

Mehdi Mohammadimehr

List of Publications by Year in descending order

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67
papers

1,578
citations

257357

24
h-index

360920

35
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67
all docs

67
docs citations

67
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Buckling analysis of laminated composite rectangular plates reinforced by SWCNTs using analytical and finite element methods. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 809-820.	0.7	128
2	Bending, buckling, and free vibration analysis of MSGT microcomposite Reddy plate reinforced by FG-SWCNTs with temperature-dependent material properties under hydro-thermo-mechanical loadings using DQM. <i>Composite Structures</i> , 2016, 138, 361-380.	3.1	58
3	Modified strain gradient Reddy rectangular plate model for biaxial buckling and bending analysis of double-coupled piezoelectric polymeric nanocomposite reinforced by FG-SWNT. <i>Composites Part B: Engineering</i> , 2016, 87, 132-148.	5.9	54
4	Free vibration of viscoelastic double-bonded polymeric nanocomposite plates reinforced by FG-SWCNTs using MSGT, sinusoidal shear deformation theory and meshless method. <i>Composite Structures</i> , 2015, 131, 654-671.	3.1	53
5	Torsional buckling of a DWCNT embedded on winkler and pasternak foundations using nonlocal theory. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1289-1299.	0.7	50
6	Free vibration analysis of sandwich plate with a transversely flexible core and FG-CNTs reinforced nanocomposite face sheets subjected to magnetic field and temperature-dependent material properties using SGT. <i>Composites Part B: Engineering</i> , 2016, 94, 253-270.	5.9	48
7	Size dependent effect on the buckling and vibration analysis of double-bonded nanocomposite piezoelectric plate reinforced by boron nitride nanotube based on modified couple stress theory. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 1790-1807.	1.5	44
8	High-order buckling and free vibration analysis of two types sandwich beam including AL or PVC-foam flexible core and CNTs reinforced nanocomposite face sheets using GDQM. <i>Composites Part B: Engineering</i> , 2017, 108, 91-107.	5.9	40
9	The thermal effect on buckling analysis of a DWCNT embedded on the Pasternak foundation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1642-1648.	1.3	38
10	Vibration analysis of viscoelastic tapered micro-rod based on strain gradient theory resting on visco-pasternak foundation using DQM. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2297-2305.	0.7	38
11	Bending, buckling and vibration analyses of MSGT microcomposite circular-annular sandwich plate under hydro-thermo-magneto-mechanical loadings using DQM. <i>International Journal of Smart and Nano Materials</i> , 2018, 9, 233-260.	2.0	38
12	Free vibration analysis of magneto-electro-elastic cylindrical composite panel reinforced by various distributions of CNTs with considering open and closed circuits boundary conditions based on FSĐT. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1551-1569.	1.5	37
13	Transverse vibration of short carbon nanotubes using cylindrical shell and beam models. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2010, 224, 745-756.	1.1	36
14	Active control of micro Reddy beam integrated with functionally graded nanocomposite sensor and actuator based on linear quadratic regulator method. <i>European Journal of Mechanics, A/Solids</i> , 2019, 74, 449-461.	2.1	36
15	Vibration analysis of non-uniform and non-homogeneous boron nitride nanorods embedded in an elastic medium under combined loadings using DQM. <i>Physica B: Condensed Matter</i> , 2014, 440, 88-98.	1.3	33
16	Effect of different parameters on the tensile properties of printed Polylactic acid samples by FDM: experimental design tested with MDs simulation. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 103-118.	1.5	33
17	Nonlinear vibration analysis of FG-CNTRC sandwich Timoshenko beam based on modified couple stress theory subjected to longitudinal magnetic field using generalized differential quadrature method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 3866-3885.	1.1	31
18	Stability and free vibration analyses of double-bonded micro composite sandwich cylindrical shells conveying fluid flow. <i>Applied Mathematical Modelling</i> , 2017, 47, 685-709.	2.2	30

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19	Free vibration analysis of double-bonded isotropic piezoelectric Timoshenko microbeam based on strain gradient and surface stress elasticity theories under initial stress using differential quadrature method. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 287-303.	1.5	29
20	Electro-thermo-mechanical vibration and stability analyses of double-bonded micro composite sandwich piezoelectric tubes conveying fluid flow. <i>Applied Mathematical Modelling</i> , 2018, 60, 255-272.	2.2	29
21	Stress and free vibration analysis of piezoelectric hollow circular FG-SWBNNTs reinforced nanocomposite plate based on modified couple stress theory subjected to thermo-mechanical loadings. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 3471-3486.	1.5	28
22	Electro-elastic analysis of a sandwich thick plate considering FG core and composite piezoelectric layers on Pasternak foundation using TSDT. <i>Steel and Composite Structures</i> , 2016, 20, 513-543.	1.3	28
23	Bending and vibration analyses of a rotating sandwich cylindrical shell considering nanocomposite core and piezoelectric layers subjected to thermal and magnetic fields. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2018, 39, 219-240.	1.9	27
24	Free and forced vibration analysis of a sandwich beam considering porous core and SMA hybrid composite face layers on Vlasov's foundation. <i>Acta Mechanica</i> , 2020, 231, 3199-3218.	1.1	27
25	Dynamic stability of modified strain gradient theory sinusoidal viscoelastic piezoelectric polymeric functionally graded single-walled carbon nanotubes reinforced nanocomposite plate considering surface stress and agglomeration effects under hydro-thermo-electro-magneto-mechanical loadings. <i>Mechanics of Advanced Materials and Structures</i> , 2017, 24, 1325-1342.	1.5	26
26	Vibration analysis of rotating fully-bonded and delaminated sandwich beam with CNTRC face sheets and AL-foam flexible core in thermal and moisture environments. <i>Mechanics Based Design of Structures and Machines</i> , 2020, 48, 584-614.	3.4	26
27	Electro-thermal non-local vibration analysis of embedded DWBNNTs. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 1410-1422.	1.1	25
28	Design, preparation, and characterization of CS/PVA/SA hydrogels modified with mesoporous Ag ₂ O/SiO ₂ and curcumin nanoparticles for green, biocompatible, and antibacterial biopolymer film. <i>RSC Advances</i> , 2021, 11, 32775-32791.	1.7	25
29	Surface stress and agglomeration effects on nonlocal biaxial buckling polymeric nanocomposite plate reinforced by CNT using various approaches. <i>Advanced Composite Materials</i> , 2016, 25, 423-441.	1.0	24
30	Nonlinear static and vibration analysis of Euler-Bernoulli composite beam model reinforced by FG-SWCNT with initial geometrical imperfection using FEM. <i>Structural Engineering and Mechanics</i> , 2016, 59, 431-454.	1.0	24
31	The effect of CNT volume fraction on the magneto-thermo-electro-mechanical behavior of smart nanocomposite cylinder. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2565-2572.	0.7	22
32	Investigation of the time elapsed effect on residual stress measurement in a composite plate by DIC method. <i>Optics and Lasers in Engineering</i> , 2020, 128, 106002.	2.0	22
33	Analysis of sandwich Timoshenko porous beam with temperature-dependent material properties: Magneto-electro-elastic vibration and buckling solution. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 2875-2893.	1.5	21
34	Free and forced vibration analysis of viscoelastic damped FG-CNT reinforced micro composite beams. <i>Microsystem Technologies</i> , 2020, 26, 3085-3099.	1.2	21
35	Thermal buckling analysis of double-walled carbon nanotubes considering the small-scale length effect. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011, 225, 248-256.	1.1	20
36	Vibration and wave propagation analysis of twisted micro-beam using strain gradient theory. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016, 37, 1375-1392.	1.9	18

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37	Size-dependent effect on biaxial and shear nonlinear buckling analysis of nonlocal isotropic and orthotropic micro-plate based on surface stress and modified couple stress theories using differential quadrature method. Applied Mathematics and Mechanics (English Edition), 2016, 37, 529-554.	1.9	18
38	Free vibration analysis of micro-magneto-electro-elastic cylindrical sandwich panel considering functionally graded carbon nanotube reinforced nanocomposite face sheets, various circuit boundary conditions, and temperature-dependent material properties using high-order sandwich panel theory and modified strain gradient theory. Journal of Intelligent Material Systems and Structures, 2018, 29, 863-882.	1.4	17
39	Forced vibration analysis of nano-composite rotating pressurized microbeam reinforced by CNTs based on MCST with temperature-variable material properties. Theoretical and Applied Mechanics Letters, 2018, 8, 97-108.	1.3	17
40	Free vibration and stability analysis of sandwich pipe by considering porosity and graphene platelet effects on conveying fluid flow. AEJ - Alexandria Engineering Journal, 2021, 60, 1945-1954.	3.4	17
41	Vibration control of rotating sandwich cylindrical shell-reinforced nanocomposite face sheet and porous core integrated with functionally graded magneto-electro-elastic layers. Engineering With Computers, 2022, 38, 87-100.	3.5	17
42	Dynamic stability analysis of microcomposite annular sandwich plate with carbon nanotube reinforced composite facesheets based on modified strain gradient theory. Journal of Sandwich Structures and Materials, 2020, 22, 1199-1234.	2.0	16
43	Study of dynamic stability of the double-walled carbon nanotube under axial loading embedded in an elastic medium by the energy method. Journal of Applied Mechanics and Technical Physics, 2011, 52, 815-824.	0.1	15
44	Buckling analysis of double-walled carbon nanotubes embedded in an elastic medium under axial compression using non-local Timoshenko beam theory. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 498-506.	1.1	14
45	Stress and buckling analysis of a thick-walled micro sandwich panel with a flexible foam core and carbon nanotube reinforced composite (CNTRC) face sheets. Applied Mathematics and Mechanics (English Edition), 2020, 41, 1027-1038.	1.9	14
46	Vibration control of the rotating sandwich cylindrical shell considering functionally graded core and functionally graded magneto-electro-elastic layers by using differential quadrature method. Journal of Sandwich Structures and Materials, 2021, 23, 132-173.	2.0	14
47	The effect of non-local higher order stress to predict the nonlinear vibration behavior of carbon nanotube conveying viscous nanoflow. Physica B: Condensed Matter, 2017, 510, 48-59.	1.3	13
48	Free vibration analysis of honeycomb doubly curved shell integrated with CNT-reinforced piezoelectric layers. Mechanics Based Design of Structures and Machines, 2022, 50, 4409-4440.	3.4	13
49	Analysis of FGM micro cylindrical shell with variable thickness using Cooper Naghdi model: Bending and buckling solutions. Mechanics Research Communications, 2021, 115, 103739.	1.0	12
50	Effects of appearance characteristics on the mechanical properties of defective SWCNTs: using finite element methods and molecular dynamics simulation. European Physical Journal Plus, 2021, 136, 1.	1.2	12
51	Bending, buckling, and forced vibration analyses of nonlocal nanocomposite microplate using TSDT considering MEE properties dependent to various volume fractions of CoFe ₂ O ₄ -BaTiO ₃ . Journal of Theoretical and Applied Mechanics, 0, , 853.	0.2	11
52	Buckling and free vibration analysis of tapered FG- CNTRC micro Reddy beam under longitudinal magnetic field using FEM. Smart Structures and Systems, 2017, 19, 309-322.	1.9	9
53	Nonlinear high-order dynamic stability of AL-foam flexible cored sandwich beam with variable mechanical properties and carbon nanotubes-reinforced composite face sheets in thermal environment. Journal of Sandwich Structures and Materials, 2020, 22, 248-302.	2.0	8
54	Vibration behavior of a micro cylindrical sandwich panel reinforced by graphene platelet. JVC/Journal of Vibration and Control, 2020, 26, 1311-1343.	1.5	8

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55	Vibration control of sandwich plate reinforced nanocomposite face sheet and porous core integrated with sensor and actuator layers using perturbation method. JVC/Journal of Vibration and Control, 2021, 27, 1736-1752.	1.5	8
56	Pasternak effect on the buckling of embedded single-walled carbon nanotubes using non-local cylindrical shell theory. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 3045-3059.	1.1	7
57	Influence of temperature change and humidity condition on free vibration analysis of a nano composite sandwich plate resting on orthotropic Pasternak foundation by considering agglomeration effect. Journal of Sandwich Structures and Materials, 0, , 109963621773511.	2.0	7
58	Dynamic stability and bifurcation analysis of sandwich plate with considering FG core and FG-CNTRC face sheets. Journal of Sandwich Structures and Materials, 2021, 23, 2296-2325.	2.0	7
59	Dynamic stability of the double-bonded annular nanocomposite sandwich microplate on viscoelastic foundation. Journal of Sandwich Structures and Materials, 2022, 24, 385-418.	2.0	7
60	Surface stress effects on the free vibration and bending analysis of the nonlocal single-layer graphene sheet embedded in an elastic medium using energy method. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2016, 230, 148-160.	0.5	5
61	Effects of residual stress and viscous and hysteretic dampings on the stability of a spinning micro-shaft. Applied Mathematics and Mechanics (English Edition), 2020, 41, 1251-1268.	1.9	5
62	Magneto-mechanical vibration analysis of single-/three-layered micro-Timoshenko porous beam and graphene platelet as reinforcement based on modified strain gradient theory and differential quadrature method. JVC/Journal of Vibration and Control, 2021, 27, 1842-1859.	1.5	5
63	Vibration analysis of a micro-cylindrical sandwich panel with reinforced shape-memory alloys face sheets and porous core. European Physical Journal Plus, 2021, 136, 1.	1.2	5
64	Nonlinear magneto-electro-mechanical vibration analysis of double-bonded sandwich Timoshenko microbeams based on MSGT using GDQM. Steel and Composite Structures, 2016, 21, 1-36.	1.3	5
65	Nonlinear vibration analysis of MSGT boron-nitride micro ribbon based mass sensor using DQEM. Smart Structures and Systems, 2016, 18, 1029-1062.	1.9	3
66	On the free vibration behavior of Timoshenko sandwich beam model with honeycomb core and nano-composite face sheet layers integrated by sensor and actuator layers. European Physical Journal Plus, 2022, 137, .	1.2	2
67	The elliptic phenomenon effect of cross section on the torsional buckling of a nanocomposite beam reinforced by a single-walled carbon nanotube. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2016, 230, 55-67.	0.5	0