

# Hossein M Shodja

## List of Publications by Year in descending order

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144  
papers

2,217  
citations

236612

25  
h-index

329751

37  
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146  
all docs

146  
docs citations

146  
times ranked

1071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inclusion Problems. <i>Applied Mechanics Reviews</i> , 1996, 49, S118-S127.	4.5	97
2	Elastic Fields in Double Inhomogeneity by the Equivalent Inclusion Method. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2001, 68, 3-10.	1.1	79
3	Interacting cracks and ellipsoidal inhomogeneities by the equivalent inclusion method. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 945-960.	2.3	65
4	Love waves propagation in functionally graded piezoelectric materials with quadratic variation. <i>Journal of Sound and Vibration</i> , 2008, 313, 195-204.	2.1	63
5	Molecular dynamics simulation of crack propagation in fcc materials containing clusters of impurities. <i>Mechanics of Materials</i> , 2006, 38, 243-252.	1.7	62
6	Calculation of the Additional Constants for fcc Materials in Second Strain Gradient Elasticity: Behavior of a Nano-Size Bernoulli-Euler Beam With Surface Effects. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	1.1	56
7	Ab initio calculations of characteristic lengths of crystalline materials in first strain gradient elasticity. <i>Mechanics of Materials</i> , 2013, 61, 73-78.	1.7	52
8	Size-dependent interaction of an edge dislocation with an elliptical nano-inhomogeneity incorporating interface effects. <i>International Journal of Solids and Structures</i> , 2012, 49, 759-770.	1.3	49
9	A piezoelectric-inhomogeneity system with imperfect interface. <i>International Journal of Engineering Science</i> , 2006, 44, 291-311.	2.7	48
10	Surface/interface effects on elastic behavior of a screw dislocation in an eccentric core shell nanowire. <i>International Journal of Solids and Structures</i> , 2012, 49, 1665-1675.	1.3	47
11	A thermoelasticity solution of sandwich structures with functionally graded coating. <i>Composites Science and Technology</i> , 2007, 67, 1073-1080.	3.8	45
12	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
13	Overall behavior of composites with periodic multi-inhomogeneities. <i>Mechanics of Materials</i> , 2005, 37, 343-353.	1.7	38
14	A model for the evolution of concrete deterioration due to reinforcement corrosion. <i>Mathematical and Computer Modelling</i> , 2010, 52, 1403-1422.	2.0	36
15	A formulation for the characteristic lengths of fcc materials in first strain gradient elasticity via the Sutton-Chen potential. <i>Philosophical Magazine</i> , 2010, 90, 1893-1913.	0.7	36
16	A micromechanical study of rolling and sliding contacts in assemblies of oval granules. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2003, 27, 403-424.	1.7	34
17	An FGM coated elastic solid under thermomechanical loading: a two dimensional linear elastic approach. <i>Surface and Coatings Technology</i> , 2006, 200, 4050-4064.	2.2	33
18	A combined first principles and analytical determination of the modulus of cohesion, surface energy, and the additional constants in the second strain gradient elasticity. <i>International Journal of Solids and Structures</i> , 2013, 50, 3967-3974.	1.3	33

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19	Interface effects on elastic behavior of an edge dislocation in a core-shell nanowire embedded to an infinite matrix. <i>International Journal of Solids and Structures</i> , 2013, 50, 1177-1186.	1.3	33
20	Surface and Interface Effects on Torsion of Eccentrically Two-Phase fcc Circular Nanorods: Determination of the Surface/Interface Elastic Properties via an Atomistic Approach. <i>Journal of Applied Mechanics</i> , Transactions ASME, 2011, 78, .	1.1	31
21	Piezoelectric composites with periodic multi-coated inhomogeneities. <i>International Journal of Solids and Structures</i> , 2010, 47, 2893-2904.	1.3	30
22	A piezoelectric medium containing a cylindrical inhomogeneity: Role of electric capacitors and mechanical imperfections. <i>International Journal of Solids and Structures</i> , 2007, 44, 6361-6381.	1.3	28
23	Axisymmetric time-harmonic response of a transversely isotropic substrate-coating system. <i>International Journal of Engineering Science</i> , 2007, 45, 272-287.	2.7	26
24	Prediction of the penetrated rust into the microcracks of concrete caused by reinforcement corrosion. <i>Applied Mathematical Modelling</i> , 2011, 35, 2529-2543.	2.2	26
25	Spectral equivalent inclusion method: Anisotropic cylindrical multi-inhomogeneities. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 3565-3575.	2.3	25
26	Surface/interface effects on the formation of misfit dislocation in a core-shell nanowire. <i>Philosophical Magazine</i> , 2014, 94, 492-519.	0.7	25
27	Effects of couple stresses on anti-plane problems of piezoelectric media with inhomogeneities. <i>European Journal of Mechanics, A/Solids</i> , 2007, 26, 647-658.	2.1	24
28	A meshless approach for solution of Burgers' equation. <i>Journal of Computational and Applied Mathematics</i> , 2008, 220, 226-239.	1.1	24
29	Effect of surface stresses on elastic behavior of a screw dislocation inside the wall of a nanotube. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1437-1441.	0.7	24
30	Disclination grain boundary model with plastic deformation by dislocations. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 190, 1-7.	2.6	23
31	Analysis of displacement and strain fields of a screw dislocation in a nanowire using gradient elasticity theory. <i>Scripta Materialia</i> , 2008, 59, 368-371.	2.6	23
32	Elastic behavior of an edge dislocation inside the wall of a nanotube. <i>Scripta Materialia</i> , 2011, 64, 709-712.	2.6	23
33	A combined first principles and analytical treatment for determination of the surface elastic constants: application to Si(001) ideal and reconstructed surfaces. <i>Philosophical Magazine Letters</i> , 2012, 92, 7-19.	0.5	23
34	Elliptic inhomogeneities and inclusions in anti-plane couple stress elasticity with application to nano-composites. <i>International Journal of Solids and Structures</i> , 2009, 46, 2978-2987.	1.3	21
35	Green's functions of an exponentially graded transversely isotropic half-space. <i>International Journal of Solids and Structures</i> , 2010, 47, 1537-1545.	1.3	21
36	Surface elasticity revisited in the context of second strain gradient theory. <i>Mechanics of Materials</i> , 2016, 93, 220-237.	1.7	21

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37	Lateral translation of an inextensible circular membrane embedded in a transversely isotropic half-space. <i>European Journal of Mechanics, A/Solids</i> , 2013, 39, 134-143.	2.1	20
38	Mechanics and morphology of single-walled carbon nanotubes: from graphene to the elastica. <i>Philosophical Magazine</i> , 2013, 93, 2057-2088.	0.7	20
39	On thermoelastic fields of a multi-phase inhomogeneity system with perfectly/imperfectly bonded interfaces. <i>International Journal of Solids and Structures</i> , 2008, 45, 5831-5843.	1.3	19
40	Surface/interface effect on the scattering of Love waves by a nano-size surface-breaking crack within an ultra-thin layer bonded to an elastic half-space. <i>International Journal of Solids and Structures</i> , 2017, 108, 63-73.	1.3	19
41	Analysis of stress field of a screw dislocation inside an embedded nanowire using strain gradient elasticity. <i>Scripta Materialia</i> , 2009, 61, 355-358.	2.6	18
42	Surface/interface effects on elastic behavior of an edge dislocation in the shell of a core-shell nanowire. <i>European Journal of Mechanics, A/Solids</i> , 2013, 41, 86-100.	2.1	18
43	Interface effect on the formation of a dipole of screw misfit dislocations in an embedded nanowire with uniform shear eigenstrain field. <i>European Journal of Mechanics, A/Solids</i> , 2015, 51, 154-159.	2.1	18
44	Elastic moduli tensors, ideal strength, and morphology of stanene based on an enhanced continuum model and first principles. <i>Mechanics of Materials</i> , 2017, 110, 1-15.	1.7	18
45	Scattering of SH-waves by an elliptic cavity/crack beneath the interface between functionally graded and homogeneous half-spaces via multipole expansion method. <i>Journal of Sound and Vibration</i> , 2018, 435, 372-389.	2.1	18
46	A screw dislocation near a circular nano-inhomogeneity in gradient elasticity. <i>International Journal of Solids and Structures</i> , 2010, 47, 741-750.	1.3	17
47	Wedge disclinations in the shell of a core-shell nanowire within the surface/interface elasticity. <i>Mechanics of Materials</i> , 2014, 68, 45-63.	1.7	16
48	Toupin's Mindlin first strain gradient theory revisited for cubic crystals of hexoctahedral class: Analytical expression of the material parameters in terms of the atomic force constants and evaluation via ab initio DFT. <i>Mechanics of Materials</i> , 2018, 123, 19-29.	1.7	16
49	Three-dimensional analysis of piezocomposite plates with arbitrary geometry and boundary conditions. <i>International Journal of Solids and Structures</i> , 2003, 40, 4837-4858.	1.3	15
50	A general unified treatment of lamellar inhomogeneities. <i>Engineering Fracture Mechanics</i> , 2007, 74, 1499-1510.	2.0	15
51	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
52	Boussinesq indentation of a transversely isotropic half-space reinforced by a buried inextensible membrane. <i>Applied Mathematical Modelling</i> , 2014, 38, 2163-2172.	2.2	15
53	Shear horizontal surface acoustic waves in functionally graded magneto-electro-elastic half-space. <i>Journal of Engineering Mathematics</i> , 2016, 97, 83-100.	0.6	15
54	Thermoelastic Fields of a Functionally Graded Coated Inhomogeneity With Sliding/Perfect Interfaces. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007, 74, 389-398.	1.1	14

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55	A unified approach to the mathematical analysis of generalized RKPM, gradient RKPM, and GMLS. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 540-576.	3.4	14
56	Tensor spherical harmonics theories on the exact nature of the elastic fields of a spherically anisotropic multi-inhomogeneous inclusion. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1124-1143.	2.3	14
57	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
58	Gradient reproducing kernel particle method. <i>Journal of Mechanics of Materials and Structures</i> , 2008, 3, 127-152.	0.4	13
59	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
60	Surface/interface effect on the scattered fields of an anti-plane shear wave in an infinite medium by a concentric multi-coated nanofiber/nanotube. <i>European Journal of Mechanics, A/Solids</i> , 2012, 32, 21-31.	2.1	13
61	Fully enriched weight functions in mesh-free methods for the analysis of linear elastic fracture mechanics problems. <i>Engineering Analysis With Boundary Elements</i> , 2014, 43, 1-18.	2.0	13
62	Surface characterization of face-centered cubic crystals. <i>Mechanics of Materials</i> , 2019, 129, 15-22.	1.7	13
63	Nonlinear flexure of Timoshenko–Ehrenfest nano-beams via nonlocal integral elasticity. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	13
64	An Analytical Approach to Study the Intraoperative Fractures of Femoral Shaft During Total Hip Arthroplasty. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 041004.	0.6	12
65	Scattering of SH-waves by a nano-fiber beneath the interface of two bonded half-spaces within surface/interface elasticity via multipole expansion. <i>International Journal of Solids and Structures</i> , 2018, 130-131, 258-279.	1.3	12
66	Torsional surface wave propagation in a transversely isotropic FG substrate with piezoelectric over-layer within surface/interface theory. <i>Acta Mechanica</i> , 2020, 231, 2203-2216.	1.1	12
67	A semi-analytical method for piezocomposite structures with arbitrary interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 4588-4604.	3.4	11
68	Composites with superspherical inhomogeneities. <i>Philosophical Magazine Letters</i> , 2009, 89, 439-451.	0.5	11
69	Ellipsoidal Domains: Piecewise Nonuniform and Impotent Eigenstrain Fields. <i>Journal of Elasticity</i> , 2006, 86, 1-18.	0.9	10
70	The effect of the physical properties of the substrate on the kinetics of cell adhesion and crawling studied by an axisymmetric diffusion-energy balance coupled model. <i>Soft Matter</i> , 2015, 11, 3693-3705.	1.2	10
71	Effective shear modulus of solids reinforced by randomly oriented-/aligned-elliptic nanofibers in couple stress elasticity. <i>Composites Part B: Engineering</i> , 2017, 117, 150-164.	5.9	10
72	Crystallography and surface effects on the propagation of Love and Rayleigh surface waves in fcc semi-infinite solids. <i>International Journal of Solids and Structures</i> , 2018, 138, 109-117.	1.3	10

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73	Intergranular Crack Nucleation in Bicrystalline Materials Under Fatigue. Journal of Applied Mechanics, Transactions ASME, 1996, 63, 788-795.	1.1	9
74	The scattering of electro-elastic waves by a spherical piezoelectric particle in a polymer matrix. International Journal of Engineering Science, 2006, 44, 633-649.	2.7	9
75	A remedy to gradient type constraint dilemma encountered in RKPM. Advances in Engineering Software, 2007, 38, 229-243.	1.8	9
76	Axisymmetric contact of a rigid inclusion embedded at the interface of a piezoelectric bimaterial. Quarterly Journal of Mechanics and Applied Mathematics, 2009, 62, 281-295.	0.5	8
77	Electroelastic fields in interacting piezoelectric inhomogeneities by the electromechanical equivalent inclusion method. Smart Materials and Structures, 2010, 19, 035025.	1.8	8
78	Response of reinforced concrete structures to macrocell corrosion of reinforcements. Part II: After propagation of microcracks via a numerical approach. Nuclear Engineering and Design, 2012, 242, 7-18.	0.8	8
79	First principles molecular dynamics studies of elastic constants, ideal tensile strength, chemistry of crack initiation, and surface and cohesive energies in amorphous silicon. Philosophical Magazine, 2014, 94, 2913-2936.	0.7	8
80	The electro-elastic scattered fields of an SH-wave by an eccentric two-phase circular piezoelectric sensor in an unbounded piezoelectric medium. Mechanics of Materials, 2014, 75, 1-12.	1.7	8
81	An exact analysis for the hoop elasticity and pressure-induced twist of CNT-nanovessels and CNT-nanopipes. Mechanics of Materials, 2015, 82, 47-62.	1.7	8
82	Inverse scattering problem of reconstruction of an embedded micro-/nano-size scatterer within couple stress theory with micro inertia. Mechanics of Materials, 2016, 103, 123-134.	1.7	8
83	Effective shear modulus of solids reinforced by randomly oriented- / aligned-elliptic multi-coated nanofibers in micropolar elasticity. Composites Part B: Engineering, 2018, 143, 197-206.	5.9	8
84	Some Basic Theoretical and Experimental Results on Micromechanics of Granular Flow. Studies in Applied Mechanics, 1988, 20, 253-262.	0.4	8
85	Numerical analysis of sedimentation and consolidation by the moving finite element method. International Journal for Numerical and Analytical Methods in Geomechanics, 1993, 17, 753-769.	1.7	7
86	Effective Moduli of Coated Particulate Composites with BCC Structure at High Concentration. Journal of Engineering Mechanics - ASCE, 2006, 132, 882-888.	1.6	7
87	Computational modeling of the interaction of two edge cracks, and two edge cracks interacting with a nanovoid, via an atomistic finite element method. Computational Materials Science, 2008, 42, 186-193.	1.4	7
88	Ellipsoidal Domain with Piecewise Nonuniform Eigenstrain Field in One of Joined Isotropic Half-Spaces. Journal of Elasticity, 2010, 98, 117-140.	0.9	7
89	An energetically consistent annular crack in a piezoelectric medium. Engineering Fracture Mechanics, 2010, 77, 819-831.	2.0	7
90	The scattering of P-waves by a piezoelectric particle with FGPM interfacial layers in a polymer matrix. International Journal of Solids and Structures, 2010, 47, 2390-2397.	1.3	7

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91	Response of reinforced concrete structures to macrocell corrosion of reinforcements. Part I: Before propagation of microcracks via an analytical approach. Nuclear Engineering and Design, 2011, 241, 4874-4892.	0.8	7
92	Wedge disclination dipole in an embedded nanowire within the surface/interface elasticity. Journal of the Mechanical Behavior of Materials, 2013, 22, 161-168.	0.7	7
93	An enhanced continuum modeling of the ideal strength and the angle of twist in tensile behavior of single-walled carbon nanotubes. Journal of Applied Physics, 2013, 114, .	1.1	7
94	Three-dimensional free vibration of arbitrarily shaped laminated micro-plates with sliding interfaces within couple stress theory. Journal of Sound and Vibration, 2015, 339, 176-195.	2.1	7
95	A large-deformation thin plate theory with application to one-atom-thick layers. Journal of the Mechanics and Physics of Solids, 2016, 87, 65-85.	2.3	7
96	Mindlin's Eringen anisotropic micromorphic elasticity and lattice dynamics representation. Philosophical Magazine, 2020, 100, 157-193.	0.7	7
97	Weakly nonlocal micromorphic elasticity for diamond structures vis-à-vis lattice dynamics. Mechanics of Materials, 2020, 147, 103365.	1.7	7
98	Inclusion problems associated with thin fcc films: Linkage between eigenstrain and inter-atomic potential. Mechanics of Materials, 2007, 39, 803-818.	1.7	6
99	Elastic solids with high concentration of arbitrarily oriented multiphase particles. Acta Mechanica, 2007, 189, 125-139.	1.1	6
100	Interacting functionally graded quantum wires/quantum dots with arbitrary shapes and general anisotropy within a distinct piezoelectric matrix. Journal of the Mechanical Behavior of Materials, 2014, 23, 1-14.	0.7	6
101	Scattering of transverse surface waves by a piezoelectric fiber in a piezoelectric half-space with exponentially varying electromechanical properties. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, 1.	0.7	6
102	On the exact nature of the coupled-fields of magneto-electro-elastic ellipsoidal inclusions with non-uniform eigenfields and general anisotropy. Mechanics of Materials, 2019, 128, 89-104.	1.7	6
103	The double slip plane model for the study of short cracks. Mechanics of Materials, 1995, 20, 195-208.	1.7	5
104	Three-Dimensional Free Vibration Analysis of Multiphase Piezocomposite Structures. Journal of Engineering Mechanics - ASCE, 2006, 132, 871-881.	1.6	5
105	Effects of Interface Conditions on Thermo-Mechanical Fields of Multi-Phase Nano-Fibers/Particles. Journal of Thermal Stresses, 2009, 32, 1166-1180.	1.1	5
106	Elastic fields of interacting point defects within an ultra-thin fcc film bonded to a rigid substrate. Open Engineering, 2013, 3, .	0.7	5
107	A Spectral Theory Formulation for Elastostatics by Means of Tensor Spherical Harmonics. Journal of Elasticity, 2013, 111, 67-89.	0.9	5
108	Variational bounds and overall shear modulus of nano-composites with interfacial damage in anti-plane couple stress elasticity. International Journal of Damage Mechanics, 2020, 29, 246-271.	2.4	5

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109	Mechanics of carbon-coated silicon nanowire via second strain gradient theory. <i>European Journal of Mechanics, A/Solids</i> , 2020, 81, 103943.	2.1	5
110	Analysis of two-phase flow of compressible immiscible fluids through nondeformable porous media using moving finite elements. <i>Transport in Porous Media</i> , 1993, 10, 203-219.	1.2	4
111	An accurate semi-analytical method for an arbitrarily oriented edge or interior crack in an anisotropic homogeneous elastic solid. <i>European Journal of Mechanics, A/Solids</i> , 2014, 45, 133-142.	2.1	4
112	Shear horizontal surface acoustic waves in a magneto-electro-elastic system. <i>Journal of the Mechanical Behavior of Materials</i> , 2016, 25, 1-13.	0.7	4
113	Eccentric annular crack under general nonuniform internal pressure. <i>Journal of the Mechanical Behavior of Materials</i> , 2016, 25, 69-76.	0.7	4
114	Novel theories on magneto-electro-elastic ellipsoidal multi-inclusions and inhomogeneities and associated impotent fields. <i>Mechanics of Materials</i> , 2020, 143, 103201.	1.7	4
115	Interface effects on the electromagnetic radiation emanating from an embedded piezoelectric nano-fiber incident upon by SH-waves. <i>Wave Motion</i> , 2020, 94, 102513.	1.0	4
116	Equilibrium of a tip weighted curved sheet on an inclined plane. <i>Acta Mechanica</i> , 1984, 53, 173-181.	1.1	3
117	A study of nanovoid, Griffithâ€“Inglis crack, cohesive crack, and some associated interaction problems in fcc materials via the many body atomic scale FEM. <i>Computational Materials Science</i> , 2009, 45, 275-284.	1.4	3
118	Comment on â€œAnnular inhomogeneities with eigenstrain and interphase modelingâ€• [2014, <i>J. Mech. Phys. Solids</i> 64, 468â€“482]. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 73, 1-2.	2.3	3
119	Gap tuning and effective electron correlation energy in amorphous silicon: A first principles density functional theory-based molecular dynamics study. <i>Computational Materials Science</i> , 2015, 102, 110-118.	1.4	3
120	Scattering of plane elastic waves by a multi-coated nanofiber with deformable interfaces. <i>International Journal of Solids and Structures</i> , 2018, 141-142, 195-218.	1.3	3
121	Second strain gradient theory in orthogonal curvilinear coordinates: Prediction of the relaxation of a solid nanosphere and embedded spherical nanocavity. <i>Applied Mathematical Modelling</i> , 2019, 76, 669-698.	2.2	3
122	Discrete Kernel Functions for fcc Crystals Within Eringenâ€™s Nonlocal Theory of Elasticity. <i>Journal of Elasticity</i> , 2021, 143, 1-30.	0.9	3
123	Elastic/piezoelectric solids with electro-mechanical singular surfaces. <i>Computational Mechanics</i> , 2007, 40, 547-567.	2.2	2
124	A lamellar inhomogeneity near a multiphase reinforcement. <i>Acta Mechanica</i> , 2009, 206, 39-52.	1.1	2
125	A general treatment of piezoelectric double-inhomogeneities and their associated interaction problems. <i>Acta Mechanica</i> , 2011, 220, 167-182.	1.1	2
126	Axisymmetric Problem of Energetically Consistent Interacting Annular and Penny-Shaped Cracks in Piezoelectric Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2011, 78, .	1.1	2



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127	A transversely isotropic medium containing a penny-shaped crack subjected to a non-uniform axisymmetric loading via an anchored smooth rigid disk. <i>Applied Mathematical Modelling</i> , 2017, 45, 491-504.	2.2	2
128	The role of strain on the quantum spin hall effect and band inversion in stanene. <i>Computational Condensed Matter</i> , 2017, 10, 1-9.	0.9	2
129	An embedded couple stress micro-/nano-obstacle with micro-inertia incident upon by SH-waves. <i>Acta Mechanica</i> , 2018, 229, 3333-3354.	1.1	2
130	Interaction of a screw dislocation and an embedded nonuniformly coated circular fiber with imperfect interfaces. <i>International Journal of Solids and Structures</i> , 2020, 182-183, 295-306.	1.3	2
131	Effective moduli and characteristic lengths of micropolar media with dense periodic distribution of ellipsoidal nano-/micro-inhomogeneities. <i>European Journal of Mechanics, A/Solids</i> , 2021, 85, 104103.	2.1	2
132	Diffusion of a self-interstitial atom in an ultrathin fcc film bonded to a rigid substrate. <i>Journal of the Mechanical Behavior of Materials</i> , 2013, 21, 161-168.	0.7	2
133	Band-structure calculation of SH-waves in 1D hypersonic nano-sized phononic crystals with deformable interfaces. <i>Mechanics of Materials</i> , 2022, 171, 104359.	1.7	2
134	Torsion of an eccentrically two-phase circular nanobar. , 2010, , .		1
135	A combined first principles and Mohr-Coulomb criterion for the determination of the nanohardness of amorphous silicon. <i>Journal of the Mechanical Behavior of Materials</i> , 2015, 24, 145-151.	0.7	1
136	Elastostatic Fields of an Embedded Circular Rigid Nano/Micro-Fiber with Interfacial Damage in Anti-Plane Couple Stress Elasticity. <i>Applied Mechanics and Materials</i> , 0, 784, 80-85.	0.2	1
137	A screw dislocation near a damaged arbitrary inhomogeneityâ€“matrix interface. <i>International Journal of Damage Mechanics</i> , 2020, 29, 272-296.	2.4	1
138	Dual ideal shear strengths for chiral single-walled carbon nanotubes. <i>International Journal of Non-Linear Mechanics</i> , 2020, 120, 103382.	1.4	1
139	Effective anti-plane moduli of couple stress composites containing elliptic multi-coated nano-fibers with interfacial damage and variational bounds. <i>International Journal of Damage Mechanics</i> , 2021, 30, 1351-1376.	2.4	1
140	Exact Diffusion-Induced Elastic Fields of a Spherical Core-Shell Nano-Electrode Li-Ion Battery via Spectral Theory. <i>Journal of the Electrochemical Society</i> , 2020, 167, 130540.	1.3	1
141	Surface/interface effect on the propagation of high-frequency SH surface waves in an ultra-thin FGP over-layer bonded to a substrate. <i>Acta Mechanica</i> , 2021, 232, 4677.	1.1	1
142	An Embedded Elliptic Nano-Fiber in Anti-Plane Strain Couple Stress Elasticity. , 2008, , .		0
143	Periodically Grown Quantum Nanostructures with Arbitrary Geometries: Periodicity Effects on the Induced Electro-elastic Fields. , 2015, 11, 275-281.		0
144	Nonlocal hcp kernel functions based on ab initio calculations: Pertinent dislocation problems revisited. <i>Mechanics of Materials</i> , 2021, 160, 103904.	1.7	0