# Romesh Batra

List of Publications by Year
in descending order

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| 354 | 14,978 | 20036 | 32181 |
|---|---|---|---|
| papers | citations | 63 | 105 |
| | | h-index | g-index |

| 361 | 361 | 361 | 6213 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analysis of radial expansion, eversion, and cavitation of soft functionally graded material spheres. Mathematics and Mechanics of Solids, 2023, 28, 208-228. | 1.5 | 1 |
| 2 | Fracture toughness of single layer boronitrene sheet using MD simulations. Computational Materials Science, 2022, 203, 111150. | 1.4 | 0 |
| 3 | Finite element method based micromechanical methodology for homogenizing fiber/fabrics-reinforced composites and their progressive failure. Composite Structures, 2022, 286, 115279. | 3.1 | 3 |
| 4 | First failure load of sandwich beams under transient loading using a spaceâ€“time coupled finite element method. Thin-Walled Structures, 2022, 173, 108960. | 2.7 | 4 |
| 5 | Robust model reference adaptive controller for atmospheric plasma spray process. SN Applied Sciences, 2022, 4, 1. | 1.5 | 2 |
| 6 | Analysis of Stiction in Nanoelectromechanical Systems Using Molecular Dynamics Simulations and Continuum Theory. Journal of Elasticity, 2022, 151, 143-157. | 0.9 | 1 |
| 7 | Optimization of blast mitigating sandwich structures with fiber-reinforced face sheets and PVC foam layers as core. Thin-Walled Structures, 2022, 179, 109721. | 2.7 | 11 |
| 8 | Misuse of Eringen's nonlocal elasticity theory for functionally graded materials. International Journal of Engineering Science, 2021, 159, 103425. | 2.7 | 19 |
| 9 | Adaptive process control for achieving consistent particles' states in atmospheric plasma spray process. SN Applied Sciences, 2021, 3, 1. | 1.5 | 4 |
| 10 | Material tailoring in three-dimensional flexural deformations of functionally graded material beams. Composite Structures, 2021, 259, 113232. | 3.1 | 3 |
| 11 | Comments on â€œM.S. Wu, a pressure loaded soft functionally gradient spherical capsule under finite deformationâ€, mechanics of materials, 150 (2020) 103573. Mechanics of Materials, 2021, 155, 103720. | 1.7 | 0 |
| 12 | Effect of extreme in-plane and transverse stiffness ratios on frequencies and load transfer between face sheets and core of rectangular sandwich plates. Composite Structures, 2021, 278, 114730. | 3.1 | 2 |
| 13 | Dynamics of pull and release of graphene nanoribbons. Computational Materials Science, 2021, 197, 110568. | 1.4 | 0 |
| 14 | Flexure of functionally graded soft material rectangular beams into circular arcs. Composite Structures, 2021, 272, 114055. | 3.1 | 4 |
| 15 | Simultaneous recovery of transverse stresses at all points in a plate. International Journal of Engineering Science, 2021, 169, 103570. | 2.7 | 7 |
| 16 | Ballistic performance of ceramic and ceramic-metal composite plates with JH1, JH2 and JHB material models. International Journal of Impact Engineering, 2020, 137, 103469. | 2.4 | 40 |
| 17 | Analysis of three-dimensional bending deformations and failure of wet and dry laminates. Composite Structures, 2020, 252, 112687. | 3.1 | 7 |
| 18 | Up to lowest 100 frequencies of rectangular plates using Jacobi polynomials and TSNDT. Journal of Sound and Vibration, 2020, 480, 115352. | 2.1 | 5 |

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| 19 | Casimir force and its effects on pull-in instability modelled using molecular dynamics simulations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200311. | 1.0 | 3 |
| 20 | Free Vibration of Thick Quadrilateral Laminates Using Third-Order Shear-Normal Deformation Theory. AIAA Journal, 2020, 58, 4580-4594. | 1.5 | 4 |
| 21 | Numerical techniques to find optimal input parameters for achieving mean particlesâ€™ temperature and axial velocity in atmospheric plasma spray process. Scientific Reports, 2020, 10, 21483. | 1.6 | 4 |
| 22 | Kearsley-type instabilities in finite deformations of transversely isotropic and incompressible hyperelastic materials. International Journal of Solids and Structures, 2020, 196-197, 171-178. | 1.3 | 3 |
| 23 | Optimum First Failure Loads of One- and Two-Core Doubly Curved Sandwich Shells. AIAA Journal, 2020, 58, 3665-3679. | 1.5 | 4 |
| 24 | Prediction of elastic moduli and ultimate strength of fiber/yarn-reinforced elasticâ€“plastic matrix using Fourier series approach and cuboidal/wedge sub-volumes. International Journal of Non-Linear Mechanics, 2020, 125, 103539. | 1.4 | 6 |
| 25 | Micromechanical progressive damage analysis of inter- and intra-layer failures in fiber-reinforced composite laminates. Journal of Composite Materials, 2020, 54, 2913-2942. | 1.2 | 2 |
| 26 | Free Vibration of Thick Laminated Quadrilateral Plates Using TSNDT. , 2020, , . | | 0 |
| 27 | Impact analysis of PEEK/ceramic/gelatin composite for finding behind the armor trauma. Composite Structures, 2020, 237, 111863. | 3.1 | 15 |
| 28 | Lowest Twelve Frequencies of Sandwich Plates Using Third-Order Shear-Normal Deformation Theory. AIAA Journal, 2020, 58, 1821-1835. | 1.5 | 4 |
| 29 | Response of Sandwich Structures to Blast Loads. , 2020, , 281-320. | | 0 |
| 30 | Beam-Based Vibration Energy Harvesters Tunable Through Folding. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, . | 1.0 | 5 |
| 31 | Examining T-peel specimen bond length effects: Experimental and numerical explorations of transitions to steady-state debonding. International Journal of Solids and Structures, 2019, 180-181, 72-83. | 1.3 | 11 |
| 32 | Numerical simulation of underwater explosion wave propagation in waterâ€“solidâ€“air/water system using ghost fluid/solid method. Journal of Fluids and Structures, 2019, 90, 354-378. | 1.5 | 7 |
| 33 | Vibrations of an Incompressible Linearly Elastic Plate Using Discontinuous Finite Element Basis Functions for Pressure. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, . | 1.0 | 1 |
| 34 | Accuracy of FÃ¶pplâ€“von Karman membrane theory for determining elastic constants of monolayer graphene. International Journal of Mechanical Sciences, 2019, 163, 105154. | 3.6 | 4 |
| 35 | Reducing stress concentration factor by strengthening circular hole with functionally graded incompressible material layer. Thin-Walled Structures, 2019, 144, 106223. | 2.7 | 7 |
| 36 | On preferential debonding during demolding of a sandwiched elastomeric layer. International Journal of Solids and Structures, 2019, 170, 123-141. | 1.3 | 3 |

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| 37 | Optimum first failure load design of one/two-core sandwich plates under blast loads, and their ultimate loads. Composite Structures, 2019, 224, 111022. | 3.1 | 12 |
| 38 | Sensitivity of responses of three micro-mechanics approaches to changes in unit cell configuration and inclusion shape. Composite Structures, 2019, 213, 118-132. | 3.1 | 6 |
| 39 | Effect of Reissnerâ€™s Parameter on Strain Energies of Spherical Sandwich Shells. AIAA Journal, 2019, 57, 4942-4952. | 1.5 | 3 |
| 40 | Free and Forced Vibrations of Monolithic and Composite Rectangular Plates With Interior Constrained Points. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, . | 1.0 | 6 |
| 41 | Free vibration of bi-directional functionally graded material circular beams using shear deformation theory employing logarithmic function of radius. Composite Structures, 2019, 210, 217-230. | 3.1 | 32 |
| 42 | Experimental and micromechanical investigation of T300/7901 unidirectional composite strength. Polymer Composites, 2019, 40, 2639-2652. | 2.3 | 26 |
| 43 | Torsion of bi-directional functionally graded truncated conical cylinders. Composite Structures, 2019, 210, 831-839. | 3.1 | 1 |
| 44 | Blast loading of bumper shielded hybrid two-core Miura-ori/honeycomb core sandwich plates. Thin-Walled Structures, 2018, 129, 45-57. | 2.7 | 40 |
| 45 | A review of Winkler's foundation and its profound influence on adhesion and soft matter applications. Soft Matter, 2018, 14, 3669-3683. | 1.2 | 90 |
| 46 | Characterizing fracture performance and the interaction of propagating cracks with locally weakened interfaces in adhesive joints. International Journal of Adhesion and Adhesives, 2018, 82, 196-205. | 1.4 | 14 |
| 47 | Damage and Failure of Blast Loaded Fiber-Reinforced Composite Laminates Considering Material and Geometric Nonlinearities. Springer Transactions in Civil and Environmental Engineering, 2018, , 227-245. | 0.3 | 0 |
| 48 | Analytical solution for cylindrical bending of two-layered corrugated and webcore sandwich panels. Thin-Walled Structures, 2018, 123, 509-519. | 2.7 | 32 |
| 49 | Stretching and bending deformations due to normal and shear tractions of doubly curved shells using third-order shear and normal deformable theory. Mechanics of Advanced Materials and Structures, 2018, 25, 1276-1296. | 1.5 | 10 |
| 50 | Optimal cure cycle parameters for minimizing residual stresses in fiber-reinforced polymer composite laminates. Journal of Composite Materials, 2018, 52, 773-792. | 1.2 | 42 |
| 51 | An immersed boundary formulation for simulating high-speed compressible viscous flows with moving solids. Journal of Computational Physics, 2018, 354, 672-691. | 1.9 | 33 |
| 52 | A common framework for three micromechanics approaches to analyze elasto-plastic deformations of fiber-reinforced composites. International Journal of Mechanical Sciences, 2018, 148, 540-553. | 3.6 | 15 |
| 53 | Torsional deformations and material tailoring of orthotropic bi-directional FGM hollow truncated conical cylinders with curved lateral surfaces. International Journal of Engineering Science, 2018, 133, 336-351. | 2.7 | 8 |
| 54 | Material tailoring for reducing stress concentration factor at a circular hole in a functionally graded material (FGM) panel. Composite Structures, 2018, 205, 49-57. | 3.1 | 24 |

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| 55 | Stress wave propagation in Boron-Nitride nanotubes. Computational Materials Science, 2017, 130, 144-151. | 1.4 | 9 |
| 56 | Nonequilibrium temperature measurement in a thermal conduction process. Physical Review E, 2017, 95, 013302. | 0.8 | 11 |
| 57 | Thermal response of ceramic matrix nanocomposite cylindrical shells using Eshelby-Mori-Tanaka homogenization scheme. Composites Part B: Engineering, 2017, 118, 41-53. | 5.9 | 39 |
| 58 | Binding affinity between small molecules in solvent and polymer film using molecular dynamics simulations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 152-160. | 2.3 | 9 |
| 59 | Rifle bullet penetration into ballistic gelatin. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 67, 40-50. | 1.5 | 31 |
| 60 | Constrained moving leastâ€squares immersed boundary method for fluidâ€structure interaction analysis. International Journal for Numerical Methods in Fluids, 2017, 85, 675-692. | 0.9 | 6 |
| 61 | Shear deformation theory using logarithmic function for thick circular beams and analytical solution for bi-directional functionally graded circular beams. Composite Structures, 2017, 172, 45-60. | 3.1 | 47 |
| 62 | Crush dynamics and transient deformations of elastic-plastic Miura-ori core sandwich plates. Thin-Walled Structures, 2017, 115, 311-322. | 2.7 | 52 |
| 63 | Interdiffusion of small molecules into a glassy polymer film via coarse-grained molecular dynamics simulations. Polymer, 2017, 115, 273-284. | 1.8 | 11 |
| 64 | Stacking sequence optimization for maximizing the first failure initiation load followed by progressive failure analysis until the ultimate load. Composite Structures, 2017, 180, 1007-1021. | 3.1 | 11 |
| 65 | Loadâ€™s temporal characteristics for annulling forced vibrations of linear elastic plates. Mechanics Research Communications, 2017, 85, 5-11. | 1.0 | 1 |
| 66 | Atomistic to coarse grained simulations of diffusion of small molecules into polymeric matrix. Computational Materials Science, 2017, 138, 448-461. | 1.4 | 7 |
| 67 | Effect of confinement and interfacial adhesion on peeling of a flexible plate from an elastomeric layer. International Journal of Solids and Structures, 2017, 110-111, 385-403. | 1.3 | 12 |
| 68 | Stress singularities and transverse stresses near edges of doubly curved laminated shells using TSNDT and stress recovery scheme. European Journal of Mechanics, A/Solids, 2017, 63, 68-83. | 2.1 | 14 |
| 69 | Effect of Curvature on Penetration Resistance of Polycarbonate Panels. Journal of Applied Mechanics, Transactions ASME, 2016, 83, . | 1.1 | 3 |
| 70 | Buckling of single-walled carbon nanotubes using two criteria. Journal of Applied Physics, 2016, 119, 245106. | 1.1 | 11 |
| 71 | Mode-I stress intensity factor in single layer graphene sheets. Computational Materials Science, 2016, 118, 251-258. | 1.4 | 38 |
| 72 | Debonding of confined elastomeric layer using cohesive zone model. International Journal of Adhesion and Adhesives, 2016, 66, 114-127. | 1.4 | 18 |

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| 73 | Thermal buckling and post-buckling of FGM Timoshenko beams on nonlinear elastic foundation. Journal of Thermal Stresses, 2016, 39, 11-26. | 1.1 | 48 |
| 74 | Size-dependent free vibrations of electrostatically predeformed functionally graded micro-cantilevers. IOP Conference Series: Materials Science and Engineering, 2015, 87, 012117. | 0.3 | 10 |
| 75 | Constitutive Relations and Parameter Estimation for Finite Deformations of Viscoelastic Adhesives. Journal of Applied Mechanics, Transactions ASME, 2015, 82, . | 1.1 | 3 |
| 76 | Lightweight Metal Cellular Structures Fabricated via 3D Printing of Sand Cast Molds. Advanced Engineering Materials, 2015, 17, 923-932. | 1.6 | 89 |
| 77 | Correspondence Relations Between Deflection, Buckling Load, and Frequencies of Thin Functionally Graded Material Plates and Those of Corresponding Homogeneous Plates. Journal of Applied Mechanics, Transactions ASME, 2015, 82, . | 1.1 | 21 |
| 78 | Finite deformations of full sine-wave St.-Venant beam due to tangential and normal distributed loads using nonlinear TSNDT. Meccanica, 2015, 50, 355-365. | 1.2 | 10 |
| 79 | Sensitivity analysis of low-velocity impact response of laminated plates. International Journal of Impact Engineering, 2015, 78, 64-80. | 2.4 | 16 |
| 80 | Optimization of transparent laminates for specific energy dissipation under low velocity impact using genetic algorithm. Composite Structures, 2015, 124, 29-34. | 3.1 | 8 |
| 81 | Analysis of behind the armor ballistic trauma. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 45, 11-21. | 1.5 | 51 |
| 82 | Material tailoring in finite torsional deformations of axially graded Mooneyâ€“Rivlin circular cylinder. Mathematics and Mechanics of Solids, 2015, 20, 183-189. | 1.5 | 7 |
| 83 | Through-the-thickness stress distributions near edges of composite laminates using stress recovery scheme and third order shear and normal deformable theory. Composite Structures, 2015, 131, 397-413. | 3.1 | 13 |
| 84 | Low Velocity Impact of Flat and Doubly Curved Polycarbonate Panels. Journal of Applied Mechanics, Transactions ASME, 2015, 82, . | 1.1 | 2 |
| 85 | Hypervelocity impact of a steel microsphere on fused silica sheets. International Journal of Impact Engineering, 2015, 80, 116-132. | 2.4 | 12 |
| 86 | Localization of buckling modes in plates and laminates. Composite Structures, 2015, 120, 79-89. | 3.1 | 9 |
| 87 | Stress and strain recovery for functionally graded free-form and doubly-curved sandwich shells using higher-order equivalent single layer theory. Composite Structures, 2015, 119, 67-89. | 3.1 | 224 |
| 88 | Analysis of cohesive failure in adhesively bonded joints with the SSPH meshless method. International Journal of Adhesion and Adhesives, 2014, 51, 67-80. | 1.4 | 38 |
| 89 | Delamination in sandwich panels due to local water slamming loads. Journal of Fluids and Structures, 2014, 48, 122-155. | 1.5 | 25 |
| 90 | In-plane elastic moduli of covalently functionalized single-wall carbon nanotubes. Computational Materials Science, 2014, 83, 349-361. | 1.4 | 11 |

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| 91 | A tapered bondline thickness double cantilever beam (DCB) specimen geometry for combinatorial fracture studies of adhesive bonds. International Journal of Adhesion and Adhesives, 2014, 55, 155-160. | 1.4 | 25 |
| 92 | Vibration mode localization in single- and multi-layered graphene nanoribbons. Computational Materials Science, 2014, 95, 41-52. | 1.4 | 13 |
| 93 | Elastic moduli of covalently functionalized single layer graphene sheets. Computational Materials Science, 2014, 95, 637-650. | 1.4 | 21 |
| 94 | Crack propagation in pre-strained single layer graphene sheets. Computational Materials Science, 2014, 84, 238-243. | 1.4 | 24 |
| 95 | Low speed impact of laminated polymethylmethacrylate/adhesive/polycarbonate plates. Composite Structures, 2014, 116, 193-210. | 3.1 | 15 |
| 96 | Analysis of adiabatic shear bands in thermo-elasto-viscoplastic materials by using piece-wise discontinuous basis functions. Applied Mathematical Modelling, 2014, 38, 5367-5381. | 2.2 | 8 |
| 97 | Effect of Covalent Functionalization on Youngâ€™s Modulus of a Single-Wall Carbon Nanotube. Springer Series in Materials Science, 2014, , 111-134. | 0.4 | 8 |
| 98 | Analytical solution for free vibrations of moderately thick hybrid piezoelectric laminated plates. Journal of Sound and Vibration, 2013, 332, 5981-5998. | 2.1 | 45 |
| 99 | Comparison of the performance of SSPH and MLS basis functions for two-dimensional linear elastostatics problems including quasistatic crack propagation. Computational Mechanics, 2013, 51, 19-34. | 2.2 | 22 |
| 100 | Material tailoring and moduli homogenization for finite twisting deformations of functionally graded Mooney-Rivlin hollow cylinders. Acta Mechanica, 2013, 224, 811-818. | 1.1 | 7 |
| 101 | Single-edge crack growth in graphene sheets under tension. Computational Materials Science, 2013, 69, 381-388. | 1.4 | 53 |
| 102 | Analysis of structural changes during plastic deformations of amorphous polyethylene. Polymer, 2013, 54, 819-840. | 1.8 | 14 |
| 103 | Transient hydroelastic analysis of sandwich beams subjected to slamming in water. Thin-Walled Structures, 2013, 72, 206-216. | 2.7 | 5 |
| 104 | Optimum Youngâ€™s Modulus of a Homogeneous Cylinder Energetically Equivalent to a Functionally Graded Cylinder. Journal of Elasticity, 2013, 110, 95-110. | 0.9 | 9 |
| 105 | Relations between buckling loads of functionally graded Timoshenko and homogeneous Eulerâ€“Bernoulli beams. Composite Structures, 2013, 95, 5-9. | 3.1 | 117 |
| 106 | Finite deformations of curved laminated St. Venantâ€“Kirchhoff beam using layer-wise third order shear and normal deformable beam theory (TSNDT). Composite Structures, 2013, 97, 147-164. | 3.1 | 34 |
| 107 | Analysis of post-buckling and delamination in laminated composite St. Venantâ€“Kirchhoff beams using CZM and layer-wise TSNDT. Composite Structures, 2013, 105, 369-384. | 3.1 | 21 |
| 108 | Target finding and obstacle avoidance algorithm for microrobot swarms. , 2012, , . | | 10 |

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| 109 | Material parameters for pressure-dependent yielding of unidirectional fiber-reinforced polymeric composites. Composites Part B: Engineering, 2012, 43, 2594-2604. | 5.9 | 13 |
| 110 | Analysis of Adiabatic Shear Bands by Numerical Methods. , 2012, , 173-214. | | 1 |
| 111 | Free vibrations of a strain gradient beam by the method of initial values. Acta Mechanica, 2012, 223, 2393-2409. | 1.1 | 29 |
| 112 | Damage and failure in low energy impact of fiber-reinforced polymeric composite laminates. Composite Structures, 2012, 94, 540-547. | 3.1 | 119 |
| 113 | Mode localization in composite laminates. Composite Structures, 2012, 94, 2620-2631. | 3.1 | 13 |
| 114 | Effect of matrix on ballistic performance of soft body armor. Composite Structures, 2012, 94, 2690-2696. | 3.1 | 75 |
| 115 | Analytical Solution for Radial Deformations of Functionally Graded Isotropic and Incompressible Second-Order Elastic Hollow Spheres. Journal of Elasticity, 2012, 107, 179-197. | 0.9 | 9 |
| 116 | Antiplane Shear Waves in Two Contacting Ferromagnetic Half Spaces. Journal of Elasticity, 2011, 103, 189-203. | 0.9 | 2 |
| 117 | Material tailoring for orthotropic elastic rotating disks. Composites Science and Technology, 2011, 71, 406-414. | 3.8 | 22 |
| 118 | Material tailoring for functionally graded hollow cylinders and spheres. Composites Science and Technology, 2011, 71, 666-673. | 3.8 | 81 |
| 119 | Analysis of adhesive-bonded single-lap joint with an interfacial crack and a void. International Journal of Adhesion and Adhesives, 2011, 31, 455-465. | 1.4 | 54 |
| 120 | Local water slamming impact on sandwich composite hulls. Journal of Fluids and Structures, 2011, 27, 523-551. | 1.5 | 59 |
| 121 | Strain localization in polycarbonates deformed at high strain rates. Journal of Polymer Engineering, 2011, 31, . | 0.6 | 2 |
| 122 | Coupled Experimental and Computational Analysis of Fracture Path Selection in PMMA Blocks. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 13-23. | 0.3 | 1 |
| 123 | Changes in internal stress distributions during yielding of square prismatic gold nano-specimens. Acta Materialia, 2010, 58, 3131-3161. | 3.8 | 6 |
| 124 | Exact Solutions and Material Tailoring for Functionally Graded Hollow Circular Cylinders. Journal of Elasticity, 2010, 99, 179-201. | 0.9 | 63 |
| 125 | Free vibration of three-layer circular cylindrical shells with functionally graded middle layer. Mechanics Research Communications, 2010, 37, 577-580. | 1.0 | 54 |
| 126 | Modeling and simulation of high speed sliding. International Journal of Impact Engineering, 2010, 37, 1197-1206. | 2.4 | 9 |

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| 127 | Effect of particulate/matrix debonding on the formation of adiabatic shear bands. International Journal of Mechanical Sciences, 2010, 52, 386-397. | 3.6 | 13 |
| 128 | Static deformations of functionally graded polar-orthotropic cylinders with elliptical inner and circular outer surfaces. Composites Science and Technology, 2010, 70, 450-457. | 3.8 | 21 |
| 129 | Indentation of a laminated composite plate with an interlayer rectangular void. Composites Science and Technology, 2010, 70, 1023-1030. | 3.8 | 4 |
| 130 | Material tailoring and analysis of functionally graded isotropic and incompressible linear elastic hollow cylinders. Composite Structures, 2010, 92, 265-274. | 3.1 | 42 |
| 131 | Stress analysis and material tailoring in isotropic linear thermoelastic incompressible functionally graded rotating disks of variable thickness. Composite Structures, 2010, 92, 720-729. | 3.1 | 59 |
| 132 | Analytical solutions for functionally graded incompressible eccentric and non-axisymmetrically loaded circular cylinders. Composite Structures, 2010, 92, 1229-1245. | 3.1 | 19 |
| 133 | Elastic Properties and Frequencies of Free Vibrations of Single-Layer Graphene Sheets. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2151-2164. | 0.4 | 120 |
| 134 | Free Vibration of Thermally Pre/Post-Buckled Circular Thin Plates Embedded with Shape Memory Alloy Fibers. Journal of Thermal Stresses, 2010, 33, 79-96. | 1.1 | 26 |
| 135 | Wall thickness and elastic moduli of single-walled carbon nanotubes from frequencies of axial, torsional and inextensional modes of vibration. Computational Materials Science, 2010, 47, 1049-1059. | 1.4 | 100 |
| 136 | Effective Properties of Carbon Nanotube and Piezoelectric Fiber Reinforced Hybrid Smart Composites. Journal of Applied Mechanics, Transactions ASME, 2009, 76, . | 1.1 | 42 |
| 137 | Analysis of adiabatic shear bands in heatâ€conducting elastothermoviscoplastic materials by the meshless local Bubnovâ€“Galerkin method. Communications in Numerical Methods in Engineering, 2009, 25, 1019-1040. | 1.3 | 5 |
| 138 | Symmetric smoothed particle hydrodynamics (SSPH) method and its application to elastic problems. Computational Mechanics, 2009, 43, 321-340. | 2.2 | 86 |
| 139 | Molecular statics simulations of buckling and yielding of gold nanowires deformed in axial compression. Acta Materialia, 2009, 57, 4921-4932. | 3.8 | 26 |
| 140 | Inflation and eversion of functionally graded non-linear elastic incompressible circular cylinders. International Journal of Non-Linear Mechanics, 2009, 44, 311-323. | 1.4 | 46 |
| 141 | Natural frequencies of thick plates made of orthotropic, monoclinic, and hexagonal materials by a meshless method. Journal of Sound and Vibration, 2009, 319, 984-992. | 2.1 | 25 |
| 142 | Local slamming impact of sandwich composite hulls. International Journal of Solids and Structures, 2009, 46, 2011-2035. | 1.3 | 105 |
| 143 | Constitutive equations for thermomechanical deformations of glassy polymers. International Journal of Solids and Structures, 2009, 46, 4079-4094. | 1.3 | 53 |
| 144 | Breakdown of structural models for vibrations of single-wall zigzag carbon nanotubes. Journal of Applied Physics, 2009, 106, . | 1.1 | 23 |

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| 145 | Identification of elastic constants of FCC metals from 2D load-indentation curves. Computational Materials Science, 2009, 45, 511-515. | 1.4 | 0 |
| 146 | Local and global instabilities in nanosize rectangular prismatic gold specimens. Computational Materials Science, 2009, 46, 960-976. | 1.4 | 3 |
| 147 | Symmetry breaking, snap-through and pull-in instabilities under dynamic loading of microelectromechanical shallow arches. Smart Materials and Structures, 2009, 18, 115008. | 1.8 | 104 |
| 148 | Pull-in and snap-through instabilities in transient deformations of microelectromechanical systems. Journal of Micromechanics and Microengineering, 2009, 19, 035008. | 1.5 | 114 |
| 149 | Analysis of rubberâ€like materials using meshless local Petrovâ€“Galerkin (MLPG) method. Communications in Numerical Methods in Engineering, 2008, 24, 1781-1804. | 1.3 | 5 |
| 150 | Analysis of thick composite laminates using a higher-order shear and normal deformable plate theory (HOSNDPT) and a meshless method. Composites Part B: Engineering, 2008, 39, 414-427. | 5.9 | 80 |
| 151 | Modeling damage in polymeric composites. Composites Part B: Engineering, 2008, 39, 66-82. | 5.9 | 56 |
| 152 | Modified Smoothed Particle Hydrodynamics (MSPH) basis functions for meshless methods, and their application to axisymmetric Taylor impact test. Journal of Computational Physics, 2008, 227, 1962-1981. | 1.9 | 40 |
| 153 | Vibrations of narrow microbeams predeformed by an electric field. Journal of Sound and Vibration, 2008, 309, 600-612. | 2.1 | 202 |
| 154 | Vibrations and pull-in instabilities of microelectromechanical von KÃ¡rmÃ¡n elliptic plates incorporating the Casimir force. Journal of Sound and Vibration, 2008, 315, 939-960. | 2.1 | 72 |
| 155 | Instabilities in shear and simple shear deformations of gold crystals. Journal of the Mechanics and Physics of Solids, 2008, 56, 3116-3143. | 2.3 | 12 |
| 156 | Blast resistance of unidirectional fiber reinforced composites. Composites Part B: Engineering, 2008, 39, 513-536. | 5.9 | 59 |
| 157 | Effect of frame size, frame type, and clamping pressure on the ballistic performance of soft body armor. Composites Part B: Engineering, 2008, 39, 476-489. | 5.9 | 62 |
| 158 | Static deformations and vibration analysis of composite and sandwich plates using a layerwise theory and RBF-PS discretizations with optimal shape parameter. Composite Structures, 2008, 86, 328-343. | 3.1 | 151 |
| 159 | Reduced-order models for microelectromechanical rectangular and circular plates incorporating the Casimir force. International Journal of Solids and Structures, 2008, 45, 3558-3583. | 1.3 | 160 |
| 160 | Analytical solution of the contact problem of a rigid indenter and an anisotropic linear elastic layer. International Journal of Solids and Structures, 2008, 45, 5814-5830. | 1.3 | 36 |
| 161 | Exact solutions for radial deformations of a functionally graded isotropic and incompressible second-order elastic cylinder. International Journal of Non-Linear Mechanics, 2008, 43, 383-398. | 1.4 | 29 |
| 162 | Two-dimensional stress analysis of functionally graded solids using the MLPG method with radial basis functions. Computational Materials Science, 2008, 41, 467-481. | 1.4 | 33 |

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| 163 | Continuum structures equivalent in normal mode vibrations to single-walled carbon nanotubes. Computational Materials Science, 2008, 43, 715-723. | 1.4 | 105 |
| 164 | Pull-In Instability in Electrostatically Actuated MEMS due to Coulomb and Casimir Forces. Computational and Experimental Methods in Structures, 2008, , 329-374. | 0.2 | 4 |
| 165 | Wall Thickness and Radial Breathing Modes of Single-Walled Carbon Nanotubes. Journal of Applied Mechanics, Transactions ASME, 2008, 75, . | 1.1 | 84 |
| 166 | Pull-In Instabilities in Functionally Graded Microthermoelectromechanical Systems. Journal of Thermal Stresses, 2008, 31, 1006-1021. | 1.1 | 100 |
| 167 | Optimal Design of Functionally Graded Incompressible Linear Elastic Cylinders and Spheres. AIAA Journal, 2008, 46, 2050-2057. | 1.5 | 43 |
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