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	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
2	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
3	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
4	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
5	Torsional Buckling of Functionally Graded Multilayer Graphene Nanoplatelet-Reinforced Cylindrical Shells. International Journal of Structural Stability and Dynamics, 2020, 20, 2050005.	2.4	20
6	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
7	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
8	An analytical symplectic approach to the vibration analysis of orthotropic graphene sheets. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 912-925.	3.4	15
9	Hamiltonian Approach to Analytical Thermal Stress Intensity Factorsâ€”Part 1: Thermal Intensity Factor. Journal of Thermal Stresses, 2010, 33, 262-278.	2.0	14
10	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
11	Theory and modeling of multi-layer carbon nanotube thin film thermoacoustic transducer. Applied Thermal Engineering, 2019, 150, 143-149.	6.0	13
12	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
13	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
14	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
15	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
16	Fracture analysis of mode III crack problems for the piezoelectric bimorph. Archive of Applied Mechanics, 2014, 84, 1057-1079.	2.2	7
17	Acoustic response characterization of thermoacoustic CNT thin film arrays. Journal of Thermal Stresses, 2018, 41, 1525-1537.	2.0	7
18	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

#	Article	IF	Citations
19	Fracture analysis of magnetoelectroelastic bimaterials with imperfect interfaces by symplectic expansion. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1043-1058.	3.6	6
20	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
21	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
22	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
23	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
24	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
25	Thermo-Mechanical Buckling of CFRP Cylindrical Shells with FGPM Coating. International Journal of Structural Stability and Dynamics, 2019, 19, 1950016.	2.4	4
26	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
27	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
28	Homotopic analysis for post-buckling of cylindrical shells with local thickness defects. Acta Astronautica, 2022, 193, 44-55.	3.2	4
29	Localâ€“global buckling of cylindrical shells with wall thinning defects. Mechanics Based Design of Structures and Machines, 0, , 1-20.	4.7	3
30	Subwavelength thermally controlled acoustic topological interface states in split hollow spheres. Mechanics of Advanced Materials and Structures, 2023, 30, 4110-4123.	2.6	3
31	Determination of stress intensity factors for finite cracked bimaterial plates in bending. Archive of Applied Mechanics, 2017, 87, 1151-1163.	2.2	2
32	Local surface nanocrystallization for buckling-resistant thin-walled structures. International Journal of Mechanics and Materials in Design, 2020, 16, 693-705.	3.0	2
33	Theory and experiment for 3D porous graphene foam thermoacoustic transducer. Journal Physics D: Applied Physics, 2022, 55, 035303.	2.8	2
34	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
35	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