

Xinying Cheng

List of Publications by Year in descending order

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276
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchically structured electrodes for moldable supercapacitors by synergistically hybridizing vertical graphene nanosheets and MnO ₂ . Carbon, 2021, 172, 272-282.	10.3	59
2	High-performance hierarchical MnO ₂ /CNT electrode for multifunctional supercapacitors. Carbon, 2021, 184, 504-513.	10.3	54
3	Carbon fiber reinforced Zn-MnO ₂ structural composite batteries. Composites Science and Technology, 2021, 209, 108787.	7.8	49
4	Plasma immersion ion implantation of polyurethane shape memory polymer: Surface properties and protein immobilization. Applied Surface Science, 2017, 416, 686-695.	6.1	30
5	Bending shape memory behaviours of carbon fibre reinforced polyurethane-type shape memory polymer composites under relatively small deformation: Characterisation and computational simulation. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 100, 103372.	3.1	20
6	Enhanced biocompatibility of polyurethane-type shape memory polymers modified by plasma immersion ion implantation treatment and collagen coating: An in vivo study. Materials Science and Engineering C, 2019, 99, 863-874.	7.3	19
7	Failure characteristics and multi-objective optimisation of CF/EP composite sandwich panels under edgewise crushing. International Journal of Mechanical Sciences, 2020, 183, 105829.	6.7	16
8	Surface Functionalization of Electrodes and Synthesis of Dual-Phase Solid Electrolytes for Structural Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 30857-30871.	8.0	12
9	Multi-material design of a vehicle body considering crashworthiness safety and social effects. International Journal of Crashworthiness, 2020, 25, 517-526.	1.9	11
10	Enabling contactless rapid on-demand debonding and rebonding using hysteresis heating of ferrimagnetic nanoparticles. Materials and Design, 2021, 210, 110076.	7.0	6
11	Functional Ultra-High Molecular Weight Polyethylene Composites for Ligament Reconstructions and Their Targeted Applications in the Restoration of the Anterior Cruciate Ligament. Polymers, 2022, 14, 2189.	4.5	4
12	An effective method to optimise plasma immersion ion implantation: Sensitivity analysis and design based on low-density polyethylene. Plasma Processes and Polymers, 0, , .	3.0	3