

List of Publications by Year in descending order

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C O Pu

#	Article	IF	CITATIONS
1	Surface tension-driven instability of a soft elastic rod revisited. International Journal of Solids and Structures, 2022, 241, 111491.	2.7	6
2	A simplified metaelastic model for coated sphere-filled random composites. Mathematics and Mechanics of Solids, 2021, 26, 939-953.	2.4	4
3	Effective mass density of rigid sphere-reinforced elastic composites. Meccanica, 2021, 56, 1209-1221.	2.0	5
4	A study on the Gurtin–Murdoch model for spherical solids with surface tension. Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1.	1.4	6
5	Vibration isolation of few-layer graphene sheets. International Journal of Solids and Structures, 2020, 185-186, 78-88.	2.7	12
6	Adhesion of an elastic sphere on a tensioned membrane. Mathematics and Mechanics of Solids, 2020, 25, 1534-1543.	2.4	3
7	An extended JKR model for adhesion of a rigid sphere on a supported compressible elastic thin layer. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	1
8	An analytical solution to the adhesive cylindrical indentation of a compressible elastic thin layer. Journal of Adhesion, 2020, , 1-19.	3.0	1
9	Metamaterial Vibration of Tensioned Circular Few-Layer Graphene Sheets. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	2.2	4
10	Metamaterial-like vibration of doublewalled carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 107, 196-202.	2.7	5
11	Spherical indentation of an elastic layer on a rigid substrate revisited. Thin Solid Films, 2019, 669, 500-508.	1.8	9
12	A simple criterion for finite time stability with application to impacted buckling of elastic columns. Applied Mathematics and Mechanics (English Edition), 2018, 39, 305-316.	3.6	3
13	Axisymmetric indentation of an elastic thin plate by a rigid sphere revisited. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 1436-1446.	1.6	5
14	Post-buckling of a pressured biopolymer spherical shell with the mode interaction. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170834.	2.1	1
15	An alternative method for indentation of an elastic thin beam by a rigid indenter. International Journal of Mechanical Sciences, 2018, 149, 508-513.	6.7	14
16	Free vibration of biopolymer spherical shells of high structural heterogeneity. AIP Advances, 2018, 8, 075006.	1.3	2
17	An elliptical liquid inclusion in an infinite elastic plane. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170813.	2.1	18
18	Asymmetric indentation of an elastic beam by a rigid cylinder. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	1.4	5

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19	Temperature Effects on Fracture Toughness Parameters for Pipeline Steels. International Journal of Steel Structures, 2018, 18, 1754-1760.	1.3	4
20	Negative effective mass of a filled carbon nanotube. International Journal of Mechanical Sciences, 2017, 134, 174-181.	6.7	8
21	Surface tension-induced interfacial stresses around a nanoscale inclusion of arbitrary shape. Zeitschrift Fur Angewandte Mathematik Und Physik, 2017, 68, 1.	1.4	9
22	Modified von Kármán equations for elastic nanoplates with surface tension and surface elasticity. International Journal of Non-Linear Mechanics, 2017, 88, 67-73.	2.6	20
23	Determination of two key parameters of a cohesive zone model for pipeline steels based on uniaxial stress-strain curve. Engineering Fracture Mechanics, 2016, 163, 55-65.	4.3	19
24	Analysis of energy absorptions in drop-weight tear tests of pipeline steel. Engineering Fracture Mechanics, 2016, 160, 138-146.	4.3	8
25	A refined cohesive zone model that accounts for inertia of cohesive zone of a moving crack. Mechanics Research Communications, 2016, 76, 78-85.	1.8	3
26	Geometrical shape of in-plane inclusion characterized by polynomial internal stress field under uniform eigenstrains. Applied Mathematics and Mechanics (English Edition), 2016, 37, 1113-1130.	3.6	1
27	Imperfection sensitivity of pressured buckling of biopolymer spherical shells. Physical Review E, 2016, 93, 062403.	2.1	5
28	A strain-consistent elastic plate model with surface elasticity. Continuum Mechanics and Thermodynamics, 2016, 28, 263-273.	2.2	38
29	Uniform stress fields inside multiple inclusions in an elastic infinite plane under plane deformation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140933.	2.1	35
30	Strain rate effects on dynamic fracture of pipeline steels: Finite element simulation. International Journal of Pressure Vessels and Piping, 2015, 126-127, 1-7.	2.6	17
31	Non-elliptical inclusions that achieve uniform internal strain fields in an elastic half-plane. Acta Mechanica, 2015, 226, 3845-3863.	2.1	16
32	A Strain Rate-Dependent Finite Element Model of Drop-Weight Tear Tests for Pipeline Steels. , 2014, , .		2
33	A modified cohesive zone model for a highâ€speed expanding crack. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 1013-1024.	3.4	4
34	Localized Vibration of a Microtubule Surrounded by Randomly Distributed Cross Linkers. Journal of Biomechanical Engineering, 2014, 136, .	1.3	4
35	A speed-dependent cohesive zone model for moving cracks with non-uniform traction force. Engineering Fracture Mechanics, 2014, 117, 12-27.	4.3	8
36	Surface tension-induced stress concentration around a nanosized hole of arbitrary shape in an elastic half-plane. Meccanica, 2014, 49, 2847-2859.	2.0	27

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37	Stress field around an arbitrarily shaped nanosized hole with surface tension. Acta Mechanica, 2014, 225, 3453-3462.	2.1	27
38	Localized buckling of a microtubule surrounded by randomly distributed cross linkers. Physical Review E, 2013, 88, 012701.	2.1	14
39	Numerical investigation of speed dependent dynamic fracture toughness of line pipe steels. Engineering Fracture Mechanics, 2013, 99, 214-222.	4.3	30
40	Compressed microtubules: Splitting or buckling. Journal of Applied Physics, 2012, 111, 064701.	2.5	3
41	Large-Deflection Effect on Thermoelastic Dissipation of Microbeam Resonators. Journal of Thermal Stresses, 2012, 35, 1076-1094.	2.0	16
42	Best upper bounds on strain energy and surface displacements of an elastic body under boundary tractions. Acta Mechanica, 2012, 223, 2197-2205.	2.1	0
43	High-order subharmonic parametric resonance of multiple nonlinearly coupled micromechanical nonlinear oscillators. Acta Mechanica, 2010, 212, 69-81.	2.1	9
44	Simple geometrical explanation of Gurtin-Murdoch model of surface elasticity with clarification of its related versions. Science China: Physics, Mechanics and Astronomy, 2010, 53, 536-544.	5.1	158
45	Thermoelastic dissipation of hollow micromechanical resonators. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2341-2352.	2.7	22
46	Buckling of empty spherical viruses under external pressure. Journal of Applied Physics, 2009, 105, 124701.	2.5	25
47	Thermoelastic dissipation of nanowire resonators with surface stress. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1243-1248.	2.7	21
48	A hybrid complex-variable solution for piezoelectric/isotropic elastic interfacial cracks. International Journal of Fracture, 2008, 152, 169-178.	2.2	15
49	Relevance of Timoshenko-beam model to microtubules of low shear modulus. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 213-219.	2.7	66
50	Instability of a Large Coupled Microbeam Array Initialized at Its Two Ends. Journal of Adhesion, 2007, 83, 195-221.	3.0	7
51	High-order subharmonic parametric resonance of nonlinearly coupled micromechanical oscillators. European Physical Journal B, 2007, 58, 411-421.	1.5	14
52	Elastic fields in two imperfectly bonded half-planes with a thermal inclusion of arbitrary shape. Zeitschrift Fur Angewandte Mathematik Und Physik, 2007, 58, 488-509.	1.4	23
53	Vibration of a double-walled carbon nanotube aroused by nonlinear intertube van der Waals forces. Journal of Applied Physics, 2006, 99, 064303.	2.5	81
54	Length-dependence of flexural rigidity as a result of anisotropic elastic properties of microtubules. Biochemical and Biophysical Research Communications, 2006, 349, 1145-1150.	2.1	53

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55	Surface energy-driven adhesion of two opposing microcantilevers. Acta Mechanica, 2006, 184, 33-45.	2.1	6
56	Effect of a thin surface coating layer on thermal stresses within an elastic half-plane. Acta Mechanica, 2006, 185, 227-243.	2.1	8
57	Terahertz Vibration of Short Carbon Nanotubes Modeled as Timoshenko Beams. Journal of Applied Mechanics, Transactions ASME, 2005, 72, 10-17.	2.2	92
58	Applicability and Limitations of Simplified Elastic Shell Equations for Carbon Nanotubes. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 622-631.	2.2	105
59	Surface Instability of a Semi-Infinite Elastic Body Under Surface van der Waals Forces. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 138-140.	2.2	18
60	Eshelby inclusion of arbitrary shape in an anisotropic plane or half-plane. Acta Mechanica, 2003, 160, 219-234.	2.1	55
61	Sound wave propagation in multiwall carbon nanotubes. Journal of Applied Physics, 2003, 93, 4801-4806.	2.5	124
62	Effect of microcracking on electric-field-induced stress intensity factors in dielectric ceramics. Philosophical Magazine, 2003, 83, 277-294.	1.6	2
63	Interfacial Thermal Stresses in Bimaterial Elastic Beams: Modified Beam Models Revisited. Journal of Electronic Packaging, Transactions of the ASME, 2002, 124, 141-146.	1.8	56
64	Surface Instability of an Elastic Thin Film Interacting With a Suspended Elastic Plate. Journal of Applied Mechanics, Transactions ASME, 2002, 69, 97-103.	2.2	19
65	Noncoaxial resonance of an isolated multiwall carbon nanotube. Physical Review B, 2002, 66, .	3.2	136
66	Title is missing!. Zeitschrift Fur Angewandte Mathematik Und Physik, 2002, 53, 621-633.	1.4	1
67	On complex-variable formulation for finite plane elastostatics of harmonic materials. Acta Mechanica, 2002, 156, 219-234.	2.1	52
68	A two–dimensional Eshelby problem for two bonded piezoelectric half–planes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 865-883.	2.1	26
69	Discussion: "Common Errors on Mapping of Nonelliptic Curves in Anisotropic Elasticity―(Ting, T. C. T.,) Tj 687-687.	ETQq1 1 0. 2.2	784314 rgBT 1
70	Effects of a compliant interphase layer on internal thermal stresses within an elliptic inhomogeneity in an elastic medium. Zeitschrift Fur Angewandte Mathematik Und Physik, 2001, 52, 317-341.	1.4	2
71	Stress Analysis of an Elliptic Inclusion with Imperfect Interface in Plane Elasticity. Journal of Elasticity, 2001, 62, 25-46.	1.9	32
72	Elastic fields in two jointed half-planes with an inclusion of arbitrary shape. Zeitschrift Fur Angewandte Mathematik Und Physik, 2001, 52, 18-32.	1.4	26

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73	Degraded axial buckling strain of multiwalled carbon nanotubes due to interlayer slips. Journal of Applied Physics, 2001, 89, 3426-3433.	2.5	129
74	Surface wrinkling of two mutually attracting elastic thin films due to van der Waals forces. Journal of Applied Physics, 2001, 90, 6098-6104.	2.5	41
75	Stress Analysis of Thermal Inclusions With Interior Voids and Cracks. Journal of Electronic Packaging, Transactions of the ASME, 2000, 122, 192-199.	1.8	13
76	Title is missing!. Journal of Materials Science, 2000, 35, 5575-5579.	3.7	33
77	Eshelby's problem for two–dimensional piezoelectric inclusions of arbitrary shape. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 1051-1068.	2.1	69
78	Effect of van der Waals forces on axial buckling of a double-walled carbon nanotube. Journal of Applied Physics, 2000, 87, 7227-7231.	2.5	253
79	A Circular Inclusion with Inhomogeneously Imperfect Interface in Plane Elasticity. Journal of Elasticity, 1999, 55, 19-41.	1.9	52
80	A New Method for an Inhomogeneity with Stepwise Graded Interphase under Thermomechanical Loadings. Journal of Elasticity, 1999, 56, 107-127.	1.9	48
81	Analytic Solution for Eshelby's Problem of an Inclusion of Arbitrary Shape in a Plane or Half-Plane. Journal of Applied Mechanics, Transactions ASME, 1999, 66, 315-523.	2.2	160
82	Uniformity of Stresses Within a Three-Phase Elliptic Inclusion in Anti-Plane Shear. Journal of Elasticity, 1998, 52, 121-128.	1.9	57
83	Integral equation methods in plane-strain elasticity with boundary reinforcement. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1998, 454, 2223-2242.	2.1	30
84	Effect of interphase layers on thermal stresses within an elliptical inclusion. Journal of Applied Physics, 1998, 84, 4872-4879.	2.5	21
85	A Circular Inclusion With Circumferentially Inhomogeneous Sliding Interface in Plane Elastostatics. Journal of Applied Mechanics, Transactions ASME, 1998, 65, 30-38.	2.2	37
86	A circular inclusion with circumferentially inhomogeneous interface in antiplane shear. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1997, 453, 2551-2572.	2.1	105
87	Finite deformations at the vertex of a bi-material wedge. International Journal of Fracture, 1997, 84, 325-358.	2.2	13
88	On the Directional Stability of a Propagating Crack. Journal of Applied Mechanics, Transactions ASME, 1995, 62, 539-540.	2.2	0
89	STABILITY OF A PROPAGATING INTERPHASE BOUNDARY IN A THERMOPLASTIC MATERIAL. Journal of Thermal Stresses, 1995, 18, 621-634.	2.0	0
90	Pressure-induced polygonization of filled multiwall carbon nanotube. , 0, , .		0

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91	Terahertz wave propagation in multiwall carbon nanotubes. , 0, , .		2
92	Flow-induced Vibration and Instability of Carbon Nanotubes. , 0, , .		0