

# Reza Kolahchi

## List of Publications by Year in descending order

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85  
papers

2,774  
citations

136885

32  
h-index

214721

47  
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86  
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86  
docs citations

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times ranked

898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic stability analysis of temperature-dependent functionally graded CNT-reinforced visco-plates resting on orthotropic elastomeric medium. <i>Composite Structures</i> , 2016, 150, 255-265.	3.1	136
2	A comparative study on the bending, vibration and buckling of viscoelastic sandwich nano-plates based on different nonlocal theories using DC, HDQ and DQ methods. <i>Aerospace Science and Technology</i> , 2017, 66, 235-248.	2.5	121
3	Wave propagation of embedded viscoelastic FG-CNT-reinforced sandwich plates integrated with sensor and actuator based on refined zigzag theory. <i>International Journal of Mechanical Sciences</i> , 2017, 130, 534-545.	3.6	105
4	Visco-nonlocal-refined Zigzag theories for dynamic buckling of laminated nanoplates using differential cubature-Bolotin methods. <i>Thin-Walled Structures</i> , 2017, 113, 162-169.	2.7	79
5	Differential cubature and quadrature-Bolotin methods for dynamic stability of embedded piezoelectric nanoplates based on visco-nonlocal-piezoelasticity theories. <i>Composite Structures</i> , 2016, 157, 174-186.	3.1	77
6	Dynamic response of auxetic honeycomb plates integrated with agglomerated CNT-reinforced face sheets subjected to blast load based on visco-sinusoidal theory. <i>International Journal of Mechanical Sciences</i> , 2019, 153-154, 391-401.	3.6	75
7	Nonlocal vibration of coupled DLGS systems embedded on Visco-Pasternak foundation. <i>Physica B: Condensed Matter</i> , 2012, 407, 4123-4131.	1.3	71
8	Wave propagation and vibration responses in porous smart nanocomposite sandwich beam resting on Kerr foundation considering structural damping. <i>Thin-Walled Structures</i> , 2020, 154, 106820.	2.7	68
9	Nonlinear vibration of a nanobeam elastically bonded with a piezoelectric nanobeam via strain gradient theory. <i>International Journal of Mechanical Sciences</i> , 2015, 100, 32-40.	3.6	65
10	Buckling analysis and smart control of SLGS using elastically coupled PVDF nanoplate based on the nonlocal Mindlin plate theory. <i>Physica B: Condensed Matter</i> , 2012, 407, 4458-4465.	1.3	58
11	Size-dependent sinusoidal beam model for dynamic instability of single-walled carbon nanotubes. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016, 37, 265-274.	1.9	55
12	Dynamic stability control of viscoelastic nanocomposite piezoelectric sandwich beams resting on Kerr foundation based on exponential piezoelasticity theory. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104169.	2.1	54
13	Electro-thermo-mechanical torsional buckling of a piezoelectric polymeric cylindrical shell reinforced by DWBNNTs with an elastic core. <i>Applied Mathematical Modelling</i> , 2012, 36, 2983-2995.	2.2	52
14	Effect of material in-homogeneity on electro-thermo-mechanical behaviors of functionally graded piezoelectric rotating shaft. <i>Applied Mathematical Modelling</i> , 2011, 35, 2771-2789.	2.2	51
15	Visco-surface-nonlocal piezoelasticity effects on nonlinear dynamic stability of graphene sheets integrated with ZnO sensors and actuators using refined zigzag theory. <i>Composite Structures</i> , 2015, 132, 506-526.	3.1	51
16	Nonlocal viscoelasticity based vibration of double viscoelastic piezoelectric nanobeam systems. <i>Meccanica</i> , 2016, 51, 25-40.	1.2	50
17	Smart control and vibration of viscoelastic actuator-multiphase nanocomposite conical shells-sensor considering hygrothermal load based on layerwise theory. <i>Aerospace Science and Technology</i> , 2018, 78, 260-270.	2.5	50
18	Dynamic buckling optimization of laminated aircraft conical shells with hybrid nanocomposite material. <i>Aerospace Science and Technology</i> , 2020, 98, 105656.	2.5	50

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19	Dynamic buckling of magnetorheological fluid integrated by visco-piezo-GPL reinforced plates. <i>International Journal of Mechanical Sciences</i> , 2018, 144, 788-799.	3.6	49
20	Dynamic stability response of truncated nanocomposite conical shell with magnetostrictive face sheets utilizing higher order theory of sandwich panels. <i>European Journal of Mechanics, A/Solids</i> , 2020, 82, 104010.	2.1	49
21	Predicting load capacity of shear walls using SVR-RSM model. <i>Applied Soft Computing Journal</i> , 2021, 112, 107739.	4.1	48
22	Earthquake induced dynamic deflection of submerged viscoelastic cylindrical shell reinforced by agglomerated CNTs considering thermal and moisture effects. <i>Composite Structures</i> , 2018, 187, 498-508.	3.1	47
23	Application of differential cubature method for nonlocal vibration, buckling and bending response of annular nanoplates integrated by piezoelectric layers based on surface-higher order nonlocal-piezoelectricity theory. <i>Journal of Computational and Applied Mathematics</i> , 2020, 369, 112625.	1.1	47
24	Elastic foundation effect on nonlinear thermo-vibration of embedded double-layered orthotropic graphene sheets using differential quadrature method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013, 227, 862-879.	1.1	46
25	Nonlocal piezoelectricity based wave propagation of bonded double-piezoelectric nanobeam-systems. <i>International Journal of Mechanics and Materials in Design</i> , 2014, 10, 179-191.	1.7	46
26	A new numerical approach and visco-refined zigzag theory for blast analysis of auxetic honeycomb plates integrated by multiphase nanocomposite facesheets in hygrothermal environment. <i>Engineering With Computers</i> , 2019, 35, 1141-1157.	3.5	46
27	Dynamic deflection and contact force histories of graphene platelets reinforced conical shell integrated with magnetostrictive layers subjected to low-velocity impact. <i>Thin-Walled Structures</i> , 2021, 163, 107706.	2.7	46
28	Multiphase nanocomposite viscoelastic laminated conical shells subjected to magneto-hygrothermal loads: Dynamic buckling analysis. <i>International Journal of Mechanical Sciences</i> , 2018, 137, 205-213.	3.6	43
29	A numerical method for magneto-hygro-thermal dynamic stability analysis of defective quadrilateral graphene sheets using higher order nonlocal strain gradient theory with different movable boundary conditions. <i>Applied Mathematical Modelling</i> , 2021, 91, 458-475.	2.2	42
30	Nonlinear vibration and instability of embedded double-walled boron nitride nanotubes based on nonlocal cylindrical shell theory. <i>Applied Mathematical Modelling</i> , 2013, 37, 7685-7707.	2.2	41
31	A nonlocal nonlinear analysis for buckling in embedded FG-SWCNT-reinforced microplates subjected to magnetic field. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 3669-3677.	0.7	38
32	Higher order nonlocal viscoelastic strain gradient theory for dynamic buckling analysis of carbon nanocones. <i>Aerospace Science and Technology</i> , 2020, 107, 106259.	2.5	36
33	Seismic response of functionally graded-carbon nanotubes-reinforced submerged viscoelastic cylindrical shell in hygrothermal environment. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 102, 101-109.	1.3	34
34	Influences of fiber reinforced polymer layer on the dynamic deflection of concrete pipes containing nanoparticle subjected to earthquake load. <i>Polymer Composites</i> , 2021, 42, 4073-4081.	2.3	34
35	Nonlocal wave propagation in an embedded DWBNNT conveying fluid via strain gradient theory. <i>Physica B: Condensed Matter</i> , 2012, 407, 4281-4286.	1.3	32
36	Electro-thermo-mechanical behaviors of FGPM spheres using analytical method and ANSYS software. <i>Applied Mathematical Modelling</i> , 2012, 36, 139-157.	2.2	32

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37	Nonlinear vibration of embedded smart composite microtube conveying fluid based on modified couple stress theory. <i>Polymer Composites</i> , 2015, 36, 1314-1324.	2.3	31
38	Dynamic buckling of sensor/functionally graded-carbon nanotube-reinforced laminated plates/actuator based on sinusoidal-visco-piezoelasticity theories. <i>Journal of Sandwich Structures and Materials</i> , 0, , 109963621772037.	2.0	30
39	Optimization of dynamic buckling for sandwich nanocomposite plates with sensor and actuator layer based on sinusoidal-visco-piezoelasticity theories using Grey Wolf algorithm. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 3-27.	2.0	30
40	Optimization of dynamic properties for laminated multiphase nanocomposite sandwich conical shell in thermal and magnetic conditions. <i>Journal of Sandwich Structures and Materials</i> , 2022, 24, 643-662.	2.0	30
41	Energy absorption and vibration of smart auxetic FG porous curved conical panels resting on the frictional viscoelastic torsional substrate. <i>Mechanical Systems and Signal Processing</i> , 2022, 178, 109269.	4.4	29
42	Nonlinear surface and nonlocal piezoelasticity theories for vibration of embedded single-layer boron nitride sheet using harmonic differential quadrature and differential cubature methods. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1150-1163.	1.4	27
43	Agglomeration effects on the dynamic buckling of viscoelastic microplates reinforced with SWCNTs using Bolotin method. <i>Nonlinear Dynamics</i> , 2017, 90, 479-492.	2.7	27
44	Dynamic instability of nanocomposite piezoelectric-leptadenia pyrotechnica rheological elastomer-porous functionally graded materials micro viscoelastic beams at various strain gradient higher-order theories. <i>Polymer Composites</i> , 2022, 43, 282-298.	2.3	27
45	On wave propagation in piezoelectric-auxetic honeycomb-2D-FGM micro-sandwich beams based on modified couple stress and refined zigzag theories. <i>Waves in Random and Complex Media</i> , 0, , 1-25.	1.6	27
46	Nonlinear vibration analysis of viscoelastic micro nano-composite sandwich plates integrated with sensor and actuator. <i>Microsystem Technologies</i> , 2017, 23, 1509-1535.	1.2	24
47	Buckling analysis of embedded concrete columns armed with carbon nanotubes. <i>Computers and Concrete</i> , 2016, 17, 567-578.	0.7	24
48	Dynamic analysis in beam element of wave-piercing Catamarans undergoing slamming load based on mathematical modelling. <i>Ocean Engineering</i> , 2021, 234, 109269.	1.9	23
49	Semi-analytical solution of time-dependent electro-thermo-mechanical creep for radially polarized piezoelectric cylinder. <i>Computers and Structures</i> , 2011, 89, 1494-1502.	2.4	22
50	Non-local wave propagation in embedded armchair TWBNNTs conveying viscous fluid using DQM. <i>Physica B: Condensed Matter</i> , 2013, 418, 1-15.	1.3	21
51	Seismic response of underwater fluid-conveying concrete pipes reinforced with SiO <sub>2</sub> nanoparticles and fiber reinforced polymer (FRP) layer. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 103, 76-85.	1.9	21
52	Dynamic buckling of polymer-carbon nanotube-fiber multiphase nanocomposite viscoelastic laminated conical shells in hygrothermal environments. <i>Journal of Sandwich Structures and Materials</i> , 0, , 109963621774328.	2.0	21
53	A numerical method for magneto-hygro-thermal postbuckling analysis of defective quadrilateral graphene sheets using higher order nonlocal strain gradient theory with different movable boundary conditions. <i>Computers and Mathematics With Applications</i> , 2019, 78, 2018-2034.	1.4	21
54	Application of differential quadrature and Newmark methods for dynamic response in pad concrete foundation covered by piezoelectric layer. <i>Journal of Computational and Applied Mathematics</i> , 2021, 382, 113075.	1.1	21

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55	Fuzzy reliability analysis of nanocomposite ZnO beams using hybrid analytical-intelligent method. <i>Engineering With Computers</i> , 2021, 37, 2575-2590.	3.5	19
56	Size-dependent bending analysis of FGM nano-sinusoidal plates resting on orthotropic elastic medium. <i>Structural Engineering and Mechanics</i> , 2015, 55, 1001-1014.	1.0	19
57	Analytical solution for buckling of embedded laminated plates based on higher order shear deformation plate theory. <i>Steel and Composite Structures</i> , 2016, 21, 883-919.	1.3	17
58	Agglomeration effects on the buckling behaviour of embedded concrete columns reinforced with SiO <sub>2</sub> nano-particles. <i>Wind and Structures, an International Journal</i> , 2017, 24, 43-57.	0.8	17
59	Seismic response of underwater concrete pipes conveying fluid covered with nano-fiber reinforced polymer layer. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 110, 18-27.	1.9	16
60	Nonlinear nonlocal pull-in instability of boron nitride nanoswitches. <i>Acta Mechanica</i> , 2013, 224, 3005-3019.	1.1	14
61	NONLINEAR STRAIN GRADIENT THEORY BASED VIBRATION AND INSTABILITY OF BORON NITRIDE MICRO-TUBES CONVEYING FERROFLUID. <i>International Journal of Applied Mechanics</i> , 2014, 06, 1450060.	1.3	13
62	Visco-piezoelectricity-zigzag theories for blast response of porous beams covered by graphene platelet-reinforced piezoelectric layers. <i>Journal of Sandwich Structures and Materials</i> , 0, , 109963621983917.	2.0	13
63	Forced vibration analysis of concrete slabs reinforced by agglomerated SiO <sub>2</sub> nanoparticles based on numerical methods. <i>Construction and Building Materials</i> , 2019, 211, 796-806.	3.2	13
64	Buckling of concrete columns retrofitted with Nano-Fiber Reinforced Polymer (NFRP). <i>Computers and Concrete</i> , 2016, 18, 1053-1063.	0.7	13
65	Pulsating fluid induced dynamic instability of visco-double-walled carbon nano-tubes based on sinusoidal strain gradient theory using DQM and Bolotin method. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 17-38.	1.7	12
66	Nonlinear vibration analysis of piezoelectric plates reinforced with carbon nanotubes using DQM. <i>Smart Structures and Systems</i> , 2016, 18, 787-800.	1.9	12
67	Dynamic analysis of non-homogeneous concrete blocks mixed by SiO <sub>2</sub> nanoparticles subjected to blast load experimentally and theoretically. <i>Construction and Building Materials</i> , 2018, 174, 633-644.	3.2	11
68	The effect of time-dependent creep on electro-thermo-mechanical behaviors of piezoelectric sphere using Mendelson's method. <i>European Journal of Mechanics, A/Solids</i> , 2013, 37, 318-328.	2.1	10
69	An experimental study and new correlations of viscosity of ethylene glycol-water based nanofluid at various temperatures and different solid concentrations. <i>Structural Engineering and Mechanics</i> , 2016, 58, 93-102.	1.0	10
70	Dynamic buckling of FGM viscoelastic nano-plates resting on orthotropic elastic medium based on sinusoidal shear deformation theory. <i>Structural Engineering and Mechanics</i> , 2016, 60, 489-505.	1.0	9
71	Vibration analysis of nanocomposite microplates integrated with sensor and actuator layers using surface SSDPT. <i>Polymer Composites</i> , 2018, 39, 1936-1949.	2.3	8
72	Exact solution for transverse bending analysis of embedded laminated Mindlin plate. <i>Structural Engineering and Mechanics</i> , 2014, 49, 661-672.	1.0	8

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73	Nonlinear vibration and instability of embedded double-walled carbon nanocones based on nonlocal Timoshenko beam theory. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 690-702.	1.1	7
74	Dynamic Stability Analysis in Hybrid Nanocomposite Polymer Beams Reinforced by Carbon Fibers and Carbon Nanotubes. Polymers, 2021, 13, 106.	2.0	7
75	Analytical modeling of wave propagation in viscoelastic functionally graded carbon nanotubes reinforced piezoelectric microplate under electro-magnetic field. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2017, 231, 17-33.	0.5	6
76	Non-Newtonian pulsating blood flow-induced dynamic instability of visco-carotid artery within soft surrounding visco-tissue using differential cubature method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 3002-3012.	1.1	5
77	Buckling analysis of nanocomposite cut out plate using domain decomposition method and orthogonal polynomials. Steel and Composite Structures, 2016, 22, 691-712.	1.3	5
78	Nanotechnology, smartness and orthotropic nonhomogeneous elastic medium effects on buckling of piezoelectric pipes. Structural Engineering and Mechanics, 2016, 58, 931-947.	1.0	5
79	Nonlocal Timoshenko beam model for dynamic stability of double-walled boron nitride nanotubes conveying nanoflow. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2015, 229, 2-16.	0.1	4
80	Concrete columns reinforced with Zinc Oxide nanoparticles subjected to electric field: buckling analysis. Wind and Structures, an International Journal, 2017, 24, 431-446.	0.8	4
81	Wave propagation behavior of coupled viscoelastic FG-CNTRPC micro plates subjected to electro-magnetic fields surrounded by orthotropic visco-Pasternak foundation. Microsystem Technologies, 2017, 23, 3791-3816.	1.2	3
82	Concrete Pipes Reinforced with AL2O3 Nanoparticles Considering Agglomeration: Magneto-Thermo-Mechanical Stress Analysis. International Journal of Civil Engineering, 2018, 16, 315-322.	0.9	3
83	Successive approximation method for time-dependent creep modeling of functionally graded piezoelectric cylinder. Turkish Journal of Engineering and Environmental Sciences, 2014, 38, 309-322.	0.1	2
84	Wave propagation of magnetic nanofluid-conveying double-walled carbon nanotubes in the presence of longitudinal magnetic field. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2014, 228, 82-92.	0.1	2
85	Reliability Analysis of Composite-Nanofluid Tube Using Finite-Based Armijo Method. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, .	1.1	1