Ke Liaoliang

List of Publications by Year in descending order

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| 112 | 7 226 | 61984 43 | ⁵⁸⁵⁸¹ 82 |
|----------|----------------|--------------------|---------------------|
| papers | citations | h-index | g-index |
| | | | |
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| 112 | 112 | 112 | 2139 |
| all docs | docs citations | times ranked | citing authors |
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KELIAOUANG

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The dynamic contact of a viscoelastic coated half-plane under a rigid flat punch. Mechanics Based Design of Structures and Machines, 2023, 51, 5925-5940. | 4.7 | 3 |
| 2 | Softening-Spring Phenomenon in Large Amplitude Vibration of Two-Layer Bi-Material Beams. International Journal of Structural Stability and Dynamics, 2022, 22, . | 2.4 | 2 |
| 3 | Free vibration of FGM Mindlin plates submerged in fluid. Engineering Structures, 2022, 259, 114144. | 5.3 | 6 |
| 4 | Vibrational power flow analysis of Timoshenko microbeams with a crack. Composite Structures, 2022, 289, 115483. | 5.8 | 3 |
| 5 | Axisymmetric contact analysis of piezoelectric materials with surface effect. Journal of Intelligent Material Systems and Structures, 2021, 32, 1643-1661. | 2.5 | 3 |
| 6 | Experimental Studies on Fretting Wear Behavior of PVDF Piezoelectric Thin Films. Materials, 2021, 14, 734. | 2.9 | 5 |
| 7 | Axisymmetric thermoelastic contact of an FGM-coated half-space under a rotating punch. Acta Mechanica, 2021, 232, 2361-2378. | 2.1 | 10 |
| 8 | Size-dependent vibration and dynamic stability of AFG microbeams immersed in fluid. Thin-Walled Structures, 2021, 161, 107432. | 5.3 | 10 |
| 9 | Instability Study Of Functionally Graded Micro-Beam Under The Thermal-Mechanical-Electrical Multifield Coupling. , 2021, , . | | 1 |
| 10 | Fretting Wear Behavior of Three Kinds of Rubbers under Sphere-On-Flat Contact. Materials, 2021, 14, 2153. | 2.9 | 4 |
| 11 | Numerical Study of Coupled Electrical-Thermal-Mechanical-Wear Behavior in Electrical Contacts. Metals, 2021, 11, 955. | 2.3 | 12 |
| 12 | The size-dependent elastohydrodynamic lubrication contact of a coated half-plane with non-Newtonian fluid. Applied Mathematics and Mechanics (English Edition), 2021, 42, 915-930. | 3.6 | 4 |
| 13 | Modeling the temperature, crystallization, and residual stress for selective laser sintering of polymeric powder. Acta Mechanica, 2021, 232, 3635-3653. | 2.1 | 21 |
| 14 | Dynamic contact response of an elastic sphere on a piezoelectric half-space. Applied Mathematical Modelling, 2021, 100, 16-32. | 4.2 | 8 |
| 15 | Axisymmetric contact vibration analysis of a rigid spherical punch on a piezoelectric half-space. International Journal of Solids and Structures, 2021, 210-211, 224-236. | 2.7 | 9 |
| 16 | Elastohydrodynamic lubrication line contact in couple-stress elasticity. Mathematics and Mechanics of Solids, 2021, 26, 1053-1073. | 2.4 | 5 |
| 17 | Free vibration of variable thickness FGM beam submerged in fluid. Composite Structures, 2020, 233, 111582. | 5.8 | 21 |
| 18 | Surface effect on the contact problem of a piezoelectric half-plane. International Journal of Solids and Structures, 2020, 185-186, 380-393. | 2.7 | 17 |

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| 19 | Dynamic Response of a Coated Half-Plane with Hysteretic Damping Under a Harmonic Hertz Load. Acta Mechanica Solida Sinica, 2020, 33, 449-463. | 1.9 | 4 |
| 20 | Experimental Investigation on Fretting Wear Behavior of Piezoceramics under Sphere-on-Flat Contact. Tribology Transactions, 2020, 63, 971-985. | 2.0 | 9 |
| 21 | Vibrational power flow analysis of cracked functionally graded beams. Thin-Walled Structures, 2020, 150, 106626. | 5.3 | 14 |
| 22 | Functionally graded graphene reinforced composite structures: A review. Engineering Structures, 2020, 210, 110339. | 5.3 | 332 |
| 23 | Large amplitude vibration of functionally graded graphene nanocomposite annular plates in thermal environments. Composite Structures, 2020, 239, 112047. | 5.8 | 67 |
| 24 | Elastohydrodynamic Lubrication Line Contact of a Functionally Graded Material Coated Half-Plane. Journal of Tribology, 2020, 142, . | 1.9 | 4 |
| 25 | Elastohydrodynamic Lubrication Line Contact Based on Surface Elasticity Theory. Journal of Applied Mechanics, Transactions ASME, 2020, 87, . | 2.2 | 4 |
| 26 | Elastohydrodynamic lubrication line contact of piezoelectric materials. International Journal of Mechanical Sciences, 2019, 163, 105145. | 6.7 | 9 |
| 27 | Surface Effect on Static Bending of Functionally Graded Porous Nanobeams Based on Reddy's Beam Theory. International Journal of Structural Stability and Dynamics, 2019, 19, 1950062. | 2.4 | 15 |
| 28 | Frictionally excited thermoelastic dynamic instability of functionally graded materials. Acta Mechanica Sinica/Lixue Xuebao, 2019, 35, 99-111. | 3.4 | 9 |
| 29 | Crack identification of functionally graded beams using continuous wavelet transform. Composite Structures, 2019, 210, 473-485. | 5.8 | 48 |
| 30 | Nonlinear vibration of piezoelectric nanoplates using nonlocal Mindlin plate theory. Mechanics of Advanced Materials and Structures, 2018, 25, 1252-1264. | 2.6 | 50 |
| 31 | The coupled thermoelastic instability of FGM coatings with arbitrarily varying properties: in-plane sliding. Acta Mechanica, 2018, 229, 2979-2995. | 2.1 | 17 |
| 32 | An effective method for the sliding frictional contact of a conducting cylindrical punch on FGPMs. International Journal of Solids and Structures, 2018, 141-142, 127-136. | 2.7 | 18 |
| 33 | Thermal-mechanical-electrical buckling behavior of functionally graded micro-beams based on modified couple stress theory. Composite Structures, 2018, 202, 625-634. | 5.8 | 53 |
| 34 | Thermoelastic instability of functionally graded materials with interaction of frictional heat and contact resistance. Mechanics Based Design of Structures and Machines, 2018, 46, 139-156. | 4.7 | 30 |
| 35 | Wave Propagation Analysis of Piezoelectric Nanoplates Based on the Nonlocal Theory. International Journal of Structural Stability and Dynamics, 2018, 18, 1850060. | 2.4 | 33 |
| 36 | Wave propagation characteristics in magneto-electro-elastic nanoshells using nonlocal strain gradient theory. Composite Structures, 2018, 199, 10-23. | 5.8 | 59 |

Ke Liaoliang

| # | Article | IF | CITATIONS |
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| 37 | Two-Dimensional Frictionless Contact of a Coated Half-Plane Based on Couple Stress Theory. International Journal of Applied Mechanics, 2018, 10, 1850049. | 2.2 | 24 |
| 38 | The axisymmetric torsional contact problem of a functionally graded piezoelectric coated half-space. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 406-414. | 3.4 | 12 |
| 39 | Nonlocal free vibration of graded nanobeams resting on a nonlinear elastic foundation using DQM and LaDQM. Composite Structures, 2017, 176, 736-747. | 5.8 | 22 |
| 40 | Thermoelastic instability of functionally graded coating with arbitrarily varying properties considering contact resistance and frictional heat. Applied Mathematical Modelling, 2017, 43, 521-537. | 4.2 | 16 |
| 41 | Sliding frictional contact analysis of an elastic solid with couple stresses. International Journal of Mechanical Sciences, 2017, 133, 804-816. | 6.7 | 33 |
| 42 | Axisymmetric torsional fretting contact between a spherical punch and an FGPM coating. Applied Mathematical Modelling, 2017, 52, 576-589. | 4.2 | 14 |
| 43 | Axisymmetric partial slip contact of a functionally graded piezoelectric coating under a conducting punch. Journal of Intelligent Material Systems and Structures, 2017, 28, 1925-1940. | 2.5 | 8 |
| 44 | Critical examination of midplane and neutral plane formulations for vibration analysis of FGM beams. Engineering Structures, 2017, 130, 275-281. | 5.3 | 56 |
| 45 | Wave propagation in magneto-electro-elastic nanobeams via two nonlocal beam models. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 86, 253-261. | 2.7 | 41 |
| 46 | Frictionally Excited Thermoelastic Instability of Functionally Graded Materials Sliding Out-of-Plane With Contact Resistance. Journal of Applied Mechanics, Transactions ASME, 2016, 83, . | 2.2 | 6 |
| 47 | Nonlinear vibration of carbon nanotube embedded in viscous elastic matrix under parametric excitation by nonlocal continuum theory. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 195-200. | 2.7 | 48 |
| 48 | Axisymmetric frictionless contact of a functionally graded piezoelectric layered half-space under a conducting punch. International Journal of Solids and Structures, 2016, 90, 45-59. | 2.7 | 45 |
| 49 | Two-dimensional fretting contact of piezoelectric materials under a rigid conducting cylindrical punch. Journal of Mechanics of Materials and Structures, 2016, 11, 535-558. | 0.6 | 9 |
| 50 | Thermo-elastic dynamic instability of an elastic half-plane sliding against a coated half-plane. International Journal of Mechanical Sciences, 2016, 117, 275-285. | 6.7 | 9 |
| 51 | Buckling and post-buckling analyses of size-dependent piezoelectric nanoplates. Theoretical and Applied Mechanics Letters, 2016, 6, 253-267. | 2.8 | 31 |
| 52 | Frictional contact problem between a functionally graded magnetoelectroelastic layer and a rigid conducting flat punch with frictional heat generation. Journal of Thermal Stresses, 2016, 39, 245-277. | 2.0 | 25 |
| 53 | Fretting contact of a functionally graded piezoelectric layered half-plane under a conducting punch. Smart Materials and Structures, 2016, 25, 025014. | 3.5 | 26 |
| 54 | Thermoelastic instability of functionally graded materials in frictionless contact. Acta Mechanica, 2015, 226, 2295-2311. | 2.1 | 6 |

| # | Article | IF | CITATIONS |
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| 55 | Thermal contact of magneto-electro-elastic materials subjected to a conducting flat punch. Journal of Strain Analysis for Engineering Design, 2015, 50, 513-527. | 1.8 | 14 |
| 56 | Thermoelastic instability of a functionally graded layer interacting with a homogeneous layer. International Journal of Mechanical Sciences, 2015, 99, 218-227. | 6.7 | 15 |
| 57 | Sliding Frictional Contact of Functionally Graded Magneto-Electro-Elastic Materials Under a Conducting Flat Punch. Journal of Applied Mechanics, Transactions ASME, 2015, 82, . | 2.2 | 35 |
| 58 | Flexural Vibration of an Atomic Force Microscope Cantilever Based on Modified Couple Stress Theory. International Journal of Structural Stability and Dynamics, 2015, 15, 1540025. | 2.4 | 28 |
| 59 | Dynamic Buckling of Thermo-Electro-Mechanically Loaded FG-CNTRC Beams. International Journal of Structural Stability and Dynamics, 2015, 15, 1540017. | 2.4 | 33 |
| 60 | Nonlinear Vibration of Nonlocal Piezoelectric Nanoplates. International Journal of Structural Stability and Dynamics, 2015, 15, 1540013. | 2.4 | 43 |
| 61 | Size effect on the free vibration of geometrically nonlinear functionally graded micro-beams under electrical actuation and temperature change. Composite Structures, 2015, 133, 1137-1148. | 5.8 | 42 |
| 62 | THERMOELASTIC CONTACT MECHANICS OF FUNCTIONALLY GRADED MATERIALS. , 2015, , 49-50. | | 0 |
| 63 | Two-dimensional fretting contact analysis of piezoelectric materials. International Journal of Solids and Structures, 2015, 73-74, 41-54. | 2.7 | 31 |
| 64 | Free vibration of nonlocal piezoelectric nanoplates under various boundary conditions. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 93-106. | 2.7 | 130 |
| 65 | Stress Analysis for an Elastic Semispace with Surface and Graded Layer Coatings under Induced Torsion. Mechanics Based Design of Structures and Machines, 2015, 43, 74-94. | 4.7 | 19 |
| 66 | Progress in some basic problems on contact mechanics of functionally graded materials. Chinese Science Bulletin, 2015, 60, 1565-1573. | 0.7 | 0 |
| 67 | Buckling and post-buckling of size-dependent piezoelectric Timoshenko nanobeams subject to thermo-electro-mechanical loadings. International Journal of Structural Stability and Dynamics, 2014, 14, 1350067. | 2.4 | 68 |
| 68 | Axisymmetric postbuckling analysis of size-dependent functionally graded annular microplates using the physical neutral plane. International Journal of Engineering Science, 2014, 81, 66-81. | 5.0 | 80 |
| 69 | The size-dependent vibration of embedded magneto-electro-elastic cylindrical nanoshells. Smart Materials and Structures, 2014, 23, 125036. | 3.5 | 104 |
| 70 | Dynamic instability of an elastic solid sliding against a functionally graded material coated half-plane. International Journal of Mechanical Sciences, 2014, 89, 323-331. | 6.7 | 8 |
| 71 | Free vibration of size-dependent magneto-electro-elastic nanoplates based on the nonlocal theory. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 516-525. | 3.4 | 192 |
| 72 | Thermoelastic contact instability of a functionally graded layer and a homogeneous half-plane. International Journal of Solids and Structures, 2014, 51, 3962-3972. | 2.7 | 25 |

| # | Article | IF | CITATIONS |
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| 73 | Frictionless contact of a functionally graded magneto-electro-elastic layered half-plane under a conducting punch. International Journal of Solids and Structures, 2014, 51, 2791-2806. | 2.7 | 51 |
| 74 | Electro-mechanical sliding frictional contact of a piezoelectric half-plane under a rigid conducting punch. Applied Mathematical Modelling, 2014, 38, 5471-5489. | 4.2 | 29 |
| 75 | Thermo-electro-mechanical vibration of size-dependent piezoelectric cylindrical nanoshells under various boundary conditions. Composite Structures, 2014, 116, 626-636. | 5.8 | 142 |
| 76 | Free vibration of size-dependent magneto-electro-elastic nanobeams based on the nonlocal theory. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 63, 52-61. | 2.7 | 140 |
| 77 | Thermal effect on the pull-in instability of functionally graded micro-beams subjected to electrical actuation. Composite Structures, 2014, 116, 136-146. | 5.8 | 25 |
| 78 | Thermo-electro-mechanical vibration of piezoelectric nanoplates based on the nonlocal theory. Composite Structures, 2013, 106, 167-174. | 5.8 | 185 |
| 79 | Dynamic Stability of Functionally Graded Carbon Nanotube-Reinforced Composite Beams. Mechanics of Advanced Materials and Structures, 2013, 20, 28-37. | 2.6 | 136 |
| 80 | Ultra-high-temperature tensile properties and fracture behavior of ZrB2-based ceramics in air above 1500°C. Materials & Design, 2013, 52, 17-22. | 5.1 | 45 |
| 81 | Wave Propagation in Nanoscaled Periodic Layered Structures. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2427-2437. | 0.4 | 27 |
| 82 | Bending, buckling and vibration of size-dependent functionally graded annular microplates. Composite Structures, 2012, 94, 3250-3257. | 5.8 | 149 |
| 83 | Shape memory polymer composite structures with two-way shape memory effects. Materials Letters, 2012, 89, 216-218. | 2.6 | 23 |
| 84 | Thermoelastic frictional contact of functionally graded materials with arbitrarily varying properties. International Journal of Mechanical Sciences, 2012, 63, 86-98. | 6.7 | 53 |
| 85 | Nonlinear vibration of edged cracked FGM beams using differential quadrature method. Science China: Physics, Mechanics and Astronomy, 2012, 55, 2114-2121. | 5.1 | 16 |
| 86 | Thermoelectric-mechanical vibration of piezoelectric nanobeams based on the nonlocal theory. Smart Materials and Structures, 2012, 21, 025018. | 3.5 | 161 |
| 87 | Nonlinear free vibration of size-dependent functionally graded microbeams. International Journal of Engineering Science, 2012, 50, 256-267. | 5.0 | 336 |
| 88 | Nonlinear vibration of the piezoelectric nanobeams based on the nonlocal theory. Composite Structures, 2012, 94, 2038-2047. | 5.8 | 296 |
| 89 | Free vibration of size-dependent Mindlin microplates based on the modified couple stress theory. Journal of Sound and Vibration, 2012, 331, 94-106. | 3.9 | 228 |
| 90 | Two-dimensional thermoelastic contact problem of functionally graded materials involving frictional heating. International Journal of Solids and Structures, 2011, 48, 2536-2548. | 2.7 | 68 |

| # | Article | IF | CITATIONS |
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| 91 | Size effect on dynamic stability of functionally graded microbeams based on a modified couple stress theory. Composite Structures, 2011, 93, 342-350. | 5.8 | 330 |
| 92 | Flow-induced vibration and instability of embedded double-walled carbon nanotubes based on a modified couple stress theory. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1031-1039. | 2.7 | 92 |
| 93 | Thermal effect on free vibration and buckling of size-dependent microbeams. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1387-1393. | 2.7 | 106 |
| 94 | Sliding frictional contact analysis of functionally graded piezoelectric layered half-plane. Acta Mechanica, 2010, 209, 249-268. | 2.1 | 50 |
| 95 | An analytical study on the nonlinear vibration ofÂfunctionally graded beams. Meccanica, 2010, 45, 743-752. | 2.0 | 163 |
| 96 | Nonlinear free vibration of single-walled carbon nanotubes using nonlocal Timoshenko beam theory. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1727-1735. | 2.7 | 259 |
| 97 | Nonlinear free vibration of functionally graded carbon nanotube-reinforced composite beams. Composite Structures, 2010, 92, 676-683. | 5.8 | 488 |
| 98 | Fretting Contact of Two Dissimilar Elastic Bodies with Functionally Graded Coatings. Mechanics of Advanced Materials and Structures, 2010, 17, 433-447. | 2.6 | 41 |
| 99 | Nonlinear vibration of edge cracked functionally graded Timoshenko beams. Journal of Sound and Vibration, 2009, 324, 962-982. | 3.9 | 166 |
| 100 | Postbuckling analysis of edge cracked functionally graded Timoshenko beams under end shortening. Composite Structures, 2009, 90, 152-160. | 5.8 | 92 |
| 101 | Thermo-Mechanical Analysis of an Inhomogeneous Double-Layer Coating System under Hertz Pressure and Tangential Traction. Mechanics of Advanced Materials and Structures, 2009, 16, 308-318. | 2.6 | 11 |
| 102 | Nonlinear free vibration of embedded double-walled carbon nanotubes based on nonlocal Timoshenko beam theory. Computational Materials Science, 2009, 47, 409-417. | 3.0 | 224 |
| 103 | Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam Made of Functionally Graded Materials. Mechanics of Advanced Materials and Structures, 2009, 16, 488-502. | 2.6 | 142 |
| 104 | Electro-mechanical frictionless contact behavior of a functionally graded piezoelectric layered half-plane under a rigid punch. International Journal of Solids and Structures, 2008, 45, 3313-3333. | 2.7 | 79 |
| 105 | Two-dimensional contact problem for a coating–graded layer–substrate structure under a rigid cylindrical punch. International Journal of Mechanical Sciences, 2008, 50, 985-994. | 6.7 | 49 |
| 106 | Frictionless contact analysis of a functionally graded piezoelectric layered half-plane. Smart Materials and Structures, 2008, 17, 025003. | 3.5 | 41 |
| 107 | Fretting contact with finite friction of a functionally graded coating with arbitrarily varying elastic modulus Part 1: Normal loading. Journal of Strain Analysis for Engineering Design, 2007, 42, 293-304. | 1.8 | 46 |
| 108 | Fretting contact with finite friction of a functionally graded coating with arbitrarily varying elastic modulus Part 2: Tangential loading. Journal of Strain Analysis for Engineering Design, 2007, 42, 305-313. | 1.8 | 28 |

| # | Article | IF | CITATIONS |
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| 109 | Two-dimensional sliding frictional contact of functionally graded materials. European Journal of Mechanics, A/Solids, 2007, 26, 171-188. | 3.7 | 185 |
| 110 | Two-dimensional contact mechanics of functionally graded materials with arbitrary spatial variations of material properties. International Journal of Solids and Structures, 2006, 43, 5779-5798. | 2.7 | 194 |
| 111 | Love waves in an inhomogeneous fluid saturated porous layered half-space with linearly varying properties. Soil Dynamics and Earthquake Engineering, 2006, 26, 574-581. | 3.8 | 75 |
| 112 | Propagation of Love Waves in an Inhomogeneous Fluid Saturated Porous Layered Half-Space with Properties Varying Exponentially. Journal of Engineering Mechanics - ASCE, 2005, 131, 1322-1328. | 2.9 | 38 |