

Chiheng Dong

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Distinct Fermi Surface Topology and Nodeless Superconducting Gap in a $Tl_{0.58}Rb_{0.42}FeAs_2$ Superconductor. <i>Physical Review Letters</i> , 2011, 106, 107001.	2.0	207
2	Realization of practical level current densities in $Sr_{0.6}K_{0.4}Fe_2As_2$ tape conductors for high-field applications. <i>Applied Physics Letters</i> , 2014, 104, 202601.	1.5	119
3	High transport current superconductivity in powder-in-tube $Ba_{0.6}K_{0.4}Fe_2As_2$ tapes at 27 T. <i>Superconductor Science and Technology</i> , 2018, 31, 015017.	1.1	82
4	Hot pressing to enhance the transport J_c of $Sr_{0.6}K_{0.4}Fe_2As_2$ superconducting tapes. <i>Scientific Reports</i> , 2014, 4, 6944.	1.6	64
5	Superconducting Properties of 100-m Class $Sr_{0.6}K_{0.4}Fe_2As_2$ Tape and Pancake Coils. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	52
6	Multiband Superconductivity of Heavy Electrons in a $TlNi_2Se_2$ Single Crystal. <i>Physical Review Letters</i> , 2013, 111, 207001.	2.9	40
7	High critical current density in textured $Ba-122/Ag$ tapes fabricated by a scalable rolling process. <i>Scripta Materialia</i> , 2015, 99, 33-36.	2.6	38
8	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.	1.8	34
9	Critical current density and microstructure of iron sheathed multifilamentary $Sr_{1-x}K_xFe_2As_2/Ag$ composite conductors. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	27
10	High-performance $Ba_{1-x}K_xFe_2As_2$ superconducting tapes with grain texture engineered via a scalable fabrication. <i>Science China Materials</i> , 2021, 64, 2530-2540.	3.5	24
11	Magnetic and Superconducting Properties in Single Crystalline $Fe_{1+x}Te_{1-x}Se_x$ ($x \leq 0.50$) System. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 074704.	0.7	23
12	Vortex pinning and dynamics in high performance $Sr_{0.6}K_{0.4}Fe_2As_2$ superconductor. <i>Journal of Applied Physics</i> , 2016, 119, 143906.	1.1	23
13	Effect of metal (Zn/In/Pb) additions on the microstructures and superconducting properties of $Sr_{1-x}K_xFe_2As_2$ tapes. <i>Scripta Materialia</i> , 2016, 112, 128-131.	2.6	23
14	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.	1.8	22
15	Large transport J_c in Cu-sheathed $Sr_{0.6}K_{0.4}Fe_2As_2$ superconducting tape conductors. <i>Scientific Reports</i> , 2015, 5, 11506.	1.6	18
16	Enhancement of transport J_c in $(Ba, K)Fe_2As_2$ HIP processed round wires. <i>Superconductor Science and Technology</i> , 2021, 34, 094001.	1.8	17
17	Transport critical current density of high-strength $Sr_{1-x}K_xFe_2As_2/Ag$ /Monel composite conductors. <i>Superconductor Science and Technology</i> , 2017, 30, 075010.	1.8	16

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19	High critical current density in Cu/Ag composited sheathed Ba _{0.6} K _{0.4} Fe ₂ As ₂ tapes prepared via hot isostatic pressing. Superconductor Science and Technology, 2019, 32, 044007.	1.8	16
20	Enhancement of transport critical current density of SmFeAsO _{1-x} F _x tapes fabricated by an <i>ex-situ</i> powder-in-tube method with a Sn-presintering process. Applied Physics Letters, 2014, 104, .	1.5	15
21	Tailoring the critical current properties in Cu-sheathed Sr _{1-x} K _x Fe ₂ As ₂ superconducting tapes. Superconductor Science and Technology, 2016, 29, 095006.	1.8	14
22	Effects of core density and impurities on the critical current density of CaKFe ₄ As ₄ superconducting tapes. Superconductor Science and Technology, 2019, 32, 105014.	1.8	13
23	Thermal conductivity of composite multi-filamentary iron-based superconducting tapes. Superconductor Science and Technology, 2020, 33, 075010.	1.8	13
24	From $\hat{\Gamma}_1$ to $\hat{\Gamma}_T$ pinning in CaKFe ₄ As ₄ single crystals obtained by adjusting their defect structures. Superconductor Science and Technology, 2021, 34, 115020.	1.8	12
25	Superconductivity and Magnetism in (Tl, K, Rb)Fe _x Se ₂ . Journal of Physics: Conference Series, 2013, 449, 012015.	0.3	11
26	Slow Vortex Creep Induced by Strong Grain Boundary Pinning in Advanced Ba122 Superconducting Tapes*. Chinese Physics Letters, 2019, 36, 067401.	1.3	11
27	Enhancing Transport Performance in 7-filamentary Ba _{0.6} K _{0.4} Fe ₂ As ₂ Wires and Tapes via Hot Isostatic Pressing. Physica C: Superconductivity and Its Applications, 2021, 585, 1353870.	0.6	11
28	Effects of rolling deformation processes on the properties of Ag-sheathed Sr _{1-x} K _x Fe ₂ As ₂ superconducting tapes. Physica C: Superconductivity and Its Applications, 2016, 525-526, 94-99.	0.6	10
29	Chemical stability and superconductivity in Ag-sheathed CaKFe ₄ As ₄ superconducting tapes. Superconductor Science and Technology, 2019, 32, 015008.	1.8	10
30	Microstructure and superconducting properties of nanocarbon-doped internal Mg diffusion-processed MgB ₂ wires fabricated using different boron powders. Superconductor Science and Technology, 2016, 29, 045009.	1.8	9
31	Evolution from antiferromagnetic order to spin-glass state in Fe _{1.05} Cu _x Te system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3645-3648.	0.9	8
32	Phase diagram and annealing effect for Fe _{1-x} Te _{1-x} S _x single crystals. Journal of Physics Condensed Matter, 2013, 25, 385701.	0.7	8
33	Enhanced transport critical current density in Sn-added SmFeAsO _{1-x} F _x tapes prepared by the PIT method. Superconductor Science and Technology, 2017, 30, 065004.	1.8	8
34	Calorimetric evidence for enhancement of homogeneity in high performance Sr _{1-x} K _x Fe ₂ As ₂ superconductors. Scripta Materialia, 2017, 138, 114-119.	2.6	8
35	Influences of Tape Thickness on the Properties of Ag-Sheathed Sr _{1-x} K _x Fe ₂ As ₂ Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	8
36	Critical Current Density and Flux Pinning Mechanism in Flat-Rolled Sr-122/Ag Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	8

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37	Effects of heat treatment temperature on the superconducting properties of Ba _{1-x} K _x Fe ₂ As ₂ tapes. Superconductor Science and Technology, 2019, 32, 025007.	1.8	8
38	Low-temperature synthesis to achieve high critical current density and avoid a reaction layer in SmFeAsO _{1-x} F _x superconducting tapes. Superconductor Science and Technology, 2015, 28, 105005.	1.8	7
39	Transport Critical Current Density in Single-Core Composite Ba122 Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	7
40	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. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	6
41	High Critical Current Density in Cu-Sheathed SmFeAsO _{1-x} F _x Superconducting Tapes by Low-Temperature Hot-Pressing. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	6
42	Enhancement of the critical current density in Cu/Ag composite sheathed (Ba, _{Tj}) _{ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (K)} Fe ₂ As ₂ tapes. Superconductor Science and Technology, 2019, 32, 096003.	0.8	6
43	The large anisotropy of the magnetic and transport properties in the Ba ₅ Co ₅ ClO ₁₃ single crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4092-4095.	0.9	5
44	Effect of annealing on superconductivity in Fe _{1+y} (Te _{1-x} S _x) system. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1216-1220.	2.0	5
45	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. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	5
46	Effect of Wire Diameter on the Microstructure and J_c Properties of Ba _{0.6} K _{0.4} Fe ₂ As ₂ Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	5
47	Large critical current density in Cu/Ag composite sheathed (Ba,K)Fe ₂ As ₂ tapes fabricated under ambient pressure. Superconductor Science and Technology, 2019, 32, 065008.	1.8	5
48	Strong flux pinning and anomalous anisotropy of Sr _{0.6} K _{0.4} Fe ₂ As ₂ superconducting tapes. Superconductor Science and Technology, 2020, 33, 125001.	1.8	5
49	Mechanical properties and densification mechanism of powder-in-tube Ba _x K _{1-x} Fe ₂ As ₂ superconductors. Superconductor Science and Technology, 0, , .	1.8	5
50	The Effect of High Magnetic Field on Electromagnetic Response and Microwave Absorption of Cobalt Particles During Annealing Process. Journal of Superconductivity and Novel Magnetism, 2017, 30, 463-468.	0.8	4
51	Visualization of the grain structure in high-performance Ba _{1-x} K _x Fe ₂ As ₂ superconducting tapes. Superconductor Science and Technology, 2021, 34, 045017.	1.8	4
52	Robust superconductivity against water corrosion in Ba _{1-x} K _x Fe ₂ As ₂ bulks. Superconductor Science and Technology, 2021, 34, 125008.	1.8	4
53	Boundary Current Response in Ba _{0.34} K _{0.64} Fe ₂ As ₂ Single Crystal Probed by Non-resonant Microwave Absorption. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3581-3585.	0.8	3
54	Transport characterization and pinning analysis of BaFe _{1.9} Ni _{0.1} As _{2.05} thin films. Superconductor Science and Technology, 2020, 33, 044002.	1.8	3

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55	Superconductivity and disorder effect in $TlNi_2Se_2$ compounds. Journal of Physics Condensed Matter, 2015, 27, 395701.	0.7	2
56	Superconducting Properties of PIT $Ba_{1-x}Co_xAs_2$ Tapes. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	2
57	Thickness dependence of structural and superconducting properties of Co-doped $BaFe_2As_2$ coated conductors. Science, 2021, 24, 102922.	1.9	2
58	Hot pressing to enhance the transport J_c of $Sr_{0.6}K_{0.4}Fe_2As_2$ superconducting tapes. , 0, .		1
59	Transition of vortex pinning behaviour induced by an artificial microstructure design in $Ba(Fe_{0.94}Co_{0.06})_2As_2$ pnictide superconductor. Materials Today Physics, 2022, , 100783.	2.9	0