

Zai-Xing Jiang

List of Publications by Citations

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46
papers

1,114
citations

18
h-index

32
g-index

49
ext. papers

1,470
ext. citations

7.6
avg, IF

4.52
L-index

#	Paper	IF	Citations
46	Interfacial characterization, control and modification of carbon fiber reinforced polymer composites. <i>Composites Science and Technology</i> , 2015 , 121, 56-72	8.6	143
45	Fabrication of urchin-like ZnO-MXene nanocomposites for high-performance electromagnetic absorption. <i>Ceramics International</i> , 2017 , 43, 10757-10762	5.1	110
44	A high efficiency H ₂ S gas sensor material: paper like Fe ₂ O ₃ /graphene nanosheets and structural alignment dependency of device efficiency. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6714-6717	13	79
43	A highly efficient chemical sensor material for ethanol: Al ₂ O ₃ /Graphene nanocomposites fabricated from graphene oxide. <i>Chemical Communications</i> , 2011 , 47, 6350-2	5.8	79
42	Microorganism Assisted Synthesized Nanoparticles for Catalytic Applications. <i>Energies</i> , 2019 , 12, 190	3.1	77
41	Improved mechanical properties of carbon fiber-reinforced epoxy composites by growing carbon black on carbon fiber surface. <i>Composites Science and Technology</i> , 2017 , 149, 75-80	8.6	68
40	Mechanical reinforcement fibers produced by gel-spinning of poly-acrylic acid (PAA) and graphene oxide (GO) composites. <i>Nanoscale</i> , 2013 , 5, 6265-9	7.7	37
39	Biomorphic structural batteries for robotics. <i>Science Robotics</i> , 2020 , 5,	18.6	34
38	Recent Advances in Magnetic Field-Enhanced Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10303-10316	6.1	33
37	The modification of Kevlar fibers in coupling agents by E-ray co-irradiation. <i>Fibers and Polymers</i> , 2011 , 12, 1014-1020	2	33
36	Rational design of MXene@TiO nanoarray enabling dual lithium polysulfide chemisorption towards high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020 , 12, 16678-16684	7.7	33
35	Unraveling the Origins of the Unreactive Core in Conversion Electrodes to Trigger High Sodium-Ion Electrochemistry. <i>ACS Energy Letters</i> , 2019 , 4, 2007-2012	20.1	25
34	Visible-Light-Promoted C ₂ Selective Arylation of Quinoline and Pyridine -Oxides with Diaryliodonium Tetrafluoroborate. <i>Journal of Organic Chemistry</i> , 2020 , 85, 2733-2742	4.2	21
33	Anti-freezing, moisturizing, resilient and conductive organohydrogel for sensitive pressure sensors. <i>Journal of Colloid and Interface Science</i> , 2021 , 594, 584-592	9.3	21
32	Serum-induced degradation of 3D DNA box origami observed with high-speed atomic force microscopy. <i>Nano Research</i> , 2015 , 8, 2170-2178	10	20
31	Interfacial microstructure and properties of carbon fiber-reinforced unsaturated polyester composites modified with carbon nanotubes. <i>Journal of Adhesion Science and Technology</i> , 2014 , 28, 444-453	4.53	19
30	Uncovering the underlying science behind dimensionality in the potassium battery regime. <i>Energy Storage Materials</i> , 2020 , 25, 416-425	19.4	19

29	Coral-like S-doped CoSe ₂ with enriched 1T-phase as efficient electrocatalyst for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019 , 322, 134739	6.7	18
28	Growth of carbon black onto continuous carbon fiber to produce composites with improved mechanical and interfacial properties: A step closer to industrial production. <i>Composites Science and Technology</i> , 2019 , 173, 83-89	8.6	18
27	Chemically grafting carbon nanotubes onto carbon fibers by poly(acryloyl chloride) for enhancing interfacial strength in carbon fiber/unsaturated polyester composites. <i>Fibers and Polymers</i> , 2014 , 15, 659-663	2	18
26	Synergistically coupling of 3D FeNi-LDH arrays with Ti ₃ C ₂ T _x -MXene nanosheets toward superior symmetric supercapacitor. <i>Nano Energy</i> , 2022 , 91, 106633	17.1	17
25	Facile method to functionalize graphene oxide nanoribbons and its application to Poly(p-phenylene benzobisoxazole) composite. <i>Composites Science and Technology</i> , 2018 , 165, 124-130	8.6	16
24	Highly stretchable, healable, sensitive double-network conductive hydrogel for wearable sensor. <i>Polymer</i> , 2020 , 211, 123095	3.9	15
23	Thermal and mechanical performance of electrospun chitosan/poly(vinyl alcohol) nanofibers with graphene oxide. <i>Advanced Composites and Hybrid Materials</i> , 2018 , 1, 722-730	8.7	15
22	Carbon nanotubes grafting PBO fiber: A study on the interfacial properties of epoxy composites. <i>Polymer Composites</i> , 2012 , 33, 927-932	3	14
21	Insights into enhanced sodium ion storage mechanism in Fe ₃ S ₄ : The coupling of surface chemistry, microstructural regulation and 3D electronic transport. <i>Nano Energy</i> , 2019 , 62, 384-392	17.1	13
20	CNT coatings grown on the outer and inner surfaces of magnetic hollow carbon fibers with enhanced electromagnetic interference shielding performance. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14375-14383	7.1	12
19	Acetylated SEBS Enhanced DC Insulation Performances of Polyethylene. <i>Polymers</i> , 2019 , 11,	4.5	11
18	Fabrication of light, flexible and multifunctional graphene nanoribbon fibers via a 3D solution printing method. <i>Nanotechnology</i> , 2016 , 27, 465702	3.4	10
17	Facilitating the mechanical properties of a high-performance pH-sensitive membrane by cross-linking graphene oxide and polyacrylic acid. <i>Nanotechnology</i> , 2013 , 24, 335704	3.4	10
16	Unraveling the advances of trace doping engineering for potassium ion battery anodes via tomography. <i>Journal of Energy Chemistry</i> , 2021 , 58, 355-363	12	9
15	Synthesis of novel single-walled carbon nanotubes/poly (p-phenylene benzobisoxazole) nanocomposite. <i>Polymer Bulletin</i> , 2011 , 67, 1731-1739	2.4	8
14	A Facile Route to Synthesize Nanographene Reinforced PBO Composites Fiber via in Situ Polymerization. <i>Polymers</i> , 2016 , 8,	4.5	8
13	Shape memory effect of chitosan/glycerol composite film in mixed water/ethanol solution. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47037	2.9	7
12	Use of Grafted Voltage Stabilizer to Enhance Dielectric Strength of Cross-Linked Polyethylene. <i>Polymers</i> , 2019 , 11,	4.5	6

11	Magnetic field assisted electrocatalytic oxygen evolution reaction of nickel-based materials. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1760-1767	13	6
10	Flyash/polymer composite electrolyte with internal binding interaction enables highly-stable extrinsic-interfaces of all-solid-state lithium batteries. <i>Chemical Engineering Journal</i> , 2022 , 428, 131041	14.7	6
9	Preparation and properties of PIPD nanofibers made by a swelling and ultrasonic stripping process. <i>RSC Advances</i> , 2016 , 6, 78073-78079	3.7	5
8	Constructing Interfacial Nanolayer Stabilizes 4.3 V High-Voltage All-Solid-State Lithium Batteries with PEO-Based Solid-State Electrolyte. <i>Advanced Functional Materials</i> , 2113068	15.6	5
7	Effect of a new drug releasing system on microencapsulated islet transplantation. <i>International Journal of Clinical and Experimental Pathology</i> , 2015 , 8, 12390-9	1.4	4
6	Rapidly self-healing, magnetically controllable, stretchable, smart, moldable nanoparticle composite gel. <i>New Journal of Chemistry</i> , 2020 , 44, 10586-10591	3.6	3
5	Modulating electronic structure of CoSe ₂ by Ni doping for efficient electrocatalyst for hydrogen evolution reaction. <i>Rare Metals</i> , 1	5.5	3
4	Hollow C@TiO ₂ array nanospheres as efficient sulfur hosts for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5493-5497	5.8	2
3	Engineering hierarchical porous S-doped Defective nickel Cobaltite/carbon hybrids to boost efficient asymmetric electrochemical capacitor. <i>Composites Science and Technology</i> , 2022 , 226, 109559	8.6	2
2	Magnetic Field Enhanced Electrocatalytic Oxygen Evolution of NiFe-LDH/Co O p-n Heterojunction Supported on Nickel Foam.. <i>Small Methods</i> , 2022 , e2200084	12.8	1
1	Miniature Boat Fabrication with Striking Loading Capacity in Seawater from Hydrophobic Steel Mesh. <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 762-766	0.9	0