

# Mohammad Rasoul Delfani

## List of Publications by Citations

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18  
papers

130  
citations

7  
h-index

10  
g-index

19  
ext. papers

157  
ext. citations

3.4  
avg, IF

3.28  
L-index

#	Paper	IF	Citations
18	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> , <b>2015</b> , 58, 73-90	3.1	28
17	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> , <b>2011</b> , 222, 91-101	2.1	15
16	Overall properties of particulate composites with periodic microstructure in second strain gradient theory of elasticity. <i>Mechanics of Materials</i> , <b>2017</b> , 113, 89-101	3.3	14
15	Determination of the scattered fields of an SH-wave by an eccentric coating-fiber ensemble using DEIM. <i>International Journal of Engineering Science</i> , <b>2008</b> , 46, 1136-1146	5.7	11
14	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> , <b>2017</b> , 473, 20170254	2.4	10
13	3D elastodynamic fields of non-uniformly coated obstacles: Notion of eigenstress and eigenbody-force fields. <i>Mechanics of Materials</i> , <b>2009</b> , 41, 989-999	3.3	10
12	An exact analysis for the hoop elasticity and pressure-induced twist of CNT-nanovessels and CNT-nanopipes. <i>Mechanics of Materials</i> , <b>2015</b> , 82, 47-62	3.3	8
11	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> , <b>2013</b> , 114, 053521	2.5	7
10	Spherical inclusion with time-harmonic eigenfields in strain gradient elasticity considering the effect of micro inertia. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 155, 57-64	3.1	6
9	Extended theory of elastica for free torsional, longitudinal, and radial breathing vibrations of single-walled carbon nanotubes. <i>Journal of Sound and Vibration</i> , <b>2017</b> , 403, 104-128	3.9	5
8	A large-deformation thin plate theory with application to one-atom-thick layers. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2016</b> , 87, 65-85	5	5
7	Uniform motion of an edge dislocation within Mindlin's first strain gradient elasticity. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 179, 105701	5.5	3
6	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> , <b>2019</b> , 139, 103208	3.3	3
5	Two-Dimensional Elastica Model for Describing the Flexural Behavior of Single-Walled Carbon Nanotubes. <i>Journal of Elasticity</i> , <b>2017</b> , 126, 173-199	1.5	2
4	Frank network of dislocations within Mindlin's second strain gradient theory of elasticity. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 164, 105150	5.5	1
3	Dual ideal shear strengths for chiral single-walled carbon nanotubes. <i>International Journal of Non-Linear Mechanics</i> , <b>2020</b> , 120, 103382	2.8	1
2	Effective Shear Modulus of Functionally Graded Fibrous Composites in Second Strain Gradient Elasticity. <i>Journal of Elasticity</i> , <b>2019</b> , 137, 43-62	1.5	1

- 1 Elastic fields due to a suddenly expanding spherical inclusion within Mindlin's first strain-gradient theory. *Continuum Mechanics and Thermodynamics*, 1 3.5