Xingyi Zhang

List of Publications by Year
in descending order

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64	447	933447	839539
papers	citations	10	18
		h-index	g-index

64	64	64	331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In situ SR-CT Experimental Study on the Directional Sintering of High-Temperature Superconductor YBCO Materials in the Microwave Fields. Acta Metallurgica Sinica (English Letters), 2022, 35, 67-77.	2.9	1
2	Extraction on the Contact Forces Among the Opaque and Non-photoelastic Particles Under Electromagnetic Force. Acta Mechanica Solida Sinica, 2022, 35, 248-260.	1.9	1
3	Controllable rectification on the irreversible strain limit of 2G HTS coated conductors. Superconductor Science and Technology, 2022, 35, 015003.	3.5	4
4	Relative tilting in-plane of one of gratings in coherent gradient sensor: Error analysis and correction. Optics and Lasers in Engineering, 2022, 151, 106850.	3.8	2
5	Progress of ultra-high-field superconducting magnets in China. Superconductor Science and Technology, 2022, 35, 023001.	3.5	22
6	10.1063/5.0088076.1. , 2022, , .		0
7	Low energy dissipation superconducting flywheel based on structural design. AIP Advances, 2022, 12, 055303.	1.3	0
8	Key Issues for Measuring the Electromechanical Properties of 2G HTS Coated Conductors. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.7	6
9	Direct Measurement on the Residual Stress in $$hbox {YBa}_2hbox {Cu}_3hbox {O}_{7ext {-}updelta }$$ Bulk Superconductors Fabricated by Top-Seed Melt-Textured Method. Acta Mechanica Solida Sinica, 2021, 34, 157-162.	1.9	0
10	Fluorescent paint for determination on the effective thermal conductivity of YBCO coated conductor. Superconductor Science and Technology, 2021, 34, 035029.	3.5	6
11	Efficient Fabrication of Ultralight YBa₂Cu₃O_{7â”'}_x Superconductors with Programmable Shape and Structure. Advanced Functional Materials, 2021, 31, 2100680.	14.9	10
12	Analysis of delamination and heat conductivity of epoxy impregnated pancake coils using a cohesive zone model. Engineering Fracture Mechanics, 2021, 245, 107555.	4.3	25
13	An Experimental Study on the Variation of Atmospheric Magnetic-Field Intensity Related to Dust, Haze, Rain, Snow, and Thunderstorms. Boundary-Layer Meteorology, 2021, 179, 329-346.	2.3	1
14	Optimized multi-exposure optical path with a single laser pulse for the measurement of ultra-high speed. AIP Advances, 2021, 11, 045101.	1.3	2
15	Projectile oblique impact on granular media: penetration depth and dynamic process. Granular Matter, 2021, 23, 1.	2.2	7
16	Direct Determination of the Power Threshold Value of Vortex Avalanche in YBa2Cu3O7-x Thin Films Triggered by a Laser Pulse. Experimental Mechanics, 2021, 61, 1227.	2.0	2
17	Probing of the internal damage morphology in multilayered high-temperature superconducting wires. Nature Communications, 2021, 12, 3110.	12.8	24
18	Damage behavior of Nb3Sn/Cu superconducting strand at room temperature under asymmetric strain cycling. Fusion Engineering and Design, 2021, 172, 112869.	1.9	2

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19	Quantitative observation of attenuation coefficient of electromagnetic wave propagation in haze incorporating charged aerosol. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 257, 107365.	2.3	2
20	A distinct method to eliminate the induced voltage in AC loss determination without phase control. AIP Advances, 2020, 10, .	1.3	3
21	Contact behavior and tensile stiffness in CICC with CWS design. Fusion Engineering and Design, 2020, 160, 111868.	1.9	2
22	A method to access the electro-mechanical properties of superconducting thin film under uniaxial compression. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 1046-1050.	3.4	7
23	Prediction of effective properties for composite superconducting strand and multi-stage cables. Materials Today Communications, 2020, 25, 101674.	1.9	1
24	Numerical Simulation of Superconducting Generator Based on the Tâ€“A Formulation. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-11.	1.7	29
25	A novel method for quantitative magneto-optical measurement under non-uniform illumination. Measurement Science and Technology, 2020, 31, 085002.	2.6	1
26	A standardized measurement method and data analysis for the delamination strengths of YBCO coated conductors. Superconductor Science and Technology, 2020, 33, 035005.	3.5	27
27	Optically Triggered Chaotic Vortex Avalanches in Superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi></mml:mrow></mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn><mml:mtext>â^’</mml:mtext><mml:mn Physical Review Applied, 2020, 13, .	3.8	10
28	The Interface Microstructure and Mechanical Properties of Niobium-316L Stainless Steel Explosively Welded Composite Plate. Journal of Materials Engineering and Performance, 2020, 29, 1113-1123.	2.5	7
29	Rules of non-superconducting phase particles on crack propagation in YBCO coated conductors fabricated by the IBAD-MOCVD. Superconductor Science and Technology, 2020, 33, 105007.	3.5	7
30	The mechanism of stick-slip phenomenon during friction process at low temperature environment. AIP Advances, 2019, 9, .	1.3	6
31	Tunable negative thermal expansion of ultralight ZrW2O8/Graphene hybrid metamaterial. Carbon, 2019, 153, 32-39.	10.3	6
32	Non-uniform stresses in thin high temperature superconducting films under electromagnetic force: General models of curvature-stress relations and experimental results. Journal of Applied Physics, 2019, 126, .	2.5	3
33	A novel design for magneto-optical microscopy and its calibration. Measurement Science and Technology, 2019, 30, 115904.	2.6	8
34	Bending-Peeling Method to Research the Effect of Lateral Stress on Superconductivity of REBCO Tape at Liquid-Nitrogen Temperature. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-8.	1.7	3
35	Study on the effective Youngâ€™s moduli of CICC strand with multi-stage structures. Fusion Engineering and Design, 2019, 143, 66-77.	1.9	5
36	Improvement of the pinning property in YBa2Cu3O7â^’ x films below 35 K by doping with graphene oxide. AIP Advances, 2019, 9, .	1.3	7

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37	The Mechanical Behavior of the Cable-in-Conduit Conductor in the ITER Project. , 2019, , .		0
38	Effect of transverse compression on superconducting properties of high-temperature superconducting wires. Physica C: Superconductivity and Its Applications, 2019, 557, 12-18.	1.2	2
39	Theoretical analysis for the mechanical behavior caused by an electromagnetic cycle in ITER $$hbox {Nb}_{3}hbox {Sn}$$ Nb 3 Sn cable-in-conduit conductors. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 614-622.	3.4	11
40	Effects of Fiber Diameter and Tribotest Conditions on Nonlubricated Frictional Behavior of a Microsized Metal Fiber. Tribology Transactions, 2018, 61, 376-380.	2.0	2
41	Frictional Behavior of a Micro-sized Superconducting Fiber in a Low-Temperature Medium: Experimental and Computational Analysis. Acta Mechanica Solida Sinica, 2018, 31, 405-415.	1.9	5
42	Morphology of supercooled droplets freezing on solid surfaces. AIP Advances, 2018, 8, .	1.3	4
43	Transport AC loss in YBCO coated conductor with transverse crack. Physica C: Superconductivity and Its Applications, 2018, 553, 45-51.	1.2	1
44	Research progress on the mechanical behavior of the cable in conduit conductor for the international thermonuclear experimental reactor project. Chinese Science Bulletin, 2018, 63, 396-414.	0.7	4
45	Real-time stress evolution in a high temperature superconducting thin film caused by a pulse magnetic field. Thin Solid Films, 2017, 639, 47-55.	1.8	5
46	Mechanically robust and electrically conductive graphene-paper/glass-fibers/epoxy composites for stimuli-responsive sensors and Joule heating deicers. Carbon, 2017, 124, 296-307.	10.3	56
47	Buckling Behavior of Nb3Sn Strand Caused by Electromagnetic Force and Thermal Mismatch in ITER Cable-In-Conduit Conductor. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-11.	1.7	5
48	Investigations on the Calorimetric Method for Measurement of the AC Losses in Superconducting Tapes. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1173-1179.	1.8	0
49	A visualization instrument to investigate the mechanical-electro properties of high temperature superconducting tapes under multi-fields. Review of Scientific Instruments, 2016, 87, 075106.	1.3	10
50	Effective Youngâ€™s modulus of the artificial muscle twisted by fishing lines: Analysis and experiment. AIP Advances, 2015, 5, 097113.	1.3	6
51	Controllable rectification of the axial expansion in the thermally driven artificial muscle. Applied Physics Letters, 2015, 107, .	3.3	11
52	Delamination Strength of the Soldered Joint in YBCO Coated Conductors and Its Enhancement. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-9.	1.7	16
53	Transport AC Losses in Soldered Joint of the YBCO-Coated Conductors. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2703-2709.	1.8	2
54	The coherent gradient sensor for thin film curvature measurements in multiple media. Optics and Lasers in Engineering, 2015, 66, 92-97.	3.8	4

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55	A device to investigate the delamination strength in laminates at room and cryogenic temperature. Review of Scientific Instruments, 2014, 85, 125115.	1.3	7
56	A direct tensile device to investigate the critical current properties in superconducting tapes. Review of Scientific Instruments, 2014, 85, 025103.	1.3	14
57	Nonuniform magnetic stresses in high temperature superconducting thin films. Journal of Applied Physics, 2014, 115, 043911.	2.5	2
58	Nonuniform Current Distributions in YBa2Cu3O7â^'x Coated Conductor Caused by Fatigue Damage with Digital Speckle Correlation Analysis. Journal of Superconductivity and Novel Magnetism, 2014, 27, 2283-2288.	1.8	2
59	Lap Joint Characteristics of the YBCO Coated Conductors Under Axial Tension. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	2
60	Experimental investigations on the vortex instability and time effects of YBa2Cu3O7â^'x coated conductors. Physica C: Superconductivity and Its Applications, 2014, 497, 62-66.	1.2	1
61	A general coherent gradient sensor for film curvature measurements: Error analysis without temperature constraint. Optics and Lasers in Engineering, 2013, 51, 808-812.	3.8	7
62	The coherent gradient sensor for film curvature measurements at cryogenic temperature. Optics Express, 2013, 21, 26352.	3.4	6
63	Current transport of the [001]-tilt low-angle grain boundary in high temperature superconductors. Applied Physics Letters, 2013, 103, .	3.3	12
64	Influences of compressive stress on the narrow hysteresis and piezomagnetic coefficient for the <110> oriented Tb _{0.27} Dy _{0.73} Fe _{1.95} alloys at high drive levels. International Journal of Applied Electromagnetics and Mechanics, 2012, 38, 203-209.	0.6	1