

# Liqun Tang

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

557  
citations

687363

13  
h-index

677142

22  
g-index

45  
all docs

45  
docs citations

45  
times ranked

519  
citing authors

#	ARTICLE	IF	CITATIONS
1	SHPB experimental method for ultra-soft materials in solution environment. <i>International Journal of Impact Engineering</i> , 2022, 159, 104051.	5.0	5
2	Dynamic behavior of tough polyelectrolyte complex hydrogels from chitosan and sodium hyaluronate. <i>Carbohydrate Polymers</i> , 2022, 288, 119403.	10.2	6
3	3D SIFT aided path independent digital volume correlation and its GPU acceleration. <i>Optics and Lasers in Engineering</i> , 2021, 136, 106323.	3.8	20
4	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
5	Numerical Model for Formation and Evolution of the Bleb. <i>International Journal of Applied Mechanics</i> , 2021, 13, 2150009.	2.2	1
6	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
7	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
8	An Experimental Study on the Dynamic Mechanical Properties of Epoxy Polymer Concrete under Ultraviolet Aging. <i>Materials</i> , 2021, 14, 2074.	2.9	2
9	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
10	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
11	Machine-learning-based damage identification methods with features derived from moving principal component analysis. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1789-1802.	2.6	14
12	Evaluation of Cellâ€™s Passability in the ECM Network. <i>Biophysical Journal</i> , 2020, 119, 1056-1064.	0.5	1
13	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
14	Residual Flexural Performance of Epoxy Polymer Concrete under Hygrothermal Conditions and Ultraviolet Aging. <i>Materials</i> , 2019, 12, 3472.	2.9	7
15	Principal Component Analysis Method with Space and Time Windows for Damage Detection. <i>Sensors</i> , 2019, 19, 2521.	3.8	13
16	Dynamic Mechanical Properties of Polyvinyl Alcohol Hydrogels Measured by Double-Striker Electromagnetic Driving SHPB System. <i>International Journal of Applied Mechanics</i> , 2019, 11, 1950018.	2.2	14
17	Modeling of Compressive Strength for Unidirectional Fiber Reinforced Composites with Nanoparticle Modified Epoxy Matrix. <i>Materials</i> , 2019, 12, 3897.	2.9	4
18	Global topology of failure surfaces of metallic foams in principal-stress space and principal-strain space studied by numerical simulations. <i>International Journal of Mechanical Sciences</i> , 2019, 151, 551-562.	6.7	13

#	ARTICLE	IF	CITATIONS
19	Modeling and computing parameters of three-dimensional Voronoi models in nonlinear finite element simulation of closed-cell metallic foams. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 1265-1275.	2.6	12
20	Analysis of structural responses of bridges based on long-term structural health monitoring. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 79-86.	2.6	15
21	Ultrathin Flexible Carbon Fiber Reinforced Hierarchical Metastructure for Broadband Microwave Absorption with Nano Lossy Composite and Multiscale Optimization. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44731-44740.	8.0	86
22	Heterogeneous parallel computing accelerated iterative subpixel digital image correlation. <i>Science China Technological Sciences</i> , 2018, 61, 74-85.	4.0	23
23	A three-dimensional collagen-fiber network model of the extracellular matrix for the simulation of the mechanical behaviors and micro structures. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 991-1003.	1.6	12
24	Global topology of yield surfaces of metallic foams in principal-stress space and principal-strain space studied by experiments and numerical simulations. <i>International Journal of Mechanical Sciences</i> , 2017, 134, 562-575.	6.7	15
25	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
26	A numerical study of temperature effect on the penetration of aluminum foam sandwich panels under impact. <i>Composites Part B: Engineering</i> , 2017, 130, 217-229.	12.0	23
27	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
28	Micromechanical Modeling of Flexural Strength for Epoxy Polymer Concrete. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750117.	2.2	7
29	Yield properties of closed-cell aluminum foam under triaxial loadings by a 3D Voronoi model. <i>Mechanics of Materials</i> , 2017, 104, 73-84.	3.2	61
30	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
31	Effects of Meso Shape Irregularity of Metal Foam on Yield Features under Triaxial Loading. <i>International Journal of Structural Stability and Dynamics</i> , 2015, 15, 1540014.	2.4	17
32	Effect of water state and polymer chain motion on the mechanical properties of a bacterial cellulose and polyvinyl alcohol (BC/PVA) hydrogel. <i>RSC Advances</i> , 2015, 5, 25525-25531.	3.6	26
33	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
34	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
35	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 ETQq1 1 0.784314 rgBT /Overl Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 22.	0.0	0
36	NUMERICAL SIMULATION FOR MATERIALS WITH IRREGULAR MESO STRUCTURES. , 2015, , 101-102.		0

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37	Effects of statistics of cell's size and shape irregularity on mechanical properties of 2D and 3D Voronoi foams. <i>Acta Mechanica</i> , 2014, 225, 1361-1372.	2.1	38
38	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
39	Localized deformation in aluminium foam during middle speed Hopkinson bar impact tests. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 734-743.	5.6	33
40	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
41	DESIGN AND MECHANICAL PROPERTIES OF LIQUID RUBBER-BASED CONCRETE. <i>International Journal of Applied Mechanics</i> , 2013, 05, 1350009.	2.2	4
42	Study on aluminum honeycomb sandwich panels with random skin/core weld defects. <i>Journal of Sandwich Structures and Materials</i> , 2013, 15, 704-717.	3.5	12
43	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
44	Constitutive Relation of Aluminum Foam Based on Multiple Statistical Parameters. , 2010, , .		0
45	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