

# Shanqing Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3018717/publications.pdf>

Version: 2024-02-01

28  
papers

2,771  
citations

361413

20  
h-index

501196

28  
g-index

28  
all docs

28  
docs citations

28  
times ranked

3466  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Crushing Behavior of Functionally Graded Lattice. <i>Jom</i> , 2021, 73, 4130-4140.   | 1.9  | 8         |
| 2  | Dynamic performance of auxetic structures: experiments and simulation. <i>Smart Materials and Structures</i> , 2020, 29, 055031.  | 3.5  | 38        |
| 3  | Impact behaviour of plate-like assemblies made of new and existing interlocking bricks: A comparative study. <i>International Journal of Impact Engineering</i> , 2018, 116, 79-93.   | 5.0  | 21        |
| 4  | Design optimization and additive manufacturing of nodes in gridshell structures. <i>Engineering Structures</i> , 2018, 160, 161-170.  | 5.3  | 52        |
| 5  | Mechanical response and dynamic deformation mechanisms of closed-cell aluminium alloy foams under dynamic loading. <i>International Journal of Impact Engineering</i> , 2018, 114, 111-122.   | 5.0  | 56        |
| 6  | Concurrent topological design of composite structures and materials containing multiple phases of distinct Poisson's ratios. <i>Engineering Optimization</i> , 2018, 50, 599-614.   | 2.6  | 11        |
| 7  | Multi-objective optimization of multi-cell tubes with origami patterns for energy absorption. <i>Thin-Walled Structures</i> , 2018, 123, 100-113.   | 5.3  | 53        |
| 8  | Examination of Needle Surface Corrosion in Electroacupuncture. <i>Acupuncture in Medicine</i> , 2018, 36, 367-376.  | 1.0  | 2         |
| 9  | Mechanical behaviour of a creased thin strip. <i>Mechanical Sciences</i> , 2018, 9, 91-102.   | 1.0  | 9         |
| 10 | Design of dimpled tubular structures for energy absorption. <i>Thin-Walled Structures</i> , 2017, 112, 31-40.   | 5.3  | 34        |
| 11 | Design of Hierarchical Structures for Synchronized Deformations. <i>Scientific Reports</i> , 2017, 7, 41183.  | 3.3  | 11        |
| 12 | Effect of sample orientation and initial microstructures on the dynamic recrystallization of a Magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 691, 150-154. | 5.6  | 27        |
| 13 | High-speed spinning disks on flexible threads. <i>Scientific Reports</i> , 2017, 7, 13111.  | 3.3  | 7         |
| 14 | Maximizing the effective Young's modulus of a composite material by exploiting the Poisson effect. <i>Composite Structures</i> , 2016, 153, 593-600.  | 5.8  | 32        |
| 15 | Energy absorption of thin-walled tubes with pre-folded origami patterns: Numerical simulation and experimental verification. <i>Thin-Walled Structures</i> , 2016, 103, 33-44.  | 5.3  | 125       |
| 16 | Lattice Ti structures with low rigidity but compatible mechanical strength: Design of implant materials for trabecular bone. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 793-799.                           | 2.2  | 26        |
| 17 | Design of lattice structures with controlled anisotropy. <i>Materials and Design</i> , 2016, 93, 443-447.   | 7.0  | 212       |
| 18 | Topological design and additive manufacturing of porous metals for bone scaffolds and orthopaedic implants: A review. <i>Biomaterials</i> , 2016, 83, 127-141.  | 11.4 | 1,492     |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Crush responses of composite cylinder under quasi-static and dynamic loading. Composite Structures, 2015, 131, 90-98.   | 5.8 | 87        |
| 20 | Collision and rebounding of circular rings on rigid target. International Journal of Impact Engineering, 2015, 79, 14-21.   | 5.0 | 22        |
| 21 | Experimental investigation of the mechanical behavior of aluminum honeycombs under quasi-static and dynamic indentation. Materials & Design, 2015, 74, 138-149.   | 5.1 | 55        |
| 22 | FINITE ELEMENT ANALYSIS OF THE DYNAMIC BEHAVIOR OF ALUMINUM HONEYCOMBS. International Journal of Computational Methods, 2014, 11, 1344001.  | 1.3 | 11        |
| 23 | Examination of Surface Conditions and Other Physical Properties of Commonly Used Stainless Steel Acupuncture Needles. Acupuncture in Medicine, 2014, 32, 146-154.                                       | 1.0 | 25        |
| 24 | Dynamic behaviour of high strength steel parts developed through laser assisted direct metal deposition. Materials & Design, 2014, 64, 650-659.   | 5.1 | 24        |
| 25 | Strength enhancement of aluminium foams and honeycombs by entrapped air under dynamic loadings. International Journal of Impact Engineering, 2014, 74, 120-125.   | 5.0 | 32        |
| 26 | Dynamic tensile behaviour of TWIP steel under intermediate strain rate loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 573, 132-140. | 5.6 | 57        |
| 27 | Experimental study of the out-of-plane dynamic compression of hexagonal honeycombs. Composite Structures, 2012, 94, 2326-2336.  | 5.8 | 189       |
| 28 | Strength enhancement of aluminium honeycombs caused by entrapped air under dynamic out-of-plane compression. International Journal of Impact Engineering, 2012, 47, 1-13.                               | 5.0 | 53        |