

# Xiaoyang Zheng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7876154/publications.pdf>

Version: 2024-02-01

12  
papers

324  
citations

1039880

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1281743

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12  
docs citations

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times ranked

318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards stable sodium metal battery with high voltage output through dual electrolyte design. <i>Energy Storage Materials</i> , 2022, 48, 466-474.	9.5	10
2	A mathematically defined 3D auxetic metamaterial with tunable mechanical and conduction properties. <i>Materials and Design</i> , 2021, 198, 109313.	3.3	47
3	Parametric and experiment studies of 3D auxetic lattices based on hollow shell cuboctahedron. <i>Smart Materials and Structures</i> , 2021, 30, 025042.	1.8	9
4	Controllable inverse design of auxetic metamaterials using deep learning. <i>Materials and Design</i> , 2021, 211, 110178.	3.3	40
5	Multifunctional load-bearing hybrid hydrogel with combined drug release and photothermal conversion functions. <i>NPC Asia Materials</i> , 2020, 12, .	3.8	56
6	Mechanical behavior of TPMS-based scaffolds: a comparison between minimal surfaces and their lattice structures. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	30
7	Minimal surface designs for porous materials: from microstructures to mechanical properties. <i>Journal of Materials Science</i> , 2018, 53, 10194-10208.	1.7	79
8	Structure-Dependent Analysis of Nanoporous Metals: Clues from Mechanical, Conduction, and Flow Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16803-16809.	1.5	11
9	Simulation and Analysis of Mechanical Properties of Silica Aerogels: From Rationalization to Prediction. <i>Materials</i> , 2018, 11, 214.	1.3	25
10	Multi-Scale Modeling for Predicting the Stiffness and Strength of Hollow-Structured Metal Foams with Structural Hierarchy. <i>Materials</i> , 2018, 11, 380.	1.3	10
11	Simulation and Analysis of Three-Dimensional Electromagnetism, Heat Transfer, and Gas Flow for Flow-Levitation System. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 1106-1114.	1.1	1
12	Excitons in Two-Dimensional Materials. , 0, , .		6