You-He Zhou

List of Publications by Year
in descending order

61 papers	1,373 citations	394421 19 h-index	361022 35 g-index
66 all docs	66 docs citations	66 times ranked	814 citing authors

#	Article	IF	Citations
1	A theoretical analysis of FGM thin plates based on physical neutral surface. Computational Materials Science, 2008, 44, 716-720.	3.0	255
2	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
3	Active control of nonlinear piezoelectric circular shallow spherical shells. International Journal of Solids and Structures, 2000, 37, 1663-1677.	2.7	84
4	Attenuation of electromagnetic wave propagation in sandstorms incorporating charged sand particles. European Physical Journal E, 2005, 17, 181-187.	1.6	66
5	Drift of Levitated/Suspended Body in High-T_{c} Superconducting Levitation Systems Under Vibration—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
6	Experimental measurement of wind-sand flux and sand transport for naturally mixed sands. Physical Review E, 2002, 66, 021305.	2.1	50
7	Drift of Levitated/Suspended Body in High-T_{c} Superconducting Levitation Systems Under Vibration—Part II: Drift Velocity for Gap Varying With Time. IEEE Transactions on Applied Superconductivity, 2007, 17, 3803-3808.	1.7	38
8	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
9	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
10	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
11	Influence of Flux Creep on Dynamic Behavior of Magnetic Levitation Systems With a High-<tex>T_c</tex>Superconductor. IEEE Transactions on Applied Superconductivity, 2005, 15, 3856-3863.	1.7	29
12	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
13	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
14	Reconstructing the electrical structure of dust storms from locally observed electric field data. Nature Communications, 2020, 11, 5072.	12.8	28
15	Probing of the internal damage morphology in multilayered high-temperature superconducting wires. Nature Communications, 2021, 12, 3110.	12.8	24
16	Selective triggering of magnetic flux avalanches by an edge indentation. Physical Review B, 2020, 101, .	3.2	23
17	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
18	Wavelet solution for large deflection bending problems of thin rectangular plates. Archive of Applied Mechanics, 2015, 85, 355-365.	2.2	21

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19	Modeling dynamic behavior of superconducting maglev systems under external disturbances. Journal of Applied Physics, 2017, 122, .	2.5	21
20	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
21	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
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	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
24	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
25	Kim model for stress distribution in a hollow cylindrical superconductor. Physica C: Superconductivity and Its Applications, 2009, 469, 822-826.	1.2	16
26	First-principles and Monte Carlo studies of the Fe2NiZ compounds on exchange interactions and Curie temperatures. Intermetallics, 2018, 93, 283-289.	3.9	16
27	Buckling and post-buckling analysis for magneto-elastic–plastic ferromagnetic beam-plates with unmovable simple supports. International Journal of Solids and Structures, 2003, 40, 2875-2887.	2.7	15
28	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
29	A wavelet approach for active-passive vibration control of laminated plates. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 520-531.	3.4	15
30	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
31	Controllable rectification of the axial expansion in the thermally driven artificial muscle. Applied Physics Letters, 2015, 107, .	3.3	11
32	On the Range of Applicability of von Karman Plate Equations. Journal of Applied Mechanics, Transactions ASME, 1989, 56, 724-726.	2.2	11
33	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
34	Optically Triggered Chaotic Vortex Avalanches in Superconducting $YBa_2Cu_3O_7{-}$ Physical Review Applied, 2020, 13, .	3.8	10
35	Statistical behaviors of different–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
36	Thermomagnetic instabilities of Nb3Sn wires inside the superconducting solenoid. Physica C: Superconductivity and Its Applications, 2022, 593, 1354002.	1.2	9

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37	Experimental observation of a crossing in the force–displacement hysteretic curve of a melt processed YBaCuO bulk superconductor. Physica C: Superconductivity and Its Applications, 2008, 468, 369-373.	1.2	8
38	Wavelet-based method for stability analysis of vibration control systems with multiple delays. Computational Mechanics, 2011, 47, 161-170.	4.0	8
39	A novel design for magneto-optical microscopy and its calibration. Measurement Science and Technology, 2019, 30, 115904.	2.6	8
40	Effects of 3D electric field on saltation during dust storms: an observational and numerical study. Atmospheric Chemistry and Physics, 2020, 20, 14801-14820.	4.9	8
41	Magnetoelastic analysis of non-circular superconducting partial torus. International Journal of Solids and Structures, 2000, 37, 563-576.	2.7	7
42	A device to investigate the delamination strength in laminates at room and cryogenic temperature. Review of Scientific Instruments, 2014, 85, 125115.	1.3	7
43	Influence of movement direction on levitation performance and energy dissipation in a superconducting maglev system. AIP Advances, 2017, 7, .	1.3	7
44	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. Superconductor Science and Technology, 2022, 35, 045004.	3.5	7
45	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
46	Effective Young's modulus of the artificial muscle twisted by fishing lines: Analysis and experiment. AIP Advances, 2015, 5, 097113.	1.3	6
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	Mechanical improvement of metal reinforcement rings for a finite ring-shaped superconducting bulk. AIP Advances, 2018, 8, .	1.3	4
49	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
50	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
51	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
52	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
53	MAGNETOELASTIC PROPERTIES DEPENDENCE ON COMPRESSIVE STRESS IN ⟨110⟩ ORIENTED Tb0.45Dy0.55Fe1.95 POLYCRYSTALLINE ALLOYS WITH HIGH DRIVE LEVELS. Modern Physics Letters B, 2012, 26, 1250074.	1.9	2
54	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

#	Article	IF	Citations
55	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
56	Discussion: â€œAn Energy Method for Analyzing Magnetoelastic Buckling and Bending of Ferromagnetic Plates in Static Magnetic Fieldsâ€•(Yang, W., Pan, H., Zheng, D., and Cai, Z., 1999, ASME J. Appl. Mech., 66, pp.) Tj ET Q q0 0 0 rgBT /Over	2.0	1
57	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
58	First-Principles Study the Electronic and Thermodynamic Properties for CoBi3 Superconductor. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1203-1211.	1.8	1
59	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
60	Comparison of magnetoelastic properties between the ã€ˆ110ã€‰ oriented TbxDy1-xFe1.95 polycrystalline alloys with different Tb/Dy composition ratio under magnetomechanical loading. International Journal of Modern Physics B, 2014, 28, 1450187.	2.0	0
61	NEW WAVELET APPROXIMATIONS OF DEFLECTIONS FOR SOLVING PDES OF BEAMS AND SQUARE THIN PLATES. , 2007, , .		0