

Xi-Qiao Feng

List of Publications by Year in descending order

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444
papers

18,862
citations

22132

59
h-index

19169

118
g-index

453
all docs

453
docs citations

453
times ranked

16757
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of particle size, particle/matrix interface adhesion and particle loading on mechanical properties of particulate-polymer composites. <i>Composites Part B: Engineering</i> , 2008, 39, 933-961.	5.9	2,646
2	The Effect of Nanotube Waviness and Agglomeration on the Elastic Property of Carbon Nanotube-Reinforced Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2004, 126, 250-257.	0.8	649
3	Mechanics of morphological instabilities and surface wrinkling in soft materials: a review. <i>Soft Matter</i> , 2012, 8, 5728.	1.2	620
4	Zeolitic Imidazolate Framework Derived High Symmetric Porous Co_3O_4 Hollow Dodecahedra with Highly Enhanced Lithium Storage Capability. <i>Small</i> , 2014, 10, 1932-1938.	5.2	442
5	Effects of surface elasticity and residual surface tension on the natural frequency of microbeams. <i>Applied Physics Letters</i> , 2007, 90, 231904.	1.5	407
6	Superior Water Repellency of Water Strider Legs with Hierarchical Structures: Experiments and Analysis. <i>Langmuir</i> , 2007, 23, 4892-4896.	1.6	334
7	Integrin activation and internalization on soft ECM as a mechanism of induction of stem cell differentiation by ECM elasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9466-9471.	3.3	302
8	Towards Understanding Why a Superhydrophobic Coating Is Needed by Water Striders. <i>Advanced Materials</i> , 2007, 19, 2257-2261.	11.1	278
9	Surface stress effect in mechanics of nanostructured materials. <i>Acta Mechanica Solida Sinica</i> , 2011, 24, 52-82.	1.0	274
10	Surface effects on buckling of nanowires under uniaxial compression. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	266
11	Adhesion-dependent negative friction coefficient on chemically modified graphite at the nanoscale. <i>Nature Materials</i> , 2012, 11, 1032-1037.	13.3	258
12	Discontinuous crack-bridging model for fracture toughness analysis of nacre. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1400-1419.	2.3	233
13	Ultrasonic technique for extracting nanofibers from nature materials. <i>Applied Physics Letters</i> , 2007, 90, 073112.	1.5	225
14	Timoshenko beam model for buckling and vibration of nanowires with surface effects. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 155411.	1.3	212
15	Surface Wrinkling Patterns on a Core-Shell Soft Sphere. <i>Physical Review Letters</i> , 2011, 106, 234301.	2.9	207
16	Surface wrinkling of mucosa induced by volumetric growth: Theory, simulation and experiment. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 758-774.	2.3	196
17	Printable Skin-Driven Mechanoluminescence Devices via Nanodoped Matrix Modification. <i>Advanced Materials</i> , 2018, 30, e1800291.	11.1	178
18	Mechanical properties and scaling laws of nanoporous gold. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	171

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19	Effect of surface roughness on nanoindentation test of thin films. <i>Engineering Fracture Mechanics</i> , 2008, 75, 4965-4972.	2.0	163
20	Mechanical exfoliation of two-dimensional materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 115, 248-262.	2.3	143
21	Micromechanics prediction of the effective elastic moduli of graphene sheet-reinforced polymer nanocomposites. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010, 18, 045005.	0.8	141
22	Efficient Self-Propelling of Small-Scale Condensed Microdrops by Closely Packed ZnO Nanoneedles. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2084-2088.	2.1	139
23	Guided Self-Propelled Leaping of Droplets on a Micro-Anisotropic Superhydrophobic Surface. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4265-4269.	7.2	135
24	Spontaneous droplets gyrating via asymmetric self-splitting on heterogeneous surfaces. <i>Nature Communications</i> , 2019, 10, 950.	5.8	135
25	Hierarchical chirality transfer in the growth of Towel Gourd tendrils. <i>Scientific Reports</i> , 2013, 3, 3102.	1.6	121
26	Interface thermal conductance and rectification in hybrid graphene/silicene monolayer. <i>Carbon</i> , 2014, 79, 236-244.	5.4	116
27	Mechanical properties of silkworm cocoons. <i>Polymer</i> , 2005, 46, 9192-9201.	1.8	112
28	Spherical indentation method for determining the constitutive parameters of hyperelastic soft materials. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 1-11.	1.4	112
29	Mechanisms of superhydrophobicity on hydrophilic substrates. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 356002.	0.7	106
30	Effects of surface stresses on contact problems at nanoscale. <i>Journal of Applied Physics</i> , 2007, 101, 013510.	1.1	106
31	A Monte Carlo form-finding method for large scale regular and irregular tensegrity structures. <i>International Journal of Solids and Structures</i> , 2010, 47, 1888-1898.	1.3	103
32	Effect of surface stresses on the vibration and buckling of piezoelectric nanowires. <i>Europhysics Letters</i> , 2010, 91, 56007.	0.7	103
33	Possible giant magnetoelectric effect of ferromagnetic rare-earth-iron-alloys-filled ferroelectric polymers. <i>Applied Physics Letters</i> , 2001, 78, 2527-2529.	1.5	100
34	Mechanical property of carbon nanotubes with intramolecular junctions: Molecular dynamics simulations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6661-6666.	0.9	97
35	Surface effects on the elastic modulus of nanoporous materials. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	96
36	Stiffness matrix based form-finding method of tensegrity structures. <i>Engineering Structures</i> , 2014, 58, 36-48.	2.6	96

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37	Buoyant force and sinking conditions of a hydrophobic thin rod floating on water. <i>Physical Review E</i> , 2007, 76, 066103.	0.8	94
38	Surface Stress Effects on the Bending Direction and Twisting Chirality of Lamellar Crystals of Chiral Polymer. <i>Macromolecules</i> , 2010, 43, 5762-5770.	2.2	94
39	Surface effects on the diffraction of plane compressional waves by a nanosized circular hole. <i>Applied Physics Letters</i> , 2006, 89, 231923.	1.5	91
40	Variability in mechanical properties of <i>Bombyx mori</i> silk. <i>Materials Science and Engineering C</i> , 2007, 27, 675-683.	3.8	91
41	Deep neural network method for predicting the mechanical properties of composites. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	88
42	Mechanical properties of carbon nanotube ropes with hierarchical helical structures. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 71, 64-83.	2.3	81
43	A micromechanical model for interpenetrating multiphase composites. <i>Computational Materials Science</i> , 2003, 28, 486-493.	1.4	77
44	Self-Assembly of Single-Walled Carbon Nanotubes into Multiwalled Carbon Nanotubes in Water:Â Molecular Dynamics Simulations. <i>Nano Letters</i> , 2006, 6, 430-434.	4.5	75
45	A multiscale crack-bridging model of cellulose nanopaper. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 103, 22-39.	2.3	75
46	Analysis of spherical indentation of superelastic shape memory alloys. <i>International Journal of Solids and Structures</i> , 2007, 44, 1-17.	1.3	72
47	Tuning friction to a superlubric state via in-plane straining. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24452-24456.	3.3	72
48	On elastocapillarity: A review. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 928-940.	1.5	71
49	Growth and surface folding of esophageal mucosa: A biomechanical model. <i>Journal of Biomechanics</i> , 2011, 44, 182-188.	0.9	70
50	Damage Micromechanics for Constitutive Relations and Failure of Microcracked Quasi-Brittle Materials. <i>International Journal of Damage Mechanics</i> , 2010, 19, 911-948.	2.4	69
51	Defect nucleation in carbon nanotubes under tension and torsion: Stoneâ€Wales transformation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 3419-3429.	3.4	68
52	Surface wrinkling and folding of coreâ€shell soft cylinders. <i>Soft Matter</i> , 2012, 8, 556-562.	1.2	68
53	A Tensegrity Model of Cell Reorientation on Cyclically Stretched Substrates. <i>Biophysical Journal</i> , 2016, 111, 1478-1486.	0.2	65
54	Droplet Precise Selfâ€Splitting on Patterned Adhesive Surfaces for Simultaneous Multidetector. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10535-10539.	7.2	65

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55	Dynamic Migration Modes of Collective Cells. <i>Biophysical Journal</i> , 2018, 115, 1826-1835.	0.2	63
56	Mechanics of Smart-Cut® technology. <i>International Journal of Solids and Structures</i> , 2004, 41, 4299-4320.	1.3	62
57	Surface Effects on the Near-Tip Stresses for Mode-I and Mode-III Cracks. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2008, 75, .	1.1	62
58	Impacts of environments on nanoscale wear behavior of graphene: Edge passivation vs. substrate pinning. <i>Carbon</i> , 2018, 139, 59-66.	5.4	62
59	A continuum theory of surface piezoelectricity for nanodielectrics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 564-573.	2.0	61
60	Structures, properties, and functions of the stings of honey bees and paper wasps: a comparative study. <i>Biology Open</i> , 2015, 4, 921-928.	0.6	61
61	Biochemomechanical poroelastic theory of avascular tumor growth. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 94, 409-432.	2.3	61
62	A micromechanics-based damage model for microcrack-weakened brittle solids. <i>Mechanics of Materials</i> , 1995, 20, 59-76.	1.7	59
63	Experimental study on the mechanical properties of the horn sheaths from cattle. <i>Journal of Experimental Biology</i> , 2010, 213, 479-486.	0.8	59
64	Interface effects on effective elastic moduli of nanocrystalline materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 363, 1-8.	2.6	58
65	An enriched radial point interpolation method (e-RPIM) for analysis of crack tip fields. <i>Engineering Fracture Mechanics</i> , 2011, 78, 175-190.	2.0	58
66	Instabilities of soft films on compliant substrates. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 98, 350-365.	2.3	58
67	Mechanoelectrical flexible hub-beam model of ionic-type solvent-free nanofluids. <i>Mechanical Systems and Signal Processing</i> , 2021, 159, 107833.	4.4	58
68	Shakedown analysis of shape memory alloy structures. <i>International Journal of Plasticity</i> , 2007, 23, 183-206.	4.1	57
69	Effects of tensionâ€“compression asymmetry on the surface wrinkling of filmâ€“substrate systems. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 94, 88-104.	2.3	57
70	Activation and synchronization of the oscillatory morphodynamics in multicellular monolayer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8157-8162.	3.3	57
71	Two-dimensional Hertzian contact problem with surface tension. <i>International Journal of Solids and Structures</i> , 2012, 49, 1588-1594.	1.3	55
72	On the internal architecture of emergent plants. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 119, 224-239.	2.3	55

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73	A piezoelectric constitutive theory with rotation gradient effects. <i>European Journal of Mechanics, A/Solids</i> , 2004, 23, 455-466.	2.1	54
74	Twisting of nanowires induced by anisotropic surface stresses. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	54
75	Buckling and post-buckling of a stiff film resting on an elastic graded substrate. <i>International Journal of Solids and Structures</i> , 2012, 49, 1656-1664.	1.3	54
76	On flaw tolerance of nacre: a theoretical study. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131016.	1.5	54
77	Abnormal conductivity in low-angle twisted bilayer graphene. <i>Science Advances</i> , 2020, 6, .	4.7	54
78	Mechanical properties of silkworm cocoon pelades. <i>Engineering Fracture Mechanics</i> , 2007, 74, 1953-1962.	2.0	53
79	Estimate of effective elastic moduli with microcrack interaction effects. <i>Theoretical and Applied Fracture Mechanics</i> , 2000, 34, 225-233.	2.1	51
80	Dynamic stress intensity factors of a semi-infinite crack in an orthotropic functionally graded material. <i>Mechanics of Materials</i> , 2008, 40, 37-47.	1.7	51
81	Pattern instability of a soft elastic thin film under van der Waals forces. <i>Mechanics of Materials</i> , 2006, 38, 88-99.	1.7	47
82	Surface effects in various bending-based test methods for measuring the elastic property of nanowires. <i>Nanotechnology</i> , 2010, 21, 205702.	1.3	47
83	Surface effects on mode-I crack tip fields: A numerical study. <i>Engineering Fracture Mechanics</i> , 2010, 77, 1048-1057.	2.0	47
84	Perspectives in mechanics of heterogeneous solids. <i>Acta Mechanica Solida Sinica</i> , 2011, 24, 1-26.	1.0	47
85	Effects of nanofiber orientations on the fracture toughness of cellulose nanopaper. <i>Engineering Fracture Mechanics</i> , 2018, 194, 350-361.	2.0	47
86	A simple method for calculating interaction of numerous microcracks and its applications. <i>International Journal of Solids and Structures</i> , 2003, 40, 447-464.	1.3	45
87	Interface effects on the diffraction of plane compressional waves by a nanosized spherical inclusion. <i>Journal of Applied Physics</i> , 2007, 102, 043533.	1.1	45
88	Surface effects on the near-tip stress fields of a mode-II crack. <i>International Journal of Fracture</i> , 2008, 151, 95-106.	1.1	45
89	Theoretical model and design of electroadhesive pad with interdigitated electrodes. <i>Materials and Design</i> , 2016, 89, 485-491.	3.3	45
90	Revisiting the Critical Condition for the Cassie-Wenzel Transition on Micropillar-Structured Surfaces. <i>Langmuir</i> , 2018, 34, 3838-3844.	1.6	45

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91	Effective Elastic and Plastic Properties of Interpenetrating Multiphase Composites. <i>Applied Composite Materials</i> , 2004, 11, 33-55.	1.3	43
92	Surface effects on the mechanical properties of nanoporous materials. <i>Nanotechnology</i> , 2011, 22, 265714.	1.3	43
93	Functional map of biological and biomimetic materials with hierarchical surface structures. <i>RSC Advances</i> , 2015, 5, 66901-66926.	1.7	43
94	Study of biomechanical, anatomical, and physiological properties of scorpion stingers for developing biomimetic materials. <i>Materials Science and Engineering C</i> , 2016, 58, 1112-1121.	3.8	43
95	Multiscale Analysis of Fracture of Carbon Nanotubes Embedded in Composites. <i>International Journal of Fracture</i> , 2005, 134, 369-386.	1.1	42
96	The Role of Adaptive-Deformation of Water Strider Leg in Its Walking on Water. <i>Journal of Adhesion Science and Technology</i> , 2009, 23, 493-501.	1.4	40
97	Self-equilibrium and super-stability of truncated regular polyhedral tensegrity structures: a unified analytical solution. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 3323-3347.	1.0	40
98	Axial compression-induced wrinkles on a core-shell soft cylinder: Theoretical analysis, simulations and experiments. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 73, 212-227.	2.3	40
99	Buckling of a slender rod confined in a circular tube: Theory, simulation, and experiment. <i>International Journal of Mechanical Sciences</i> , 2018, 140, 288-305.	3.6	40
100	Effects of thickness on mechanical properties of conducting polythiophene films. <i>Journal of Materials Science Letters</i> , 2002, 21, 715-717.	0.5	39
101	Effective elastic properties of nanoporous materials with hierarchical structure. <i>Acta Materialia</i> , 2011, 59, 6801-6808.	3.8	39
102	Friction of Droplets Sliding on Microstructured Superhydrophobic Surfaces. <i>Langmuir</i> , 2017, 33, 13480-13489.	1.6	39
103	Directional Motion of Droplets in a Conical Tube or on a Conical Fibre. <i>Chinese Physics Letters</i> , 2007, 24, 3210-3213.	1.3	38
104	Structures, properties, and energy-storage mechanisms of the semi-lunar process cuticles in locusts. <i>Scientific Reports</i> , 2016, 6, 35219.	1.6	38
105	Giant energy absorption capacity of graphene-based carbon honeycombs. <i>Carbon</i> , 2017, 118, 348-357.	5.4	38
106	Role of flexibility in the water repellency of water strider legs: Theory and experiment. <i>Physical Review E</i> , 2012, 85, 021607.	0.8	37
107	Hierarchical capillary adhesion of microcantilevers or hairs. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5564-5570.	1.3	36
108	Superior flexibility of super carbon nanotubes: Molecular dynamics simulations. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	36

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109	An electromechanical liquid crystal model of vesicles. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 2844-2862.	2.3	36
110	Constructing tensegrity structures from one-bar elementary cells. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 45-61.	1.0	36
111	Numerical study on the effects of hierarchical wavy interface morphology on fracture toughness. <i>Computational Materials Science</i> , 2012, 57, 14-22.	1.4	36
112	Curvature induced hierarchical wrinkling patterns in soft bilayers. <i>Soft Matter</i> , 2016, 12, 7977-7982.	1.2	36
113	Microtensile tests of mechanical properties of nanoporous Au thin films. <i>Journal of Materials Science</i> , 2009, 44, 4728-4733.	1.7	35
114	Orientations of Cells on Compliant Substrates under Biaxial Stretches: A Theoretical Study. <i>Biophysical Journal</i> , 2018, 114, 701-710.	0.2	35
115	Piezo1 regulates migration and invasion of breast cancer cells via modulating cell mechanobiological properties. <i>Acta Biochimica Et Biophysica Sinica</i> , 2020, 53, 10-18.	0.9	35
116	Molecular-Dynamic Studies of Carbonâ€“Waterâ€“Carbon Composite Nanotubes. <i>Small</i> , 2006, 2, 1348-1355.	5.2	34
117	Surface buckling of a bending microbeam due to surface elasticity. <i>Europhysics Letters</i> , 2007, 77, 44002.	0.7	34
118	Correlation of the thermal and electrical conductivities of nanoporous gold. <i>Nanotechnology</i> , 2010, 21, 085703.	1.3	34
119	Numerical exploration of plastic deformation mechanisms of copper nanowires with surface defects. <i>Computational Materials Science</i> , 2011, 50, 3425-3430.	1.4	34
120	Static and dynamic mechanical properties of cattle horns. <i>Materials Science and Engineering C</i> , 2011, 31, 179-183.	3.8	34
121	Wrinkling of a bilayer resting on a soft substrate under in-plane compression. <i>Philosophical Magazine</i> , 2012, 92, 1554-1568.	0.7	34
122	Wrinkling micropatterns regulated by a hard skin layer with a periodic stiffness distribution on a soft material. <i>Applied Physics Letters</i> , 2016, 108, 021903.	1.5	34
123	Energetics of mesoscale cell turbulence in two-dimensional monolayers. <i>Communications Physics</i> , 2021, 4, .	2.0	34
124	Transient response of an interface crack between dissimilar piezoelectric layers under mechanical impacts. <i>International Journal of Solids and Structures</i> , 2002, 39, 1743-1756.	1.3	33
125	Elasticity-driven droplet movement on a microbeam with gradient stiffness: A biomimetic self-propelling mechanism. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 133-140.	5.0	33
126	An approximate continuum theory for interaction between dislocation and inhomogeneity of any shape and properties. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	33

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127	Moiré superlattice-level stick-slip instability originated from geometrically corrugated graphene on a strongly interacting substrate. <i>2D Materials</i> , 2017, 4, 025079.	2.0	33
128	Biomechanical modeling of surface wrinkling of soft tissues with growth-dependent mechanical properties. <i>Acta Mechanica Sinica</i> , 2012, 25, 483-492.	1.0	32
129	A non-equilibrium thermodynamic model for tumor extracellular matrix with enzymatic degradation. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 104, 32-56.	2.3	32
130	Breaking the symmetry to suppress the Plateau-Rayleigh instability and optimize hydropower utilization. <i>Nature Communications</i> , 2021, 12, 6899.	5.8	32
131	Two-dimensional model of vesicle adhesion on curved substrates. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2006, 22, 529-535.	1.5	31
132	Mechanical Properties of Chitin-Protein Interfaces: A Molecular Dynamics Study. <i>BioNanoScience</i> , 2013, 3, 312-320.	1.5	31
133	Integrin activation and internalization mediated by extracellular matrix elasticity: A biomechanical model. <i>Journal of Biomechanics</i> , 2014, 47, 1479-1484.	0.9	31
134	Morphomechanics of bacterial biofilms undergoing anisotropic differential growth. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	31
135	On shakedown of three-dimensional elastoplastic strain-hardening structures. <i>International Journal of Plasticity</i> , 1996, 12, 1241-1256.	4.1	30
136	Limit analysis of ductile composites based on homogenization theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 659-675.	1.0	30
137	Buckling and postbuckling of a compressed thin film bonded on a soft elastic layer: a three-dimensional analysis. <i>Archive of Applied Mechanics</i> , 2010, 80, 175-188.	1.2	30
138	Channel morphology effect on water transport through graphene bilayers. <i>Scientific Reports</i> , 2016, 6, 38583.	1.6	30
139	Collective dynamics of cancer cells confined in a confluent monolayer of normal cells. <i>Journal of Biomechanics</i> , 2017, 52, 140-147.	0.9	30
140	Experimental and theoretical studies on the morphogenesis of bacterial biofilms. <i>Soft Matter</i> , 2017, 13, 7389-7397.	1.2	30
141	Contact stiffness of regularly patterned multi-asperity interfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 2018, 111, 277-289.	2.3	30
142	Stone-Wales transformation: Precursor of fracture in carbon nanotubes. <i>International Journal of Mechanical Sciences</i> , 2006, 48, 1464-1470.	3.6	29
143	A phase field method for simulating morphological evolution of vesicles in electric fields. <i>Journal of Computational Physics</i> , 2009, 228, 4162-4181.	1.9	29
144	Effect of lateral dimension on the surface wrinkling of a thin film on compliant substrate induced by differential growth/swelling. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 83, 129-145.	2.3	29

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145	Morphological optimization of scorpion telson. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 135, 103773.	2.3	29
146	Structural topology optimization with an adaptive design domain. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 389, 114382.	3.4	29
147	Numerical analysis of interaction and coalescence of numerous microcracks. <i>Engineering Fracture Mechanics</i> , 2005, 72, 1841-1865.	2.0	28
148	Anisotropic surface effects on the formation of chiral morphologies of nanomaterials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 609-633.	1.0	28
149	A unified solution for self-equilibrium and super-stability of rhombic truncated regular polyhedral tensegrities. <i>International Journal of Solids and Structures</i> , 2013, 50, 234-245.	1.3	28
150	A truncated conical beam model for analysis of the vibration of rat whiskers. <i>Journal of Biomechanics</i> , 2013, 46, 1987-1995.	0.9	28
151	Disentangling longitudinal and shear elastic waves by neo-Hookean soft devices. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	28
152	Mechanical Roles of F-Actin in the Differentiation of Stem Cells: A Review. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3788-3801.	2.6	28
153	Wrinkling pattern evolution on curved surfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 135, 103798.	2.3	28
154	Domino-like stacking order switching in twisted monolayer-multilayer graphene. <i>Nature Materials</i> , 2022, 21, 621-626.	13.3	28
155	Coarse-grained mechanochemical model for simulating the dynamic behavior of microtubules. <i>Physical Review E</i> , 2011, 84, 031933.	0.8	27
156	Spontaneous formation of double helical structure due to interfacial adhesion. <i>Applied Physics Letters</i> , 2012, 100, 263104.	1.5	27
157	A Numerical Method for Simulating Nonlinear Mechanical Responses of Tensegrity Structures Under Large Deformations. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	1.1	27
158	Surface Wrinkling Patterns of Film-Substrate Systems With a Structured Interface. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	1.1	27
159	Towards a quantitative understanding of period-doubling wrinkling patterns occurring in film/substrate bilayer systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20140695.	1.0	27
160	Stability of Cassie-Baxter wetting states on microstructured surfaces. <i>Physical Review E</i> , 2016, 94, 042801.	0.8	27
161	Effects of surface tension on the adhesive contact between a hard sphere and a soft substrate. <i>International Journal of Solids and Structures</i> , 2016, 84, 133-138.	1.3	27
162	Damage and shakedown analysis of structures with strain-hardening. <i>International Journal of Plasticity</i> , 1995, 11, 237-249.	4.1	26

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163	Transient response of an insulating crack between dissimilar piezoelectric layers under mechanical and electrical impacts. <i>Archive of Applied Mechanics</i> , 2002, 72, 615-629.	1.2	26
164	Theoretical analysis of resonance frequency change induced by adsorption. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 125306.	1.3	26
165	Theoretical analysis of adsorption-induced microcantilever bending. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	26
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