Xinhua Xu

List of Publications by Year
in descending order

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78	1,965	236612	276539
papers	citations	25 h-index	41 g-index

79	79	79	2481
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation of ZnO/Ti3C2Tx/Nafion/Au electrode. Microchemical Journal, 2022, 175, 107068.	2.3	8
2	Thermal Selfâ€Protection Behavior of Energy Storage Devices Using a Thermally Responsive Smart Polymer Electrolyte. ChemistrySelect, 2022, 7, .	0.7	7
3	Near-Infrared Light-Driven Shape-Programmable Hydrogel Actuators Loaded with Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2022, 14, 11834-11841.	4.0	41
4	Nearâ€Infrared Lightâ€Driven Threeâ€Dimensional Soft Photonic Crystals Loaded with Upconversion Nanoparticles. Advanced Optical Materials, 2022, 10, .	3.6	20
5	Bioinspired Phototropic MXeneâ€Reinforced Soft Tubular Actuators for Omnidirectional Lightâ€Tracking and Adaptive Photovoltaics. Advanced Functional Materials, 2022, 32, .	7.8	127
6	Magnetic Structural Color Hydrogels for Patterned Photonic Crystals and Dynamic Camouflage. ACS Applied Polymer Materials, 2022, 4, 3618-3626.	2.0	15
7	Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie - International Edition, 2021, 60, 3390-3396.	7.2	213
8	Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie, 2021, 133, 3432-3438.	1.6	20
9	Stimulus-driven liquid metal and liquid crystal network actuators for programmable soft robotics. Materials Horizons, 2021, 8, 2475-2484.	6.4	142
10	Frontispiece: Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
11	Frontispiz: Nearâ€Infrared Lightâ€Driven Shapeâ€Morphing of Programmable Anisotropic Hydrogels Enabled by MXene Nanosheets. Angewandte Chemie, 2021, 133, .	1.6	0
12	Self-Healing and Highly Stretchable Hydrogel for Interfacial Compatible Flexible Paper-Based Micro-Supercapacitor. Materials, 2021, 14, 1852.	1.3	14
13	Thermal-Switching and Repeatable Self-Protective Hydrogel Polyelectrolytes for Energy Storage Applications of Flexible Electronics. ACS Applied Energy Materials, 2021, 4, 6116-6124.	2.5	14
14	Evolution and application of all-in-one electrochemical energy storage system. Energy Storage Materials, 2021, 41, 677-696.	9.5	25
15	Direct Ink Printing for Flexible Zincâ€Ionâ€Hybrid Microâ€Supercapacitors Based on Hierarchical Porous Carbon as Cathode. ChemElectroChem, 2021, 8, 4498-4508.	1.7	4
16	Self-healable and stretchable ionogels serve as electrolytes and substrates for integrated all-in-one micro-supercapacitors. Chemical Engineering Journal, 2020, 392, 123645.	6.6	54
17	Thermoreversible and Self-Protective Solâ€“Gel Transition Electrolytes for All-Printed Transferable Microsupercapacitors as Safer Micro-Energy Storage Devices. ACS Applied Materials & Interfaces, 2020, 12, 41819-41831.	4.0	17
18	All-Printed Substrate-Versatile Microsupercapacitors with Thermoreversible Self-Protection Behavior Based on Safe Solâ€“Gel Transition Electrolytes. ACS Applied Materials & Interfaces, 2019, 11, 29960-29969.	4.0	17

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19	3D All Printing of Polypyrrole Nanotubes for High Mass Loading Flexible Supercapacitor. ChemistrySelect, 2019, 4, 10902-10906.	0.7	9
20	Fiber-Shaped Electrochemical Capacitors Based on Plasma-Engraved Graphene Fibers with Oxygen Vacancies for Alternating Current Line Filtering Performance. ACS Applied Energy Materials, 2019, 2, 993-999.	2.5	16
21	Duplex printing of all-in-one integrated electronic devices for temperature monitoring. Journal of Materials Chemistry A, 2019, 7, 972-978.	5.2	40
22	Controllable design of coaxial MnO2/polyaniline for asymmetric supercapacitors and stamping flexible micro-device. Materials Letters, 2019, 252, 80-83.	1.3	13
23	Synthesis of molecularly imprinted polymers/NiCo2O4 nanoneedle arrays on 3D graphene electrode for determination of sulfadimidine residue in food. Journal of Materials Science, 2019, 54, 2066-2078.	1.7	29
24	Promising and Reversible Electrolyte with Thermal Switching Behavior for Safer Electrochemical Storage Devices. ACS Applied Materials & Interfaces, 2018, 10, 7171-7179.	4.0	26
25	Simultaneous Prediction of Retention Times and Peak Shapes of Sulfonamides in Reversed-Phase High-Performance Liquid Chromatography. Transactions of Tianjin University, 2018, 24, 256-262.	3.3	2
26	Layer-by-Layer Assembled Bacterial Cellulose/Graphene Oxide Hydrogels with Extremely Enhanced Mechanical Properties. Nano-Micro Letters, 2018, 10, 42.	14.4	78
27	Skeleton networks of graphene wrapped double-layered polypyrrole/polyaniline nanotubes for supercapacitor applications. Journal of Materials Science, 2018, 53, 787-798.	1.7	34
28	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. Journal of Power Sources, 2018, 403, 109-117.	4.0	45
29	Stretchable and Self-Healing Integrated All-Gel-State Supercapacitors Enabled by a Notch-Insensitive Supramolecular Hydrogel Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 36028-36036.	4.0	94
30	3D porous Mn3O4/PANi electrodes similar to reinforced concrete structure for high performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2018, 29, 16921-16931.	1.1	6
31	Green synthesis of ultrafine Methyl-cellulose-derived porous carbon/MnO2 nanowires for asymmetric supercapacitors and flexible pattern stamping. Applied Surface Science, 2018, 462, 923-931.	3.1	43
32	Preparation of porous hollow silica spheres via a layer-by-layer process and the chromatographic performance. Frontiers of Materials Science, 2017, 11, 33-41.	1.1	7
33	A supramolecular self-assembly hydrogel binder enables enhanced cycling of SnO2-based anode for high-performance lithium-ion batteries. Journal of Materials Science, 2017, 52, 3545-3555.	1.7	23
34	Sn-Cu nanotubes enveloped in three-dimensional interconnected polyaniline hydrogel framework as binder-free anode for lithium-ion battery. Applied Surface Science, 2017, 423, 245-254.	3.1	15
35	Self-supported Co₃O₄ nanoneedle arrays decorated with PPy via chemical vapor phase polymerization for high-performance detection of trace Pb²⁺. Analytical Methods, 2017, 9, 1905-1911.	1.3	12
36	Effects of solid polymer electrolyte coating on the composition and morphology of the solid electrolyte interphase on Sn anodes. Journal of Solid State Electrochemistry, 2017, 21, 955-966.	1.2	6

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37	Synthesis of NiCo2O4 nanoneedle@polypyrrole arrays supported on 3D graphene electrode for high-performance detection of trace Pb2+. Journal of Materials Science, 2017, 52, 3893-3905.	1.7	25
38	A novel MWCNT/nanotubular TiO2(B) loaded with SnO2 nanocrystals ternary composite as anode material for lithium-ion batteries. Journal of Materials Science, 2017, 52, 3016-3027.	1.7	15
39	Bubble-induced lychee-shaped hollow ZnCo2O4@polypyrrole/sodium alginate ternary microsphere as novel anode materials for lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2017, 28, 10365-10373.	1.1	2
40	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. Electrochimica Acta, 2016, 209, 700-708.	2.6	42
41	Agâ€“Pt hollow nanoparticles anchored reduced graphene oxide composites for non-enzymatic glucose biosensor. Journal of Materials Science: Materials in Electronics, 2016, 27, 9370-9378.	1.1	19
42	Modification of Titanium Substrates with Chimeric Peptides Comprising Antimicrobial and Titanium-Binding Motifs Connected by Linkers To Inhibit Biofilm Formation. ACS Applied Materials & Interfaces, 2016, 8, 5124-5136.	4.0	81
43	Rapid synthesis of hierarchical nanostructured Polyaniline hydrogel for high power density energy storage application and three-dimensional multilayers printing. Journal of Materials Science, 2016, 51, 4274-4282.	1.7	51
44	Hollow Snâ€“Ni nanoparticles coated with ion-conductive polyethylene oxide as anodes for lithium ion batteries with superior cycling stability. RSC Advances, 2015, 5, 40807-40812.	1.7	4
45	Novel hollow SnO2 nanosphere@TiO2 yolkâ€“shell hierarchical nanospheres as anode material for high-performance lithium-ion batteries. Materials Letters, 2015, 157, 228-230.	1.3	31
46	A novel non-enzymatic amperometric glucose sensor based on a hollow Ptâ€“Ni alloy nanotube array electrode with enhanced sensitivity. RSC Advances, 2015, 5, 70387-70394.	1.7	38
47	A novel nano-Sn particle/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)/poly(vinyl alcohol) coreâ€“shell hierarchical composite as high-performance anode material for lithium ion batteries. Journal of Materials Science: Materials in Electronics, 2015, 26, 7523-7529.	1.1	7
48	Three-Dimensional Conductive Gel Network as an Effective Binder for High-Performance Si Electrodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 15961-15967.	4.0	74
49	Hollow structured Sn-Co nanospheres by galvanic replacement reaction as high-performance anode for lithium ion batteries. Ionics, 2015, 21, 2137-2147.	1.2	10
50	Nanoengineered three-dimensional hybrid Fe2O3@PPy nanotube arrays with enhanced electrochemical performances as lithiumâ€“ion anodes. Journal of Materials Science, 2015, 50, 5504-5513.	1.7	23
51	A coral-inspired nanoscale design of Snâ€“Cu/PANi/GO hybrid anode materials for high performance lithium-ion batteries. RSC Advances, 2015, 5, 21525-21531.	1.7	10
52	Synthesis of Snâ€“Co@PMMA nanowire arrays by electrodeposition and in situ polymerization as a high performance lithium-ion battery anode. RSC Advances, 2015, 5, 95488-95494.	1.7	4
53	Fabrication and characterization of non-enzymatic glucose sensor based on bimetallic hollow Ag/Pt nanoparticles prepared by galvanic replacement reaction. Ionics, 2015, 21, 1417-1426.	1.2	25
54	Controllable fabrication of graded and gradient porous polypropylene. Journal of Porous Materials, 2015, 22, 119-125.	1.3	5

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55	One-Step Electrochemical Growth of a Three-Dimensional Snâ€“Ni@PEO Nanotube Array as a High Performance Lithium-Ion Battery Anode. ACS Applied Materials & Interfaces, 2014, 6, 22282-22288.	4.0	35
56	Novel hollow Snâ€“Cu composite nanoparticles anodes for Li-ion batteries prepared by galvanic replacement reaction. Journal of Solid State Electrochemistry, 2014, 18, 1137-1145.	1.2	37
57	Three-dimensional ultrathin Sn/polypyrrole nanosheet network as high performance lithium-ion battery anode. RSC Advances, 2014, 4, 52074-52082.	1.7	11
58	Analysis of phase structure and evolution of PP/PEOc blends during quiescent molten-state annealing process from SEM patterns. Part II. Co-continuous morphology. Colloid and Polymer Science, 2013, 291, 1669-1676.	1.0	2
59	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
60	Studies on Morphology Evolution of Polypropylene/Poly (Ethylene-co-1-octene) Blends at Different Shear Rates. Polymer-Plastics Technology and Engineering, 2013, 52, 558-563.	1.9	3
61	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. Polymer-Plastics Technology and Engineering, 2013, 52, 1519-1526.	1.9	6
62	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
63	Low temperature plasmaâ€initiated precipitation copolymerization of styrene and maleic anhydride. Journal of Applied Polymer Science, 2012, 125, 1352-1356.	1.3	1
64	Reaction kinetics studies on plasmaâ€treated polypropyleneâ€“polystyrene interfaces. Journal of Applied Polymer Science, 2012, 126, 333-339.	1.3	0
65	Study on phase structure and evolution of PP/PEOc blends during heat preservation process under quiescent condition. Journal of Polymer Research, 2011, 18, 1269-1275.	1.2	5
66	The effect of stretching on the morphological structures and mechanical properties of polypropylene and poly(ethylene-co-octene) blends. Journal of Polymer Research, 2011, 18, 2469-2475.	1.2	12
67	Offâ€line and inâ€line analysis of phase morphology and evolution during solidification process of PP/PEOc blend in an internal mixer. Polymer Engineering and Science, 2011, 51, 609-616.	1.5	3
68	Preparation of hollow silica beads via soft template calcinating route. Journal of Sol-Gel Science and Technology, 2010, 54, 147-153.	1.1	5
69	Influence of composition and phase morphology on rheological properties of polypropylene/poly(ethyleneâ€coâ€octene) blends. Polymer Composites, 2010, 31, 105-113.	2.3	25
70	Real Space and Waveâ€Number Space Studies of the Phase Structure and Morphology of iPP/PEOc Blends Using Scanning Electron Microscopy. Macromolecular Materials and Engineering, 2009, 294, 516-524.	1.7	5
71	The thermodynamic behavior and morphology of PP/POE blends prepared by melt- and solution-mixing methods. Journal of Materials Science, 2009, 44, 2171-2175.	1.7	5
72	Optical, rheological, and thermal properties of hollow glass bead filled isotactic polypropylene. Polymer Composites, 2009, 30, 1371-1377.	2.3	8

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73	Tensile properties and morphological evolution of polypropylene and poly(ethyleneâ€coâ€1â€octene) blends. Polymer Composites, 2009, 30, 1486-1491.	2.3	2
74	Effect of blend composition on the rheology property of polypropylene/poly (ethylene-1-octene) blends. Journal of Materials Science, 2008, 43, 3218-3222.	1.7	27
75	Morphological and fractal studies of polypropylene/poly(ethene-1-octene) blends during melt mixing using scanning electron microscopy. Polymer International, 2008, 57, 488-495.	1.6	7
76	Temporal evolution of phase morphology of polypropylene/poly(ethylene octene) elastomer binary polymer blends by phase contrast microscope. Journal of Applied Polymer Science, 2007, 104, 2778-2784.	1.3	7
77	Phase morphology development of polypropylene/ethylene-octene copolymer blends: effects of blend composition and processing conditions. Polymer Bulletin, 2007, 58, 465-478.	1.7	34
78	Analysis of brittleâ€“ductile transition of polypropylene/ethylene-octene copolymer blends by scanning electron microscopy and small angle laser light scattering. Journal of Materials Science, 2007, 42, 8645-8651.	1.7	20