

Mohammad Rasoul Delfani

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

177
citations

1162367

8
h-index

1125271

13
g-index

19
all docs

19
docs citations

19
times ranked

84
citing authors

#	ARTICLE	IF	CITATIONS
1	Scattering of an anti-plane shear wave by an embedded cylindrical micro-/nano-fiber within couple stress theory with micro inertia. <i>International Journal of Solids and Structures</i> , 2015, 58, 73-90.	1.3	40
2	Overall properties of particulate composites with periodic microstructure in second strain gradient theory of elasticity. <i>Mechanics of Materials</i> , 2017, 113, 89-101.	1.7	17
3	A novel nonlinear constitutive relation for graphene and its consequence for developing closed-form expressions for Young's modulus and critical buckling strain of single-walled carbon nanotubes. <i>Acta Mechanica</i> , 2011, 222, 91-101.	1.1	15
4	Determination of the scattered fields of an SH-wave by an eccentric coating-fiber ensemble using DEIM. <i>International Journal of Engineering Science</i> , 2008, 46, 1136-1146.	2.7	13
5	3D elastodynamic fields of non-uniformly coated obstacles: Notion of eigenstress and eigenbody-force fields. <i>Mechanics of Materials</i> , 2009, 41, 989-999.	1.7	13
6	Elastic field of a spherical inclusion with non-uniform eigenfields in second strain gradient elasticity. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170254.	1.0	10
7	Spherical inclusion with time-harmonic eigenfields in strain gradient elasticity considering the effect of micro inertia. <i>International Journal of Solids and Structures</i> , 2018, 155, 57-64.	1.3	9
8	An exact analysis for the hoop elasticity and pressure-induced twist of CNT-nanovessels and CNT-nanopipes. <i>Mechanics of Materials</i> , 2015, 82, 47-62.	1.7	8
9	Uniform motion of an edge dislocation within Mindlin's first strain gradient elasticity. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105701.	3.6	8
10	An enhanced continuum modeling of the ideal strength and the angle of twist in tensile behavior of single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	7
11	A large-deformation thin plate theory with application to one-atom-thick layers. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 87, 65-85.	2.3	7
12	Interaction of a straight screw dislocation with a circular cylindrical inhomogeneity in the context of second strain gradient theory of elasticity. <i>Mechanics of Materials</i> , 2019, 139, 103208.	1.7	7
13	Extended theory of elastica for free torsional, longitudinal, and radial breathing vibrations of single-walled carbon nanotubes. <i>Journal of Sound and Vibration</i> , 2017, 403, 104-128.	2.1	5
14	Elastic and plastic fields induced by a screw dislocation in a nanowire within Mindlin's second strain gradient theory. <i>Applied Mathematical Modelling</i> , 2022, 109, 77-97.	2.2	5
15	Frank network of dislocations within Mindlin's second strain gradient theory of elasticity. <i>International Journal of Mechanical Sciences</i> , 2019, 164, 105150.	3.6	4
16	Effective Shear Modulus of Functionally Graded Fibrous Composites in Second Strain Gradient Elasticity. <i>Journal of Elasticity</i> , 2019, 137, 43-62.	0.9	4
17	Two-Dimensional Elastica Model for Describing the Flexural Behavior of Single-Walled Carbon Nanotubes. <i>Journal of Elasticity</i> , 2017, 126, 173-199.	0.9	2
18	Elastic fields due to a suddenly expanding spherical inclusion within Mindlin's first strain-gradient theory. <i>Continuum Mechanics and Thermodynamics</i> , 2022, 34, 697-719.	1.4	2

#	ARTICLE	IF	CITATIONS
19	Dual ideal shear strengths for chiral single-walled carbon nanotubes. International Journal of Non-Linear Mechanics, 2020, 120, 103382.	1.4	1