

Liqun Tang

List of Publications by Year in descending order

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45
papers

557
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times ranked

519
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultrathin Flexible Carbon Fiber Reinforced Hierarchical Metastructure for Broadband Microwave Absorption with Nano Lossy Composite and Multiscale Optimization. ACS Applied Materials & Interfaces, 2018, 10, 44731-44740. | 8.0 | 86 |
| 2 | Yield properties of closed-cell aluminum foam under triaxial loadings by a 3D Voronoi model. Mechanics of Materials, 2017, 104, 73-84. | 3.2 | 61 |
| 3 | Effects of statistics of cell's size and shape irregularity on mechanical properties of 2D and 3D Voronoi foams. Acta Mechanica, 2014, 225, 1361-1372. | 2.1 | 38 |
| 4 | Localized deformation in aluminium foam during middle speed Hopkinson bar impact tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 734-743. | 5.6 | 33 |
| 5 | Effect of water state and polymer chain motion on the mechanical properties of a bacterial cellulose and polyvinyl alcohol (BC/PVA) hydrogel. RSC Advances, 2015, 5, 25525-25531. | 3.6 | 26 |
| 6 | A numerical study of temperature effect on the penetration of aluminum foam sandwich panels under impact. Composites Part B: Engineering, 2017, 130, 217-229. | 12.0 | 23 |
| 7 | Heterogeneous parallel computing accelerated iterative subpixel digital image correlation. Science China Technological Sciences, 2018, 61, 74-85. | 4.0 | 23 |
| 8 | 3D SIFT aided path independent digital volume correlation and its GPU acceleration. Optics and Lasers in Engineering, 2021, 136, 106323. | 3.8 | 20 |
| 9 | Effects of Meso Shape Irregularity of Metal Foam on Yield Features under Triaxial Loading. International Journal of Structural Stability and Dynamics, 2015, 15, 1540014. | 2.4 | 17 |
| 10 | Global topology of yield surfaces of metallic foams in principal-stress space and principal-strain space studied by experiments and numerical simulations. International Journal of Mechanical Sciences, 2017, 134, 562-575. | 6.7 | 15 |
| 11 | Analysis of structural responses of bridges based on long-term structural health monitoring. Mechanics of Advanced Materials and Structures, 2018, 25, 79-86. | 2.6 | 15 |
| 12 | Dynamic Mechanical Properties of Polyvinyl Alcohol Hydrogels Measured by Double-Striker Electromagnetic Driving SHPB System. International Journal of Applied Mechanics, 2019, 11, 1950018. | 2.2 | 14 |
| 13 | Machine-learning-based damage identification methods with features derived from moving principal component analysis. Mechanics of Advanced Materials and Structures, 2020, 27, 1789-1802. | 2.6 | 14 |
| 14 | Principal Component Analysis Method with Space and Time Windows for Damage Detection. Sensors, 2019, 19, 2521. | 3.8 | 13 |
| 15 | Global topology of failure surfaces of metallic foams in principal-stress space and principal-strain space studied by numerical simulations. International Journal of Mechanical Sciences, 2019, 151, 551-562. | 6.7 | 13 |
| 16 | Study on aluminum honeycomb sandwich panels with random skin/core weld defects. Journal of Sandwich Structures and Materials, 2013, 15, 704-717. | 3.5 | 12 |
| 17 | A three-dimensional collagen-fiber network model of the extracellular matrix for the simulation of the mechanical behaviors and micro structures. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 991-1003. | 1.6 | 12 |
| 18 | Modeling and computing parameters of three-dimensional Voronoi models in nonlinear finite element simulation of closed-cell metallic foams. Mechanics of Advanced Materials and Structures, 2018, 25, 1265-1275. | 2.6 | 12 |

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|----|--|------|-----------|
| 19 | Numerical Study of the Shape Irregularity Gradient in Metallic Foams Under Different Impact Velocities. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 3892-3900. | 2.5 | 9 |
| 20 | Research on the energy absorption properties of aluminum foam composite panels with enhanced ribs subjected to uniform distributed loading. <i>Journal of Sandwich Structures and Materials</i> , 2015, 17, 170-182. | 3.5 | 8 |
| 21 | Low Velocity Penetration Mechanical Behaviors of Aluminum Foam Sandwich Plates at Elevated Temperature. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1450063. | 2.4 | 8 |
| 22 | Micromechanical Modeling of Flexural Strength for Epoxy Polymer Concrete. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750117. | 2.2 | 7 |
| 23 | Study on the Microscopic Network Model of PVA Hydrogel Based on the Tensile Behavior. <i>Acta Mechanica Solida Sinica</i> , 2019, 32, 663-674. | 1.9 | 7 |
| 24 | Residual Flexural Performance of Epoxy Polymer Concrete under Hygrothermal Conditions and Ultraviolet Aging. <i>Materials</i> , 2019, 12, 3472. | 2.9 | 7 |
| 25 | Simulation of 3D tumor cell growth using nonlinear finite element method. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 807-818. | 1.6 | 6 |
| 26 | Mechanical behaviors and probabilistic multiphase network model of polyvinyl alcohol hydrogel after being immersed in sodium hydroxide solution. <i>RSC Advances</i> , 2021, 11, 11468-11480. | 3.6 | 6 |
| 27 | Enhanced features in principal component analysis with spatial and temporal windows for damage identification. <i>Inverse Problems in Science and Engineering</i> , 2021, 29, 2877-2894. | 1.2 | 6 |
| 28 | Dynamic behavior of tough polyelectrolyte complex hydrogels from chitosan and sodium hyaluronate. <i>Carbohydrate Polymers</i> , 2022, 288, 119403. | 10.2 | 6 |
| 29 | Methodology to Design Variable-Thickness Streamlined Radomes With Graded Dielectric Multilayered Wall. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 8015-8020. | 5.1 | 5 |
| 30 | The Deformation Measurement and Analysis on Meso-Structure of Aluminum Foams During SHPB Test. <i>Journal of Testing and Evaluation</i> , 2014, 42, 621-628. | 0.7 | 5 |
| 31 | SHPB experimental method for ultra-soft materials in solution environment. <i>International Journal of Impact Engineering</i> , 2022, 159, 104051. | 5.0 | 5 |
| 32 | DESIGN AND MECHANICAL PROPERTIES OF LIQUID RUBBER-BASED CONCRETE. <i>International Journal of Applied Mechanics</i> , 2013, 05, 1350009. | 2.2 | 4 |
| 33 | Modeling of Compressive Strength for Unidirectional Fiber Reinforced Composites with Nanoparticle Modified Epoxy Matrix. <i>Materials</i> , 2019, 12, 3897. | 2.9 | 4 |
| 34 | Uniaxial compression constitutive equations for saturated hydrogel combined water-expelled behavior with environmental factors and the size effect. <i>Mechanics of Advanced Materials and Structures</i> , 0, , 1-12. | 2.6 | 4 |
| 35 | Numerical Analysis on Usability of SHPB to Characterize Dynamic Stress-Strain Relation of Metal Foam. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750075. | 2.2 | 3 |
| 36 | EFFECT OF AGGREGATE SIZE AND GRADING ON THE FAILURE BEHAVIOR OF LIQUID RUBBER-BASED CONCRETE UNDER STATIC TENSION. <i>International Journal of Applied Mechanics</i> , 2012, 04, 1250029. | 2.2 | 2 |

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|----|--|-----|-----------|
| 37 | Experimental Study of Hygrothermal and Ultraviolet Aging on the Flexural Performance of Epoxy Polymer Mortar. <i>Acta Mechanica Solida Sinica</i> , 2021, 34, 539-549. | 1.9 | 2 |
| 38 | An Experimental Study on the Dynamic Mechanical Properties of Epoxy Polymer Concrete under Ultraviolet Aging. <i>Materials</i> , 2021, 14, 2074. | 2.9 | 2 |
| 39 | Damage Analysis of Rectangular Section Composite Beam under Pure Bending. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2013, 14, 152-158. | 2.1 | 1 |
| 40 | Numerical Model for Formation and Evolution of the Bleb. <i>International Journal of Applied Mechanics</i> , 2021, 13, 2150009. | 2.2 | 1 |
| 41 | A New Method to Study Contributions of Polymer Fibers and Water Respectively to the Hydrogel Stress under Tension and Compression Using 3D Micro-Fiber Network Model. <i>International Journal of Applied Mechanics</i> , 2021, 13, 2150048. | 2.2 | 1 |
| 42 | Evaluation of Cellâ€™s Passability in the ECM Network. <i>Biophysical Journal</i> , 2020, 119, 1056-1064. | 0.5 | 1 |
| 43 | Constitutive Relation of Aluminum Foam Based on Multiple Statistical Parameters. , 2010, , . | | 0 |
| 44 | OS2-3 A Comparison of Accuracy and Convergence Capability between IC-GN Algorithm and FA-NR Algorithm in Digital Image Correlation(Digital image correlation and its applications (1),OS2 Digital) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 22. | 0.0 | 0 |
| 45 | NUMERICAL SIMULATION FOR MATERIALS WITH IRREGULAR MESO STRUCTURES. , 2015, , 101-102. | | 0 |