

Reza Kolahchi

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Fuzzy reliability analysis of nanocomposite ZnO beams using hybrid analytical-intelligent method. <i>Engineering With Computers</i> , 2021, 37, 2575-2590. | 3.5 | 19 |
| 5 | 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 |
| 6 | Dynamic stability control of viscoelastic nanocomposite piezoelectric sandwich beams resting on Kerr foundation based on exponential piezoelectricity theory. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104169. | 2.1 | 54 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Predicting load capacity of shear walls using SVR-RSM model. <i>Applied Soft Computing Journal</i> , 2021, 112, 107739. | 4.1 | 48 |
| 12 | Reliability Analysis of Composite-Nanofluid Tube Using Finite-Based Armijo Method. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021, 7, . | 1.1 | 1 |
| 13 | Dynamic Stability Analysis in Hybrid Nanocomposite Polymer Beams Reinforced by Carbon Fibers and Carbon Nanotubes. <i>Polymers</i> , 2021, 13, 106. | 2.0 | 7 |
| 14 | Optimization of dynamic buckling for sandwich nanocomposite plates with sensor and actuator layer based on sinusoidal-visco-piezoelectricity theories using Grey Wolf algorithm. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 3-27. | 2.0 | 30 |
| 15 | Dynamic buckling optimization of laminated aircraft conical shells with hybrid nanocomposite material. <i>Aerospace Science and Technology</i> , 2020, 98, 105656. | 2.5 | 50 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Forced vibration analysis of concrete slabs reinforced by agglomerated SiO ₂ nanoparticles based on numerical methods. <i>Construction and Building Materials</i> , 2019, 211, 796-806. | 3.2 | 13 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Concrete Pipes Reinforced with AL ₂ O ₃ Nanoparticles Considering Agglomeration: Magneto-Thermo-Mechanical Stress Analysis. <i>International Journal of Civil Engineering</i> , 2018, 16, 315-322. | 0.9 | 3 |
| 30 | 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 |
| 31 | 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 |
| 32 | Dynamic analysis of non-homogeneous concrete blocks mixed by SiO ₂ nanoparticles subjected to blast load experimentally and theoretically. <i>Construction and Building Materials</i> , 2018, 174, 633-644. | 3.2 | 11 |
| 33 | Analytical modeling of wave propagation in viscoelastic functionally graded carbon nanotubes reinforced piezoelectric microplate under electro-magnetic field. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems</i> , 2017, 231, 17-33. | 0.5 | 6 |
| 34 | 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 |
| 35 | 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 |
| 36 | Wave propagation behavior of coupled viscoelastic FG-CNTRPC micro plates subjected to electro-magnetic fields surrounded by orthotropic visco-Pasternak foundation. <i>Microsystem Technologies</i> , 2017, 23, 3791-3816. | 1.2 | 3 |

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| 37 | Seismic response of underwater fluid-conveying concrete pipes reinforced with SiO ₂ nanoparticles and fiber reinforced polymer (FRP) layer. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 103, 76-85. | 1.9 | 21 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Agglomeration effects on the buckling behaviour of embedded concrete columns reinforced with SiO ₂ nano-particles. <i>Wind and Structures, an International Journal</i> , 2017, 24, 43-57. | 0.8 | 17 |
| 42 | Concrete columns reinforced with Zinc Oxide nanoparticles subjected to electric field: buckling analysis. <i>Wind and Structures, an International Journal</i> , 2017, 24, 431-446. | 0.8 | 4 |
| 43 | 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 |
| 44 | Differential cubature and quadrature-Bolotin methods for dynamic stability of embedded piezoelectric nanoplates based on visco-nonlocal-piezoelectricity theories. <i>Composite Structures</i> , 2016, 157, 174-186. | 3.1 | 77 |
| 45 | 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 |
| 46 | 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 |
| 47 | Nonlocal viscoelasticity based vibration of double viscoelastic piezoelectric nanobeam systems. <i>Meccanica</i> , 2016, 51, 25-40. | 1.2 | 50 |
| 48 | Buckling analysis of embedded concrete columns armed with carbon nanotubes. <i>Computers and Concrete</i> , 2016, 17, 567-578. | 0.7 | 24 |
| 49 | Buckling of concrete columns retrofitted with Nano-Fiber Reinforced Polymer (NFRP). <i>Computers and Concrete</i> , 2016, 18, 1053-1063. | 0.7 | 13 |
| 50 | 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 |
| 51 | Buckling analysis of nanocomposite cut out plate using domain decomposition method and orthogonal polynomials. <i>Steel and Composite Structures</i> , 2016, 22, 691-712. | 1.3 | 5 |
| 52 | 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 |
| 53 | Nanotechnology, smartness and orthotropic nonhomogeneous elastic medium effects on buckling of piezoelectric pipes. <i>Structural Engineering and Mechanics</i> , 2016, 58, 931-947. | 1.0 | 5 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Visco-surface-nonlocal piezoelectricity 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 |
| 58 | Non-Newtonian pulsating blood flow-induced dynamic instability of visco-carotid artery within soft surrounding visco-tissue using differential cubature method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 3002-3012. | 1.1 | 5 |
| 59 | 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 |
| 60 | Nonlocal Timoshenko beam model for dynamic stability of double-walled boron nitride nanotubes conveying nanoflow. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2015, 229, 2-16. | 0.1 | 4 |
| 61 | 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 |
| 62 | Nonlinear surface and nonlocal piezoelectricity 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 |
| 63 | 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 |
| 64 | Successive approximation method for time-dependent creep modeling of functionally graded piezoelectric cylinder. <i>Turkish Journal of Engineering and Environmental Sciences</i> , 2014, 38, 309-322. | 0.1 | 2 |
| 65 | 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 |
| 66 | Nonlinear vibration and instability of embedded double-walled carbon nanocones based on nonlocal Timoshenko beam theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 690-702. | 1.1 | 7 |
| 67 | Wave propagation of magnetic nanofluid-conveying double-walled carbon nanotubes in the presence of longitudinal magnetic field. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2014, 228, 82-92. | 0.1 | 2 |
| 68 | 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 |
| 69 | Exact solution for transverse bending analysis of embedded laminated Mindlin plate. <i>Structural Engineering and Mechanics</i> , 2014, 49, 661-672. | 1.0 | 8 |
| 70 | Nonlinear nonlocal pull-in instability of boron nitride nanoswitches. <i>Acta Mechanica</i> , 2013, 224, 3005-3019. | 1.1 | 14 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | Elastic foundation effect on nonlinear thermo-vibration of embedded double-layered orthotropic graphene sheets using differential quadrature method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 862-879. | 1.1 | 46 |
| 74 | Nonlinear vibration and instability of embedded double-walled boron nitride nanotubes based on nonlocal cylindrical shell theory. Applied Mathematical Modelling, 2013, 37, 7685-7707. | 2.2 | 41 |
| 75 | Buckling analysis and smart control of SLGS using elastically coupled PVDF nanoplate based on the nonlocal Mindlin plate theory. Physica B: Condensed Matter, 2012, 407, 4458-4465. | 1.3 | 58 |
| 76 | Nonlocal wave propagation in an embedded DWBNT conveying fluid via strain gradient theory. Physica B: Condensed Matter, 2012, 407, 4281-4286. | 1.3 | 32 |
| 77 | Nonlocal vibration of coupled DLGS systems embedded on Visco-Pasternak foundation. Physica B: Condensed Matter, 2012, 407, 4123-4131. | 1.3 | 71 |
| 78 | Electro-thermo-mechanical behaviors of FGPM spheres using analytical method and ANSYS software. Applied Mathematical Modelling, 2012, 36, 139-157. | 2.2 | 32 |
| 79 | Electro-thermo-mechanical torsional buckling of a piezoelectric polymeric cylindrical shell reinforced by DWBNTs with an elastic core. Applied Mathematical Modelling, 2012, 36, 2983-2995. | 2.2 | 52 |
| 80 | Semi-analytical solution of time-dependent electro-thermo-mechanical creep for radially polarized piezoelectric cylinder. Computers and Structures, 2011, 89, 1494-1502. | 2.4 | 22 |
| 81 | Effect of material in-homogeneity on electro-thermo-mechanical behaviors of functionally graded piezoelectric rotating shaft. Applied Mathematical Modelling, 2011, 35, 2771-2789. | 2.2 | 51 |
| 82 | Dynamic buckling of sensor/functionally graded-carbon nanotube-reinforced laminated plates/actuator based on sinusoidal-visco-piezoelasticity theories. Journal of Sandwich Structures and Materials, 0, , 109963621772037. | 2.0 | 30 |
| 83 | Dynamic buckling of polymer-carbon nanotube-fiber multiphase nanocomposite viscoelastic laminated conical shells in hygrothermal environments. Journal of Sandwich Structures and Materials, 0, , 109963621774328. | 2.0 | 21 |
| 84 | Visco-piezoelasticity-zigzag theories for blast response of porous beams covered by graphene platelet-reinforced piezoelectric layers. Journal of Sandwich Structures and Materials, 0, , 109963621983917. | 2.0 | 13 |
| 85 | On wave propagation in piezoelectric-auxetic honeycomb-2D-FGM micro-sandwich beams based on modified couple stress and refined zigzag theories. Waves in Random and Complex Media, 0, , 1-25. | 1.6 | 27 |