

Xinhua Xu

List of Publications by Year in descending order

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236612

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2481
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#	ARTICLE	IF	CITATIONS
1	Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3390-3396.	7.2	213
2	Stimulus-driven liquid metal and liquid crystal network actuators for programmable soft robotics. <i>Materials Horizons</i> , 2021, 8, 2475-2484.	6.4	142
3	Bioinspired Phototropic MXene-Reinforced Soft Tubular Actuators for Omnidirectional Light-Tracking and Adaptive Photovoltaics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	127
4	Stretchable and Self-Healing Integrated All-Gel-State Supercapacitors Enabled by a Notch-Insensitive Supramolecular Hydrogel Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36028-36036.	4.0	94
5	Modification of Titanium Substrates with Chimeric Peptides Comprising Antimicrobial and Titanium-Binding Motifs Connected by Linkers To Inhibit Biofilm Formation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5124-5136.	4.0	81
6	Layer-by-Layer Assembled Bacterial Cellulose/Graphene Oxide Hydrogels with Extremely Enhanced Mechanical Properties. <i>Nano-Micro Letters</i> , 2018, 10, 42.	14.4	78
7	Three-Dimensional Conductive Gel Network as an Effective Binder for High-Performance Si Electrodes in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15961-15967.	4.0	74
8	Self-healable and stretchable ionogels serve as electrolytes and substrates for integrated all-in-one micro-supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 392, 123645.	6.6	54
9	Rapid synthesis of hierarchical nanostructured Polyaniline hydrogel for high power density energy storage application and three-dimensional multilayers printing. <i>Journal of Materials Science</i> , 2016, 51, 4274-4282.	1.7	51
10	All-printed solid-state substrate-versatile and high-performance micro-supercapacitors for in situ fabricated transferable and wearable energy storage via multi-material 3D printing. <i>Journal of Power Sources</i> , 2018, 403, 109-117.	4.0	45
11	Green synthesis of ultrafine Methyl-cellulose-derived porous carbon/MnO ₂ nanowires for asymmetric supercapacitors and flexible pattern stamping. <i>Applied Surface Science</i> , 2018, 462, 923-931.	3.1	43
12	Synthesis of three-dimensional hollow SnO ₂ @PPy nanotube arrays via template-assisted method and chemical vapor-phase polymerization as high performance anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 209, 700-708.	2.6	42
13	Near-Infrared Light-Driven Shape-Programmable Hydrogel Actuators Loaded with Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11834-11841.	4.0	41
14	Duplex printing of all-in-one integrated electronic devices for temperature monitoring. <i>Journal of Materials Chemistry A</i> , 2019, 7, 972-978.	5.2	40
15	A novel non-enzymatic amperometric glucose sensor based on a hollow Pt-Ni alloy nanotube array electrode with enhanced sensitivity. <i>RSC Advances</i> , 2015, 5, 70387-70394.	1.7	38
16	Novel hollow Sn-Cu composite nanoparticles anodes for Li-ion batteries prepared by galvanic replacement reaction. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1137-1145.	1.2	37
17	One-Step Electrochemical Growth of a Three-Dimensional Sn-Ni@PEO Nanotube Array as a High Performance Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22282-22288.	4.0	35
18	Phase morphology development of polypropylene/ethylene-octene copolymer blends: effects of blend composition and processing conditions. <i>Polymer Bulletin</i> , 2007, 58, 465-478.	1.7	34

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19	Skeleton networks of graphene wrapped double-layered polypyrrole/polyaniline nanotubes for supercapacitor applications. <i>Journal of Materials Science</i> , 2018, 53, 787-798.	1.7	34
20	Novel hollow SnO ₂ nanosphere@TiO ₂ yolk-shell hierarchical nanospheres as anode material for high-performance lithium-ion batteries. <i>Materials Letters</i> , 2015, 157, 228-230.	1.3	31
21	Synthesis of molecularly imprinted polymers/NiCo ₂ O ₄ nanoneedle arrays on 3D graphene electrode for determination of sulfadimidine residue in food. <i>Journal of Materials Science</i> , 2019, 54, 2066-2078.	1.7	29
22	Effect of blend composition on the rheology property of polypropylene/poly (ethylene-1-octene) blends. <i>Journal of Materials Science</i> , 2008, 43, 3218-3222.	1.7	27
23	Promising and Reversible Electrolyte with Thermal Switching Behavior for Safer Electrochemical Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7171-7179.	4.0	26
24	Influence of composition and phase morphology on rheological properties of polypropylene/poly(ethylene-octene) blends. <i>Polymer Composites</i> , 2010, 31, 105-113.	2.3	25
25	Fabrication and characterization of non-enzymatic glucose sensor based on bimetallic hollow Ag/Pt nanoparticles prepared by galvanic replacement reaction. <i>Ionics</i> , 2015, 21, 1417-1426.	1.2	25
26	Synthesis of NiCo ₂ O ₄ nanoneedle@polypyrrole arrays supported on 3D graphene electrode for high-performance detection of trace Pb ²⁺ . <i>Journal of Materials Science</i> , 2017, 52, 3893-3905.	1.7	25
27	Evolution and application of all-in-one electrochemical energy storage system. <i>Energy Storage Materials</i> , 2021, 41, 677-696.	9.5	25
28	Nanoengineered three-dimensional hybrid Fe ₂ O ₃ @PPy nanotube arrays with enhanced electrochemical performances as lithium-ion anodes. <i>Journal of Materials Science</i> , 2015, 50, 5504-5513.	1.7	23
29	A supramolecular self-assembly hydrogel binder enables enhanced cycling of SnO ₂ -based anode for high-performance lithium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 3545-3555.	1.7	23
30	Analysis of brittle-ductile transition of polypropylene/ethylene-octene copolymer blends by scanning electron microscopy and small angle laser light scattering. <i>Journal of Materials Science</i> , 2007, 42, 8645-8651.	1.7	20
31	Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. <i>Angewandte Chemie</i> , 2021, 133, 3432-3438.	1.6	20
32	Near-Infrared Light-Driven Three-Dimensional Soft Photonic Crystals Loaded with Upconversion Nanoparticles. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	20
33	Ag-Pt hollow nanoparticles anchored reduced graphene oxide composites for non-enzymatic glucose biosensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9370-9378.	1.1	19
34	All-Printed Substrate-Versatile Microsupercapacitors with Thermoreversible Self-Protection Behavior Based on Safe Sol-Gel Transition Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29960-29969.	4.0	17
35	Thermoreversible and Self-Protective Sol-Gel Transition Electrolytes for All-Printed Transferable Microsupercapacitors as Safer Micro-Energy Storage Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41819-41831.	4.0	17
36	Fiber-Shaped Electrochemical Capacitors Based on Plasma-Engraved Graphene Fibers with Oxygen Vacancies for Alternating Current Line Filtering Performance. <i>ACS Applied Energy Materials</i> , 2019, 2, 993-999.	2.5	16

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37	Sn-Cu nanotubes enveloped in three-dimensional interconnected polyaniline hydrogel framework as binder-free anode for lithium-ion battery. <i>Applied Surface Science</i> , 2017, 423, 245-254.	3.1	15
38	A novel MWCNT/nanotubular TiO ₂ (B) loaded with SnO ₂ nanocrystals ternary composite as anode material for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 3016-3027.	1.7	15
39	Magnetic Structural Color Hydrogels for Patterned Photonic Crystals and Dynamic Camouflage. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3618-3626.	2.0	15
40	Self-Healing and Highly Stretchable Hydrogel for Interfacial Compatible Flexible Paper-Based Micro-Supercapacitor. <i>Materials</i> , 2021, 14, 1852.	1.3	14
41	Thermal-Switching and Repeatable Self-Protective Hydrogel Polyelectrolytes for Energy Storage Applications of Flexible Electronics. <i>ACS Applied Energy Materials</i> , 2021, 4, 6116-6124.	2.5	14
42	Controllable design of coaxial MnO ₂ /polyaniline for asymmetric supercapacitors and stamping flexible micro-device. <i>Materials Letters</i> , 2019, 252, 80-83.	1.3	13
43	The effect of stretching on the morphological structures and mechanical properties of polypropylene and poly(ethylene-co-octene) blends. <i>Journal of Polymer Research</i> , 2011, 18, 2469-2475.	1.2	12
44	Self-supported Co ₃ O ₄ nanoneedle arrays decorated with PPy via chemical vapor phase polymerization for high-performance detection of trace Pb ²⁺ . <i>Analytical Methods</i> , 2017, 9, 1905-1911.	1.3	12
45	Three-dimensional ultrathin Sn/polypyrrole nanosheet network as high performance lithium-ion battery anode. <i>RSC Advances</i> , 2014, 4, 52074-52082.	1.7	11
46	Hollow structured Sn-Co nanospheres by galvanic replacement reaction as high-performance anode for lithium ion batteries. <i>Ionics</i> , 2015, 21, 2137-2147.	1.2	10
47	A coral-inspired nanoscale design of Sn-Cu/PANi/GO hybrid anode materials for high performance lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 21525-21531.	1.7	10
48	3D All Printing of Polypyrrole Nanotubes for High Mass Loading Flexible Supercapacitor. <i>ChemistrySelect</i> , 2019, 4, 10902-10906.	0.7	9
49	Optical, rheological, and thermal properties of hollow glass bead filled isotactic polypropylene. <i>Polymer Composites</i> , 2009, 30, 1371-1377.	2.3	8
50	Preparation of ZnO/Ti ₃ C ₂ Tx/Nafion/Au electrode. <i>Microchemical Journal</i> , 2022, 175, 107068.	2.3	8
51	Temporal evolution of phase morphology of polypropylene/poly(ethylene octene) elastomer binary polymer blends by phase contrast microscope. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2778-2784.	1.3	7
52	Morphological and fractal studies of polypropylene/poly(ethene-1-octene) blends during melt mixing using scanning electron microscopy. <i>Polymer International</i> , 2008, 57, 488-495.	1.6	7
53	A novel nano-Sn particle/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)/poly(vinyl alcohol) core-shell hierarchical composite as high-performance anode material for lithium ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7523-7529.	1.1	7
54	Preparation of porous hollow silica spheres via a layer-by-layer process and the chromatographic performance. <i>Frontiers of Materials Science</i> , 2017, 11, 33-41.	1.1	7

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55	Thermal Self-Protection Behavior of Energy Storage Devices Using a Thermally Responsive Smart Polymer Electrolyte. <i>ChemistrySelect</i> , 2022, 7, .	0.7	7
56	Effect of Short Carbon Fibers and Carbon Nanotubes Dispersed by Utilizing Hollow Glass Beads as Carriers on the Tensile and Curing Properties of Epoxy Resin. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 1519-1526.	1.9	6
57	Effects of solid polymer electrolyte coating on the composition and morphology of the solid electrolyte interphase on Sn anodes. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 955-966.	1.2	6
58	3D porous Mn ₃ O ₄ /PANi electrodes similar to reinforced concrete structure for high performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16921-16931.	1.1	6
59	Real Space and Wave-Number Space Studies of the Phase Structure and Morphology of iPP/PEOc Blends Using Scanning Electron Microscopy. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 516-524.	1.7	5
60	The thermodynamic behavior and morphology of PP/POE blends prepared by melt- and solution-mixing methods. <i>Journal of Materials Science</i> , 2009, 44, 2171-2175.	1.7	5
61	Preparation of hollow silica beads via soft template calcinating route. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 54, 147-153.	1.1	5
62	Study on phase structure and evolution of PP/PEOc blends during heat preservation process under quiescent condition. <i>Journal of Polymer Research</i> , 2011, 18, 1269-1275.	1.2	5
63	Controllable fabrication of graded and gradient porous polypropylene. <i>Journal of Porous Materials</i> , 2015, 22, 119-125.	1.3	5
64	Hollow Sn-Ni nanoparticles coated with ion-conductive polyethylene oxide as anodes for lithium ion batteries with superior cycling stability. <i>RSC Advances</i> , 2015, 5, 40807-40812.	1.7	4
65	Synthesis of Sn-Co@PMMA nanowire arrays by electrodeposition and in situ polymerization as a high performance lithium-ion battery anode. <i>RSC Advances</i> , 2015, 5, 95488-95494.	1.7	4
66	Direct Ink Printing for Flexible Zinc-Ion Hybrid Micro-Supercapacitors Based on Hierarchical Porous Carbon as Cathode. <i>ChemElectroChem</i> , 2021, 8, 4498-4508.	1.7	4
67	Off-line and in-line analysis of phase morphology and evolution during solidification process of PP/PEOc blend in an internal mixer. <i>Polymer Engineering and Science</i> , 2011, 51, 609-616.	1.5	3
68	Studies on Morphology Evolution of Polypropylene/Poly (Ethylene-co-1-octene) Blends at Different Shear Rates. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 558-563.	1.9	3
69	Tensile properties and morphological evolution of polypropylene and poly(ethylene-co-1-octene) blends. <i>Polymer Composites</i> , 2009, 30, 1486-1491.	2.3	2
70	Analysis of phase structure and evolution of PP/PEOc blends during quiescent molten-state annealing process from SEM patterns. Part II. Co-continuous morphology. <i>Colloid and Polymer Science</i> , 2013, 291, 1669-1676.	1.0	2
71	Bubble-induced lychee-shaped hollow ZnCo ₂ O ₄ @polypyrrole/sodium alginate ternary microsphere as novel anode materials for lithium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10365-10373.	1.1	2
72	Simultaneous Prediction of Retention Times and Peak Shapes of Sulfonamides in Reversed-Phase High-Performance Liquid Chromatography. <i>Transactions of Tianjin University</i> , 2018, 24, 256-262.	3.3	2

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73	Real space and wave-number space studies of the phase structure and morphology of iPP/PEOc blends using phase contrast microscopy. Journal of Composite Materials, 2012, 46, 841-849.	1.2	1
74	Low temperature plasma-initiated precipitation copolymerization of styrene and maleic anhydride. Journal of Applied Polymer Science, 2012, 125, 1352-1356.	1.3	1
75	Analysis of phase structure and evolution of PP/PEOc blends during quiescent molten-state annealing process from SEM patterns. Part I: droplet/matrix morphology. Colloid and Polymer Science, 2013, 291, 1009-1017.	1.0	1
76	Reaction kinetics studies on plasma-treated polypropylene-polystyrene interfaces. Journal of Applied Polymer Science, 2012, 126, 333-339.	1.3	0
77	Frontispiece: Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
78	Frontispiz: Near-Infrared Light-Driven Shape-Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie, 2021, 133, .	1.6	0