Superconducting Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	8
37	Superconductivity and Magnetism in $(\text{Tl}, \text{K}, \text{Rb})\text{Fe}_x\text{Se}_2$. <i>Journal of Physics: Conference Series</i> , 2013 , 449, 012015	0.3	8
36	High-performance $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconducting tapes with grain texture engineered via a scalable fabrication. <i>Science China Materials</i> , 2021 , 64, 2530-2540	7.1	8
35	Chemical stability and superconductivity in Ag-sheathed $\text{CaKFe}_4\text{As}_4$ superconducting tapes. <i>Superconductor Science and Technology</i> , 2019 , 32, 015008	3.1	8
34	Low-temperature synthesis to achieve high critical current density and avoid a reaction layer in $\text{SmFeAsO}_{1-x}\text{F}_x$ superconducting tapes. <i>Superconductor Science and Technology</i> , 2015 , 28, 105005	3.1	7
33	Thermal conductivity of composite multi-filamentary iron-based superconducting tapes. <i>Superconductor Science and Technology</i> , 2020 , 33, 075010	3.1	7
32	Tailoring the critical current properties in Cu-sheathed $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconducting tapes. <i>Superconductor Science and Technology</i> , 2016 , 29, 095006	3.1	7
31	Effects of core density and impurities on the critical current density of $\text{CaKFe}_4\text{As}_4$ superconducting tapes. <i>Superconductor Science and Technology</i> , 2019 , 32, 105014	3.1	7
30	Microstructure and superconducting properties of nanocarbon-doped internal Mg diffusion-processed MgB_2 wires fabricated using different boron powders. <i>Superconductor Science and Technology</i> , 2016 , 29, 045009	3.1	7
29	Enhanced transport critical current density in Sn-added $\text{SmFeAsO}_{1-x}\text{F}_x$ tapes prepared by the PIT method. <i>Superconductor Science and Technology</i> , 2017 , 30, 065004	3.1	6
28	Transport Critical Current Density of $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2/\text{Ag}$ Superconducting Tapes Processed by Flat Rolling and Uniaxial Pressing. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-4	1.8	6
27	Phase diagram and annealing effect for $\text{Fe}_{1-x}\text{Te}_{1-x}\text{S}_x$ single crystals. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 385701	1.8	6
26	Enhancement of the critical current density in Cu/Ag composite sheathed $(\text{Ba}, \text{K})\text{Fe}_2\text{As}_2$ tapes by pre-annealing process. <i>Materials Research Express</i> , 2019 , 6, 096003	1.7	5
25	High Critical Current Density in Cu-Sheathed $\text{SmFeAsO}_{1-x}\text{F}_x$ Superconducting Tapes by Low-Temperature Hot-Pressing. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	5
24	Evolution from antiferromagnetic order to spin-glass state in $\text{Fe}_{1.05-x}\text{Cu}_x\text{Te}$ system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3645-3648	2.3	5

23	Effects of heat treatment temperature on the superconducting properties of Ba _{1-x} K _x Fe ₂ As ₂ tapes. <i>Superconductor Science and Technology</i> , 2019 , 32, 025007	3.1	5
22	Slow Vortex Creep Induced by Strong Grain Boundary Pinning in Advanced Ba ₁₂₂ Superconducting Tapes. <i>Chinese Physics Letters</i> , 2019 , 36, 067401	1.8	4
21	Investigation of J_c -Suppressing Factors in Flat-Rolled $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2/\text{Fe}$ Tapes Via Microstructure Analysis. <i>IEEE Transactions on Applied Superconductivity</i> , 2015 , 25, 1-5	1.8	4
20	Effect of Wire Diameter on the Microstructure and J_c Properties of Ba _{0.6} K _{0.4} Fe ₂ As ₂ Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	4
19	The large anisotropy of the magnetic and transport properties in the Ba ₅ Co ₅ ClO ₁₃ single crystal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 4092-4095	2.3	4
18	Effect of annealing on superconductivity in Fe _{1+y} (Te _{1-x} S _x) system. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 1216-1220	3.6	4
17	Enhancing Transport Performance in 7-filamentary Ba _{0.6} K _{0.4} Fe ₂ As ₂ Wires and Tapes via Hot Isostatic Pressing. <i>Physica C: Superconductivity and Its Applications</i> , 2021 , 585, 1353870	1.3	4
16	Critical Current Density and Flux Pinning Mechanism in Flat-Rolled Sr-122/Ag Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	4
15	Transport Critical Current Density in Single-Core Composite Ba ₁₂₂ Superconducting Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-4	1.8	3
14	The Effect of High Magnetic Field on Electromagnetic Response and Microwave Absorption of Cobalt Particles During Annealing Process. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 463-468	1.5	3
13	Strong flux pinning and anomalous anisotropy of Sr _{0.6} K _{0.4} Fe ₂ As ₂ superconducting tapes. <i>Superconductor Science and Technology</i> , 2020 , 33, 125001	3.1	3
12	Enhancement of transport J_c in (Ba, K)Fe ₂ As ₂ HIP processed round wires. <i>Superconductor Science and Technology</i> , 2021 , 34, 094001	3.1	3
11	Boundary Current Response in Ba _{0.34} K _{0.64} Fe ₂ As ₂ Single Crystal Probed by Non-resonant Microwave Absorption. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 3581-3585	1.5	2
10	Transport characterization and pinning analysis of BaFe _{1.9} Ni _{0.1} As _{2.05} thin films. <i>Superconductor Science and Technology</i> , 2020 , 33, 044002	3.1	2
9	Superconducting Properties of PIT $\text{BaFe}_{2-x}\text{Co}_x\text{As}_2$ Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-4	1.8	2
8	Visualization of the grain structure in high-performance Ba _{1-x} K _x Fe ₂ As ₂ superconducting tapes. <i>Superconductor Science and Technology</i> , 2021 , 34, 045017	3.1	2
7	Large critical current density in Cu/Ag composite sheathed (Ba,K)Fe ₂ As ₂ tapes fabricated under ambient pressure. <i>Superconductor Science and Technology</i> , 2019 , 32, 065008	3.1	1
6	Superconductivity and disorder effect in TlNi ₂ Se _{(2-x)S(x)} compounds. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 395701	1.8	1

- 5 Mechanical properties and densification mechanism of powder-in-tube $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ superconductors. *Superconductor Science and Technology*, 3.1 1
- 4 Hot pressing to enhance the transport J_c of $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ superconducting tapes 1
- 3 From σ to π -pinning in $\text{CaKFe}_4\text{As}_4$ single crystals obtained by adjusting their defect structures. *Superconductor Science and Technology*, 3.1 1
- 2 Thickness dependence of structural and superconducting properties of Co-doped BaFeAs coated conductors. *iScience*, 2021, 24, 102922 6.1 0
- 1 Robust superconductivity against water corrosion in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ bulks. *Superconductor Science and Technology*, 2021, 34, 125008 3.1