Zhenhuan Zhou

List of Publications by Year
in descending order

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35	340	759233 12	940533 16
papers	citations	h-index	g-index

35	35	35	184
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Subwavelength thermally controlled acoustic topological interface states in split hollow spheres. Mechanics of Advanced Materials and Structures, 2023, 30, 4110-4123.	2.6	3
2	Theory and experiment for 3D porous graphene foam thermoacoustic transducer. Journal Physics D: Applied Physics, 2022, 55, 035303.	2.8	2
3	Homotopic analysis for post-buckling of cylindrical shells with local thickness defects. Acta Astronautica, 2022, 193, 44-55.	3.2	4
4	Accurate and straightforward symplectic approach for fracture analysis of fractional viscoelastic media. Applied Mathematics and Mechanics (English Edition), 2022, 43, 403-416.	3.6	2
5	An accurate model for free vibration of porous magneto-electro-thermo-elastic functionally graded cylindrical shells subjected to multi-field coupled loadings. Journal of Intelligent Material Systems and Structures, 2021, 32, 2006-2023.	2.5	9
6	Design and characteristic analysis of CNT thin film thermoacoustic transducer spherical array panel for low intensity focused ultrasound. Journal of Thermal Stresses, 2021, 44, 582-596.	2.0	5
7	An Optimal Design of the Two-Staged Square Sectional Combined Energy Absorption Structure with Local Surface Nanocrystallization. Acta Mechanica Solida Sinica, 2021, 34, 820-829.	1.9	4
8	Accurate Buckling Analysis of Magnetically Affected Cantilever Nanoplates Subjected to In-plane Magnetic Fields. Journal of Vibration Engineering and Technologies, 2020, 8, 505-515.	2.2	4
9	Torsional Buckling of Functionally Graded Multilayer Graphene Nanoplatelet-Reinforced Cylindrical Shells. International Journal of Structural Stability and Dynamics, 2020, 20, 2050005.	2.4	20
10	Post-buckling analysis of functionally graded multilayer graphene platelet reinforced composite cylindrical shells under axial compression. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200506.	2.1	5
11	Local surface nanocrystallization for buckling-resistant thin-walled structures. International Journal of Mechanics and Materials in Design, 2020, 16, 693-705.	3.0	2
12	Surface elastic waves whispering gallery modes based subwavelength tunable waveguide and cavity modes of the phononic crystals. Mechanics of Advanced Materials and Structures, 2020, 27, 1053-1064.	2.6	25
13	A novel Hamiltonian-based isogeometric analysis of one-dimensional hexagonal piezoelectric quasicrystal with mode III electrically permeable/impermeable cracks. Theoretical and Applied Fracture Mechanics, 2020, 107, 102552.	4.7	7
14	Accurate nonlinear stability analysis of functionally graded multilayer hybrid composite cylindrical shells subjected to combined loads. Materials and Design, 2019, 182, 108035.	7.0	19
15	Accurate fracture analysis of electrically permeable/impermeable cracks in one-dimensional hexagonal piezoelectric quasicrystal junction. Mathematics and Mechanics of Solids, 2019, 24, 4032-4050.	2.4	4
16	A Size-Dependent Coupled Symplectic and Finite Element Method for Steady-State Forced Vibration of Built-Up Nanobeam Systems. International Journal of Structural Stability and Dynamics, 2019, 19, 1950081.	2.4	9
17	Theory and modeling of multi-layer carbon nanotube thin film thermoacoustic transducer. Applied Thermal Engineering, 2019, 150, 143-149.	6.0	13
18	Thermo-Mechanical Buckling of CFRP Cylindrical Shells with FGPM Coating. International Journal of Structural Stability and Dynamics, 2019, 19, 1950016.	2.4	4

#	Article	IF	Citations
19	A Hamiltonianâ€based analytical method for fracture analysis of linear thermoâ€viscoelastic media. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 542-553.	1.6	0
20	A New Analytical Approach for Free Vibration, Buckling and Forced Vibration of Rectangular Nanoplates Based on Nonlocal Elasticity Theory. International Journal of Structural Stability and Dynamics, 2018, 18, 1850055.	2.4	34
21	Acoustic response characterization of thermoacoustic CNT thin film arrays. Journal of Thermal Stresses, 2018, 41, 1525-1537.	2.0	7
22	Fracture analysis of magnetoelectroelastic bimaterials with imperfect interfaces by symplectic expansion. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1043-1058.	3.6	6
23	An analytical symplectic approach to the vibration analysis of orthotropic graphene sheets. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 912-925.	3.4	15
24	Determination of stress intensity factors for finite cracked bimaterial plates in bending. Archive of Applied Mechanics, 2017, 87, 1151-1163.	2.2	2
25	A new Hamiltonian-based approach for free vibration of a functionally graded orthotropic circular cylindrical shell embedded in an elastic medium. Thin-Walled Structures, 2017, 120, 236-248.	5.3	24
26	A study of stress singularities arising at the multi-material interface in a V-notched bending plate. Engineering Fracture Mechanics, 2017, 180, 179-194.	4.3	10
27	A novel Hamiltonian-based method for two-dimensional transient heat conduction in a rectangle with specific mixed boundary conditions. Journal of Thermal Science and Technology, 2017, 12, JTST0021-JTST0021.	1.1	6
28	Evaluation of mode III interface cracks in magnetoelectroelastic bimaterials by symplectic expansion. Journal of Intelligent Material Systems and Structures, 2015, 26, 1417-1441.	2.5	5
29	Finite-Element Discretized Symplectic Method for Steady-State Heat Conduction with Singularities in Composite Structures. Numerical Heat Transfer, Part B: Fundamentals, 2015, 67, 302-319.	0.9	14
30	Determination of stress intensity factors by the finite element discretized symplectic method. International Journal of Solids and Structures, 2014, 51, 1115-1122.	2.7	19
31	Mixed-mode thermal stress intensity factors from the finite element discretized symplectic method. International Journal of Solids and Structures, 2014, 51, 3798-3806.	2.7	21
32	Fracture analysis of mode III crack problems for the piezoelectric bimorph. Archive of Applied Mechanics, 2014, 84, 1057-1079.	2.2	7
33	Hamiltonian Approach to Analytical Thermal Stress Intensity Factorsâ€”Part 2 Thermal Stress Intensity Factor. Journal of Thermal Stresses, 2010, 33, 279-301.	2.0	12
34	Hamiltonian Approach to Analytical Thermal Stress Intensity Factorsâ€”Part 1: Thermal Intensity Factor. Journal of Thermal Stresses, 2010, 33, 262-278.	2.0	14
35	Localâ€“global buckling of cylindrical shells with wall thinning defects. Mechanics Based Design of Structures and Machines, 0, , 1-20.	4.7	3