Chiheng Dong

List of Publications by Year in Descending Order

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	Robust superconductivity against water corrosion in Ba1− K x Fe2As2 bulks. *Superconductor Science and Technology*, **2021**, 34, 125008	3.1	
57	Visualization of the grain structure in high-performance Ba1− K x Fe2As2 superconducting tapes. *Superconductor Science and Technology*, **2021**, 34, 045017	3.1	2
56	High-performance Ba1−KxFe2As2 superconducting tapes with grain texture engineered via a scalable fabrication. *Science China Materials*, **2021**, 64, 2530-2540	7.1	8
55	Enhancing Transport Performance in 7-filamentary Ba0.6K0.4Fe2As2 Wires and Tapes via Hot Isostatic Pressing. *Physica C: Superconductivity and Its Applications*, **2021**, 585, 1353870	1.3	4
54	Enhancement of transport J c in (Ba, K)Fe2As2 HIP processed round wires. *Superconductor Science and Technology*, **2021**, 34, 094001	3.1	3
53	Thickness dependence of structural and superconducting properties of Co-doped BaFeAs coated conductors. *IScience*, **2021**, 24, 102922	6.1	0
52	Thermal conductivity of composite multi-filamentary iron-based superconducting tapes. *Superconductor Science and Technology*, **2020**, 33, 075010	3.1	7
51	Transport characterization and pinning analysis of BaFe1.9Ni0.1As2.05 thin films. *Superconductor Science and Technology*, **2020**, 33, 044002	3.1	2
50	Strong flux pinning and anomalous anisotropy of Sr0.6K0.4Fe2As2 superconducting tapes. *Superconductor Science and Technology*, **2020**, 33, 125001	3.1	3
49	Enhancement of the critical current density in Cu/Ag composite sheathed (Ba, K)Fe2As2 tapes by pre-annealing process. *Materials Research Express*, **2019**, 6, 096003	1.7	5
48	Slow Vortex Creep Induced by Strong Grain Boundary Pinning in Advanced Ba122 Superconducting Tapes. *Chinese Physics Letters*, **2019**, 36, 067401	1.8	4
47	Large critical current density in Cu/Ag composite sheathed (Ba,K)Fe2As2 tapes fabricated under ambient pressure. *Superconductor Science and Technology*, **2019**, 32, 065008	3.1	1
46	Transport Critical Current Density in Single-Core Composite Ba122 Superconducting Tapes. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-4	1.8	3
45	First performance test of a 30 mm iron-based superconductor single pancake coil under a 24 T background field. *Superconductor Science and Technology*, **2019**, 32, 04LT01	3.1	21
44	Effects of core density and impurities on the critical current density of CaKFe4As4 superconducting tapes. *Superconductor Science and Technology*, **2019**, 32, 105014	3.1	7
43	High critical current density in Cu/Ag composited sheathed Ba0.6K0.4Fe2As2 tapes prepared via hot isostatic pressing. *Superconductor Science and Technology*, **2019**, 32, 044007	3.1	9
42	Effects of heat treatment temperature on the superconducting properties of Ba1− K x Fe2As2 tapes. *Superconductor Science and Technology*, **2019**, 32, 025007	3.1	5

41	Chemical stability and superconductivity in Ag-sheathed CaKFe4As4 superconducting tapes. *Superconductor Science and Technology*, **2019**, 32, 015008	3.1	8
40	Effect of Wire Diameter on the Microstructure and $J_{{text{c}}}$ Properties of Ba0.6K0.4Fe2As2 Tapes. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	4
39	Influences of Tape Thickness on the Properties of Ag-Sheathed Sr1-xKxFe2 As2 Superconducting Tapes. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	8
38	Critical Current Density and Flux Pinning Mechanism in Flat-Rolled Sr-122/Ag Tapes. *IEEE Transactions on Applied Superconductivity*, **2018**, 28, 1-5	1.8	4
37	High transport current superconductivity in powder-in-tube Ba0.6K0.4Fe2As2tapes at 27 T. *Superconductor Science and Technology*, **2018**, 31, 015017	3.1	40
36	Enhanced transport critical current density in Sn-added SmFeAsO1Fxtapes prepared by the PIT method. *Superconductor Science and Technology*, **2017**, 30, 065004	3.1	6
35	Transport critical current density of high-strength Sr1KxFe2As2/Ag/Monel composite conductors. *Superconductor Science and Technology*, **2017**, 30, 075010	3.1	11
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	5.6	8
33	Superconducting Properties of 100-m Class Sr0.6K0.4Fe2As2 Tape and Pancake Coils. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-5	1.8	35
32	Boundary Current Response in Ba 0 . 3 4 K 0 . 6 4 Fe2As2 Single Crystal Probed by Non-resonant Microwave Absorption. *Journal of Superconductivity and Novel Magnetism*, **2017**, 30, 3581-3585	1.5	2
31	Transport current density at temperatures up to 25 K of Cu/Ag composite sheathed 122-type tapes and wires. *Superconductor Science and Technology*, **2017**, 30, 115007	3.1	14
30	Superconducting Properties of PIT $text{BaFe}_{2-x}text{Co}_{x}text{As}_{2}$ Tapes. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-4	1.8	2
29	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	1.5	3
28	Effect of metal (Zn/In/Pb) additions on the microstructures and superconducting properties of Sr1 xKxFe2As2 tapes. *Scripta Materialia*, **2016**, 112, 128-131	5.6	18
27	Tailoring the critical current properties in Cu-sheathed Sr1KxFe2As2superconducting tapes. *Superconductor Science and Technology*, **2016**, 29, 095006	3.1	7
26	High Critical Current Density in Cu-Sheathed SmFeAsO1-xFx Superconducting Tapes by Low-Temperature Hot-Pressing. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-4	1.8	5
25	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	1.3	10
24	Microstructure and superconducting properties of nanocarbon-doped internal Mg diffusion-processed MgB2wires fabricated using different boron powders. *Superconductor Science and Technology*, **2016**, 29, 045009	3.1	7

23	Vortex pinning and dynamics in high performance Sr0.6K0.4Fe2As2 superconductor. *Journal of Applied Physics*, **2016**, 119, 143906	2.5	19
22	Investigation of J_{c}-Suppressing Factors in Flat-Rolled $hbox{Sr}_{0.6}hbox{K}_{0.4}hbox{Fe}_{2}hbox{As}_{2}/hbox{Fe}$ Tapes Via Microstructure Analysis. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-5	1.8	4
21	Transport Critical Current Density of $hbox{Sr}_{0.6}hbox{K}_{0.4}hbox{Fe}_{2}hbox{As}_{2}hbox{/}hbox{Ag}$ Superconducting Tapes Processed by Flat Rolling and Uniaxial Pressing. *IEEE Transactions on Applied Superconductivity*, **2015**, 25, 1-4	1.8	6
20	Low-temperature synthesis to achieve high critical current density and avoid a reaction layer in SmFeAsO1□Fxsuperconducting tapes. *Superconductor Science and Technology*, **2015**, 28, 105005	3.1	7
19	Superconductivity and disorder effect in TlNi2Se(2-x)S(x) compounds. *Journal of Physics Condensed Matter*, **2015**, 27, 395701	1.8	1
18	Large transport J(c) in Cu-sheathed Sr(0.6)K(0.4)Fe2As2 superconducting tape conductors. *Scientific Reports*, **2015**, 5, 11506	4.9	17
17	Critical current density and microstructure of iron sheathed multifilamentary Sr1□KxFe2As2/Ag composite conductors. *Journal of Applied Physics*, **2015**, 118, 203909	2.5	19
16	High critical current density in textured Ba-122/Ag tapes fabricated by a scalable rolling process. *Scripta Materialia*, **2015**, 99, 33-36	5.6	30
15	Hot pressing to enhance the transport Jc of Sr0.6K0.4Fe2As2 superconducting tapes. *Scientific Reports*, **2014**, 4, 6944	4.9	57
14	Enhancement of transport critical current density of SmFeAsO1□Fx tapes fabricated by an ex-situ powder-in-tube method with a Sn-presintering process. *Applied Physics Letters*, **2014**, 104, 172601	3.4	14
13	Realization of practical level current densities in Sr0.6K0.4Fe2As2 tape conductors for high-field applications. *Applied Physics Letters*, **2014**, 104, 202601	3.4	103
12	Phase diagram and annealing effect for□Fe1+□e1-xSx single crystals. *Journal of Physics Condensed Matter*, **2013**, 25, 385701	1.8	6
11	Superconductivity and Magnetism in (Tl, K, Rb)FexSe2. *Journal of Physics: Conference Series*, **2013**, 449, 012015	0.3	8
10	Multiband superconductivity of heavy electrons in a TlNi2Se2 single crystal. *Physical Review Letters*, **2013**, 111, 207001	7.4	35
9	Evolution from antiferromagnetic order to spin-glass state in Fe1.05□CuxTe system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2012**, 376, 3645-3648	2.3	5
8	Revised phase diagram for the FeTe1□Sex system with fewer excess Fe atoms. *Physical Review B*, **2011**, 84,	3.3	70
7	Distinct fermi surface topology and nodeless superconducting gap in a (Tl0.58Rb0.42)Fe1.72Se2 superconductor. *Physical Review Letters*, **2011**, 106, 107001	7.4	191
6	Magnetic and Superconducting Properties in Single Crystalline Fe1+□e1-xSex (x. *Journal of the Physical Society of Japan*, **2010**, 79, 074704	1.5	23

5	Effect of annealing on superconductivity in Fe1+y (Te1− S x) system. *Science China: Physics, Mechanics and Astronomy*, **2010**, 53, 1216-1220	3.6	4
4	The large anisotropy of the magnetic and transport properties in the Ba5Co5ClO13 single crystal. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 373, 4092-4095	2.3	4
3	Mechanical properties and densification mechanism of powder-in-tube BaxK1-xFe2As2 superconductors. *Superconductor Science and Technology*,	3.1	1
2	Hot pressing to enhance the transport Jc of Sr0.6K0.4Fe2As2 superconducting tapes		1
1	From − to c-pinning in CaKFe4As4 single crystals obtained by adjusting their defect structures. *Superconductor Science and Technology*,	3.1	1