Chiheng Dong

List of Publications by Year
in descending order

59	1,198	586496 16	445137 33
papers	citations	h-index	g-index

59	59	59	1059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transition of vortex pinning behaviour induced by an artificial microstructure design in Ba(Fe0.94Co0.06)2As2 pnictide superconductor. Materials Today Physics, 2022, , 100783.	2.9	0
2	Visualization of the grain structure in high-performance Ba_{1â^'x}K _x Fe₂As₂ superconducting tapes. Superconductor Science and Technology, 2021, 34, 045017.	1.8	4
3	High-performance Ba1â^'xKxFe2As2 superconducting tapes with grain texture engineered via a scalable fabrication. Science China Materials, 2021, 64, 2530-2540.	3.5	24
4	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.	0.6	11
5	Enhancement of transport J _c in (Ba, K)Fe₂As₂ HIP processed round wires. Superconductor Science and Technology, 2021, 34, 094001.	1.8	17
6	Thickness dependence of structural and superconducting properties of Co-doped BaFe2As2 coated conductors. IScience, 2021, 24, 102922.	1.9	2
7	From Î1- to ÎT _c-pinning in CaKFe₄As₄ single crystals obtained by adjusting their defect structures. Superconductor Science and Technology, 2021, 34, 115020.	1.8	12
8	Robust superconductivity against water corrosion in Ba_{1â^'x}K _x Fe₂As₂ bulks. Superconductor Science and Technology, 2021, 34, 125008.	1.8	4
9	Thermal conductivity of composite multi-filamentary iron-based superconducting tapes. Superconductor Science and Technology, 2020, 33, 075010.	1.8	13
10	Transport characterization and pinning analysis of BaFe1.9Ni0.1As2.05 thin films. Superconductor Science and Technology, 2020, 33, 044002.	1.8	3
11	Strong flux pinning and anomalous anisotropy of Sr0.6K0.4Fe2As2 superconducting tapes. Superconductor Science and Technology, 2020, 33, 125001.	1.8	5
12	Effects of core density and impurities on the critical current density of CaKFe₄As₄ superconducting tapes. Superconductor Science and Technology, 2019, 32, 105014.	1.8	13
13	Enhancement of the critical current density in Cu/Ag composite sheathed (Ba,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (K) 096003.	0.8	6
14	Slow Vortex Creep Induced by Strong Grain Boundary Pinning in Advanced Ba122 Superconducting Tapes*. Chinese Physics Letters, 2019, 36, 067401.	1.3	11
15	Large critical current density in Cu/Ag composite sheathed (Ba,K)Fe2As2 tapes fabricated under ambient pressure. Superconductor Science and Technology, 2019, 32, 065008.	1.8	5
16	Transport Critical Current Density in Single-Core Composite Ba122 Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	7
17	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.	1.8	34
18	High critical current density in Cu/Ag composited sheathed Ba_{0.6}K_{0.4}Fe₂As₂ tapes prepared via hot isostatic pressing. Superconductor Science and Technology, 2019, 32, 044007.	1.8	16

#	Article	IF	Citations
19	Effects of heat treatment temperature on the superconducting properties of Ba_{1â^'x}K _x Fe₂As₂ tapes. Superconductor Science and Technology, 2019, 32, 025007.	1.8	8
20	Chemical stability and superconductivity in Ag-sheathed CaKFe4As4 superconducting tapes. Superconductor Science and Technology, 2019, 32, 015008.	1.8	10
21	Effect of Wire Diameter on the Microstructure and $J_{{ext{c}}}$ Properties of Ba0.6K0.4Fe2As2 Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	5
22	Influences of Tape Thickness on the Properties of Ag-Sheathed Sr_{1-x}K_xFe₂ As₂ Superconducting Tapes. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	8
23	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
24	High transport current superconductivity in powder-in-tube Ba_{0.6}K_{0.4}Fe₂As₂tapes at 27 T. Superconductor Science and Technology, 2018, 31, 015017.	1.8	76
25	Enhanced transport critical current density in Sn-added SmFeAsO_{1â^'x}F_xtapes prepared by the PIT method. Superconductor Science and Technology, 2017, 30, 065004.	1.8	8
26	Transport critical current density of high-strength Sr_{1â^'x}K_xFe₂As₂/Ag/Monel composite conductors. Superconductor Science and Technology, 2017, 30, 075010.	1.8	16
27	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
28	Superconducting Properties of 100-m Class Sr0.6K0.4Fe2As2 Tape and Pancake Coils. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	52
29	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.	0.8	3
30	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.	1.8	22
31	Superconducting Properties of PIT $ext{BaFe}_{2-x}ext{Co}_{x}ext{As}_{2}$ Tapes. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	2
32	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
33	Microstructure and superconducting properties of nanocarbon-doped internal Mg diffusion-processed MgB2wires fabricated using different boron powders. Superconductor Science and Technology, 2016, 29, 045009.	1.8	9
34	Vortex pinning and dynamics in high performance Sr0.6K0.4Fe2As2 superconductor. Journal of Applied Physics, 2016, 119, 143906.	1.1	23
35	Tailoring the critical current properties in Cu-sheathed Sr_{1â^'x}K_xFe₂As₂superconducting tapes. Superconductor Science and Technology, 2016, 29, 095006.	1.8	14
36	High Critical Current Density in Cu-Sheathed SmFeAsO1-xFxSuperconducting Tapes by Low-Temperature Hot-Pressing. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.1	6

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37	Effects of rolling deformation processes on the properties of Ag-sheathed Sr 1 â˜' x K x Fe 2 As 2 superconducting tapes. Physica C: Superconductivity and Its Applications, 2016, 525-526, 94-99.	0.6	10
38	Effect of metal (Zn/In/Pb) additions on the microstructures and superconducting properties of Sr1â˜'xKxFe2As2 tapes. Scripta Materialia, 2016, 112, 128-131.	2.6	23
39	Large transport Jc in Cu-sheathed Sr0.6K0.4Fe2As2 superconducting tape conductors. Scientific Reports, 2015, 5, 11506.	1.6	18
40	Critical current density and microstructure of iron sheathed multifilamentary Sr1â˜'xKxFe2As2/Ag composite conductors. Journal of Applied Physics, 2015, 118, .	1.1	27
41	High critical current density in textured Ba-122/Ag tapes fabricated by a scalable rolling process. Scripta Materialia, 2015, 99, 33-36.	2.6	38
42	Investigation of <inline-formula> <tex-math notation="TeX">J_{c}</tex-math></inline-formula>-Suppressing Factors in Flat-Rolled <inline-formula> <tex-math notation="TeX">$\hbox{Sr}_{0.6}\hbox{K}_{0.4}\hbox{Fe}_{2}\hbox{As}_{2}/\hbox{Fe}$</tex-math></inline-formula> Tapes Via Microstructure Analysis. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	5
43	Transport Critical Current Density of <inline-formula> <tex-math notation="TeX">$\hbox{Sr}_{0.6}\hbox{K}_{0.4}\hbox{Fe}_{2}\hbox{As}_{2}\hbox{/}\hbox{Ag}$</tex-math> </inline-formula> Superconducting Tapes Processed by Flat Rolling and Uniaxial Pressing. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	6
44	Low-temperature synthesis to achieve high critical current density and avoid a reaction layer in SmFeAsO1â˜'xFxsuperconducting tapes. Superconductor Science and Technology, 2015, 28, 105005.	1.8	7
45	Superconductivity and disorder effect in TlNi2Se2â˜'xSxcompounds. Journal of Physics Condensed Matter, 2015, 27, 395701.	0.7	2
46	Enhancement of transport critical current density of SmFeAsO1â˜'xFx tapes fabricated by an ex-situ powder-in-tube method with a Sn-presintering process. Applied Physics Letters, 2014, 104, .	1.5	15
47	Realization of practical level current densities in Sr_{0.6}K_{0.4}Fe₂As₂ tape conductors for high-field applications. Applied Physics Letters, 2014, 104, 202601.	1.5	119
48	Hot pressing to enhance the transport Jc of Sr0.6K0.4Fe2As2 superconducting tapes. Scientific Reports, 2014, 4, 6944.	1.6	64
49	Phase diagram and annealing effect for Fe_{1+Î´}Te_{1â˜'x}S_xsingle crystals. Journal of Physics Condensed Matter, 2013, 25, 385701.	0.7	8
50	Superconductivity and Magnetism in (Tl, K, Rb)FexSe2. Journal of Physics: Conference Series, 2013, 449, 012015.	0.3	11
51	Multiband Superconductivity of Heavy Electrons in aTlNi2Se2Single Crystal. Physical Review Letters, 2013, 111, 207001.	2.9	40
52	Evolution from antiferromagnetic order to spin-glass state in Fe1.05â˜'xCuxTe system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3645-3648.	0.9	8
53	Revised phase diagram for the FeTe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><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>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>system with fewer excess Fe atoms. Physical Review B, 2011, 84, .	1.1	82
54	Distinct Fermi Surface Topology and Nodeless Superconducting Gap in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Tl</mml:mi><mml:mn>0.58</mml:mn></mml:msub><mml:msub><mml:mi>Rb</mml:mi>	2.9	207

Physical Review Letters, 2011, 106, 107001.

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55	Effect of annealing on superconductivity in Fe1+y (Te1âˆ'x S x) system. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1216-1220.	2.0	5
56	Magnetic and Superconducting Properties in Single Crystalline Fe_{1+Î´}Te_{1-x}Se_x (x<0.50) System. Journal of the Physical Society of Japan, 2010, 79, 074704.	0.7	23
57	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.	0.9	5
58	Hot pressing to enhance the transport Jc of Sr0.6K0.4Fe2As2 superconducting tapes. , 0, .		1
59	Mechanical properties and densification mechanism of powder-in-tube BaxK1-xFe2As2 superconductors. Superconductor Science and Technology, 0, , .	1.8	5