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List of Publications by Year in descending order

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92
papers

2,740
citations

201385

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92
all docs

92
docs citations

92
times ranked

1093
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of van der Waals forces on axial buckling of a double-walled carbon nanotube. Journal of Applied Physics, 2000, 87, 7227-7231.	1.1	253
2	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.	1.1	160
3	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.	2.0	158
4	Noncoaxial resonance of an isolated multiwall carbon nanotube. Physical Review B, 2002, 66, .	1.1	136
5	Degraded axial buckling strain of multiwalled carbon nanotubes due to interlayer slips. Journal of Applied Physics, 2001, 89, 3426-3433.	1.1	129
6	Sound wave propagation in multiwall carbon nanotubes. Journal of Applied Physics, 2003, 93, 4801-4806.	1.1	124
7	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.	1.0	105
8	Applicability and Limitations of Simplified Elastic Shell Equations for Carbon Nanotubes. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 622-631.	1.1	105
9	Terahertz Vibration of Short Carbon Nanotubes Modeled as Timoshenko Beams. Journal of Applied Mechanics, Transactions ASME, 2005, 72, 10-17.	1.1	92
10	Vibration of a double-walled carbon nanotube aroused by nonlinear intertube van der Waals forces. Journal of Applied Physics, 2006, 99, 064303.	1.1	81
11	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.	1.0	69
12	Relevance of Timoshenko-beam model to microtubules of low shear modulus. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 213-219.	1.3	66
13	Uniformity of Stresses Within a Three-Phase Elliptic Inclusion in Anti-Plane Shear. Journal of Elasticity, 1998, 52, 121-128.	0.9	57
14	Interfacial Thermal Stresses in Bimaterial Elastic Beams: Modified Beam Models Revisited. Journal of Electronic Packaging, Transactions of the ASME, 2002, 124, 141-146.	1.2	56
15	Eshelby inclusion of arbitrary shape in an anisotropic plane or half-plane. Acta Mechanica, 2003, 160, 219-234.	1.1	55
16	Length-dependence of flexural rigidity as a result of anisotropic elastic properties of microtubules. Biochemical and Biophysical Research Communications, 2006, 349, 1145-1150.	1.0	53
17	A Circular Inclusion with Inhomogeneously Imperfect Interface in Plane Elasticity. Journal of Elasticity, 1999, 55, 19-41.	0.9	52
18	On complex-variable formulation for finite plane elastostatics of harmonic materials. Acta Mechanica, 2002, 156, 219-234.	1.1	52

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19	A New Method for an Inhomogeneity with Stepwise Graded Interphase under Thermomechanical Loadings. <i>Journal of Elasticity</i> , 1999, 56, 107-127.	0.9	48
20	Surface wrinkling of two mutually attracting elastic thin films due to van der Waals forces. <i>Journal of Applied Physics</i> , 2001, 90, 6098-6104.	1.1	41
21	A strain-consistent elastic plate model with surface elasticity. <i>Continuum Mechanics and Thermodynamics</i> , 2016, 28, 263-273.	1.4	38
22	A Circular Inclusion With Circumferentially Inhomogeneous Sliding Interface in Plane Elastostatics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1998, 65, 30-38.	1.1	37
23	Uniform stress fields inside multiple inclusions in an elastic infinite plane under plane deformation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20140933.	1.0	35
24	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 5575-5579.	1.7	33
25	Stress Analysis of an Elliptic Inclusion with Imperfect Interface in Plane Elasticity. <i>Journal of Elasticity</i> , 2001, 62, 25-46.	0.9	32
26	Integral equation methods in plane-strain elasticity with boundary reinforcement. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1998, 454, 2223-2242.	1.0	30
27	Numerical investigation of speed dependent dynamic fracture toughness of line pipe steels. <i>Engineering Fracture Mechanics</i> , 2013, 99, 214-222.	2.0	30
28	Surface tension-induced stress concentration around a nanosized hole of arbitrary shape in an elastic half-plane. <i>Meccanica</i> , 2014, 49, 2847-2859.	1.2	27
29	Stress field around an arbitrarily shaped nanosized hole with surface tension. <i>Acta Mechanica</i> , 2014, 225, 3453-3462.	1.1	27
30	A two-dimensional Eshelby problem for two bonded piezoelectric half-planes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2001, 457, 865-883.	1.0	26
31	Elastic fields in two jointed half-planes with an inclusion of arbitrary shape. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2001, 52, 18-32.	0.7	26
32	Buckling of empty spherical viruses under external pressure. <i>Journal of Applied Physics</i> , 2009, 105, 124701.	1.1	25
33	Elastic fields in two imperfectly bonded half-planes with a thermal inclusion of arbitrary shape. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2007, 58, 488-509.	0.7	23
34	Thermoelastic dissipation of hollow micromechanical resonators. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2341-2352.	1.3	22
35	Effect of interphase layers on thermal stresses within an elliptical inclusion. <i>Journal of Applied Physics</i> , 1998, 84, 4872-4879.	1.1	21
36	Thermoelastic dissipation of nanowire resonators with surface stress. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1243-1248.	1.3	21

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37	Modified von Kármán equations for elastic nanoplates with surface tension and surface elasticity. <i>International Journal of Non-Linear Mechanics</i> , 2017, 88, 67-73.	1.4	20
38	Surface Instability of an Elastic Thin Film Interacting With a Suspended Elastic Plate. <i>Journal of Applied Mechanics</i> , Transactions ASME, 2002, 69, 97-103.	1.1	19
39	Determination of two key parameters of a cohesive zone model for pipeline steels based on uniaxial stress-strain curve. <i>Engineering Fracture Mechanics</i> , 2016, 163, 55-65.	2.0	19
40	An elliptical liquid inclusion in an infinite elastic plane. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170813.	1.0	18
41	Surface Instability of a Semi-Infinite Elastic Body Under Surface van der Waals Forces. <i>Journal of Applied Mechanics</i> , Transactions ASME, 2004, 71, 138-140.	1.1	18
42	Strain rate effects on dynamic fracture of pipeline steels: Finite element simulation. <i>International Journal of Pressure Vessels and Piping</i> , 2015, 126-127, 1-7.	1.2	17
43	Large-Deflection Effect on Thermoelastic Dissipation of Microbeam Resonators. <i>Journal of Thermal Stresses</i> , 2012, 35, 1076-1094.	1.1	16
44	Non-elliptical inclusions that achieve uniform internal strain fields in an elastic half-plane. <i>Acta Mechanica</i> , 2015, 226, 3845-3863.	1.1	16
45	A hybrid complex-variable solution for piezoelectric/isotropic elastic interfacial cracks. <i>International Journal of Fracture</i> , 2008, 152, 169-178.	1.1	15
46	High-order subharmonic parametric resonance of nonlinearly coupled micromechanical oscillators. <i>European Physical Journal B</i> , 2007, 58, 411-421.	0.6	14
47	Localized buckling of a microtubule surrounded by randomly distributed cross linkers. <i>Physical Review E</i> , 2013, 88, 012701.	0.8	14
48	An alternative method for indentation of an elastic thin beam by a rigid indenter. <i>International Journal of Mechanical Sciences</i> , 2018, 149, 508-513.	3.6	14
49	Finite deformations at the vertex of a bi-material wedge. <i>International Journal of Fracture</i> , 1997, 84, 325-358.	1.1	13
50	Stress Analysis of Thermal Inclusions With Interior Voids and Cracks. <i>Journal of Electronic Packaging</i> , Transactions of the ASME, 2000, 122, 192-199.	1.2	13
51	Vibration isolation of few-layer graphene sheets. <i>International Journal of Solids and Structures</i> , 2020, 185-186, 78-88.	1.3	12
52	High-order subharmonic parametric resonance of multiple nonlinearly coupled micromechanical nonlinear oscillators. <i>Acta Mechanica</i> , 2010, 212, 69-81.	1.1	9
53	Surface tension-induced interfacial stresses around a nanoscale inclusion of arbitrary shape. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2017, 68, 1.	0.7	9
54	Spherical indentation of an elastic layer on a rigid substrate revisited. <i>Thin Solid Films</i> , 2019, 669, 500-508.	0.8	9

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55	Effect of a thin surface coating layer on thermal stresses within an elastic half-plane. <i>Acta Mechanica</i> , 2006, 185, 227-243.	1.1	8
56	A speed-dependent cohesive zone model for moving cracks with non-uniform traction force. <i>Engineering Fracture Mechanics</i> , 2014, 117, 12-27.	2.0	8
57	Analysis of energy absorptions in drop-weight tear tests of pipeline steel. <i>Engineering Fracture Mechanics</i> , 2016, 160, 138-146.	2.0	8
58	Negative effective mass of a filled carbon nanotube. <i>International Journal of Mechanical Sciences</i> , 2017, 134, 174-181.	3.6	8
59	Instability of a Large Coupled Microbeam Array Initialized at Its Two Ends. <i>Journal of Adhesion</i> , 2007, 83, 195-221.	1.8	7
60	Surface energy-driven adhesion of two opposing microcantilevers. <i>Acta Mechanica</i> , 2006, 184, 33-45.	1.1	6
61	A study on the Gurtin–Murdoch model for spherical solids with surface tension. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2021, 72, 1.	0.7	6
62	Surface tension-driven instability of a soft elastic rod revisited. <i>International Journal of Solids and Structures</i> , 2022, 241, 111491.	1.3	6
63	Imperfection sensitivity of pressured buckling of biopolymer spherical shells. <i>Physical Review E</i> , 2016, 93, 062403.	0.8	5
64	Axisymmetric indentation of an elastic thin plate by a rigid sphere revisited. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018, 98, 1436-1446.	0.9	5
65	Asymmetric indentation of an elastic beam by a rigid cylinder. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2018, 69, 1.	0.7	5
66	Metamaterial-like vibration of doublewalled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 107, 196-202.	1.3	5
67	Effective mass density of rigid sphere-reinforced elastic composites. <i>Meccanica</i> , 2021, 56, 1209-1221.	1.2	5
68	A modified cohesive zone model for a high-speed expanding crack. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014, 37, 1013-1024.	1.7	4
69	Localized Vibration of a Microtubule Surrounded by Randomly Distributed Cross Linkers. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	0.6	4
70	Temperature Effects on Fracture Toughness Parameters for Pipeline Steels. <i>International Journal of Steel Structures</i> , 2018, 18, 1754-1760.	0.6	4
71	A simplified metaelastic model for coated sphere-filled random composites. <i>Mathematics and Mechanics of Solids</i> , 2021, 26, 939-953.	1.5	4
72	Metamaterial Vibration of Tensioned Circular Few-Layer Graphene Sheets. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	4

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73	Compressed microtubules: Splitting or buckling. Journal of Applied Physics, 2012, 111, 064701.	1.1	3
74	A refined cohesive zone model that accounts for inertia of cohesive zone of a moving crack. Mechanics Research Communications, 2016, 76, 78-85.	1.0	3
75	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.	1.9	3
76	Adhesion of an elastic sphere on a tensioned membrane. Mathematics and Mechanics of Solids, 2020, 25, 1534-1543.	1.5	3
77	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.	0.7	2
78	Terahertz wave propagation in multiwall carbon nanotubes. , 0, , .		2
79	Effect of microcracking on electric-field-induced stress intensity factors in dielectric ceramics. Philosophical Magazine, 2003, 83, 277-294.	0.7	2
80	A Strain Rate-Dependent Finite Element Model of Drop-Weight Tear Tests for Pipeline Steels. , 2014, , .		2
81	Free vibration of biopolymer spherical shells of high structural heterogeneity. AIP Advances, 2018, 8, 075006.	0.6	2
82	Discussion: "Common Errors on Mapping of Nonelliptic Curves in Anisotropic Elasticity" (Ting, T. C. T.,) Tj ETQq0 0 0 rgBT /Overlock 687-687.	1.1	1
83	Title is missing!. Zeitschrift Fur Angewandte Mathematik Und Physik, 2002, 53, 621-633.	0.7	1
84	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.	1.9	1
85	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.	1.0	1
86	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.	0.7	1
87	An analytical solution to the adhesive cylindrical indentation of a compressible elastic thin layer. Journal of Adhesion, 2020, , 1-19.	1.8	1
88	On the Directional Stability of a Propagating Crack. Journal of Applied Mechanics, Transactions ASME, 1995, 62, 539-540.	1.1	0
89	STABILITY OF A PROPAGATING INTERPHASE BOUNDARY IN A THERMOPLASTIC MATERIAL. Journal of Thermal Stresses, 1995, 18, 621-634.	1.1	0
90	Pressure-induced polygonization of filled multiwall carbon nanotube. , 0, , .		0

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91	Flow-induced Vibration and Instability of Carbon Nanotubes. , 0, , .		0
92	Best upper bounds on strain energy and surface displacements of an elastic body under boundary tractions. Acta Mechanica, 2012, 223, 2197-2205.	1.1	0