# Xian-Fang Li

List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 245 papers | 5,978 citations | 94381<br>37 h-index | 123376<br>61 g-index |
| 247 all docs | 247 docs citations | 247 times ranked | 2247 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | A unified approach for analyzing static and dynamic behaviors of functionally graded Timoshenko and Euler–Bernoulli beams. Journal of Sound and Vibration, 2008, 318, 1210-1229. | 2.1 | 446 |
| 2 | A new approach for free vibration of axially functionally graded beams with non-uniform cross-section. Journal of Sound and Vibration, 2010, 329, 2291-2303. | 2.1 | 286 |
| 3 | Performance of a piezoelectric bimorph for scavenging vibration energy. Smart Materials and Structures, 2005, 14, 769-774. | 1.8 | 180 |
| 4 | Exact frequency equations of free vibration of exponentially functionally graded beams. Applied Acoustics, 2013, 74, 413-420. | 1.7 | 117 |
| 5 | Dynamic analysis of a cracked magnetoelectroelastic medium under antiplane mechanical and inplane electric and magnetic impacts. International Journal of Solids and Structures, 2005, 42, 3185-3205. | 1.3 | 104 |
| 6 | A higher-order theory for static and dynamic analyses of functionally graded beams. Archive of Applied Mechanics, 2010, 80, 1197-1212. | 1.2 | 104 |
| 7 | Exact frequency equations of free vibration of exponentially non-uniform functionally graded Timoshenko beams. International Journal of Mechanical Sciences, 2014, 89, 1-11. | 3.6 | 96 |
| 8 | Bending of functionally graded cantilever beam with power-law non-linearity subjected to an end force. International Journal of Non-Linear Mechanics, 2009, 44, 696-703. | 1.4 | 92 |
| 9 | Approximate solution of fractional integro-differential equations by Taylor expansion method. Computers and Mathematics With Applications, 2011, 62, 1127-1134. | 1.4 | 82 |
| 10 | Thermal stress in rotating functionally graded hollow circular disks. Composite Structures, 2010, 92, 1896-1904. | 3.1 | 81 |
| 11 | Buckling Analysis of Nonuniform and Axially Graded Columns with Varying Flexural Rigidity. Journal of Engineering Mechanics - ASCE, 2011, 137, 73-81. | 1.6 | 81 |
| 12 | Vibrational modes of Timoshenko beams at small scales. Applied Physics Letters, 2009, 94, . | 1.5 | 75 |
| 13 | A Pressurized Functionally Graded Hollow Cylinder with Arbitrarily Varying Material Properties. Journal of Elasticity, 2009, 96, 81-95. | 0.9 | 73 |
| 14 | Analytical closed-form solutions for size-dependent static pull-in behavior in electrostatic micro-actuators via Fredholm integral equation. Sensors and Actuators A: Physical, 2013, 190, 32-43. | 2.0 | 71 |
| 15 | Bending and vibration of circular cylindrical beams with arbitrary radial nonhomogeneity. International Journal of Mechanical Sciences, 2010, 52, 595-601. | 3.6 | 68 |
| 16 | New Method for Solving Elasticity Problems of Some Planar Quasicrystals and Solutions. Chinese Physics Letters, 1998, 15, 278-280. | 1.3 | 62 |
| 17 | Transverse vibration of nanotube-based micro-mass sensor via nonlocal Timoshenko beam theory. Computational Materials Science, 2012, 53, 340-346. | 1.4 | 62 |
| 18 | Interfacial shear horizontal (SH) waves propagating in a two-phase piezoelectric/piezomagnetic structure with an imperfect interface. Philosophical Magazine Letters, 2009, 89, 95-103. | 0.5 | 61 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 19 | Nonlocal Timoshenko beam theory for vibration of carbon nanotube-based biosensor. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1169-1175. | 1.3 | 60 |
| 20 | A moving mode-III crack at the interface between two dissimilar piezoelectric materials. International Journal of Engineering Science, 2000, 38, 1219-1234. | 2.7 | 59 |
| 21 | Resonance frequency and mass identification of zeptogram-scale nanosensor based on the nonlocal beam theory. Ultrasonics, 2015, 55, 75-84. | 2.1 | 57 |
| 22 | Buckling of functionally graded circular columns including shear deformation. Materials & Design, 2010, 31, 3159-3166. | 5.1 | 56 |
| 23 | Large Deflections of a Non-linear Cantilever Functionally Graded Beam. Journal of Reinforced Plastics and Composites, 2010, 29, 1761-1774. | 1.6 | 54 |
| 24 | A finite length crack propagating along the interface of two dissimilar magnetoelectroelastic materials. International Journal of Engineering Science, 2006, 44, 1394-1407. | 2.7 | 51 |
| 25 | Elastic analysis of rotating functionally graded polar orthotropic disks. International Journal of Mechanical Sciences, 2012, 60, 84-91. | 3.6 | 51 |
| 26 | Fracture analysis of a magnetoelectroelastic solid with a penny-shaped crack by considering the effects of the opening crack interior. International Journal of Engineering Science, 2008, 46, 374-390. | 2.7 | 50 |
| 27 | Transient response of a magnetoelectroelastic solid with two collinear dielectric cracks under impacts. International Journal of Solids and Structures, 2009, 46, 2950-2958. | 1.3 | 50 |
| 28 | T-Stresses Across Static Crack Kinking. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 181-190. | 1.1 | 46 |
| 29 | Effects of a surrounding elastic medium on flexural waves propagating in carbon nanotubes via nonlocal elasticity. Journal of Applied Physics, 2008, 103, . | 1.1 | 46 |
| 30 | Size effects of the bending stiffness of nanowires. Journal of Applied Physics, 2009, 105, 074306. | 1.1 | 46 |
| 31 | Dependence of Young×³s modulus of nanowires on surface effect. International Journal of Mechanical Sciences, 2014, 81, 120-125. | 3.6 | 46 |
| 32 | Transient thermal stress intensity factors for a circumferential crack in a hollow cylinder based on generalized fractional heat conduction. International Journal of Thermal Sciences, 2017, 121, 336-347. | 2.6 | 46 |
| 33 | Effects of electric field on crack growth for a penny-shaped dielectric crack in a piezoelectric layer. Journal of the Mechanics and Physics of Solids, 2004, 52, 2079-2100. | 2.3 | 45 |
| 34 | Magnetoelectroelastic analysis for an opening crack in a piezoelectromagnetic solid. European Journal of Mechanics, A/Solids, 2007, 26, 405-417. | 2.1 | 44 |
| 35 | Approximate solution of Abel integral equation. Computers and Mathematics With Applications, 2008, 56, 1748-1757. | 1.4 | 44 |
| 36 | Critical load for buckling of non-prismatic columns under self-weight and tip force. Mechanics Research Communications, 2010, 37, 554-558. | 1.0 | 42 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | Transverse waves propagating in carbon nanotubes via a higher-order nonlocal beam model. Composite Structures, 2013, 95, 328-336. | 3.1 | 40 |
| 38 | Vibration of double-walled carbon nanotube based nanomechanical sensor with initial axial stress. Computational Materials Science, 2012, 58, 51-58. | 1.4 | 38 |
| 39 | Flapwise bending vibration of rotating tapered Rayleigh cantilever beams. Journal of Constructional Steel Research, 2015, 112, 1-9. | 1.7 | 38 |
| 40 | A Straight Dislocation in One-Dimensional Hexagonal Quasicrystals. Physica Status Solidi (B): Basic Research, 1999, 212, 19-26. | 0.7 | 36 |
| 41 | Elastic field for a straight dislocation in a decagonal quasicrystal. Journal of Physics Condensed Matter, 1999, 11, 703-711. | 0.7 | 35 |
| 42 | Effects of T-stresses on fracture initiation for a closed crack in compression with frictional crack faces. International Journal of Fracture, 2009, 160, 19-30. | 1.1 | 35 |
| 43 | Flexural waves in multi-walled carbon nanotubes using gradient elasticity beam theory. Computational Materials Science, 2013, 67, 188-195. | 1.4 | 35 |
| 44 | Three-Dimensional Electroelastic Analysis of a Piezoelectric Material With a Penny-Shaped Dielectric Crack. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 866-878. | 1.1 | 34 |
| 45 | Axial wave propagation and vibration of nonlocal nanorods with radial deformation and inertia. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2017, 97, 602-616. | 0.9 | 34 |
| 46 | Transient thermoelastic response in a cracked strip of functionally graded materials via generalized fractional heat conduction. Applied Mathematical Modelling, 2019, 70, 328-349. | 2.2 | 33 |
| 47 | Transient response of a piezoelectric ceramic strip with an eccentric crack under electromechanical impacts. International Journal of Solids and Structures, 2003, 40, 3571-3588. | 1.3 | 32 |
| 48 | Thermoelastic analysis of functionally graded annulus with arbitrary gradient. Applied Mathematics and Mechanics (English Edition), 2009, 30, 1211-1220. | 1.9 | 32 |
| 49 | Bending and free vibration of a circular magnetoelectroelastic plate with surface effects. International Journal of Mechanical Sciences, 2019, 157-158, 858-871. | 3.6 | 32 |
| 50 | A Yoffe-type moving crack in one-dimensional hexagonal piezoelectric quasicrystals. Applied Mathematical Modelling, 2019, 65, 148-163. | 2.2 | 32 |
| 51 | A new Abel inversion by means of the integrals of an input function with noise. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 347-360. | 0.7 | 31 |
| 52 | Radially polarized functionally graded piezoelectric hollow cylinders as sensors and actuators. European Journal of Mechanics, A/Solids, 2010, 29, 704-713. | 2.1 | 31 |
| 53 | Two-dimensional elasticity solution of elastic strips and beams made of functionally graded materials under tension and bending. Acta Mechanica, 2015, 226, 2235-2253. | 1.1 | 31 |
| 54 | Closed-form solution for a piezoelectric strip with two collinear cracks normal to the strip boundaries. European Journal of Mechanics, A/Solids, 2002, 21, 981-989. | 2.1 | 30 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 55 | Closed-Form Solution for a Mode-III Interface Crack Between Two Bonded Dissimilar Elastic Layers. International Journal of Fracture, 2001, 109, 3-8. | 1.1 | 29 |
| 56 | Closed–form solution for an orthotropic elastic strip with a crack perpendicular to the edges under arbitrary anti–plane shear. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2009, 89, 370-382. | 0.9 | 29 |
| 57 | Stability analysis of composite columns and parameter optimization against buckling. Composites Part B: Engineering, 2011, 42, 1337-1345. | 5.9 | 29 |
| 58 | Two collinear mode-III cracks in one-dimensional hexagonal piezoelectric quasicrystal strip. Engineering Fracture Mechanics, 2018, 189, 133-147. | 2.0 | 29 |
| 59 | Pressurized Hollow Spherical Vessels with Arbitrary Radial Nonhomogeneity. AIAA Journal, 2009, 47, 2262-2266. | 1.5 | 28 |
| 60 | Analysis of a mode-I crack perpendicular to an imperfect interface. International Journal of Solids and Structures, 2009, 46, 1456-1463. | 1.3 | 28 |
| 61 | Free vibration of standing and hanging gravity-loaded Rayleigh cantilevers. International Journal of Mechanical Sciences, 2013, 66, 233-238. | 3.6 | 28 |
| 62 | Title is missing!. International Journal of Fracture, 2001, 111, 119-130. | 1.1 | 27 |
| 63 | Antiplane interface crack between two bonded dissimilar piezoelectric layers. European Journal of Mechanics, A/Solids, 2003, 22, 231-242. | 2.1 | 27 |
| 64 | Two perfectly-bonded dissimilar orthotropic strips with an interfacial crack normal to the boundaries. Applied Mathematics and Computation, 2005, 163, 961-975. | 1.4 | 27 |
| 65 | Initial value method for free vibration of axially loaded functionally graded Timoshenko beams with nonuniform cross section. Mechanics Based Design of Structures and Machines, 2019, 47, 102-120. | 3.4 | 27 |
| 66 | Electric and elastic behaviors of a piezoelectric ceramic with a charged surface electrode. Smart Materials and Structures, 2004, 13, 424-432. | 1.8 | 25 |
| 67 | Effects of gradient on stress distribution in rotating functionally graded solid disks. Journal of Mechanical Science and Technology, 2012, 26, 1483-1492. | 0.7 | 25 |
| 68 | Kink angle and fracture load for an angled crack subjected to far-field compressive loading. Engineering Fracture Mechanics, 2012, 82, 172-184. | 2.0 | 25 |
| 69 | Stress intensity factors of double cantilever nanobeams via gradient elasticity theory. Engineering Fracture Mechanics, 2013, 105, 58-64. | 2.0 | 25 |
| 70 | Effect of heat conduction of penny-shaped crack interior on thermal stress intensity factors. International Journal of Heat and Mass Transfer, 2015, 91, 127-134. | 2.5 | 25 |
| 71 | Higher-order theory for bending and vibration of beams with circular cross section. Journal of Engineering Mathematics, 2013, 80, 91-104. | 0.6 | 24 |
| 72 | Free and forced transverse vibration of nanowires with surface effects. JVC/Journal of Vibration and Control, 2017, 23, 2064-2077. | 1.5 | 24 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 73 | Thermal shock fracture of a cracked thermoelastic plate based on time–fractional heat conduction. Engineering Fracture Mechanics, 2017, 171, 22-34. | 2.0 | 24 |
| 74 | Fracture analysis of cracked piezoelectric materials. International Journal of Solids and Structures, 2004, 41, 4137-4161. | 1.3 | 23 |
| 75 | Crack in an elastic thin-film with surface effect. International Journal of Engineering Science, 2018, 123, 158-173. | 2.7 | 23 |
| 76 | Transient hygrothermoelastic response in a cylinder considering non-Fourier hyperbolic heat-moisture coupling. International Journal of Heat and Mass Transfer, 2018, 126, 1094-1103. | 2.5 | 23 |
| 77 | Transient analysis of a piezoelectric strip with a permeable crack under anti-plane impact loads. International Journal of Engineering Science, 2002, 40, 131-143. | 2.7 | 22 |
| 78 | Electroelastic analysis of an anti-plane shear crack in a piezoelectric ceramic strip. International Journal of Solids and Structures, 2002, 39, 1097-1117. | 1.3 | 22 |
| 79 | Solution of a class of Volterra integral equations with singular and weakly singular kernels. Applied Mathematics and Computation, 2008, 199, 406-413. | 1.4 | 22 |
| 80 | Transient response of a cracked magnetoelectric material under the action of in-plane sudden impacts. Computational Materials Science, 2009, 45, 905-911. | 1.4 | 22 |
| 81 | Flexural waves of carbon nanotubes based on generalized gradient elasticity. Physica Status Solidi (B): Basic Research, 2012, 249, 50-57. | 0.7 | 22 |
| 82 | Large deflection and rotation of Timoshenko beams with frictional end supports under three-point bending. Comptes Rendus - Mecanique, 2016, 344, 556-568. | 2.1 | 22 |
| 83 | Closed-form solution for a mode-III crack at the mid-plane of a piezoelectric layer. Mechanics Research Communications, 2001, 28, 703-710. | 1.0 | 21 |
| 84 | The asymptotic stress field for a rigid circular inclusion at the interface of two bonded dissimilar elastic half-space materials. International Journal of Solids and Structures, 2001, 38, 8019-8035. | 1.3 | 21 |
| 85 | Electroelastic behavior of a rectangular piezoelectric ceramic with an antiplane shear crack at arbitrary position. European Journal of Mechanics, A/Solids, 2004, 23, 645-658. | 2.1 | 21 |
| 86 | Closed-form solution for two collinear cracks in a piezoelectric strip. Mechanics Research Communications, 2005, 32, 401-410. | 1.0 | 21 |
| 87 | Dynamic analysis of a crack in a functionally graded material sandwiched between two elastic layers under anti-plane loading. Composite Structures, 2007, 79, 211-219. | 3.1 | 21 |
| 88 | Approximate solution of linear ordinary differential equations with variable coefficients. Mathematics and Computers in Simulation, 2007, 75, 113-125. | 2.4 | 21 |
| 89 | Free vibration of shear beams with finite rotational inertia. Journal of Constructional Steel Research, 2011, 67, 1677-1683. | 1.7 | 21 |
| 90 | Elastohydrodynamic problems in quasicrystal elasticity theory and wave propagation. Philosophical Magazine, 2013, 93, 1500-1519. | 0.7 | 21 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 91 | Fracture analysis of an infinite 1D hexagonal piezoelectric quasicrystal plate with a penny-shaped dielectric crack. European Journal of Mechanics, A/Solids, 2019, 76, 224-234. | 2.1 | 21 |
| 92 | Flexoelectric effects on the natural frequencies for free vibration of piezoelectric nanoplates. Journal of Applied Physics, 2021, 129, . | 1.1 | 21 |
| 93 | Transient Response of Temperature and Thermal Stresses in a Functionally Graded Hollow Cylinder. Journal of Thermal Stresses, 2010, 33, 485-500. | 1.1 | 20 |
| 94 | A general solution of elasto-hydrodynamics of two-dimensional quasicrystals. Philosophical Magazine Letters, 2011, 91, 313-320. | 0.5 | 20 |
| 95 | Effect of scale parameter on the deflection of a nonlocal beam and application to energy release rate of a crack. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 1428-1438. | 0.9 | 20 |
| 96 | Effects of Engesser's and Haringx's Hypotheses on Buckling of Timoshenko and Higher-Order Shear-Deformable Columns. Journal of Engineering Mechanics - ASCE, 2018, 144, . | 1.6 | 20 |
| 97 | Electroelastic analysis for a piezoelectric layer with surface electrodes. Mechanics Research Communications, 2003, 30, 345-351. | 1.0 | 19 |
| 98 | T-stress near the tips of a cruciform crack with unequal arms. Engineering Fracture Mechanics, 2006, 73, 671-683. | 2.0 | 19 |
| 99 | Closed-form solution for an eccentric anti-plane shear crack normal to the edges of a magnetoelectroelastic strip. Acta Mechanica, 2006, 186, 1-15. | 1.1 | 19 |
| 100 | Singular elastic field induced by a rigid line inclusion in a thin nanoplate with surface elasticity. International Journal of Mechanical Sciences, 2021, 198, 106386. | 3.6 | 19 |
| 101 | Mode-III interface edge crack between two bonded quarter-planes of dissimilar piezoelectric materials. Archive of Applied Mechanics, 2001, 71, 703-714. | 1.2 | 18 |
| 102 | Effects of nonhomogeneity on dynamic stress intensity factors for an antiplane interface crack in a functionally graded material bonded to an elastic semi-strip. Computational Materials Science, 2006, 38, 432-441. | 1.4 | 18 |
| 103 | Stress field around a strike-slip fault in orthotropic elastic layers via a hypersingular integral equation. Computers and Mathematics With Applications, 2013, 66, 2317-2326. | 1.4 | 18 |
| 104 | Size-dependent resonance frequencies of longitudinal vibration of a nonlocal Love nanobar with a tip nanoparticle. Mathematics and Mechanics of Solids, 2017, 22, 1529-1542. | 1.5 | 18 |
| 105 | Transient response of a hygrothermoelastic cylinder based on fractional diffusion wave theory. Journal of Thermal Stresses, 2017, 40, 1575-1594. | 1.1 | 18 |
| 106 | Closed-form solution for two collinear mode-III cracks in an orthotropic elastic strip of finite width. Mechanics Research Communications, 2003, 30, 365-370. | 1.0 | 17 |
| 107 | On approximate analytic expressions for the velocity of Rayleigh waves. Wave Motion, 2006, 44, 120-127. | 1.0 | 17 |
| 108 | A new method for determining the solution of Riccati differential equations. Applied Mathematics and Computation, 2007, 194, 431-440. | 1.4 | 17 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 109 | Transient response of the crack-tip field in a magnetoelectroelastic half-space with a functionally graded coating under impacts. Archive of Applied Mechanics, 2009, 79, 1099-1113. | 1.2 | 17 |
| 110 | The static response of functionally graded radially polarized piezoelectric spherical shells as sensors and actuators. Smart Materials and Structures, 2010, 19, 035010. | 1.8 | 17 |
| 111 | Bending wave propagation of carbon nanotubes in a bi-parameter elastic matrix. Physica B: Condensed Matter, 2012, 407, 684-688. | 1.3 | 17 |
| 112 | Effect of Surface Stress on Stress Intensity Factors of a Nanoscale Crack via Double Cantilever Beam Model. Journal of Nanoscience and Nanotechnology, 2013, 13, 477-482. | 0.9 | 17 |
| 113 | Resonant frequency and flutter instability of a nanocantilever with the surface effects. Composite Structures, 2016, 153, 645-653. | 3.1 | 17 |
| 114 | A rigid line inclusion in an elastic film with surface elasticity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1. | 0.7 | 17 |
| 115 | Anti-plane shear crack normal to and terminating at the interface of two bonded piezoelectric ceramics. International Journal of Solids and Structures, 2007, 44, 3796-3810. | 1.3 | 16 |
| 116 | Effect of horizontal reaction force on the deflection of short simply supported beams under transverse loadings. International Journal of Mechanical Sciences, 2015, 99, 121-129. | 3.6 | 16 |
| 117 | Interface crack embedded in a bi-material plane under shear and compression. Mechanics of Materials, 2015, 85, 80-93. | 1.7 | 16 |
| 118 | Transverse vibration of free–free beams carrying two unequal end masses. International Journal of Mechanical Sciences, 2015, 90, 251-257. | 3.6 | 16 |
| 119 | Elasticity solution of the bending of beams with the flexoelectric and piezoelectric effects. Smart Materials and Structures, 2018, 27, 105023. | 1.8 | 16 |
| 120 | Effect of surface elasticity on stress intensity factors near mode-III crack tips. Journal of Mechanics of Materials and Structures, 2019, 14, 43-60. | 0.4 | 16 |
| 121 | Nanoscale mode-III interface crack in a bimaterial with surface elasticity. Mechanics of Materials, 2020, 140, 103246. | 1.7 | 16 |
| 122 | Dynamic behavior of a piezoelectric ceramic layer with two surface cracks. International Journal of Solids and Structures, 2004, 41, 3193-3209. | 1.3 | 15 |
| 123 | T-stress analysis for a Griffith crack in a magnetoelectroelastic solid. Archive of Applied Mechanics, 2008, 78, 117-125. | 1.2 | 15 |
| 124 | Theoretical analysis of surface stress for a microcantilever with varying widths. Journal Physics D: Applied Physics, 2008, 41, 065301. | 1.3 | 15 |
| 125 | Magnetoelectroelastic field induced by a crack terminating at the interface of a bi-magnetoelectric material. Philosophical Magazine, 2009, 89, 449-463. | 0.7 | 15 |
| 126 | AN ANALYTIC APPROACH FOR EXACTLY DETERMINING CRITICAL LOADS OF BUCKLING OF NONUNIFORM COLUMNS. International Journal of Structural Stability and Dynamics, 2012, 12, 1250027. | 1.5 | 15 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 127 | Exact solution of two collinear cracks normal to the boundaries of a 1D layered hexagonal piezoelectric quasicrystal. Philosophical Magazine, 2018, 98, 1780-1798. | 0.7 | 15 |
| 128 | Surface effects on delamination of a thin film bonded to an elastic substrate. International Journal of Fracture, 2018, 210, 81-94. | 1.1 | 15 |
| 129 | Thermal shock fracture of an elastic half-space with a subsurface penny-shaped crack via fractional thermoelasticity. Acta Mechanica, 2018, 229, 4875-4893. | 1.1 | 15 |
| 130 | Exact and approximate solutions of convective-radiative fins with temperature-dependent thermal conductivity using integral equation method. International Journal of Heat and Mass Transfer, 2020, 150, 119303. | 2.5 | 15 |
| 131 | Electroelastic analysis of an interface anti-plane shear crack in a layered piezoelectric plate. International Journal of Engineering Science, 2003, 41, 1405-1422. | 2.7 | 14 |
| 132 | Piezoelectric gap waves between a piezoceramic half-space and a piezoceramic plate. Sensors and Actuators A: Physical, 2006, 132, 472-479. | 2.0 | 14 |
| 133 | Vibration of Double-Walled Carbon Nanotube-Based Mass Sensor via Nonlocal Timoshenko Beam Theory. Journal of Nanotechnology in Engineering and Medicine, 2011, 2, . | 0.8 | 14 |
| 134 | Stability and vibration analysis of axially-loaded shear beam-columns carrying elastically restrained mass. Applied Mathematical Modelling, 2013, 37, 8237-8250. | 2.2 | 14 |
| 135 | Frequency equation and resonant frequencies of free–free Timoshenko beams with unequal end masses. International Journal of Mechanical Sciences, 2016, 115-116, 406-415. | 3.6 | 14 |
| 136 | Time-Fractional Hygrothermoelastic Problem for a Sphere Subjected to Heat and Moisture Flux. Journal of Heat Transfer, 2018, 140, . | 1.2 | 14 |
| 137 | Free vibration of radially graded hollow cylinders subject to axial force via a higher-order shear deformation beam theory. Composite Structures, 2021, 255, 112957. | 3.1 | 14 |
| 138 | Electromagnetoelastic behavior induced by a crack under antiplane mechanical and inplane electric impacts. International Journal of Fracture, 2005, 132, 49-64. | 1.1 | 13 |
| 139 | An interfacially-cracked orthotropic rectangular bi-material subjected to antiplane shear loading. Applied Mathematics and Computation, 2006, 174, 1060-1079. | 1.4 | 13 |
| 140 | Size effect in transverse mechanical behavior of one-dimensional nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 207-214. | 1.3 | 13 |
| 141 | Bending of circular nanoplates with consideration of surface effects. Meccanica, 2018, 53, 985-999. | 1.2 | 13 |
| 142 | Flutter and divergence instability of rectangular plates under nonconservative forces considering surface elasticity. International Journal of Mechanical Sciences, 2018, 149, 254-261. | 3.6 | 13 |
| 143 | Hygrothermoelastic response of a hollow cylinder based on a coupled time-fractional heat and moisture transfer model. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, 1. | 0.7 | 13 |
| 144 | A refined beam theory for bending and vibration of functionally graded tube-beams. Composite Structures, 2020, 236, 111878. | 3.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 145 | Thermoelastic damping in a micro-beam based on the memory-dependent generalized thermoelasticity. Waves in Random and Complex Media, 2022, 32, 2812-2829. | 1.6 | 13 |
| 146 | Solution of a class of two-dimensional integral equations. Journal of Computational and Applied Mathematics, 2002, 145, 335-343. | 1.1 | 12 |
| 147 | Griffith crack moving in a piezoelectric strip. Archive of Applied Mechanics, 2003, 72, 745-758. | 1.2 | 12 |
| 148 | A piezoelectric material with a periodic distribution of slant mode-III cracks. Mechanics of Materials, 2005, 37, 189-200. | 1.7 | 12 |
| 149 | Effects of an elastic substrate on the interfacial adhesion of thin films. Surface and Coatings Technology, 2006, 200, 5003-5008. | 2.2 | 12 |
| 150 | Electroelastic field induced by thin interface electrodes between two bonded dissimilar piezoelectric ceramics. Science in China Series G: Physics, Mechanics and Astronomy, 2006, 49, 526-539. | 0.2 | 11 |
| 151 | Vibration of nonclassical shear beams with Winkler-Pasternak-type restraint. Acta Mechanica, 2012, 223, 953-966. | 1.1 | 11 |
| 152 | Effects of nonhomogeneity on singular electroelastic field near electrodes for a functionally graded piezoelectric material. European Journal of Mechanics, A/Solids, 2015, 51, 21-28. | 2.1 | 11 |
| 153 | Exact solution of buckling load of axially exponentially graded columns and its approximation. Mechanics Research Communications, 2019, 101, 103414. | 1.0 | 11 |
| 154 | The Interaction of a Screw Dislocation and a Free Boundary in a Piezoelectric Material. Physica Status Solidi (B): Basic Research, 2001, 227, 613-619. | 0.7 | 10 |
| 155 | A note on stress intensity factors for a crack emanating from a sharp V-notch. Engineering Fracture Mechanics, 2012, 90, 180-187. | 2.0 | 10 |
| 156 | Axisymmetric problems of a penny-shaped crack at the interface of a bi-material under shear and compression. International Journal of Solids and Structures, 2015, 69-70, 403-414. | 1.3 | 10 |
| 157 | Non-Fourier fractional heat conduction in two bonded dissimilar materials with a penny-shaped interface crack. International Journal of Thermal Sciences, 2019, 140, 319-328. | 2.6 | 10 |
| 158 | Exact solution of a nonlinear fin problem of temperature-dependent thermal conductivity and heat transfer coefficient. Canadian Journal of Physics, 2020, 98, 700-712. | 0.4 | 10 |
| 159 | Synergistic effect of memory-size-microstructure on thermoelastic damping of a micro-plate. International Journal of Heat and Mass Transfer, 2021, 181, 122031. | 2.5 | 10 |
| 160 | Modified method for determining an approximate solution of the Fredholm–Volterra integral equations by Taylor's expansion. International Journal of Computer Mathematics, 2006, 83, 637-649. | 1.0 | 9 |
| 161 | Bending Vibration of Rotating Tapered Cantilevers by Integral Equation Method. AIAA Journal, 2011, 49, 872-876. | 1.5 | 9 |
| 162 | Stress intensify factors for an external circular crack at the interface of a bi-material in shear–compression. International Journal of Solids and Structures, 2015, 64-65, 221-231. | 1.3 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Bending of a rectangular plate with rotationally restrained edges under a concentrated force. Applied Mathematics and Computation, 2016, 286, 265-278. | 1.4 | 9 |
| 164 | Bending of piezoelectric beams with the flexoelectric effect under applied load at any position. Modern Physics Letters B, 2018, 32, 1850372. | 1.0 | 9 |
| 165 | Third-order shear deformation beam model for flexural waves and free vibration of pipes. Journal of the Acoustical Society of America, 2020, 147, 1634-1647. | 0.5 | 9 |
| 166 | Exact solution of the nonlinear fin problem with exponentially temperature-dependent thermal conductivity and heat transfer coefficient. Pramana - Journal of Physics, 2020, 94, 1. | 0.9 | 9 |
| 167 | Thermoelastic response of skin using time-fractional dual-phase-lag bioheat heat transfer equation. Journal of Thermal Stresses, 2022, 45, 597-615. | 1.1 | 9 |
| 168 | Title is missing!. Meccanica, 2003, 38, 309-323. | 1.2 | 8 |
| 169 | Electro-elastic behavior induced by an external circular crack in a piezoelectric material. International Journal of Fracture, 2004, 126, 17-38. | 1.1 | 8 |
| 170 | Diffraction of SH-waves by an Interfacial Crack Between a Magnetoelectroelastic Solid and an Elastic Material. Mechanics of Advanced Materials and Structures, 2010, 17, 134-144. | 1.5 | 8 |
| 171 | Interfacial waves in dissimilar piezoelectric cubic crystals with an imperfect bonding. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1261-1265. | 1.7 | 8 |
| 172 | Elasticity and dislocations in quasicrystals with 18-fold symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2810-2814. | 0.9 | 8 |
| 173 | Effect of radial reaction force on the bending of circular plates resting on a ring support. International Journal of Mechanical Sciences, 2016, 119, 197-207. | 3.6 | 8 |
| 174 | Buckling of Standing Tapered Timoshenko Columns with Varying Flexural Rigidity Under Combined Loadings. International Journal of Structural Stability and Dynamics, 2016, 16, 1550017. | 1.5 | 8 |
| 175 | Surface effect on dynamic stability of microcantilevers on an elastic foundation under a subtangential follower force. International Journal of Mechanics and Materials in Design, 2018, 14, 91-104. | 1.7 | 8 |
| 176 | Transient hygrothermoelastic response in a porous cylinder subjected to ramp-type heat-moisture loading. Journal of Thermal Stresses, 2019, 42, 1499-1514. | 1.1 | 8 |
| 177 | Effect of warping shape on buckling of circular and rectangular columns under axial compression. Applied Mathematical Modelling, 2021, 89, 1475-1490. | 2.2 | 8 |
| 178 | Axisymmetric bending and vibration of circular nanoplates with surface stresses. Thin-Walled Structures, 2021, 166, 108086. | 2.7 | 8 |
| 179 | An Explicit Solution of Modal-Damping Ratios for Higher Modes of a Cable with an External Damper. Journal of Engineering Mechanics - ASCE, 2022, 148, . | 1.6 | 8 |
| 180 | Dynamic T-Stress for a Mode-I Crack in an Infinite Elastic Plane. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 378-381. | 1.1 | 7 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 181 | Strain incompatibility between dissimilar piezoceramics with a penny-shaped interfacial electrode. Mechanics of Materials, 2007, 39, 977-986. | 1.7 | 7 |
| 182 | Transient response of a functionally graded thermoelastic plate with a crack via fractional heat conduction. Theoretical and Applied Fracture Mechanics, 2019, 104, 102318. | 2.1 | 7 |
| 183 | Elasticity solution of functionally graded beams with consideration of the flexoelectric effect. Journal Physics D: Applied Physics, 2020, 53, 105301. | 1.3 | 7 |
| 184 | Stability of cantilever on elastic foundation under a subtangential follower force via shear deformation beam theories. Thin-Walled Structures, 2020, 154, 106853. | 2.7 | 7 |
| 185 | Bending fracture of ultra-thin plates with surface elasticity containing a thickness-through crack. International Journal of Solids and Structures, 2021, 226-227, 111093. | 1.3 | 7 |
| 186 | Hygrothermoelastic damping of beam resonators with non-Fourier and non-Fick effects. Thin-Walled Structures, 2021, 168, 108283. | 2.7 | 7 |
| 187 | Free vibration of circular and annular nanoplates with surface and flexoelectric effects. Mechanics of Advanced Materials and Structures, 2022, 29, 6705-6717. | 1.5 | 7 |
| 188 | Electroelastic analysis of a cracked piezoelectric ceramic strip sandwiched between two elastic dielectrics. European Journal of Mechanics, A/Solids, 2005, 24, 69-80. | 2.1 | 6 |
| 189 | Elastic Response of a Piezoelectric Ceramic Plate with Two Penny-shaped Electrodes at the Opposite Surfaces Under an Electric Load. Journal of Intelligent Material Systems and Structures, 2007, 18, 743-751. | 1.4 | 6 |
| 190 | Approximate solution to an integral equation with fixed singularity for a cruciform crack. Applied Mathematics Letters, 2008, 21, 1238-1244. | 1.5 | 6 |
| 191 | Interface crack problem of functionally graded piezoelectric materials: effects of the position of electromechanical impact and gradient. Acta Mechanica, 2009, 207, 69-82. | 1.1 | 6 |
| 192 | Buckling load and critical length of nanowires on an elastic substrate. Comptes Rendus - Mecanique, 2013, 341, 636-645. | 2.1 | 6 |
| 193 | Effect of initial T-stress on stress intensity factor for a crack in a thin pre-stressed layer. Engineering Fracture Mechanics, 2015, 150, 19-27. | 2.0 | 6 |
| 194 | Effect of an elastic substrate on buckling of free-standing nanocolumns. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2015, 95, 396-405. | 0.9 | 6 |
| 195 | Dynamic Response of a Piezoelectric Material with a Conducting Rigid Inclusion. Meccanica, 2000, 35, 383-392. | 1.2 | 5 |
| 196 | Comparison of Dynamic Response of a Piezoelectric Ceramic Containing two Parallel Cracks via two Methods of Laplace Inversion. International Journal of Fracture, 2003, 122, L131-L136. | 1.1 | 5 |
| 197 | Transient response of a semi-infinite piezoelectric layer with a surface permeable crack. Zeitschrift Fur Angewandte Mathematik Und Physik, 2006, 57, 636-651. | 0.7 | 5 |
| 198 | Uniaxial tension and tensile creep behaviors of EPS. Central South University, 2008, 15, 202-205. | 0.5 | 5 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 199 | The stress field and energy of screw dislocation in smectic A liquid crystals and the mistakes of the classical solution. Chinese Physics B, 2014, 23, 046102. | 0.7 | 5 |
| 200 | Effect of T-stress on branch angle of moving cracks. Mechanics Research Communications, 2014, 56, 26-30. | 1.0 | 5 |
| 201 | Double cantilever beam model for functionally graded materials based on two-dimensional theory of elasticity. Engineering Fracture Mechanics, 2015, 135, 232-244. | 2.0 | 5 |
| 202 | Effect of the Casimir Force on Buckling of a Double-Nanowire System with Surface Effects. International Journal of Structural Stability and Dynamics, 2018, 18, 1850118. | 1.5 | 5 |
| 203 | Elasto-hydrodynamics of quasicrystals with a crack under sudden impacts. Philosophical Magazine Letters, 2018, 98, 419-436. | 0.5 | 5 |
| 204 | Generalized Fractional Heat Conduction in a One-Dimensional Functionally Graded Material Layer. Journal of Thermophysics and Heat Transfer, 2019, 33, 946-956. | 0.9 | 5 |
| 205 | Effect of the gradient on the deflection of functionally graded microcantilever beams with surface stress. Acta Mechanica, 2020, 231, 4185-4198. | 1.1 | 5 |
| 206 | Temperature distribution of conductive-convective-radiative fins with temperature-dependent thermal conductivity. International Communications in Heat and Mass Transfer, 2020, 117, 104799. | 2.9 | 5 |
| 207 | Effect of phase lags of moisture–heat flow on the hygrothermoelastic field of hollow cylinders with convective surfaces. Mechanics Based Design of Structures and Machines, 2023, 51, 3004-3025. | 3.4 | 5 |
| 208 | Torsion of an elastic medium containing a nanosized penny-shaped crack with surface effects. International Journal of Fracture, 2021, 231, 189-199. | 1.1 | 5 |
| 209 | Flamant problem of a cubic quasicrystal half-plane. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1. | 0.7 | 5 |
| 210 | Interaction of multiple parallel cracks in a pre-stressed orthotropic elastic plane. European Journal of Mechanics, A/Solids, 2022, 96, 104704. | 2.1 | 5 |
| 211 | Antiplane Permeable Edge Cracks in a Piezoelectric Strip of Finite Width. International Journal of Fracture, 2002, 115, 35-40. | 1.1 | 4 |
| 212 | Fracture of a thin power-law nonlinear material with a crack using the DCB model. International Journal of Fracture, 2016, 201, 119-125. | 1.1 | 4 |
| 213 | Mechanical performance of piezoelectric fiber composites and electroelastic field concentration near the electrode edges. Materials and Design, 2017, 128, 71-79. | 3.3 | 4 |
| 214 | Nonclassical axisymmetric bending of circular Mindlin plates with radial force. Meccanica, 2019, 54, 1623-1645. | 1.2 | 4 |
| 215 | Full incremental elastic field induced by a mode-I crack in a prestressed orthotropic material. Engineering Fracture Mechanics, 2020, 235, 107070. | 2.0 | 4 |
| 216 | Singular elastic field induced by a rigid line adhering to a micro/nanoscale plate during bending. Applied Mathematical Modelling, 2022, 108, 567-584. | 2.2 | 4 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 217 | Approximate solution of a system of linear integral equations by the Taylor expansion method. International Journal of Computer Mathematics, 2009, 86, 924-937. | 1.0 | 3 |
| 218 | Trapped modes in an infinite or semi-infinite tube with a local enlargement. Ultrasonics, 2016, 71, 59-68. | 2.1 | 3 |
| 219 | Size-dependent resonance frequencies of cantilevered and bridged nanosensors. Modern Physics Letters B, 2018, 32, 1850095. | 1.0 | 3 |
| 220 | Asymmetric trapped modes in a tube waveguide with a bulge. Acta Mechanica, 2018, 229, 1123-1136. | 1.1 | 3 |
| 221 | Cracked elastic layer with surface elasticity under antiplane shear loading. Acta Mechanica, 2020, 231, 3085-3098. | 1.1 | 3 |
| 222 | Transient response of the hygro-thermo-elastic field in hollow cylinders under heat-moisture shock via hyperbolic non-Fourier heat conduction and non-Fick diffusion. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2795-2809. | 1.1 | 3 |
| 223 | Effect of surface elasticity on transient elastic field around a mode-III crack-tip under impact loads. Engineering Fracture Mechanics, 2021, 258, 108062. | 2.0 | 3 |
| 224 | Elastic field of a rotating cubic quasicrystal disk. Archive of Applied Mechanics, 2022, 92, 2191-2205. | 1.2 | 3 |
| 225 | Bending of a nanoplate with strain-dependent surface stress containing two collinear through cracks. Meccanica, 2022, 57, 1937-1954. | 1.2 | 3 |
| 226 | Flutter and vibration of elastically restrained nanowires under a nonconservative force. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2019, 99, e201700325. | 0.9 | 2 |
| 227 | Interfacial debonding of an orthotropic half-plane bonded to a rigid foundation. International Journal of Solids and Structures, 2019, 161, 1-10. | 1.3 | 2 |
| 228 | Transient response of hygrothermoelastic field in an elastic plate with an edge crack. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2020, 100, e202000005. | 0.9 | 2 |
| 229 | Generalization of Plane Stress and Plane Strain States to Elastic Plates of Finite Thickness. Journal of Elasticity, 2020, 140, 243-256. | 0.9 | 2 |
| 230 | Antiplane shear crack in a functionally graded material strip with surface elasticity. Archive of Applied Mechanics, 2021, 91, 3035-3052. | 1.2 | 2 |
| 231 | Thermal Performance of a Convective Functionally Graded Fin Using Fractional Non-Fourier Heat Conduction. Journal of Thermophysics and Heat Transfer, 2022, 36, 3-12. | 0.9 | 2 |
| 232 | Torsional deformation of an infinite elastic solid weakened by a penny-shaped crack in the presence of surface elasticity and Dugdale plastic zone. International Journal of Solids and Structures, 2022, 254-255, 111858. | 1.3 | 2 |
| 233 | Effects of electric boundary conditions on electroelastic field in a cracked piezoelectric strip. International Journal of Fracture, 2002, 118, 15-21. | 1.1 | 1 |
| 234 | Transient Response of a Finite Bimaterial Plate Containing a Crack Perpendicular to and Terminating at the Interface. Journal of Applied Mechanics, Transactions ASME, 2006, 73, 544-554. | 1.1 | 1 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 235 | ENERGY RELEASE RATE OF INTERFACE DELAMINATION BETWEEN A THIN COATING AND AN ELASTIC SUBSTRATE. International Journal of Modern Physics B, 2008, 22, 407-416. | 1.0 | 1 |
| 236 | Effects of the Casimir Force and Surface Elasticity on the Natural Frequencies of Cantilever AFM Probes. Acta Acustica United With Acustica, 2018, 104, 87-93. | 0.8 | 1 |
| 237 | Smooth interface crack between two bonded dissimilar orthotropic elastic media under shear loading. European Journal of Mechanics, A/Solids, 2020, 81, 103935. | 2.1 | 1 |
| 238 | A Straight Dislocation in One-Dimensional Hexagonal Quasicrystals. Physica Status Solidi (B): Basic Research, 1999, 212, 19-26. | 0.7 | 1 |
| 239 | Thermal stresses of a cubic quasicrystal circular disc. Mechanics Research Communications, 2022, 124, 103913. | 1.0 | 1 |
| 240 | Discussion: "On Global Energy Release Rate of a Permeable Crack in Piezoelectric Ceramic"(Li, S., 2003) Tj ETQq0 0 0 rgBT /Overlo | 1.1 | 0 |
| 241 | Dynamic crack-opening displacement of a mode III edge crack in a semi-infinite piezoceramic strip under electric excitation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2007, 221, 1009-1017. | 1.1 | 0 |
| 242 | Effect of polymer layer on the performance of piezoelectric harvester in thickness-shear vibration. , 2009, , . | | 0 |
| 243 | Analysis of complete plasticity assumption for solid circular shaft under pure torsion and calculation of shear stress. Central South University, 2011, 18, 1018-1023. | 0.5 | 0 |
| 244 | Reply to "Comments on 'Large deflection and rotation of Timoshenko beams with frictional end supports under three-point bending'"•[C. R. Mecanique 345 (2017), doi:10.1016/j.crme.2017.01.004]. Comptes Rendus - Mecanique, 2017, 345, 298-300. | 2.1 | 0 |
| 245 | Trapped modes in an infinite tube with inhomogeneity. Modern Physics Letters B, 2020, 34, 2050060. | 1.0 | 0 |