Dabiao Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64 1,727 22 40 g-index

67 2,017 4 5 Ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
64	A new torsion tester based on an electronic autocollimator for characterizing the torsional behaviors of microfibers. <i>Review of Scientific Instruments</i> , 2021 , 92, 103905	1.7	O
63	On energetic and dissipative gradient effects within higher-order strain gradient plasticity: Size effect, passivation effect, and Bauschinger effect. <i>International Journal of Plasticity</i> , 2021 , 141, 102994	7.6	1
62	Optimal structural patterns of multi-strand wire ropes. <i>International Journal of Solids and Structures</i> , 2021 , 225, 111070	3.1	1
61	Hydroxyapatite-reinforced alginate fibers with bioinspired dually aligned architectures. <i>Carbohydrate Polymers</i> , 2021 , 267, 118167	10.3	4
60	On dissipative gradient effect in higher-order strain gradient plasticity: the modelling of surface passivation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020 , 36, 840-854	2	6
59	Size effect in cyclic torsion of micron-scale polycrystalline copper wires. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139671	5.3	4
58	Nanostrain sensitivity in a wire torsion experiment. <i>Review of Scientific Instruments</i> , 2020 , 91, 013901	1.7	1
57	Effect of lay direction on the mechanical behavior of multi-strand wire ropes. <i>International Journal of Solids and Structures</i> , 2020 , 185-186, 89-103	3.1	5
56	Experimental and analytical study on the superharmonic resonance of size-dependent cantilever microbeams. <i>JVC/Journal of Vibration and Control</i> , 2019 , 25, 2733-2748	2	
55	Effect of nonlocal thermoelasticity on buckling of axially functionally graded nanobeams. <i>Journal of Thermal Stresses</i> , 2019 , 42, 526-539	2.2	10
54	On the Internal Resonances of Size-Dependent Clamped Hinged Microbeams: Continuum Modeling and Numerical Simulations. <i>International Journal of Applied Mechanics</i> , 2019 , 11, 1950022	2.4	8
53	Spider dragline silk as torsional actuator driven by humidity. Science Advances, 2019, 5, eaau9183	14.3	68
52	Geometrically necessary dislocations induced size effect in the torsional stress relaxation behavior of thin metallic wires. <i>Scripta Materialia</i> , 2019 , 173, 129-133	5.6	6
51	Experimental investigation and theoretical modelling on nonlinear dynamics of cantilevered microbeams. <i>European Journal of Mechanics, A/Solids,</i> 2019 , 78, 103834	3.7	16
50	Modelling the effect of surface passivation within higher-order strain gradient plasticity: The case of wire torsion. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 78, 103855	3.7	3
49	Size and stress dependences in the tensile stress relaxation of thin copper wires at room temperature. <i>International Journal of Plasticity</i> , 2019 , 112, 278-296	7.6	12
48	Postbuckling analysis of bi-directional functionally graded imperfect beams based on a novel third-order shear deformation theory. <i>Composite Structures</i> , 2019 , 209, 811-829	5.3	27

(2016-2019)

47	Effect of friction on the mechanical behavior of wire rope with hierarchical helical structures. <i>Mathematics and Mechanics of Solids</i> , 2019 , 24, 2154-2180	2.3	8
46	Experimental investigation on size-dependent higher-mode vibration of cantilever microbeams. <i>Microsystem Technologies</i> , 2019 , 25, 3005-3015	1.7	23
45	The influence of fiber migration on the mechanical properties of yarns with hierarchical helical structures. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 88-105	1.3	3
44	A standard experimental method for determining the material length scale based on modified couple stress theory. <i>International Journal of Mechanical Sciences</i> , 2018 , 141, 198-205	5.5	90
43	Critical thickness phenomenon in single-crystalline wires under torsion. <i>Acta Materialia</i> , 2018 , 150, 213-	282.34	5
42	Dynamic transverse vibration characteristics and vibro-buckling analyses of axially moving and rotating nanobeams based on nonlocal strain gradient theory. <i>Microsystem Technologies</i> , 2018 , 24, 963-	977	16
41	A Brief Note on the NixCao Strain Gradient Plasticity Theory. <i>Metals</i> , 2018 , 8, 708	2.3	1
40	Torsional stress relaxation behavior of microscale copper wire. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 277-281	5.3	10
39	Individual strain gradient effect on torsional strength of electropolished microscale copper wires. <i>Scripta Materialia</i> , 2017 , 130, 124-127	5.6	34
38	Thermal buckling and vibration of functionally graded sinusoidal microbeams incorporating nonlinear temperature distribution using DQM. <i>Journal of Thermal Stresses</i> , 2017 , 40, 665-689	2.2	22
37	Material length scale of strain gradient plasticity: A physical interpretation. <i>International Journal of Plasticity</i> , 2017 , 98, 156-174	7.6	42
36	Peculiar torsion dynamical response of spider dragline silk. <i>Applied Physics Letters</i> , 2017 , 111, 013701	3.4	10
35	Characterizing Torsional Properties of Microwires Using an Automated Torsion Balance. <i>Experimental Mechanics</i> , 2017 , 57, 297-311	2.6	10
34	An improved torsion pendulum based on image processing for single fibers. <i>Measurement Science and Technology</i> , 2016 , 27, 075601	2	8
33	Experimental Investigation of Large Time B andwidth Product Photonic Hilbert Transformer Based on Compact Bragg Grating. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-8	1.8	2
32	Direct measurement of torsional properties of single fibers. <i>Measurement Science and Technology</i> , 2016 , 27, 115017	2	6
31	Prediction of residual stress components and their directions from pile-up morphology: An experimental study. <i>Journal of Materials Research</i> , 2016 , 31, 2392-2397	2.5	2
30	Size-dependent vibration of nickel cantilever microbeams: Experiment and gradient elasticity. <i>AIP Advances</i> , 2016 , 6, 105202	1.5	116

29	Torsional vibration of carbon nanotube with axial velocity and velocity gradient effect. <i>International Journal of Mechanical Sciences</i> , 2016 , 119, 88-96	5.5	39
28	A novel chaotic system with suppressed time-delay signature based on multiple electro-optic nonlinear loops. <i>Nonlinear Dynamics</i> , 2015 , 82, 611-617	5	13
27	A novel method for determining surface residual stress components and their directions in spherical indentation. <i>Journal of Materials Research</i> , 2015 , 30, 1078-1089	2.5	21
26	Digital image frequency spectrum method for analyzing speckle displacement in frequency domain. <i>Optics Letters</i> , 2015 , 40, 942-5	3	1
25	Accounting for the recoverable plasticity and size effect in the cyclic torsion of thin metallic wires using strain gradient plasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 647, 84-90	5.3	25
24	A size-dependent FG micro-plate model incorporating higher-order shear and normal deformation effects based on a modified couple stress theory. <i>International Journal of Mechanical Sciences</i> , 2015 , 104, 8-23	5.5	55
23	Free vibration analysis of four-unknown shear deformable functionally graded cylindrical microshells based on the strain gradient elasticity theory. <i>Composite Structures</i> , 2015 , 119, 578-597	5.3	66
22	Formulation of Toupin Mindlin strain gradient theory in prolate and oblate spheroidal coordinates. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 49, 227-241	3.7	4
21	A size-dependent third-order shear deformable plate model incorporating strain gradient effects for mechanical analysis of functionally graded circular/annular microplates. <i>Composites Part B: Engineering</i> , 2015 , 79, 553-580	10	72
20	An efficient size-dependent plate theory for bending, buckling and free vibration analyses of functionally graded microplates resting on elastic foundation. <i>Applied Mathematical Modelling</i> , 2015 , 39, 3814-3845	4.5	67
19	Size-dependent functionally graded beam model based on an improved third-order shear deformation theory. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 47, 211-230	3.7	59
18	A continuum theory of stress gradient plasticity based on the dislocation pile-up model. <i>Acta Materialia</i> , 2014 , 80, 350-364	8.4	35
17	Enhanced Secure Strategy for OFDM-PON System by Using Hyperchaotic System and Fractional Fourier Transformation. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-9	1.8	17
16	A Modified torsion pendulum for measuring the shear modulus of a single micro-sized filament. <i>Acta Mechanica Solida Sinica</i> , 2014 , 27, 221-233	2	9
15	HallPetch effect and strain gradient effect in the torsion of thin gold wires. <i>Scripta Materialia</i> , 2014 , 87, 41-44	5.6	28
14	Non-classical Timoshenko beam element based on the strain gradient elasticity theory. <i>Finite Elements in Analysis and Design</i> , 2014 , 79, 22-39	2.2	74
13	Towards a further understanding of dislocation pileups in the presence of stress gradients. <i>Philosophical Magazine</i> , 2013 , 93, 2340-2362	1.6	10
12	A novel size-dependent functionally graded curved mircobeam model based on the strain gradient elasticity theory. <i>Composite Structures</i> , 2013 , 106, 374-392	5.3	75

LIST OF PUBLICATIONS

11	Toward a further understanding of size effects in the torsion of thin metal wires: An experimental and theoretical assessment. <i>International Journal of Plasticity</i> , 2013 , 41, 30-52	7.6	133
10	A non-classical Mindlin plate finite element based on a modified couple stress theory. <i>European Journal of Mechanics, A/Solids</i> , 2013 , 42, 63-80	3.7	69
9	Anomalous plasticity in the cyclic torsion of micron scale metallic wires. <i>Physical Review Letters</i> , 2013 , 110, 244301	7:4	81
8	Size effects in the torsion of microscale copper wires: Experiment and analysis. <i>Scripta Materialia</i> , 2012 , 66, 406-409	5.6	137
7	Channel-switchable single-/dual-wavelength single-longitudinal-mode laser and THz beat frequency generation up to 3.6 THz. <i>Applied Physics B: Lasers and Optics</i> , 2012 , 106, 373-377	1.9	9
6	Single- and Multiband OFDM Photonic Wireless Links in the 75¶10 GHz Band Employing Optical Combs. <i>IEEE Photonics Journal</i> , 2012 , 4, 2027-2036	1.8	8
5	Solitary filamentary structures and nanosecond dynamics in atmospheric-pressure plasmas driven by tailored dc pulses. <i>Applied Physics Letters</i> , 2011 , 99, 161503	3.4	16
4	Multi-point abnormal-temperature warning sensor system with different thresholds. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 96, 833-841	1.9	1
3	Tunable wavelength conversion between picosecond pulses using cascaded second-order nonlinearity in LiNbO3 waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 80, 681-685	1.9	19
2	Modeling of Cyclic Bending of Thin Foils Using Higher-Order Strain Gradient Plasticity. <i>Acta Mechanica Solida Sinica</i> ,1	2	0
1	A finite element approach for flexoelectric nonuniform nanobeam energy harvesters. <i>Mechanics of Advanced Materials and Structures</i> ,1-12	1.8	2