

You-He Zhou

List of Publications by Year in descending order

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814
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Effects of defects and surface roughness on the vortex penetration and vortex dynamics in superconductor-insulator-superconductor multilayer structures exposed to RF magnetic fields: numerical simulations within TDGL theory. <i>Superconductor Science and Technology</i> , 2022, 35, 045004.	3.5	7
3	Thermomagnetic instabilities of Nb ₃ Sn wires inside the superconducting solenoid. <i>Physica C: Superconductivity and Its Applications</i> , 2022, 593, 1354002.	1.2	9
4	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. <i>Experimental Mechanics</i> , 2021, 61, 1227.	2.0	2
5	Probing of the internal damage morphology in multilayered high-temperature superconducting wires. <i>Nature Communications</i> , 2021, 12, 3110.	12.8	24
6	Reconstructing the electrical structure of dust storms from locally observed electric field data. <i>Nature Communications</i> , 2020, 11, 5072.	12.8	28
7	Selective triggering of magnetic flux avalanches by an edge indentation. <i>Physical Review B</i> , 2020, 101, .	3.2	23
8	Optically Triggered Chaotic Vortex Avalanches in Superconducting $YBa_2Cu_3O_{7-x}$ Thin Films. <i>Physical Review Applied</i> , 2020, 13, .	3.8	10
9	Effects of 3D electric field on saltation during dust storms: an observational and numerical study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14801-14820.	4.9	8
10	A novel design for magneto-optical microscopy and its calibration. <i>Measurement Science and Technology</i> , 2019, 30, 115904.	2.6	8
11	Mechanical improvement of metal reinforcement rings for a finite ring-shaped superconducting bulk. <i>AIP Advances</i> , 2018, 8, .	1.3	4
12	First-principles and Monte Carlo studies of the Fe ₂ NiZ compounds on exchange interactions and Curie temperatures. <i>Intermetallics</i> , 2018, 93, 283-289.	3.9	16
13	Modeling dynamic behavior of superconducting maglev systems under external disturbances. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	21
14	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
15	Influence of movement direction on levitation performance and energy dissipation in a superconducting maglev system. <i>AIP Advances</i> , 2017, 7, .	1.3	7
16	First-Principles Study the Electronic and Thermodynamic Properties for CoBi ₃ Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 1203-1211.	1.8	1
17	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
18	Controllable rectification of the axial expansion in the thermally driven artificial muscle. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	11

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19	Wavelet solution for large deflection bending problems of thin rectangular plates. Archive of Applied Mechanics, 2015, 85, 355-365.	2.2	21
20	Comparison of magnetoelastic properties between the $\sim 110^\circ$ oriented TbDy _{1-x} Fe _{1.95} polycrystalline alloys with different Tb/Dy composition ratio under magnetomechanical loading. International Journal of Modern Physics B, 2014, 28, 1450187.	2.0	0
21	A device to investigate the delamination strength in laminates at room and cryogenic temperature. Review of Scientific Instruments, 2014, 85, 125115.	1.3	7
22	Exact solutions of multi-term fractional diffusion-wave equations with Robin type boundary conditions. Applied Mathematics and Mechanics (English Edition), 2014, 35, 49-62.	3.6	17
23	Theoretical model and analytical approach for a circular membrane "ring" structure of locally resonant acoustic metamaterial. Applied Physics A: Materials Science and Processing, 2014, 114, 985-990.	2.3	29
24	Magneto-Mechanical Coupling Analysis of a Superconducting Solenoid Magnet in Self-Magnetic Field. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.7	3
25	A Criterion of the Strain-Based Quench Decision for a Low-Temperature Superconducting Solenoid. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-4.	1.7	6
26	Influence of Critical Current Density Distribution on Transport AC Losses for Round Superconducting Wire. Journal of Low Temperature Physics, 2013, 172, 59-69.	1.4	3
27	Angular Dependence of Transport AC Losses in Superconducting Wire with Position-Dependent Critical Current Density in a DC Magnetic Field. Journal of Low Temperature Physics, 2013, 172, 154-161.	1.4	2
28	Electromagnetic absorption characteristics of a functionally graded wave-absorbing infinite thin plate. International Journal of Applied Electromagnetics and Mechanics, 2013, 42, 147-156.	0.6	1
29	MAGNETOELASTIC PROPERTIES DEPENDENCE ON COMPRESSIVE STRESS IN $\sim 110^\circ$ ORIENTED Tb _{0.45} Dy _{0.55} Fe _{1.95} POLYCRYSTALLINE ALLOYS WITH HIGH DRIVE LEVELS. Modern Physics Letters B, 2012, 26, 1250074.	1.9	2
30	A wavelet approach for active-passive vibration control of laminated plates. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 520-531.	3.4	15
31	A theoretical analysis of FGM doubly curved shallow thin shell based on physical neutral surface. International Journal of Applied Electromagnetics and Mechanics, 2011, 35, 67-78.	0.6	3
32	Wavelet-based method for stability analysis of vibration control systems with multiple delays. Computational Mechanics, 2011, 47, 161-170.	4.0	8
33	Temperature dependence of levitation force and its relaxation in a HTS levitation system. Physica C: Superconductivity and Its Applications, 2010, 470, 336-339.	1.2	21
34	Jump properties of the tip magnetic field of a notch in a melt-processes yttrium-barium-copper-oxide bulk. Journal of Applied Physics, 2010, 107, .	2.5	3
35	Transport AC Losses in Superconducting Cylinder with Critical Current Density Distribution Along Radius. Journal of Low Temperature Physics, 2009, 156, 30-37.	1.4	10
36	Influences of cooling height and lateral moving speed on the levitation characteristics of YBaCuO bulks. Physica C: Superconductivity and Its Applications, 2009, 469, 207-210.	1.2	19

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37	Kim model for stress distribution in a hollow cylindrical superconductor. Physica C: Superconductivity and Its Applications, 2009, 469, 822-826.	1.2	16
38	A general 3-D nonlinear magnetostrictive constitutive model for soft ferromagnetic materials. Journal of Magnetism and Magnetic Materials, 2009, 321, 281-290.	2.3	35
39	Experimental observation of a crossing in the forceâ€‘displacement hysteretic curve of a melt processed YBaCuO bulk superconductor. Physica C: Superconductivity and Its Applications, 2008, 468, 369-373.	1.2	8
40	A theoretical analysis of FGM thin plates based on physical neutral surface. Computational Materials Science, 2008, 44, 716-720.	3.0	255
41	Drift of Levitated/Suspended Body in High- T_c Superconducting Levitation Systems Under Vibrationâ€‘Part I: A Criterion Based on Magnetic Force-Gap Relation for Gap Varying With Time. IEEE Transactions on Applied Superconductivity, 2007, 17, 3795-3802.	1.7	60
42	Drift of Levitated/Suspended Body in High- T_c Superconducting Levitation Systems Under Vibrationâ€‘Part II: Drift Velocity for Gap Varying With Time. IEEE Transactions on Applied Superconductivity, 2007, 17, 3803-3808.	1.7	38
43	Statistical behaviors of differentâ€‘sized grains lifting off in stochastic collisions between mixed sand grains and the bed in aeolian saltation. Journal of Geophysical Research, 2007, 112, .	3.3	9
44	A mode III crack in a functionally graded piezoelectric strip bonded to two dissimilar piezoelectric half-planes. Composite Structures, 2007, 79, 404-410.	5.8	15
45	Three-dimensional measurements of forces between magnet and superconductor in a levitation system. Physica C: Superconductivity and Its Applications, 2007, 467, 125-129.	1.2	11
46	NEW WAVELET APPROXIMATIONS OF DEFLECTIONS FOR SOLVING PDES OF BEAMS AND SQUARE THIN PLATES. , 2007, , .		0
47	Simulation of wind-blown sand movement and probability density function of liftoff velocities of sand particles. Journal of Geophysical Research, 2006, 111, .	3.3	30
48	Particle dynamics method simulations of stochastic collisions of sandy grain bed with mixed size in aeolian sand saltation. Journal of Geophysical Research, 2006, 111, .	3.3	28
49	Analysis of a mode III crack problem in a functionally graded coating-substrate system with finite thickness. International Journal of Fracture, 2006, 141, 459-467.	2.2	16
50	Attenuation of electromagnetic wave propagation in sandstorms incorporating charged sand particles. European Physical Journal E, 2005, 17, 181-187.	1.6	66
51	Influence of Flux Creep on Dynamic Behavior of Magnetic Levitation Systems With a High- T_c Superconductor. IEEE Transactions on Applied Superconductivity, 2005, 15, 3856-3863.	1.7	29
52	Buckling and post-buckling analysis for magneto-elasticâ€‘plastic ferromagnetic beam-plates with unmovable simple supports. International Journal of Solids and Structures, 2003, 40, 2875-2887.	2.7	15
53	Laboratory measurement of electrification of wind-blown sands and simulation of its effect on sand saltation movement. Journal of Geophysical Research, 2003, 108, .	3.3	161
54	Experimental measurement of wind-sand flux and sand transport for naturally mixed sands. Physical Review E, 2002, 66, 021305.	2.1	50

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55	A generalized variational model of magneto-thermo-elasticity for nonlinearly magnetized ferroelastic bodies. International Journal of Engineering Science, 2002, 40, 1957-1973.	5.0	16
56	An analysis of variable magnetic damping of a cantilever beam-plate with end coils in transverse magnetic fields. Fusion Engineering and Design, 2001, 55, 457-465.	1.9	17
57	Active control of nonlinear piezoelectric circular shallow spherical shells. International Journal of Solids and Structures, 2000, 37, 1663-1677.	2.7	84
58	Magnetoelastic analysis of non-circular superconducting partial torus. International Journal of Solids and Structures, 2000, 37, 563-576.	2.7	7
59	Discussion: "An Energy Method for Analyzing Magnetoelastic Buckling and Bending of Ferromagnetic Plates in Static Magnetic Fields" (Yang, W., Pan, H., Zheng, D., and Cai, Z., 1999, ASME J. Appl. Mech., 66, pp. 1078-1084)	2.2	1
60	A Theoretical Prediction of Natural Frequency of a Ferromagnetic Beam Plate With Low Susceptibility in an In-Plane Magnetic Field. Journal of Applied Mechanics, Transactions ASME, 1998, 65, 121-126.	2.2	33
61	On the Range of Applicability of von Karman Plate Equations. Journal of Applied Mechanics, Transactions ASME, 1989, 56, 724-726.	2.2	11