

Tong Li

List of Publications by Year in descending order

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69
papers

902
citations

394421

19
h-index

552781

26
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69
all docs

69
docs citations

69
times ranked

1115
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy absorption of thin-walled square tubes designed by kirigami approach. <i>International Journal of Mechanical Sciences</i> , 2019, 157-158, 150-164.	6.7	55
2	Numerical investigation into the buckling behavior of advanced grid stiffened composite cylindrical shell. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 1508-1519.	3.1	45
3	Nanostructured hydroxyapatite surfaces-mediated adsorption alters recognition of BMP receptor IA and bioactivity of bone morphogenetic protein-2. <i>Acta Biomaterialia</i> , 2015, 27, 275-285.	8.3	44
4	Engineering the mechanical properties of CNT/PEEK nanocomposites. <i>RSC Advances</i> , 2019, 9, 12836-12845.	3.6	42
5	Molecular dynamics simulations of adsorption and desorption of bone morphogenetic protein-2 on textured hydroxyapatite surfaces. <i>Acta Biomaterialia</i> , 2018, 80, 121-130.	8.3	38
6	The energy absorption of thin-walled tubes designed by origami approach applied to the ends. <i>Materials and Design</i> , 2020, 192, 108725.	7.0	38
7	Facilitated receptor-recognition and enhanced bioactivity of bone morphogenetic protein-2 on magnesium-substituted hydroxyapatite surface. <i>Scientific Reports</i> , 2016, 6, 24323.	3.3	33
8	Mechanical properties of nanocomposites reinforced by carbon nanotube sponges. <i>Journal of Materiomics</i> , 2018, 4, 157-164.	5.7	32
9	Prediction of void growth and fiber volume fraction based on filament winding process mechanics. <i>Composite Structures</i> , 2020, 246, 112432.	5.8	31
10	Biophysical response of living cells to boron nitride nanoparticles: uptake mechanism and bio-mechanical characterization. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	28
11	Trans-scale modeling framework for failure analysis of cryogenic composite tanks. <i>Composites Part B: Engineering</i> , 2016, 85, 41-49.	12.0	27
12	Immobilization of Radionuclide ¹³³ Cs by Magnesium Silicate Hydrate Cement. <i>Materials</i> , 2020, 13, 146.	2.9	26
13	Multiscale numerical and experimental investigation into the evolution of process-induced residual strain/stress in 3D woven composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105913.	7.6	26
14	An integrated macro/micro-scale approach for in situ evaluation of matrix cracking in the polymer matrix of cryogenic composite tanks. <i>Composite Structures</i> , 2019, 216, 201-212.	5.8	25
15	Spontaneous calcium signaling of cartilage cells: from spatiotemporal features to biophysical modeling. <i>FASEB Journal</i> , 2019, 33, 4675-4687.	0.5	24
16	Hierarchical multiscale model for biomechanics analysis of microfilament networks. <i>Journal of Applied Physics</i> , 2013, 113, 194701.	2.5	21
17	Heterogeneous nanomechanical properties of type I collagen in longitudinal direction. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 1023-1033.	2.8	20
18	High Toughness in Ultralow Density Graphene Oxide Foam. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700030.	3.7	20

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19	Steered molecular dynamics characterization of the elastic modulus and deformation mechanisms of single natural tropocollagen molecules. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 86, 359-367.	3.1	20
20	Adhesive characteristics of low dimensional carbon nanomaterial on actin. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	14
21	Molecular investigation of the mechanical properties of single actin filaments based on vibration analyses. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 616-622.	1.6	14
22	Single-molecule insights into surface-mediated homochirality in hierarchical peptide assembly. <i>Nature Communications</i> , 2018, 9, 2711.	12.8	14
23	Improving the Energy Absorption of Cruciform With Large Global Slenderness Ratio by Kirigami Approach and Welding Technology. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	2.2	14
24	High-K dielectric sulfur-selenium alloys. <i>Science Advances</i> , 2019, 5, eaau9785.	10.3	13
25	Multiscale insights into the stretching behavior of Kevlar fiber. <i>Computational Materials Science</i> , 2020, 185, 109957.	3.0	13
26	Trans-scale analysis of composite overwrapped pressure vessel at cryogenic temperature. <i>Composite Structures</i> , 2017, 160, 1339-1347.	5.8	12
27	High-voltage and long-lasting aqueous chlorine-ion battery by virtue of seawater-in-salt electrolyte. <i>IScience</i> , 2021, 24, 101976.	4.1	12
28	Self-healable transparent polymer/salt hybrid adhesive via a ternary bonding effect. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21812-21823.	10.3	11
29	A novel rechargeable bromine-ion battery and the induction of bromine ions on metal electrodes. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3871-3878.	4.9	11
30	Alkali Activation of Copper and Nickel Slag Composite Cementitious Materials. <i>Materials</i> , 2020, 13, 1155.	2.9	11
31	Interconnecting Bone Nanoparticles by Ovalbumin Molecules to Build a Three-Dimensional Low-Density and Tough Material. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41757-41762.	8.0	9
32	Low-Velocity Impact Response of Discontinuous Kirigami Cruciform Sandwich Panel. <i>International Journal of Applied Mechanics</i> , 2019, 11, 1950046.	2.2	9
33	Rotation-induced secondary structure losses and bioactivity changes of bone morphogenetic protein-2 on strontium-substituted hydroxyapatite surfaces. <i>Applied Surface Science</i> , 2020, 511, 145623.	6.1	9
34	A subdomain smoothed Galerkin method for solid mechanics problems. <i>International Journal for Numerical Methods in Engineering</i> , 2014, 98, 781-798.	2.8	8
35	Micromechanical matrix failure analysis for unidirectional fiber-reinforced composites. <i>Thin-Walled Structures</i> , 2019, 141, 275-282.	5.3	8
36	Macroporous polyvinyl alcohol-tannic acid hydrogel with high strength and toughness for cartilage replacement. <i>Journal of Materials Science</i> , 2022, 57, 8262-8275.	3.7	8

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37	Bidirectional Correlation between Mechanics and Electrochemistry of Poly(vinyl alcohol)-Based Gel Polymer Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6106-6112.	4.6	7
38	The Energy Absorption Behavior of Cruciforms Designed by Kirigami Approach. <i>Journal of Applied Mechanics</i> , Transactions ASME, 2018, 85, .	2.2	7
39	Poly-albumen: Bio-derived structural polymer from polymerized egg white. <i>Materials Today Chemistry</i> , 2018, 9, 73-79.	3.5	7
40	Molecular investigation on the compatibility of epoxy resin with liquid oxygen. <i>Theoretical and Applied Mechanics Letters</i> , 2020, 10, 38-45.	2.8	7
41	Mechanical Properties of Solution-Blended Graphene Nanoplatelets/Polyether-Ether-Ketone Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10597-10609.	2.6	7
42	F-actin crosslinker: A key player for the mechanical stability of filopodial protrusion. <i>Journal of Applied Physics</i> , 2013, 114, 214701.	2.5	6
43	Numerical optimization of soft-mold aided co-curing process of advanced grid-stiffened composite structures. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 1765-1778.	3.1	6
44	Strain rate dependent behaviors of a hot isotropically processed Ti-6Al-4V: Mechanisms and material model. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 661-665.	1.5	6
45	Tuning the Dimensionality of Nano Ca(OH) ₂ with Surfactants for Wall Painting Consolidation. <i>ChemNanoMat</i> , 2019, 5, 1152-1158.	2.8	6
46	Achieving Self-Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-Functionalized Ovalbumin. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800932.	3.7	5
47	Carbon Nanotube Reinforced Poly(<i>p</i> -Phenylene Terephthalamide Fibers for Toughness Improvement: A Molecular Dynamics Study. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000135.	2.8	5
48	Computational Design for the Damping Characteristics of Poly(ether ether ketone). <i>Journal of Physical Chemistry B</i> , 2021, 125, 9588-9600.	2.6	5
49	Lightweight and Flexible Graphene Foam Composite with Improved Damping Properties. <i>Nanomaterials</i> , 2022, 12, 1260.	4.1	5
50	Application of Plant Growth Simulation Algorithm on Solving Discrete Facility Location Weber Problem. , 2008, , .		4
51	Investigation of the mechanical behavior of kangaroo humeral head cartilage tissue by a porohyperelastic model based on the strain-rate-dependent permeability. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 51, 248-259.	3.1	4
52	Numerical and Experimental Failure Analysis of Carbon Fiber-Reinforced Polymer-Based Pyrotechnic Separation Device. <i>International Journal of Aerospace Engineering</i> , 2020, 2020, 1-12.	0.9	4
53	An Optimal Design of the Two-Stage Square Sectional Combined Energy Absorption Structure with Local Surface Nanocrystallization. <i>Acta Mechanica Solida Sinica</i> , 2021, 34, 820-829.	1.9	4
54	Physical mechanism of the compressive response of F-actin networks: significance of crosslinker unbinding events. <i>Theoretical and Applied Mechanics Letters</i> , 2014, 4, 051006.	2.8	3

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55	Structural optimization approach for specially shaped composite tank in spacecrafts. Journal of Mechanical Science and Technology, 2015, 29, 1429-1435.	1.5	3
56	Effects of welding on energy absorption of kirigami cruciform under axial crushing. Thin-Walled Structures, 2019, 142, 297-310.	5.3	3
57	A Partitioning Method for Friction Stir Welded Joint of AA2219 Based on Tensile Test. Metals, 2020, 10, 65.	2.3	3
58	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. MRS Advances, 2018, 3, 61-66.	0.9	2
59	Understanding of Anion Transport in Polymer Electrolytes for Supercapacitors. Advanced Theory and Simulations, 2019, 2, 1800140.	2.8	2
60	Self-assembled 3D flower-like Ni(OH) ₂ nanostructures and their Ni-Zn cell applications. Journal of Applied Electrochemistry, 2020, 50, 1231-1242.	2.9	2
61	A stochastic thermostat algorithm for coarse-grained thermomechanical modeling of large-scale soft matters: Theory and application to microfilaments. Journal of Computational Physics, 2014, 263, 177-184.	3.8	1
62	Comprehensive Contribution of Filament Thickness and Crosslinker Failure to the Rheological Property of F-actin Cytoskeleton. Cellular and Molecular Bioengineering, 2015, 8, 278-284.	2.1	1
63	Physical mechanisms underlying the strain-rate-dependent mechanical behavior of kangaroo shoulder cartilage. Applied Physics Letters, 2015, 107, 103701.	3.3	1
64	Mechanical Characterization of 2219 Aluminum Alloy Welded Joints Under Bi-Axial Loading. International Journal of Applied Mechanics, 2019, 11, 1950077.	2.2	1
65	Fatigue Damage Initiation Life Prediction for Heterogeneous Metals. , 2013, , .		0
66	Nanoscale Texture on Glass and Titanium Substrates by Physical Vapor Deposition Process. Procedia Engineering, 2014, 97, 1506-1511.	1.2	0
67	Impact of the Piston Secondary Motion on its Slap Force. Applied Mechanics and Materials, 2014, 553, 582-587.	0.2	0
68	Mechanics of Microfilaments Networks: A Cross-Scales Study. Applied Mechanics and Materials, 2014, 553, 310-315.	0.2	0
69	Molecular Sliding Filament Model for Muscular Contraction Based on Multiscale Investigation. Science of Advanced Materials, 2014, 6, 1346-1350.	0.7	0