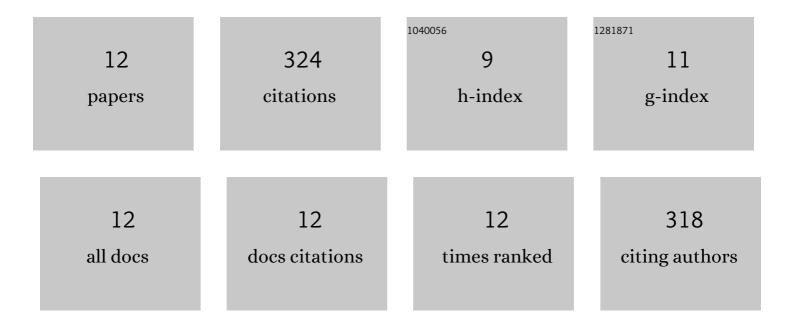
Xiaoyang Zheng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7876154/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Minimal surface designs for porous materials: from microstructures to mechanical properties. Journal of Materials Science, 2018, 53, 10194-10208. | 3.7 | 79 |
| 2 | Multifunctional load-bearing hybrid hydrogel with combined drug release and photothermal conversion functions. NPG Asia Materials, 2020, 12, . | 7.9 | 56 |
| 3 | A mathematically defined 3D auxetic metamaterial with tunable mechanical and conduction properties. Materials and Design, 2021, 198, 109313. | 7.0 | 47 |
| 4 | Controllable inverse design of auxetic metamaterials using deep learning. Materials and Design, 2021, 211, 110178. | 7.0 | 40 |
| 5 | Mechanical behavior of TPMS-based scaffolds: a comparison between minimal surfaces and their lattice structures. SN Applied Sciences, 2019, 1, 1. | 2.9 | 30 |
| 6 | Simulation and Analysis of Mechanical Properties of Silica Aerogels: From Rationalization to Prediction. Materials, 2018, 11, 214. | 2.9 | 25 |
| 7 | Structure-Dependent Analysis of Nanoporous Metals: Clues from Mechanical, Conduction, and Flow Properties. Journal of Physical Chemistry C, 2018, 122, 16803-16809. | 3.1 | 11 |
| 8 | Multi-Scale Modeling for Predicting the Stiffness and Strength of Hollow-Structured Metal Foams with Structural Hierarchy. Materials, 2018, 11, 380. | 2.9 | 10 |
| 9 | Towards stable sodium metal battery with high voltage output through dual electrolyte design. Energy Storage Materials, 2022, 48, 466-474. | 18.0 | 10 |
| 10 | Parametric and experiment studies of 3D auxetic lattices based on hollow shell cuboctahedron. Smart Materials and Structures, 2021, 30, 025042. | 3.5 | 9 |
| 11 | Excitons in Two-Dimensional Materials. , 0, , . | | 6 |
| 12 | Simulation and Analysis of Three-Dimensional Electromagnetism, Heat Transfer, and Gas Flow for Flow-Levitation System. IEEE Nanotechnology Magazine, 2017, 16, 1106-1114. | 2.0 | 1 |