

Xingyi Zhang

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Mechanically robust and electrically conductive graphene-paper/glass-fibers/epoxy composites for stimuli-responsive sensors and Joule heating heaters. Carbon, 2017, 124, 296-307.	10.3	56
2	Numerical Simulation of Superconducting Generator Based on the $T \propto A^2$ Formulation. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-11.	1.7	29
3	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
4	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
5	Probing of the internal damage morphology in multilayered high-temperature superconducting wires. Nature Communications, 2021, 12, 3110.	12.8	24
6	Progress of ultra-high-field superconducting magnets in China. Superconductor Science and Technology, 2022, 35, 023001.	3.5	22
7	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
8	A direct tensile device to investigate the critical current properties in superconducting tapes. Review of Scientific Instruments, 2014, 85, 025103.	1.3	14
9	Current transport of the [001]-tilt low-angle grain boundary in high temperature superconductors. Applied Physics Letters, 2013, 103, .	3.3	12
10	Controllable rectification of the axial expansion in the thermally driven artificial muscle. Applied Physics Letters, 2015, 107, .	3.3	11
11	Theoretical analysis for the mechanical behavior caused by an electromagnetic cycle in ITER Nb_3Sn cable-in-conduit conductors. Acta Mechanica Sinica/Lixue Xuebao, 2018, 34, 614-622.	3.4	11
12	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
13	Optically Triggered Chaotic Vortex Avalanches in Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$	3.8	10
14	Efficient Fabrication of Ultralight $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Superconductors with Programmable Shape and Structure. Advanced Functional Materials, 2021, 31, 2100680.	14.9	10
15	A novel design for magneto-optical microscopy and its calibration. Measurement Science and Technology, 2019, 30, 115904.	2.6	8
16	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
17	A device to investigate the delamination strength in laminates at room and cryogenic temperature. Review of Scientific Instruments, 2014, 85, 125115.	1.3	7
18	Improvement of the pinning property in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films below 35 K by doping with graphene oxide. AIP Advances, 2019, 9, .	1.3	7

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19	A method to access the electro-mechanical properties of superconducting thin film under uniaxial compression. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020, 36, 1046-1050.	3.4	7
20	The Interface Microstructure and Mechanical Properties of Niobium-316L Stainless Steel Explosively Welded Composite Plate. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1113-1123.	2.5	7
21	Projectile oblique impact on granular media: penetration depth and dynamic process. <i>Granular Matter</i> , 2021, 23, 1.	2.2	7
22	Rules of non-superconducting phase particles on crack propagation in YBCO coated conductors fabricated by the IBAD-MOCVD. <i>Superconductor Science and Technology</i> , 2020, 33, 105007.	3.5	7
23	The coherent gradient sensor for film curvature measurements at cryogenic temperature. <i>Optics Express</i> , 2013, 21, 26352.	3.4	6
24	Effective Young's modulus of the artificial muscle twisted by fishing lines: Analysis and experiment. <i>AIP Advances</i> , 2015, 5, 097113.	1.3	6
25	The mechanism of stick-slip phenomenon during friction process at low temperature environment. <i>AIP Advances</i> , 2019, 9, .	1.3	6
26	Tunable negative thermal expansion of ultralight ZrW ₂ O ₈ /Graphene hybrid metamaterial. <i>Carbon</i> , 2019, 153, 32-39.	10.3	6
27	Fluorescent paint for determination on the effective thermal conductivity of YBCO coated conductor. <i>Superconductor Science and Technology</i> , 2021, 34, 035029.	3.5	6
28	Key Issues for Measuring the Electromechanical Properties of 2G HTS Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2022, 32, 1-4.	1.7	6
29	Real-time stress evolution in a high temperature superconducting thin film caused by a pulse magnetic field. <i>Thin Solid Films</i> , 2017, 639, 47-55.	1.8	5
30	Buckling Behavior of Nb ₃ Sn Strand Caused by Electromagnetic Force and Thermal Mismatch in ITER Cable-In-Conduit Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-11.	1.7	5
31	Frictional Behavior of a Micro-sized Superconducting Fiber in a Low-Temperature Medium: Experimental and Computational Analysis. <i>Acta Mechanica Solida Sinica</i> , 2018, 31, 405-415.	1.9	5
32	Study on the effective Young's moduli of CICC strand with multi-stage structures. <i>Fusion Engineering and Design</i> , 2019, 143, 66-77.	1.9	5
33	The coherent gradient sensor for thin film curvature measurements in multiple media. <i>Optics and Lasers in Engineering</i> , 2015, 66, 92-97.	3.8	4
34	Morphology of supercooled droplets freezing on solid surfaces. <i>AIP Advances</i> , 2018, 8, .	1.3	4
35	Research progress on the mechanical behavior of the cable in conduit conductor for the international thermonuclear experimental reactor project. <i>Chinese Science Bulletin</i> , 2018, 63, 396-414.	0.7	4
36	Controllable rectification on the irreversible strain limit of 2G HTS coated conductors. <i>Superconductor Science and Technology</i> , 2022, 35, 015003.	3.5	4

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37	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
38	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
39	A distinct method to eliminate the induced voltage in AC loss determination without phase control. AIP Advances, 2020, 10, .	1.3	3
40	Nonuniform magnetic stresses in high temperature superconducting thin films. Journal of Applied Physics, 2014, 115, 043911.	2.5	2
41	Nonuniform Current Distributions in YBa ₂ Cu ₃ O _{7-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
42	Lap Joint Characteristics of the YBCO Coated Conductors Under Axial Tension. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	2
43	Transport AC Losses in Soldered Joint of the YBCO-Coated Conductors. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2703-2709.	1.8	2
44	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
45	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
46	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
47	Contact behavior and tensile stiffness in CICC with CWS design. Fusion Engineering and Design, 2020, 160, 111868.	1.9	2
48	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
49	Direct Determination of the Power Threshold Value of Vortex Avalanche in YBa ₂ Cu ₃ O _{7-x} Thin Films Triggered by a Laser Pulse. Experimental Mechanics, 2021, 61, 1227.	2.0	2
50	Damage behavior of Nb ₃ Sn/Cu superconducting strand at room temperature under asymmetric strain cycling. Fusion Engineering and Design, 2021, 172, 112869.	1.9	2
51	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
52	Influences of compressive stress on the narrow hysteresis and piezomagnetic coefficient for the $\text{Tb}_{0.27}\text{Dy}_{0.73}\text{Fe}_{1.95}$ alloys at high drive levels. International Journal of Applied Electromagnetics and Mechanics, 2012, 38, 203-209.	0.6	1
53	Experimental investigations on the vortex instability and time effects of YBa ₂ Cu ₃ O _{7-x} coated conductors. Physica C: Superconductivity and Its Applications, 2014, 497, 62-66.	1.2	1
54	Transport AC loss in YBCO coated conductor with transverse crack. Physica C: Superconductivity and Its Applications, 2018, 553, 45-51.	1.2	1

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55	Prediction of effective properties for composite superconducting strand and multi-stage cables. <i>Materials Today Communications</i> , 2020, 25, 101674.	1.9	1
56	A novel method for quantitative magneto-optical measurement under non-uniform illumination. <i>Measurement Science and Technology</i> , 2020, 31, 085002.	2.6	1
57	An Experimental Study on the Variation of Atmospheric Magnetic-Field Intensity Related to Dust, Haze, Rain, Snow, and Thunderstorms. <i>Boundary-Layer Meteorology</i> , 2021, 179, 329-346.	2.3	1
58	In situ SR-CT Experimental Study on the Directional Sintering of High-Temperature Superconductor YBCO Materials in the Microwave Fields. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 67-77.	2.9	1
59	Extraction on the Contact Forces Among the Opaque and Non-photoelastic Particles Under Electromagnetic Force. <i>Acta Mechanica Solida Sinica</i> , 2022, 35, 248-260.	1.9	1
60	Investigations on the Calorimetric Method for Measurement of the AC Losses in Superconducting Tapes. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 1173-1179.	1.8	0
61	The Mechanical Behavior of the Cable-in-Conduit Conductor in the ITER Project. , 2019, , .		0
62	Direct Measurement on the Residual Stress in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Bulk Superconductors Fabricated by Top-Seed Melt-Textured Method. <i>Acta Mechanica Solida Sinica</i> , 2021, 34, 157-162.	1.9	0
63	10.1063/5.0088076.1. , 2022, , .		0
64	Low energy dissipation superconducting flywheel based on structural design. <i>AIP Advances</i> , 2022, 12, 055303.	1.3	0