

# 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  
g-index

67  
all docs

67  
docs citations

67  
times ranked

750  
citing authors

#	ARTICLE	IF	CITATIONS
1	Free vibration analysis of honeycomb doubly curved shell integrated with CNT-reinforced piezoelectric layers. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 4409-4440.	3.4	13
2	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
3	Dynamic stability of the double-bonded annular nanocomposite sandwich microplate on viscoelastic foundation. <i>Journal of Sandwich Structures and Materials</i> , 2022, 24, 385-418.	2.0	7
4	Vibration control of rotating sandwich cylindrical shell-reinforced nanocomposite face sheet and porous core integrated with functionally graded magneto-electro-elastic layers. <i>Engineering With Computers</i> , 2022, 38, 87-100.	3.5	17
5	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. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	2
6	Dynamic stability and bifurcation analysis of sandwich plate with considering FG core and FG-CNTRC face sheets. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 2296-2325.	2.0	7
7	Vibration control of the rotating sandwich cylindrical shell considering functionally graded core and functionally graded magneto-electro-elastic layers by using differential quadrature method. <i>Journal of Sandwich Structures and Materials</i> , 2021, 23, 132-173.	2.0	14
8	Vibration control of sandwich plateâ€“reinforced nanocomposite face sheet and porous core integrated with sensor and actuator layers using perturbation method. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 1736-1752.	1.5	8
9	Free vibration and stability analysis of sandwich pipe by considering porosity and graphene platelet effects on conveying fluid flow. <i>A EJ - Alexandria Engineering Journal</i> , 2021, 60, 1945-1954.	3.4	17
10	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. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 1842-1859.	1.5	5
11	Analysis of FGM micro cylindrical shell with variable thickness using Cooper Naghdi model: Bending and buckling solutions. <i>Mechanics Research Communications</i> , 2021, 115, 103739.	1.0	12
12	Vibration analysis of a micro-cylindrical sandwich panel with reinforced shape-memory alloys face sheets and porous core. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	5
13	Effects of appearance characteristics on the mechanical properties of defective SWCNTs: using finite element methods and molecular dynamics simulation. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	12
14	Design, preparation, and characterization of CS/PVA/SA hydrogels modified with mesoporous Ag <sub>2</sub> O/SiO <sub>2</sub> and curcumin nanoparticles for green, biocompatible, and antibacterial biopolymer film. <i>RSC Advances</i> , 2021, 11, 32775-32791.	1.7	25
15	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
16	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. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 248-302.	2.0	8
17	Dynamic stability analysis of microcomposite annular sandwich plate with carbon nanotube reinforced composite facesheets based on modified strain gradient theory. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 1199-1234.	2.0	16
18	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

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19	Effects of residual stress and viscous and hysteretic dampings on the stability of a spinning micro-shaft. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 1251-1268.	1.9	5
20	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
21	Stress and buckling analysis of a thick-walled micro sandwich panel with a flexible foam core and carbon nanotube reinforced composite (CNTRC) face sheets. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 1027-1038.	1.9	14
22	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
23	Vibration behavior of a micro cylindrical sandwich panel reinforced by graphene platelet. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1311-1343.	1.5	8
24	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
25	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
26	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
27	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
28	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 FSDT. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1551-1569.	1.5	37
29	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
30	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
31	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. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 862-882.	1.4	17
32	Forced vibration analysis of nano-composite rotating pressurized microbeam reinforced by CNTs based on MCST with temperature-variable material properties. <i>Theoretical and Applied Mechanics Letters</i> , 2018, 8, 97-108.	1.3	17
33	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
34	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
35	The effect of non-local higher order stress to predict the nonlinear vibration behavior of carbon nanotube conveying viscous nanoflow. <i>Physica B: Condensed Matter</i> , 2017, 510, 48-59.	1.3	13
36	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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37	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. Composites Part B: Engineering, 2017, 108, 91-107.	5.9	40
38	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. Mechanics of Advanced Materials and Structures, 2017, 24, 1325-1342.	1.5	26
39	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
40	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. JVC/Journal of Vibration and Control, 2016, 22, 1790-1807.	1.5	44
41	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
42	Vibration and wave propagation analysis of twisted micro-beam using strain gradient theory. Applied Mathematics and Mechanics (English Edition), 2016, 37, 1375-1392.	1.9	18
43	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
44	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. Composite Structures, 2016, 138, 361-380.	3.1	58
45	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. Composites Part B: Engineering, 2016, 94, 253-270.	5.9	48
46	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
47	Modified strain gradient Reddy rectangular plate model for biaxial buckling and bending analysis of double-coupled piezoelectric polymeric nanocomposite reinforced by FG-SWNT. Composites Part B: Engineering, 2016, 87, 132-148.	5.9	54
48	Surface stress and agglomeration effects on nonlocal biaxial buckling polymeric nanocomposite plate reinforced by CNT using various approaches. Advanced Composite Materials, 2016, 25, 423-441.	1.0	24
49	Electro-elastic analysis of a sandwich thick plate considering FG core and composite piezoelectric layers on Pasternak foundation using TSDT. Steel and Composite Structures, 2016, 20, 513-543.	1.3	28
50	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
51	Nonlinear static and vibration analysis of Euler-Bernoulli composite beam model reinforced by FG-SWCNT with initial geometrical imperfection using FEM. Structural Engineering and Mechanics, 2016, 59, 431-454.	1.0	24
52	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
53	Free vibration of viscoelastic double-bonded polymeric nanocomposite plates reinforced by FG-SWCNTs using MSGT, sinusoidal shear deformation theory and meshless method. Composite Structures, 2015, 131, 654-671.	3.1	53
54	Vibration analysis of viscoelastic tapered micro-rod based on strain gradient theory resting on visco-pasternak foundation using DQM. Journal of Mechanical Science and Technology, 2015, 29, 2297-2305.	0.7	38

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55	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
56	Electro-thermal non-local vibration analysis of embedded DWBNNs. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 1410-1422.	1.1	25
57	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
58	Pasternak effect on the buckling of embedded single-walled carbon nanotubes using non-local cylindrical shell theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011, 225, 3045-3059.	1.1	7
59	Study of dynamic stability of the double-walled carbon nanotube under axial loading embedded in an elastic medium by the energy method. <i>Journal of Applied Mechanics and Technical Physics</i> , 2011, 52, 815-824.	0.1	15
60	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
61	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
62	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
63	Buckling analysis of double-walled carbon nanotubes embedded in an elastic medium under axial compression using non-local Timoshenko beam theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011, 225, 498-506.	1.1	14
64	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
65	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
66	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. <i>Journal of Sandwich Structures and Materials</i> , 0, , 109963621773511.	2.0	7
67	Bending, buckling, and forced vibration analyses of nonlocal nanocomposite microplate using TSDT considering MEE properties dependent to various volume fractions of CoFe <sub>2</sub> O <sub>4</sub> -BaTiO <sub>3</sub> . <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 853.	0.2	11