Xiaoyang Zheng

List of Publications by Year
in descending order

12 papers	324 citations	1040056 9 h-index	1281871 11 g-index
12 all docs	12 docs citations	12 times ranked	318 citing authors

#	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