

Hang Zhang

List of Publications by Year in descending order

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13
papers

722
citations

840728

11
h-index

1058452

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g-index

14
all docs

14
docs citations

14
times ranked

846
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft mechanical metamaterials with unusual swelling behavior and tunable stress-strain curves. Science Advances, 2018, 4, eaar8535.	10.3	159
2	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9455-E9464.	7.1	129
3	Soft three-dimensional network materials with rational bio-mimetic designs. Nature Communications, 2020, 11, 1180.	12.8	120
4	Hierarchical mechanical metamaterials built with scalable tristable elements for ternary logic operation and amplitude modulation. Science Advances, 2021, 7, .	10.3	60
5	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration. Advanced Materials, 2021, 33, e2106175.	21.0	60
6	Designing Mechanical Metamaterials with Kirigami-Inspired, Hierarchical Constructions for Giant Positive and Negative Thermal Expansion. Advanced Materials, 2021, 33, e2004919.	21.0	51
7	Remotely Triggered Assembly of 3D Mesostructures Through Shape-Memory Effects. Advanced Materials, 2019, 31, e1905715.	21.0	42
8	A nonlinear mechanics model of soft network metamaterials with unusual swelling behavior and tunable phononic band gaps. Composites Science and Technology, 2019, 183, 107822.	7.8	28
9	Rapidly deployable and morphable 3D mesostructures with applications in multimodal biomedical devices. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
10	Multiscale Modeling and Simulation of Directional Solidification Process of Ni-Based Superalloy Turbine Blade Casting. Metals, 2018, 8, 632.	2.3	15
11	Bioinspired design and assembly of a multilayer cage-shaped sensor capable of multistage load bearing and collapse prevention. Nanotechnology, 2021, 32, 155506.	2.6	14
12	Liquid Crystal Elastomer Metamaterials with Giant Biaxial Thermal Shrinkage for Enhancing Skin Regeneration (Adv. Mater. 45/2021). Advanced Materials, 2021, 33, 2170356.	21.0	7
13	Panoramic Image Stitching Using Double Encoder-Decoder. SN Computer Science, 2021, 2, 1.	3.6	5