

Heng Deng

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,249
citations

430874

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580821

25
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26
all docs

26
docs citations

26
times ranked

2219
citing authors

#	ARTICLE	IF	CITATIONS
1	4D Printing: 3D Printing of Responsive and Programmable Materials. , 2022, , 213-237.		4
2	4D Printing of shape-memory polymeric scaffolds for adaptive biomedical implantation. Acta Biomaterialia, 2021, 122, 101-110.	8.3	74
3	Flexible Alkyl Tails Help Shape Matching and Close Packing in Self-Assembly of Supramolecular Structure. Crystal Growth and Design, 2021, 21, 40-44.	3.0	1
4	4D Printing Elastic Composites for Strain-Tailored Multistable Shape Morphing. ACS Applied Materials & Interfaces, 2021, 13, 12719-12725.	8.0	25
5	A machine learning workflow for 4D printing: understand and predict morphing behaviors of printed active structures. Smart Materials and Structures, 2021, 30, 015028.	3.5	17
6	Accelerate Synthesis of Metal-Organic Frameworks by a Robotic Platform and Bayesian Optimization. ACS Applied Materials & Interfaces, 2021, 13, 53485-53491.	8.0	28
7	Laser induced graphene /ceramic membrane composite: Preparation and characterization. Journal of Membrane Science, 2020, 595, 117537.	8.2	14
8	Reprogrammable 3D Shaping from Phase Change Microstructures in Elastic Composites. ACS Applied Materials & Interfaces, 2020, 12, 4014-4021.	8.0	6
9	Adsorption of atrazine by laser induced graphitic material: An efficient, scalable and green alternative for pollution abatement. Journal of Environmental Chemical Engineering, 2020, 8, 104407.	6.7	20
10	Laser reprogramming magnetic anisotropy in soft composites for reconfigurable 3D shaping. Nature Communications, 2020, 11, 6325.	12.8	113
11	Deterministic Self-Morphing of Soft-Stiff Hybridized Polymeric Films for Acoustic Metamaterials. ACS Applied Materials & Interfaces, 2020, 12, 13378-13385.	8.0	23
12	Rapid Identification of X-ray Diffraction Patterns Based on Very Limited Data by Interpretable Convolutional Neural Networks. Journal of Chemical Information and Modeling, 2020, 60, 2004-2011.	5.4	61
13	Stimulus Responsive 3D Assembly for Spatially Resolved Bifunctional Sensors. Small, 2019, 15, e1904224.	10.0	31
14	Chemically Interconnected Thermotropic Polymers for Transparency-Tunable and Impact-Resistant Windows. ACS Applied Materials & Interfaces, 2019, 11, 5393-5400.	8.0	18
15	Rapid Synthesis of Zeolitic Imidazole Frameworks in Laser-Induced Graphene Microreactors. ChemSusChem, 2019, 12, 473-479.	6.8	17
16	4D printing of a self-morphing polymer driven by a swellable guest medium. Soft Matter, 2018, 14, 765-772.	2.7	77
17	Ternary nickel iron phosphide supported on nickel foam as a high-efficiency electrocatalyst for overall water splitting. International Journal of Hydrogen Energy, 2018, 43, 7299-7306.	7.1	76
18	An instant responsive polymer driven by anisotropy of crystal phases. Materials Horizons, 2018, 5, 99-107.	12.2	50

#	ARTICLE	IF	CITATIONS
19	Bioinspired multi-responsive soft actuators controlled by laser tailored graphene structures. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5415-5423.	5.8	76
20	Monolithic and Flexible ZnS/SnO ₂ Ultraviolet Photodetectors with Lateral Graphene Electrodes. <i>Small</i> , 2017, 13, 1604197.	10.0	67
21	Bioinspired Programmable Polymer Gel Controlled by Swellable Guest Medium. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30900-30908.	8.0	38
22	Reversible Self-Assembly of 3D Architectures Actuated by Responsive Polymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41505-41511.	8.0	23
23	Graphene Coated Microfiltration Ceramic Membrane Fabricated by Photothermal Conversion of Polyimide. <i>MRS Advances</i> , 2017, 2, 2489-2495.	0.9	4
24	Laser induced MoS ₂ /carbon hybrids for hydrogen evolution reaction catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6824-6830.	10.3	134
25	Theranostic Gold Nanomicelles made from Biocompatible Comb-like Polymers for Thermochemotherapy and Multifunctional Imaging with Rapid Clearance. <i>Advanced Materials</i> , 2015, 27, 3645-3653.	21.0	141
26	Theranostic Self-Assembly Structure of Gold Nanoparticles for NIR Photothermal Therapy and X-Ray Computed Tomography Imaging. <i>Theranostics</i> , 2014, 4, 904-918.	10.0	111