

Heng Deng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12148082/publications.pdf>

Version: 2024-02-01

26
papers

1,249
citations

430874

18
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

2219
citing authors

#	ARTICLE	IF	CITATIONS
1	Theranostic Gold Nanomicelles made from Biocompatible Comblike Polymers for Thermochemotherapy and Multifunctional Imaging with Rapid Clearance. <i>Advanced Materials</i> , 2015, 27, 3645-3653.	21.0	141
2	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
3	Laser reprogramming magnetic anisotropy in soft composites for reconfigurable 3D shaping. <i>Nature Communications</i> , 2020, 11, 6325.	12.8	113
4	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
5	4D printing of a self-morphing polymer driven by a swellable guest medium. <i>Soft Matter</i> , 2018, 14, 765-772.	2.7	77
6	Ternary nickel iron phosphide supported on nickel foam as a high-efficiency electrocatalyst for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7299-7306.	7.1	76
7	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
8	4D Printing of shape-memory polymeric scaffolds for adaptive biomedical implantation. <i>Acta Biomaterialia</i> , 2021, 122, 101-110.	8.3	74
9	Monolithic and Flexible ZnS/SnO ₂ Ultraviolet Photodetectors with Lateral Graphene Electrodes. <i>Small</i> , 2017, 13, 1604197.	10.0	67
10	Rapid Identification of X-ray Diffraction Patterns Based on Very Limited Data by Interpretable Convolutional Neural Networks. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2004-2011.	5.4	61
11	An instant responsive polymer driven by anisotropy of crystal phases. <i>Materials Horizons</i> , 2018, 5, 99-107.	12.2	50
12	Bioinspired Programmable Polymer Gel Controlled by Swellable Guest Medium. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30900-30908.	8.0	38
13	Stimulus Responsive 3D Assembly for Spatially Resolved Bifunctional Sensors. <i>Small</i> , 2019, 15, e1904224.	10.0	31
14	Accelerate Synthesis of Metal-Organic Frameworks by a Robotic Platform and Bayesian Optimization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53485-53491.	8.0	28
15	4D Printing Elastic Composites for Strain-Tailored Multistable Shape Morphing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12719-12725.	8.0	25
16	Reversible Self-Assembly of 3D Architectures Actuated by Responsive Polymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41505-41511.	8.0	23
17	Deterministic Self-Morphing of Soft-Stiff Hybridized Polymeric Films for Acoustic Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13378-13385.	8.0	23
18	Adsorption of atrazine by laser induced graphitic material: An efficient, scalable and green alternative for pollution abatement. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104407.	6.7	20

#	ARTICLE	IF	CITATIONS
19	Chemically Interconnected Thermotropic Polymers for Transparency-Tunable and Impact-Resistant Windows. ACS Applied Materials & Interfaces, 2019, 11, 5393-5400.	8.0	18
20	Rapid Synthesis of Zeolitic Imidazole Frameworks in Laser-Induced Graphene Microreactors. ChemSusChem, 2019, 12, 473-479.	6.8	17
21	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
22	Laser induced graphene /ceramic membrane composite: Preparation and characterization. Journal of Membrane Science, 2020, 595, 117537.	8.2	14
23	Reprogrammable 3D Shaping from Phase Change Microstructures in Elastic Composites. ACS Applied Materials & Interfaces, 2020, 12, 4014-4021.	8.0	6
24	Graphene Coated Microfiltration Ceramic Membrane Fabricated by Photothermic Conversion of Polyimide. MRS Advances, 2017, 2, 2489-2495.	0.9	4
25	4D Printing: 3D Printing of Responsive and Programmable Materials. , 2022, , 213-237.		4
26	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