Tian-Zhi Yang

List of Publications by Year
in descending order

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88 papers	3,089 citations	147786 31 h-index	175241 52 g-index
88 all docs	88 docs citations	88 times ranked	1417 citing authors

#	Article	IF	Citations
1	Structured thermal surface for radiative camouflage. Nature Communications, 2018, 9, 273.	12.8	212
2	Invisible Sensors: Simultaneous Sensing and Camouflaging in Multiphysical Fields. Advanced Materials, 2015, 27, 7752-7758.	21.0	202
3	Thermal meta-device in analogue of zero-index photonics. Nature Materials, 2019, 18, 48-54.	27.5	172
4	Post-buckling behavior and nonlinear vibration analysis of a fluid-conveying pipe composed of functionally graded material. Composite Structures, 2018, 185, 393-400.	5.8	143
5	Vibration of laminated composite quadrilateral plates reinforced with graphene nanoplatelets using the element-free IMLS-Ritz method. International Journal of Mechanical Sciences, 2018, 142-143, 610-621.	6.7	113
6	Nonlinear Energy Sink for Whole-Spacecraft Vibration Reduction. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	103
7	Bi-directional functionally graded beams: asymmetric modes and nonlinear free vibration. Composites Part B: Engineering, 2019, 156, 319-331.	12.0	103
8	Nonlinear bending, buckling and vibration of bi-directional functionally graded nanobeams. Composite Structures, 2018, 204, 313-319.	5.8	89
9	Transient thermal camouflage and heat signature control. Applied Physics Letters, 2016, 109, 121905.	3.3	79
10	Impulse-induced vibration suppression of an axially moving beam with parallel nonlinear energy sinks. Nonlinear Dynamics, 2015, 82, 61-71.	5.2	77
11	The evaluation of a nonlinear energy sink absorber based on the transmissibility. Mechanical Systems and Signal Processing, 2019, 125, 99-122.	8.0	72
12	Microfluid-induced nonlinear free vibration of microtubes. International Journal of Engineering Science, 2014, 76, 47-55.	5.0	69
13	Passive and adaptive vibration suppression of pipes conveying fluid with variable velocity. JVC/Journal of Vibration and Control, 2014, 20, 1293-1300.	2.6	64
14	Experimental evidence for the bending of heat flux in a thermal metamaterial. Applied Physics Letters, 2014, 105, .	3.3	59
15	Enhanced targeted energy transfer for adaptive vibration suppression of pipes conveying fluid. Nonlinear Dynamics, 2019, 97, 1937-1944.	5.2	59
16	Longitudinal wave propagation in a piezoelectric nanoplate considering surface effects and nonlocal elasticity theory. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 63, 147-150.	2.7	54
17	On the flutter of matrix cracked laminated composite plates reinforced with graphene nanoplatelets. Thin-Walled Structures, 2021, 158, 107161.	5.3	46
18	On the large-amplitude vibration of rotating pre-twisted graphene nanocomposite blades in a thermal environment. Composite Structures, 2022, 282, 115129.	5.8	46

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19	A Continuously Tunable Solidâ€Like Convective Thermal Metadevice on the Reciprocal Line. Advanced Materials, 2020, 32, e2003823.	21.0	45
20	Heat flux and temperature field cloaks for arbitrarily shaped objects. Journal Physics D: Applied Physics, 2013, 46, 305102.	2.8	43
21	On the dynamics of rotating cracked functionally graded blades reinforced with graphene nanoplatelets. Engineering Structures, 2021, 249, 113286.	5.3	43
22	Dynamic stability of a beam-model viscoelastic pipe for conveying pulsative fluid. Acta Mechanica Solida Sinica, 2007, 20, 350-356.	1.9	42
23	Geometrically nonlinear analysis of laminated composite quadrilateral plates reinforced with graphene nanoplatelets using the element-free IMLS-Ritz method. Composites Part B: Engineering, 2018, 154, 216-224.	12.0	41
24	Approximate solutions of axially moving viscoelastic beams subject to multi-frequency excitations. International Journal of Non-Linear Mechanics, 2009, 44, 230-238.	2.6	39
25	Bi-Directional Functionally Graded Nanotubes: Fluid Conveying Dynamics. International Journal of Applied Mechanics, 2018, 10, 1850041.	2.2	39
26	A dynamic reconfigurable nonlinear energy sink. Journal of Sound and Vibration, 2021, 494, 115629.	3.9	39
27	Forced vibration control of an axially moving beam with an attached nonlinear energy sink. Acta Mechanica Solida Sinica, 2017, 30, 674-682.	1.9	38
28	Quantum effects on thermal vibration of single-walled carbon nanotubes conveying fluid. Acta Mechanica Solida Sinica, 2017, 30, 550-556.	1.9	37
29	Fractional Dynamics of Fluid-Conveying Pipes Made of Polymer-Like Materials. Acta Mechanica Solida Sinica, 2018, 31, 243-258.	1.9	36
30	Aeroelastic suppression of an airfoil with control surface using nonlinear energy sink. Nonlinear Dynamics, 2018, 94, 857-872.	5.2	36
31	Topological Supercavity Resonances in the Finite System. Advanced Science, 2022, 9, e2200257.	11.2	34
32	A thermal ground cloak. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 965-969.	2.1	32
33	Frequency-preserved non-reciprocal acoustic propagation in a granular chain. Applied Physics Letters, 2018, 112, .	3.3	31
34	Ultra-thin Piezoelectric Lattice for Vibration Suppression in Pipe Conveying Fluid. Acta Mechanica Solida Sinica, 2020, 33, 770-780.	1.9	28
35	Magneto-electro-elastic modelling and nonlinear vibration analysis of bi-directional functionally graded beams. Nonlinear Dynamics, 2021, 105, 2195-2227.	5.2	28
36	Stability in parametric resonance of an axially moving beam constituted by fractional order material. Archive of Applied Mechanics, 2012, 82, 1763-1770.	2.2	27

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37	Dynamic analysis of a rotating tapered cantilever Timoshenko beam based on the power series method. Applied Mathematics and Mechanics (English Edition), 2017, 38, 1425-1438.	3.6	27
38	Nonlinear mechanics of a slender beam composited by three-directional functionally graded materials. Composite Structures, 2021, 270, 114088.	5.8	27
39	Pathâ€Dependent Thermal Metadevice beyond Janus Functionalities. Advanced Materials, 2021, 33, e2003084.	21.0	26
40	Numerical and experimental evidence of topological interface state in a periodic acoustic black hole. Journal of Sound and Vibration, 2021, 514, 116432.	3.9	26
41	Three-dimensional thermal analysis of rectangular micro-scale inorganic light-emitting diodes integrated with human skin. International Journal of Thermal Sciences, 2018, 127, 321-328.	4.9	25
42	Model formulation and modal analysis of a rotating elastic uniform Timoshenko beam with setting angle. European Journal of Mechanics, A/Solids, 2018, 72, 209-222.	3.7	25
43	Merging phononic crystals and acoustic black holes. Applied Mathematics and Mechanics (English) Tj ETQq1 1 0.784314 rgBT /Overlo	3.6	24
44	Terahertz Wave Propagation in a Nanotube Conveying Fluid Taking into Account Surface Effect. Materials, 2013, 6, 2393-2399.	2.9	23
45	Cascaded essential nonlinearities for enhanced vibration suppression and energy harvesting. Nonlinear Dynamics, 2021, 103, 1427-1438.	5.2	21
46	One-Dimensional Thermal Analysis of the Flexible Electronic Devices Integrated with Human Skin. Micromachines, 2016, 7, 210.	2.9	20
47	Closed-form approximate solution for natural frequency of axially moving beams. International Journal of Mechanical Sciences, 2013, 74, 154-160.	6.7	19
48	A programmable nonlinear acoustic metamaterial. AIP Advances, 2017, 7, .	1.3	19
49	Three-Phase Microstructure Topology Optimization of Two-Dimensional Phononic Bandgap Materials Using Genetic Algorithms. Acta Mechanica Solida Sinica, 2018, 31, 775-784.	1.9	19
50	Asymptotic analysis of an axially viscoelastic string constituted by a fractional differentiation law. International Journal of Non-Linear Mechanics, 2013, 49, 170-174.	2.6	18
51	Anomalous refraction control of mode-converted elastic wave using compact notch-structured metasurface. Materials Research Express, 2019, 6, 065802.	1.6	18
52	Direct Multiscale Analysis of Stability of an Axially Moving Functionally Graded Beam with Time-Dependent Velocity. Acta Mechanica Solida Sinica, 2020, 33, 150-163.	1.9	18
53	Singularity analysis on vibration reduction of a nonlinear energy sink system. Mechanical Systems and Signal Processing, 2022, 173, 109074.	8.0	18
54	Limit cycle oscillation suppression of 2-DOF airfoil using nonlinear energy sink. Applied Mathematics and Mechanics (English Edition), 2013, 34, 1277-1290.	3.6	17

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55	On the gyroscopic and centrifugal effects in the free vibration of rotating beams. JVC/Journal of Vibration and Control, 2019, 25, 219-227.	2.6	17
56	Free vibration analysis of a spinning piezoelectric beam with geometric nonlinearities. Acta Mechanica Sinica/Lixue Xuebao, 2019, 35, 879-893.	3.4	17
57	Vibration power flow characteristics of the whole-spacecraft with a nonlinear energy sink. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 341-351.	2.9	16
58	Model and nonlinear dynamic analysis of linear guideway subjected to external periodic excitation in five directions. Nonlinear Dynamics, 2021, 105, 3061-3092.	5.2	15
59	Nonlinear dynamic characteristics of ball screw feed system under thermal deformation. Nonlinear Dynamics, 2022, 107, 1965-1987.	5.2	15
60	Interaction Between Thermal Field and Two-Dimensional Functionally Graded Materials: A Structural Mechanical Example. International Journal of Applied Mechanics, 2019, 11, 1950099.	2.2	14
61	Nonlinear Parametric Resonance of a Fractional Damped Axially Moving String. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .	1.6	12
62	Multi-objective optimal design of periodically stiffened panels for vibration control using data-driven optimization method. Mechanical Systems and Signal Processing, 2021, 160, 107872.	8.0	12
63	A high-efficient nonlinear energy sink with a one-way energy converter. Nonlinear Dynamics, 2022, 109, 2247-2261.	5.2	12
64	In-plane dynamics of a fluid-conveying corrugated pipe supported at both ends. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1119-1134.	3.6	11
65	Soft rotor and gas bearing system: Two-way coupled fluid-structure interaction. Journal of Sound and Vibration, 2019, 445, 29-43.	3.9	11
66	Vibration Suppression of an Axially Moving String with Transverse Wind Loadings by a Nonlinear Energy Sink. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	10
67	A Method of Panel Flutter Suppression and Elimination for Aeroelastic Structures in Supersonic Airflow. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.6	10
68	Interaction effects of driving amplitudes and frequencies on transitivity in a granular chain. Journal of Sound and Vibration, 2022, 529, 116966.	3.9	10
69	Study of Whole-spacecraft Vibration Isolators Based on Reliability Method. Chinese Journal of Aeronautics, 2009, 22, 153-159.	5.3	9
70	Multi-Objective Optimization of Layered Elastic Metamaterials With Multiphase Microstructures. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .	1.6	9
71	Free Vibrations and Energy Transfer Analysis of the Vibrating Piezoelectric Gyroscope Based on the Linear and Nonlinear Decoupling Methods. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.6	9
72	Coupled Bendingâ€“Bendingâ€“Axialâ€“Torsional Vibrations of Rotating Blades. Acta Mechanica Solida Sinica, 2019, 32, 326-338.	1.9	8

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73	Natural dynamic characteristics of a circular cylindrical Timoshenko tube made of three-directional functionally graded material. Applied Mathematics and Mechanics (English Edition), 2022, 43, 479-496.	3.6	8
74	Dynamics of vibration isolation system obeying fractional differentiation. Aircraft Engineering and Aerospace Technology, 2012, 84, 103-108.	0.8	7
75	Exact solution of supercritical axially moving beams: symmetric and anti-symmetric configurations. Archive of Applied Mechanics, 2013, 83, 899-906.	2.2	7
76	Transient experimental demonstration of an elliptical thermal camouflage device. Scientific Reports, 2017, 7, 16671.	3.3	7
77	Flutter Mechanism of Timoshenko Beams in Supersonic Flow. Journal of Aerospace Engineering, 2019, 32, .	1.4	7
78	Approximate Chaotic Solutions of the LÃ¼ System. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	4
79	Explicit analytical solution of a pendulum with periodically varying length. European Journal of Physics, 2010, 31, 1089-1096.	0.6	4
80	Breaking reciprocity and preserving-frequency using linear acoustic metamaterials. International Journal of Modern Physics B, 2021, 35, 2150089.	2.0	4
81	Topology optimization of single-groove acoustic metasurfaces using genetic algorithms. Archive of Applied Mechanics, 2022, 92, 961-969.	2.2	4
82	Experimental Evidence of the Thermal Cloak Based on the Path Design of the Heat Flux. Journal of Heat Transfer, 2018, 140, .	2.1	3
83	Ultra-Wide Bandgap in Two-Dimensional Metamaterial Embedded with Acoustic Black Hole Structures. Applied Sciences (Switzerland), 2021, 11, 11788.	2.5	3
84	Double-negative dynamic properties in one-dimensional multi-phase metamaterial based on the symmetrical equivalent layer. Waves in Random and Complex Media, 2013, 23, 258-266.	2.7	2
85	An improved approach for frequency-domain nonlinear identification through feedback of the outputs by using separation strategy. Nonlinear Dynamics, 2021, 105, 457-474.	5.2	2
86	Approximate analytical solutions for Kolmogorovâ€™s equations. Journal of Computational and Applied Mathematics, 2010, 235, 747-755.	2.0	0
87	A Fractional Calculus for Nonlinear Energy Sink Used in Vibration Absorption System. Noise and Vibration Worldwide, 2011, 42, 62-67.	1.0	0
88	On Nonlinear Motions of Two-Degree-of-Freedom Nonlinear Systems with Repeated Linearized Natural Frequencies. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950132.	1.7	0