

Li-Yuan Zhang

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Directional snapping instability in a bistable tensegrity under uniaxial loads. <i>Composite Structures</i> , 2022, 283, 115153. | 5.8 | 4 |
| 2 | A tensegrity-based morphing module for assembling various deployable structures. <i>Mechanism and Machine Theory</i> , 2022, 173, 104870. | 4.5 | 5 |
| 3 | Why are isolated and collective cells greatly different in stiffness?. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 147, 104280. | 4.8 | 13 |
| 4 | Dynamics-based optimization of rolling schedule aiming at dual goals of chatter suppression and speed increase for a 5-stand cold tandem rolling mill. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 168-180. | 2.8 | 9 |
| 5 | Multilevel structural defects-induced elastic wave tunability and localization of a tensegrity metamaterial. <i>Composites Science and Technology</i> , 2021, 207, 108740. | 7.8 | 22 |
| 6 | Self-equilibrium and super-stability of rhombic truncated regular tetrahedral and cubic tensegrities using symmetry-adapted force-density matrix method. <i>International Journal of Solids and Structures</i> , 2021, 233, 111215. | 2.7 | 4 |
| 7 | Truncated regular octahedral tensegrity-based mechanical metamaterial with tunable and programmable Poisson's ratio. <i>International Journal of Mechanical Sciences</i> , 2020, 167, 105285. | 6.7 | 25 |
| 8 | Constructing various simple polygonal tensegrities by directly or recursively adding bars. <i>Composite Structures</i> , 2020, 234, 111693. | 5.8 | 8 |
| 9 | Bandgap characteristics of a tensegrity metamaterial chain with defects. <i>Extreme Mechanics Letters</i> , 2020, 36, 100668. | 4.1 | 14 |
| 10 | Stress-driven cell extrusion can maintain homeostatic cell density in response to overcrowding. <i>Soft Matter</i> , 2019, 15, 8441-8449. | 2.7 | 10 |
| 11 | Enumeration“screening method for the design of simple polygonal tensegrities. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180812. | 2.1 | 2 |
| 12 | Analytical Form-Finding for Highly Symmetric and Super-Stable Configurations of Rhombic Truncated Regular Polyhedral Tensegrities. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, . | 2.2 | 9 |
| 13 | Analytical form-finding of tensegrities using determinant of force-density matrix. <i>Composite Structures</i> , 2018, 189, 87-98. | 5.8 | 34 |
| 14 | Automatically assembled large-scale tensegrities by truncated regular polyhedral and prismatic elementary cells. <i>Composite Structures</i> , 2018, 184, 30-40. | 5.8 | 24 |
| 15 | Study of a Bimetallic Interfacial Bonding Process Based on Ultrasonic Quantitative Evaluation. <i>Metals</i> , 2018, 8, 329. | 2.3 | 7 |
| 16 | How to Realize Volume Conservation During Finite Plastic Deformation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017, 84, . | 2.2 | 0 |
| 17 | Bulge test method for measuring the hyperelastic parameters of soft membranes. <i>Acta Mechanica</i> , 2017, 228, 4187-4197. | 2.1 | 13 |
| 18 | Flatness evolution of cold-rolled high-strength steel strips during quenching process. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401774823. | 1.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Magnetoelastic Effect-Based Transmissive Stress Detection for Steel Strips: Theory and Experiment. <i>Sensors</i> , 2016, 16, 1382. | 3.8 | 8 |
| 20 | Chirality Induced by Structural Transformation in a Tensegrity: Theory and Experiment. <i>Journal of Applied Mechanics</i> , Transactions ASME, 2016, 83, . | 2.2 | 9 |
| 21 | Micromechanics methods for evaluating the effective moduli of soft neo-Hookean composites. <i>Archive of Applied Mechanics</i> , 2016, 86, 219-234. | 2.2 | 8 |
| 22 | Snapping instability in prismatic tensegrities under torsion. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016, 37, 275-288. | 3.6 | 16 |
| 23 | Relations between cubic equation, stress tensor decomposition, and von Mises yield criterion. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 1359-1370. | 3.6 | 1 |
| 24 | Constructing large-scale tensegrity structures with bar connection using prismatic elementary cells. <i>Archive of Applied Mechanics</i> , 2015, 85, 383-394. | 2.2 | 18 |
| 25 | Negative stiffness behaviors emerging in elastic instabilities of prismatic tensegrities under torsional loading. <i>International Journal of Mechanical Sciences</i> , 2015, 103, 189-198. | 6.7 | 26 |
| 26 | Stiffness matrix based form-finding method of tensegrity structures. <i>Engineering Structures</i> , 2014, 58, 36-48. | 5.3 | 96 |
| 27 | A unified solution for self-equilibrium and super-stability of rhombic truncated regular polyhedral tensegrities. <i>International Journal of Solids and Structures</i> , 2013, 50, 234-245. | 2.7 | 28 |
| 28 | A Numerical Method for Simulating Nonlinear Mechanical Responses of Tensegrity Structures Under Large Deformations. <i>Journal of Applied Mechanics</i> , Transactions ASME, 2013, 80, . | 2.2 | 27 |
| 29 | Self-equilibrium and super-stability of truncated regular polyhedral tensegrity structures: a unified analytical solution. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 3323-3347. | 2.1 | 40 |