

Huadong Yong

List of Publications by Year in descending order

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all docs

91
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Analysis of a No-insulation Pancake Coil with the Overband During a Quench. <i>Acta Mechanica Solida Sinica</i> , 2022, 35, 357-366.	1.9	7
2	Nonlinear dynamic behaviors and PID control of viscoelastic dielectric elastomer balloons. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1449-1464.	2.5	3
3	Ramping loss and mechanical response in a no-insulation high-temperature superconducting layer-wound coil and intra-layers no-insulation coil. <i>Science China Technological Sciences</i> , 2022, 65, 115-130.	4.0	6
4	Efficient two-scale analysis with thermal residual stresses and strains based on self-consistent clustering analysis. <i>European Journal of Mechanics, A/Solids</i> , 2022, 92, 104477.	3.7	5
5	Three-dimensional simulation of single-lap and bridge joints of coated conductor under tension and bending tests. <i>Composite Structures</i> , 2022, 284, 115146.	5.8	7
6	3D modelling of coupled electromagnetic-mechanical responses in REBCO coils involving tape inhomogeneity. <i>Superconductor Science and Technology</i> , 2022, 35, 054009.	3.5	15
7	Crack detection in bulk superconductor using Genetic Algorithm. <i>Engineering Fracture Mechanics</i> , 2022, 265, 108372.	4.3	7
8	Two-step homogenization for the effective thermal conductivities of twisted multi-filamentary superconducting strand. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2022, 43, 689-708.	3.6	2
9	Calculations of the AC losses in superconducting cables and coils: Neumann boundary conditions of the Tâ€™A formulation. <i>Superconductor Science and Technology</i> , 2022, 35, 065013.	3.5	7
10	Electromagnetic-thermal-mechanical behaviors of a no-insulation double-pancake coil induced by a quench in the self field and the high field. <i>Superconductor Science and Technology</i> , 2021, 34, 025014.	3.5	36
11	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
12	Analysis of delamination and heat conductivity of epoxy impregnated pancake coils using a cohesive zone model. <i>Engineering Fracture Mechanics</i> , 2021, 245, 107555.	4.3	25
13	Modified FFT-based method for the calculations of the thin superconductors with transport current. <i>AIP Advances</i> , 2021, 11, 035103.	1.3	3
14	Manipulation of vortex arrays with thermal gradients by applying dynamic heat sources. <i>Superconductor Science and Technology</i> , 2021, 34, 045005.	3.5	0
15	A concurrent multiscale framework based on self-consistent clustering analysis for cylinder structure under uniaxial loading condition. <i>Composite Structures</i> , 2021, 266, 113827.	5.8	8
16	Three-dimensional peridynamic modeling of crack initiation and propagation in bulk superconductor during field cooling magnetization. <i>Superconductor Science and Technology</i> , 2021, 34, 085020.	3.5	12
17	Dynamic analysis and active control of hard-magnetic soft materials. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 429-449.	4.2	8
18	Numerical analysis of the electromechanical behavior of high-field REBCO coils in all-superconducting magnets. <i>Superconductor Science and Technology</i> , 2021, 34, 115005.	3.5	32

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19	Quench characteristics and mechanical responses during quench propagation in rare earth barium copper oxide pancake coils. Applied Mathematics and Mechanics (English Edition), 2021, 42, 235-250.	3.6	17
20	The heat dissipations and vortices motion in the open superconducting square tube. Physica C: Superconductivity and Its Applications, 2020, 574, 1353659.	1.2	1
21	Numerical Simulation of Superconducting Generator Based on the $T \propto A$ Formulation. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-11.	1.7	29
22	Mechanical response induced by flux jump in a cylindrical superconductor. AIP Advances, 2020, 10, .	1.3	14
23	Optically Triggered Chaotic Vortex Avalanches in Superconducting $YBa_2Cu_3O_{7-x}$ Physical Review Applied, 2020, 13, .	3.8	10
24	Finite element modeling of single-lap joint between GdBa ₂ Cu ₃ O _{7-x} -coated conductors using cohesive elements. Physica C: Superconductivity and Its Applications, 2020, 570, 1353600.	1.2	21
25	Analysis of mechanical behavior in inhomogeneous high-temperature superconductors under pulsed field magnetization. Superconductor Science and Technology, 2020, 33, 124002.	3.5	11
26	The Effects of Ferromagnetic Disks on AC Losses in HTS Pancake Coils with Nonmagnetic and Magnetic Substrates. Journal of Superconductivity and Novel Magnetism, 2019, 32, 499-510.	1.8	21
27	The Effect of Termination Resistances on the Quench and Mechanical Response in High-Temperature Superconducting Cables. Journal of Superconductivity and Novel Magnetism, 2019, 32, 877-884.	1.8	6
28	Stress and strain analysis of a REBCO high field coil based on the distribution of shielding current. Superconductor Science and Technology, 2019, 32, 095005.	3.5	69
29	Numerical estimation of AC losses in Bi ₂ 212/Ag wire and coil. Physica C: Superconductivity and Its Applications, 2019, 564, 22-28.	1.2	3
30	XFEM analysis of the fracture behavior of bulk superconductor in high magnetic field. Journal of Applied Physics, 2019, 125, .	2.5	15
31	Numerical simulation of dynamic fracture behavior in bulk superconductors with an electromagnetic-thermal model. Superconductor Science and Technology, 2019, 32, 074001.	3.5	17
32	Numerical analysis of thermal stability and mechanical response in a no-insulation high-temperature superconducting layer-wound coil. Superconductor Science and Technology, 2019, 32, 044001.	3.5	37
33	Stress analysis in high-temperature superconductors under pulsed field magnetization. Superconductor Science and Technology, 2018, 31, 045008.	3.5	23
34	Mechanical behavior in superconducting composite wires. European Journal of Mechanics, A/Solids, 2018, 70, 191-202.	3.7	9
35	Thermal coupling effect on the vortex dynamics of superconducting thin films: time-dependent Ginzburg-Landau simulations. Superconductor Science and Technology, 2018, 31, 055007.	3.5	12
36	Flux avalanche in thin superconducting film with internal crack. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	8

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37	Fracture analysis of bulk superconductors under electromagnetic force. <i>Engineering Fracture Mechanics</i> , 2018, 199, 257-273.	4.3	21
38	Effect of pinning on the vortex motion in superconducting strip. <i>Physica C: Superconductivity and Its Applications</i> , 2018, 552, 22-26.	1.2	6
39	Thermal stability and mechanical behavior in no-insulation high-temperature superconducting pancake coils. <i>Superconductor Science and Technology</i> , 2018, 31, 085010.	3.5	44
40	Damage Analysis of Superconducting Composite Wire with Bridging Model. <i>Acta Mechanica Sinica</i> , 2018, 31, 19-31.	1.9	2
41	Electro-mechanical behavior in arrays of superconducting tapes. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	10
42	Numerical simulation on the flux avalanche behaviors of microstructured superconducting thin films. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	14
43	Simulation of magnetization and levitation properties of arrays of ring-shaped type-II superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2017, 534, 55-60.	1.2	3
44	Strain distributions in superconducting strands with twisted filaments. <i>Composite Structures</i> , 2017, 174, 158-165.	5.8	15
45	A 3-D Numerical Model to Estimate the Critical Current in MgB ₂ Wire and Cable with Twisted Structure. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 1757-1765.	1.8	1
46	Numerical Simulations of AC Losses in Multifilamentary Superconducting Tapes Under Bending Strain. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-10.	1.7	2
47	Degradation of critical current in Bi2212 composite wire under compression load. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2017, 38, 1773-1784.	3.6	3
48	Analysis of charging and sudden-discharging characteristics of no-insulation REBCO coil using an electromagnetic coupling model. <i>AIP Advances</i> , 2017, 7, .	1.3	18
49	Dendritic Flux Avalanches of the Nonhomogeneous/Granular Superconducting Thin Films: Numerical Simulations. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-7.	1.7	1
50	Flux avalanche in a superconducting film with non-uniform critical current density. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160469.	2.1	8
51	Influences of non-uniformities and anisotropies on the flux avalanche behaviors of type-II superconducting films. <i>Superconductor Science and Technology</i> , 2016, 29, 105001.	3.5	27
52	Numerical analysis of quench in coated conductors with defects. <i>AIP Advances</i> , 2016, 6, .	1.3	6
53	Analysis of Critical Current Density in Bi ₂ Sr ₂ CaCu ₂ O _{8+x} Round Wire with Filament Fracture. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 2299-2309.	1.8	6
54	Modeling effects of gas bubbles on the mechanical behaviors of Ag/Bi-2212 round wires using a double cantilever beam bridge model. <i>Cryogenics</i> , 2016, 77, 65-73.	1.7	5

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55	Mechanical behavior of Nb ₃ Sn strands under transverse electromagnetic loads. Fusion Engineering and Design, 2016, 112, 393-403.	1.9	5
56	Estimation of critical current distribution in Bi ₂ Sr ₂ CaCu ₂ O _x cables and coils using a self-consistent model. Superconductor Science and Technology, 2016, 29, 065020.	3.5	17
57	Contact force and mechanical loss of multistage cable under tension and bending. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 891-904.	3.4	3
58	Mechanical Stress in the Superconducting Film Under External Magnetic Field. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-8.	1.7	9
59	The guidance of kinematic vortices in a mesoscopic superconducting strip with artificial defects. Superconductor Science and Technology, 2016, 29, 065014.	3.5	7
60	Mechanical Behaviours in Bi ₂₂₂₃ /Ag/Ag Alloy Composite Tape with Different Volume Fractions. Journal of Superconductivity and Novel Magnetism, 2016, 29, 329-336.	1.8	5
61	Fracture behavior of filament in Nb ₃ Sn strands with crack-bridging model. Fusion Engineering and Design, 2016, 102, 66-73.	1.9	12
62	Controllable rectification of the axial expansion in the thermally driven artificial muscle. Applied Physics Letters, 2015, 107, .	3.3	11
63	Dendritic flux avalanches and the accompanied thermal strain in type-II superconducting films: effect of magnetic field ramp rate. Superconductor Science and Technology, 2015, 28, 075012.	3.5	32
64	Thermomagnetic instability and correlated deformation in the type-II superconducting films. AIP Conference Proceedings, 2015, .	0.4	3
65	Effect of shear stress on electromagnetic behaviors in superconductor-ferromagnetic bilayer structure. Journal of Applied Physics, 2014, 116, 123911.	2.5	6
66	Effect of soft ferromagnetic substrate on ac loss in 2G HTS power transmission cables consisting of coated conductors. Superconductor Science and Technology, 2014, 27, 025004.	3.5	12
67	Vortex structures and magnetic domain patterns in the superconductor/ferromagnet hybrid bilayer. Superconductor Science and Technology, 2014, 27, 105005.	3.5	5
68	Inclined crack problem in a rectangular slab of superconductor under an electromagnetic force. Journal of Applied Physics, 2013, 114, .	2.5	13
69	A Structural Mechanics Model for the 2-D Mechanical Characteristics of ITER Cable-In-Conduit Conductor Cable Under Transverse Loads. IEEE Transactions on Applied Superconductivity, 2013, 23, 8401209-8401209.	1.7	6
70	Theoretical Modeling for the Effect of Twisting on the Properties of Multifilamentary Nb ₃ Sn Superconducting Strand. IEEE Transactions on Applied Superconductivity, 2013, 23, 6000307-6000307.	1.7	13
71	Analysis of Strain Effect on Critical Current Density in Superconductors With a Modified Semiempirical Kim Model. IEEE Transactions on Applied Superconductivity, 2013, 23, 8002806-8002806.	1.7	5
72	Field-dependent critical state of high-T _c superconducting strip simultaneously exposed to transport current and perpendicular magnetic field. AIP Advances, 2013, 3, .	1.3	8

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73	Shear and transverse stress in a thin superconducting layer in simplified coated conductor architecture with a pre-existing detachment. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	14
74	Magneto-elastic behaviour of thin type-II superconducting strip with field-dependent critical current. <i>Journal of Applied Physics</i> , 2013, 113, 023901.	2.5	18
75	Numerical simulations of the alternating current loss in round high-temperature superconducting wire with a hole defect. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	9
76	Flux pinning induced stress and magnetostriction in a long elliptic cylindrical superconductor. <i>Journal of Applied Physics</i> , 2013, 114, 023902.	2.5	13
77	The critical current density in superconducting cylinder with different cross sections. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	6
78	Flux-pinning-induced interfacial shearing and transverse normal stress in a superconducting coated conductor long strip. <i>Journal of Applied Physics</i> , 2012, 112, 043908.	2.5	7
79	Crack Problem for Thin Superconducting Strip in a Perpendicular Magnetic Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2012, 22, 8400905-8400905.	1.7	21
80	Magnetostriction and magnetization in deformable superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2012, 483, 51-54.	1.2	17
81	Effect of strain on critical magnetic field in type-II superconductors. <i>Journal of Applied Physics</i> , 2012, 112, 053913.	2.5	0
82	Electromechanical instability in anisotropic dielectric elastomers. <i>International Journal of Engineering Science</i> , 2012, 50, 144-150.	5.0	29
83	Dynamics of a thick-walled dielectric elastomer spherical shell. <i>International Journal of Engineering Science</i> , 2011, 49, 792-800.	5.0	66
84	Interface crack between superconducting film and substrate. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	12
85	Effect of strain on depairing current density in deformable superconducting thin films. <i>Journal of Applied Physics</i> , 2011, 110, 033905.	2.5	7
86	Stress distribution in a flat superconducting strip with transport current. <i>Journal of Applied Physics</i> , 2011, 109, 073902.	2.5	23
87	The characteristics and stability of a dielectric elastomer spherical shell with a thick wall. <i>Smart Materials and Structures</i> , 2011, 20, 055016.	3.5	12
88	Analytical solutions of the Ginzburg-Landau equations for deformable superconductors in a weak magnetic field. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	11
89	Effect of prestrain on coherence length and order parameter. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	6
90	Analysis of a mode III crack problem in a functionally graded coating-substrate system with finite thickness. <i>International Journal of Fracture</i> , 2006, 141, 459-467.	2.2	16

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91	A modified model to estimate the screening current-induced magnetic field of the REBCO magnet. Superconductor Science and Technology, 0, , .	3.5	3