

Reza Ansari

List of Publications by Year in descending order

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663
papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Influences of carbon nanotubes on low velocity impact performance of metallic nanocomposite plates – A coupled numerical approach. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 260-274.	3.4	4
2	Investigating the effect of carbon interfacial layer on the elastoplastic response of ceramic particle-reinforced metal matrix composites. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 841-854.	3.4	2
3	Nonlinear electromechanical analysis of micro/nanobeams based on the nonlocal strain gradient theory tuned by flexoelectric and piezoelectric effects. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 179-198.	3.4	8
4	Analytical solution approach for nonlinear vibration of shear deformable imperfect FG-GPLR porous nanocomposite cylindrical shells. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 2177-2199.	3.4	24
5	Bending analysis of nanobeams based on the integral form of nonlocal elasticity using the numerical Rayleigh-Ritz technique. <i>Journal of Strain Analysis for Engineering Design</i> , 2023, 58, 17-25.	1.0	2
6	Numerical phase-field vibration analysis of cracked functionally graded GPL-RC plates. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 3491-3510.	3.4	15
7	Dynamic and pull-in instability analyses of functionally graded nanoplates via nonlocal strain gradient theory. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 588-608.	3.4	27
8	Molecular dynamics study on the effect of polymer physisorption on the thermal conductivity of cross-linked functionalized carbon nanotubes. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 3663-3671.	1.1	1
9	Analytical-geometrical percolation network model for piezoresistivity of hybrid CNT/CB polymer nanocomposites using Monte Carlo simulations. <i>International Journal of Mechanics and Materials in Design</i> , 2022, 18, 39-61.	1.7	7
10	Influence of graphene nano-platelets on thermal transport performance of carbon fiber-polymer hybrid composites: Overall assessment of microstructural aspects. <i>International Journal of Thermal Sciences</i> , 2022, 171, 107209.	2.6	21
11	Hygrothermally Induced Vibration Analysis of Bidirectional Functionally Graded Porous Beams. <i>Transport in Porous Media</i> , 2022, 142, 41-62.	1.2	14
12	Thermally nonlinear generalized coupled thermo-viscoelasticity of disks: a numerical variational approach. <i>Waves in Random and Complex Media</i> , 2022, 32, 2796-2811.	1.6	5
13	A review of size-dependent continuum mechanics models for micro- and nano-structures. <i>Thin-Walled Structures</i> , 2022, 170, 108562.	2.7	78
14	Monte Carlo analytical-geometrical simulation of piezoresistivity and electrical conductivity of polymeric nanocomposites filled with hybrid carbon nanotubes/graphene nanoplatelets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 152, 106716.	3.8	24
15	On the mechanical properties and fracture analysis of polymer nanocomposites reinforced by functionalized silicon carbide nanotubes: A molecular dynamics investigation. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 111, 108086.	1.3	10
16	Nonlinear Thermally Induced Vibration Analysis of Porous FGM Timoshenko Beams Embedded in an Elastic Medium. <i>Transport in Porous Media</i> , 2022, 142, 63-87.	1.2	6
17	High velocity impact analysis of free-free carbon nanotubes. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 111, 108105.	1.3	0
18	Vibration analysis of two-dimensional micromorphic structures using quadrilateral and triangular elements. <i>Engineering Computations</i> , 2022, ahead-of-print, .	0.7	1

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19	Vibrations of piezoelectric nanobeams considering flexoelectricity influence: a numerical approach based on strain-driven nonlocal differential/integral models. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, 1.	0.8	2
20	Molecular dynamics study of mechanical properties and fracture behavior of carbon and silicon carbide nanotubes under chemical adsorption of atoms. <i>Diamond and Related Materials</i> , 2022, 121, 108764.	1.8	10
21	An efficient numerical method to solve the problems of 2D incompressible nonlinear elasticity. <i>Continuum Mechanics and Thermodynamics</i> , 2022, 34, 1-21.	1.4	3
22	Prediction of piezoresistive sensitivity and percolation probability of synergetic CNT-GNP conductive network composite. <i>Sensors and Actuators A: Physical</i> , 2022, 336, 113414.	2.0	10
23	Multi- ϵ patch variational differential quadrature method for shear-deformable strain gradient plates. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 2309-2337.	1.5	5
24	Nonlinear Resonance of Functionally Graded Porous Circular Cylindrical Shells Reinforced by Graphene Platelet with Initial Imperfections Using Higher-Order Shear Deformation Theory. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	1.5	17
25	Dynamic Response of Rapidly Heated Rectangular Plates Made of Porous Functionally Graded Material. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	1.5	4
26	A molecular dynamics study on the vibrational behavior of perfect and defective hybrid carbon boron-nitride heteronanotubes. <i>Diamond and Related Materials</i> , 2022, 125, 108990.	1.8	3
27	A novel temperature-dependent percolation model for the electrical conductivity and piezoresistive sensitivity of carbon nanotube-filled nanocomposites. <i>Acta Materialia</i> , 2022, 230, 117870.	3.8	22
28	A DFT investigation on the mechanical and structural properties of halogen- and metal-adsorbed silicene nanosheets. <i>Materials Chemistry and Physics</i> , 2022, 283, 126029.	2.0	11
29	Size-dependent free vibration and buckling analysis of magneto-electro-thermo-elastic nanoplates based on the third-order shear deformable nonlocal plate model. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 8116-8133.	1.1	4
30	Isogeometric analysis for bending, buckling and free vibration of multi-directional functionally graded porous plates with variable thickness. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	6
31	Nonlocal Strain Gradient Pull-in Study of Nanobeams Considering Various Boundary Conditions. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2021, 45, 891-909.	0.8	9
32	Large deformation analysis in the context of 3D compressible nonlinear elasticity using the VDQ method. <i>Engineering With Computers</i> , 2021, 37, 3251-3263.	3.5	9
33	A comprehensive analysis of the mechanical properties and fracture analysis of metallic glass nanocomposites reinforced by carbon nanotubes and Cu nanowires: A molecular dynamics study. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2531-2550.	1.5	8
34	Investigating vibrations of viscoelastic fluid-conveying carbon nanotubes resting on viscoelastic foundation using a nonlocal fractional Timoshenko beam model. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems</i> , 2021, 235, 30-40.	0.5	1
35	A comprehensive micromechanical analysis of the thermoelastic properties of polymer nanocomposites containing carbon nanotubes with fully random microstructures. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 331-342.	1.5	4
36	New extended direct algebraic method for the resonant nonlinear Schrödinger equation with Kerr law nonlinearity. <i>Optik</i> , 2021, 227, 165936.	1.4	49

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37	Thermal Postbuckling of Temperature-Dependent Functionally Graded Nanocomposite Annular Sector Plates Reinforced by Carbon Nanotubes. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, 2150026.	1.5	21
38	Bending, free vibration, and buckling responses of chopped carbon fiber/graphene nanoplatelet-reinforced polymer hybrid composite plates: An inclusive microstructural assessment. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 1455-1469.	1.1	10
39	Investigating elastic and plastic characteristics of monolayer phosphorene under atomic adsorption by the density functional theory. <i>Physica B: Condensed Matter</i> , 2021, 600, 412603.	1.3	18
40	An efficient homogenization scheme for analyzing the elastic properties of hybrid nanocomposites filled with multiscale particles. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	0
41	Nonlinear bending analysis of hyperelastic Mindlin plates: a numerical approach. <i>Acta Mechanica</i> , 2021, 232, 741-760.	1.1	19
42	A molecular dynamics study on the tensile characteristics of various metallic glass nanocomposites reinforced by Weyl semimetals three-dimensional graphene network. <i>European Journal of Mechanics, A/Solids</i> , 2021, 85, 104104.	2.1	7
43	A new numerical approach for low velocity impact response of multiscale-reinforced nanocomposite plates. <i>Engineering With Computers</i> , 2021, 37, 713-730.	3.5	17
44	Micromorphic Continuum Theory: Finite Element Analysis of 3D Elasticity with Applications in Beam- and Plate-Type Structures. <i>Springer Tracts in Mechanical Engineering</i> , 2021, , 339-363.	0.1	1
45	Analytical investigation on the nonlinear postbuckling of functionally graded porous cylindrical shells reinforced with graphene nanoplatelets. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	15
46	Van der Waals interactions and oscillatory behaviour of carbon onions interacting with a fully constrained graphene sheet. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	4
47	Geometrically Nonlinear Electromechanical Instability of FG Nanobeams by Nonlocal Strain Gradient Theory. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, 2150051.	1.5	7
48	Bending analysis of nanoscopic beams based upon the strain-driven and stress-driven integral nonlocal strain gradient theories. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	5
49	Buckling and Postbuckling of Plates Made of FG-GPL-Reinforced Porous Nanocomposite with Various Shapes and Boundary Conditions. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, 2150063.	1.5	25
50	Nonlinear analysis of laminated FG-GPLRC beams resting on an elastic foundation based on the two-phase stress-driven nonlocal model. <i>Acta Mechanica</i> , 2021, 232, 2183-2199.	1.1	11
51	Analysis of quantum effects of fine scaling on the axial buckling of MWCNTs based on the density functional theory and molecular mechanics method. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	11
52	A DFT study on the mechanical properties of hydrogenated and fluorinated germanene sheets. <i>Superlattices and Microstructures</i> , 2021, 152, 106854.	1.4	13
53	A molecular dynamics study on the buckling behavior of x-graphyne based single- and multi-walled nanotubes. <i>Computational Materials Science</i> , 2021, 191, 110333.	1.4	10
54	Torsional buckling analysis of MWCNTs considering quantum effects of fine scaling based on DFT and molecular mechanics method. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 104, 107843.	1.3	17

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55	Nonlinear finite element analysis within strain gradient elasticity: Reissner-Mindlin plate theory versus three-dimensional theory. <i>European Journal of Mechanics, A/Solids</i> , 2021, 87, 104221.	2.1	21
56	Nonlinear Primary Resonant Characteristics of Higher-Order Shear Deformable FG-CNTRC Circular Cylindrical Panels. <i>International Journal of Applied Mechanics</i> , 2021, 13, 2150046.	1.3	10
57	On the derivation of coefficient of Morse potential function for the silicene: a DFT investigation. <i>Journal of Molecular Modeling</i> , 2021, 27, 190.	0.8	14
58	Mechanical properties of group IV single-walled nanotubes: a finite element approach based on the density functional theory. <i>Journal of Molecular Modeling</i> , 2021, 27, 163.	0.8	1
59	Impact resistance of short carbon fibre-carbon nanotube-polymer matrix hybrid composites: A stochastic multiscale approach. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 1925-1936.	0.7	1
60	Free vibration analysis of postbuckled arbitrary-shaped FG-GPL-reinforced porous nanocomposite plates. <i>Thin-Walled Structures</i> , 2021, 163, 107701.	2.7	43
61	Mechanical properties of oxygen-functionalized silicon carbide nanotubes: A molecular dynamics study. <i>Physica B: Condensed Matter</i> , 2021, 610, 412939.	1.3	14
62	Prediction of axial Young's modulus of epoxy matrix reinforced by group-IV nanotube: A finite element investigation. <i>Mechanics of Materials</i> , 2021, 157, 103819.	1.7	4
63	Flexoelectricity effect on the size-dependent bending of piezoelectric nanobeams resting on elastic foundation. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	8
64	Optical soliton with Kudryashov's equation via sine-Gordon expansion and Kudryashov methods. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	28
65	Vibration analysis of two-dimensional structures using micropolar elements. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021, 42, 999-1012.	1.9	2
66	A numerical study on the free vibrations of nanocomposite conical panels with variously shaped cutout. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	1
67	Geometrically nonlinear vibrations of FG-GPLRC cylindrical panels with cutout based on HSDT and mixed formulation: a novel variational approach. <i>Acta Mechanica</i> , 2021, 232, 3417-3439.	1.1	6
68	A VDQ-transformed approach to the 3D compressible and incompressible finite hyperelasticity. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	5
69	Synergic effect of graphene nanoplatelets and carbon nanotubes on the electrical resistivity and percolation threshold of polymer hybrid nanocomposites. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	13
70	Evaluating the thermal conductivity coefficient of polypropylene/graphene nanocomposites: A hierarchical investigation. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 2762-2770.	0.7	3
71	Investigation of elastic properties, buckling and vibration of antimonene nanosheets through DFT-based finite element modeling. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 271, 115219.	1.7	11
72	Effects of SiO ₂ particles in copper current collector on diffusion induced stresses in layered Li-ion battery electrodes. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 7785-7799.	1.1	1

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73	Quadratic tetrahedral micropolar element for the vibration analysis of three-dimensional micro-structures. <i>Thin-Walled Structures</i> , 2021, 167, 108152.	2.7	5
74	Isogeometric dynamic analysis of shells based on the nonlinear micropolar theory. <i>International Journal of Non-Linear Mechanics</i> , 2021, 135, 103750.	1.4	2
75	From nonlinear micromorphic to nonlinear micropolar shell theory. <i>Applied Mathematical Modelling</i> , 2021, 100, 689-727.	2.2	2
76	Dynamic behavior of chloride ion-electrically charged open carbon nanocone oscillators: A molecular dynamics study. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 5709-5717.	1.1	4
77	Studying the Effect of Water Hammer Shock Wave on Composite Repaired Patches Based on ASME PCC-2. <i>Journal of Failure Analysis and Prevention</i> , 2021, 21, 570-581.	0.5	0
78	A numerical investigation on low velocity impact response of polymer-based nanocomposite plates containing multiscale reinforcements. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	4
79	A Micromechanics-Based Hierarchical Analysis of Thermal Conductivity of Metallic Nanocomposites with Agglomerated Ceramic Nanoparticles. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 7143-7151.	1.7	5
80	Structural and mechanical properties of antimonene monolayers doped with transition metals: a DFT-based study. <i>Journal of Molecular Modeling</i> , 2021, 27, 15.	0.8	18
81	Computational analysis of the effects of carbon nanotubes on the bending, buckling, and vibration characteristics of carbon fabric/polymer hybrid nanocomposite plates. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	3
82	Fundamental frequency analysis of endohedrally functionalized carbon nanotubes with metallic nanowires: a molecular dynamics study. <i>Journal of Molecular Modeling</i> , 2021, 27, 313.	0.8	3
83	Damage analysis of fiber-metal laminate patches as a repair system for surface defects of steel pipelines. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 868-879.	0.7	0
84	On new closed form solutions: The (2+1)-dimensional Bogoyavlenskii system. <i>Modern Physics Letters B</i> , 2021, 35, 2150150.	1.0	10
85	Effects of geometrical parameters and functionalization percentage on the mechanical properties of oxygenated single-walled carbon nanotubes. <i>Journal of Molecular Modeling</i> , 2021, 27, 351.	0.8	9
86	Size-dependent buckling analysis of piezoelectric nanobeams resting on elastic foundation considering flexoelectricity effect using the stress-driven nonlocal model. <i>European Physical Journal Plus</i> , 2021, 136, .	1.2	9
87	Single-walled boron nitride nanotube as nano-sensor. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 729-748.	1.4	10
88	Studying nonlinear thermomechanical wave propagation in a viscoelastic layer based upon the Lord-Shulman theory. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 800-806.	1.5	10
89	Elastoplastic Behavior of Unidirectional Hybrid Composites Containing SiO ₂ Nanoparticles Under Transverse Tension. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2020, 44, 299-312.	0.8	2
90	An analytical study on wave propagation in functionally graded nano-beams/tubes based on the integral formulation of nonlocal elasticity. <i>Waves in Random and Complex Media</i> , 2020, 30, 562-580.	1.6	36

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91	Second Strain Gradient Finite Element Analysis of Vibratory Nanostructures Based on the Three-Dimensional Elasticity Theory. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2020, 44, 631-645.	0.8	8
92	Finite element modeling of micromorphic continua in the context of three-dimensional elasticity. Continuum Mechanics and Thermodynamics, 2020, 32, 99-110.	1.4	5
93	A Numerical Investigation into the Primary Resonant Dynamics of Magneto-Electro-Thermo-Elastic Plates. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2020, 44, 571-583.	0.8	1
94	Mechanical buckling analyses of sandwich annular plates with functionally graded carbon nanotube-reinforced composite face sheets resting on elastic foundation based on the higher-order shear deformation plate theory. Journal of Sandwich Structures and Materials, 2020, 22, 1812-1837.	2.0	16
95	Characterization of moisture effects on novel agglomerated cork core sandwich composites with fiber metal laminate facesheets. Journal of Sandwich Structures and Materials, 2020, 22, 1709-1742.	2.0	16
96	An efficient numerical approach to the micromorphic hyperelasticity. Continuum Mechanics and Thermodynamics, 2020, 32, 1011-1036.	1.4	7
97	A molecular dynamics study on the interfacial properties of carbene-functionalized graphene/polymer nanocomposites. International Journal of Mechanics and Materials in Design, 2020, 16, 387-400.	1.7	14
98	On the buckling behavior of functionalized single- and double-walled carbon nanotubes with azobenzene in the aqueous environment: a molecular dynamics study. Structural Chemistry, 2020, 31, 371-384.	1.0	0
99	Dynamic behavior of particulate metal matrix nanocomposite plates under low velocity impact. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 180-195.	1.1	1
100	The effect of chitosan adsorption on the stability characteristics of single- and double-walled boron-nitride nanotubes under compressive force using molecular dynamics simulations. Structural Chemistry, 2020, 31, 909-915.	1.0	1
101	A comprehensive evaluation of piezoresistive response and percolation behavior of multiscale polymer-based nanocomposites. Composites Part A: Applied Science and Manufacturing, 2020, 130, 105735.	3.8	43
102	Laminate analogy approach for the effective elastic properties of metal matrix nanocomposites filled with randomly dispersed graphene nanoplatelets. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 1212-1219.	1.1	5
103	Mixed-type formulation of higher-order shear deformation theory for vibration and buckling analysis of FG-CPLRC plates using VDQFEM. Composite Structures, 2020, 235, 111738.	3.1	25
104	The effect of nanoparticle conglomeration on the overall conductivity of nanocomposites. International Journal of Engineering Science, 2020, 157, 103392.	2.7	48
105	Continuum modeling of ion-selective membranes constructed from functionalized carbon nanotubes. European Physical Journal Plus, 2020, 135, 1.	1.2	9
106	Structural and mechanical properties characterization of arsenene nanosheets under doping effect of transition metals: A DFT study. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114349.	1.3	28
107	Quantum effects on the mechanical properties of fine-scale CNTs: an approach based on DFT and molecular mechanics model. European Physical Journal Plus, 2020, 135, 1.	1.2	9
108	Effect of external pressure on the vibration analysis of higher order shear deformable FG-CNTRC spherical panels. Engineering With Computers, 2020, , 1.	3.5	8

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109	Thermal postbuckling analysis of FG-CNTRC plates with various shapes and temperature-dependent properties using the VDQ-FEM technique. <i>Aerospace Science and Technology</i> , 2020, 106, 106078.	2.5	34
110	Nonlinear bending analysis of arbitrary-shaped porous nanocomposite plates using a novel numerical approach. <i>International Journal of Non-Linear Mechanics</i> , 2020, 126, 103556.	1.4	41
111	An atomistic-based finite element progressive fracture model for silicene nanosheets. <i>Acta Mechanica</i> , 2020, 231, 4351-4363.	1.1	2
112	Fracture analysis and tensile properties of perfect and defective carbon nanotubes functionalized with carbene using molecular dynamics simulations. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	10
113	Kinky breather-wave and lump solutions to the $(2\alpha + 1)$ -dimensional Burgers equations. <i>Analysis and Mathematical Physics</i> , 2020, 10, 1.	0.6	3
114	Nano-oscillators based on a C60 fullerene inside open carbon nanocones: a molecular dynamics study. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	2
115	Thermal conductivity of three-dimensional metallic carbon nanostructures (T6) with boron and nitrogen dopant. <i>European Physical Journal D</i> , 2020, 74, 1.	0.6	1
116	A DFT-based finite element approach for studying elastic properties, buckling and vibration of the arsenene. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 101, 107725.	1.3	21
117	Effect of graphene nanosheet dispersion on diffusion-induced stresses in layered sn-based nanocomposite electrode for lithium-ion batteries. <i>Mechanics of Materials</i> , 2020, 145, 103390.	1.7	12
118	A multiscale analysis for free vibration of fuzzy fiber-reinforced nanocomposite conical shells. <i>Thin-Walled Structures</i> , 2020, 153, 106845.	2.7	3
119	Characterizing the mechanical properties and fracture pattern of defective hexagonal boron-nitride sheets with focus on Stone-Wales defect. <i>Superlattices and Microstructures</i> , 2020, 142, 106526.	1.4	5
120	Effect of metallic nanowire encapsulation on the tensile behavior of single-walled carbon nanotubes: a molecular dynamics study. <i>European Physical Journal D</i> , 2020, 74, 1.	0.6	3
121	Optical solitons and modulation instability of the resonant nonlinear Schrödinger equations in $(3\alpha + 1)$ -dimensions. <i>Optik</i> , 2020, 209, 164584.	1.4	21
122	Nonlinear Forced Vibration Analysis of FG Cylindrical Nanopanel Based on Mindlin's Strain Gradient Theory and 3D Elasticity. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2020, 21, 523-537.	0.4	3
123	Structural and mechanical properties of Sb and SbX (X=H, F, Cl and Br) monolayers. <i>Solid State Communications</i> , 2020, 311, 113849.	0.9	25
124	First-principle investigation of the elastic and plastic properties of the bismuthene: Effect of the external electric field. <i>Superlattices and Microstructures</i> , 2020, 140, 106476.	1.4	7
125	Evolutionary behavior of rational wave solutions to the $(4 + 1)$ -dimensional Boiti-Leon-Manna-Pempinelli equation. <i>Physica Scripta</i> , 2020, 95, 065208.	1.2	29
126	Evaluation of the Morse potential function coefficients for germanene by the first principles approach. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 98, 107589.	1.3	7

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127	An Analytical Investigation for Vibration Characteristics of a Beam-Type Liquid Micro-Pump. <i>International Journal of Applied Mechanics</i> , 2020, 12, 2050016.	1.3	3
128	A molecular dynamics study on the buckling behavior of single-walled carbon nanotubes filled with gold nanowires. <i>Journal of Molecular Modeling</i> , 2020, 26, 196.	0.8	6
129	Analyses of Dislocation Effects on Plastic Deformation. <i>Multiscale Science and Engineering</i> , 2020, 2, 69-89.	0.9	8
130	Role of fiber arrangement in the thermal expanding behavior of unidirectional metal matrix composites. <i>Materials Chemistry and Physics</i> , 2020, 252, 123273.	2.0	3
131	An integral nonlocal model for the free vibration analysis of Mindlin nanoplates using the VDQ method. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	15
132	On the isogeometric analysis of geometrically nonlinear shell structures with the consideration of surface energies. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	6
133	Three-dimensional nonlinear primary resonance of functionally graded rectangular small-scale plates based on strain gradient elasticity theory. <i>Thin-Walled Structures</i> , 2020, 150, 106681.	2.7	12
134	Numerical investigation on the buckling and vibration of cracked FG cylindrical panels based on the phase-field formulation. <i>Engineering Fracture Mechanics</i> , 2020, 228, 106895.	2.0	13
135	Evaluation of the elastic and plastic properties of the antimonene at the presence of the external electric field: a DFT investigation. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	3
136	Adsorption analysis and mechanical characteristics of carbon nanotubes under physisorption of biological molecules in an aqueous environment using molecular dynamics simulations. <i>Molecular Simulation</i> , 2020, 46, 388-397.	0.9	6
137	Structural and mechanical properties of pristine and adsorbed puckered arsenene nanostructures: A DFT study. <i>Superlattices and Microstructures</i> , 2020, 139, 106414.	1.4	26
138	Effect of Temperature Change on the Elastic Properties of Al Matrix Reinforced by Single-Walled Carbon Nanotubes. <i>Brazilian Journal of Physics</i> , 2020, 50, 164-177.	0.7	3
139	An open-source computational framework for optimization of laminated composite plates. <i>Acta Mechanica</i> , 2020, 231, 2629-2650.	1.1	8
140	Crack propagation in functionally graded 2D structures: A finite element phase-field study. <i>Thin-Walled Structures</i> , 2020, 151, 106734.	2.7	13
141	Influences of carbon nanotubes in Tin nanocomposite active plate on the diffusion induced stresses and curvature in bilayer lithium-ion battery electrodes. <i>Solid State Ionics</i> , 2020, 349, 115315.	1.3	6
142	Analyzing the effects of interphase on the effective damping properties of aligned carbon nanotube-reinforced epoxy nanocomposites using a micromechanical approach. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020, 234, 910-923.	0.7	0
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