

Baobao Chang

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,418
citations

331259

21
h-index

344852

36
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all docs

51
docs citations

51
times ranked

1070
citing authors

#	ARTICLE	IF	CITATIONS
1	Creating anion defects on hollow Co _x Ni _{1-x} O concave with dual binding sites as high-efficiency sulfur reduction reaction catalyst. <i>Chemical Engineering Journal</i> , 2022, 427, 132024.	6.6	13
2	Ice template method assists in obtaining carbonized cellulose/boron nitride aerogel with 3D spatial network structure to enhance the thermal conductivity and flame retardancy of epoxy-based composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 58-70.	9.9	105
3	Anion Doping for Layered Oxides with a Solid-Solution Reaction for Potassium-Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13379-13387.	4.0	11
4	In-situ synthesis of highly graphitized and Fe/N enriched carbon tubes as catalytic mediums for promoting multi-step conversion of lithium polysulfides. <i>Carbon</i> , 2022, 192, 418-428.	5.4	28
5	Environment-tolerant conductive and superhydrophobic poly(m-phenylene isophthalamide) fabric prepared via ¹³ C-ray activation and reduced graphene oxide/nano-SiO ₂ modification. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	3
6	High-Performance Gel Polymer Electrolyte with Self-Healing Capability for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 5267-5276.	2.5	14
7	Mechanically robust and conductive poly(acrylamide) nanocomposite hydrogel by the synergistic effect of vinyl hybrid silica nanoparticle and polypyrrole for human motion sensing. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 2834-2846.	9.9	46
8	A facile and high-effective oxygen defect engineering for improving electrochemical performance of lithium-rich manganese-based cathode materials. <i>Journal of Power Sources</i> , 2022, 536, 231456.	4.0	25
9	One-Step Synthesis of PVDF-HFP/PMMA-ZrO ₂ Gel Polymer Electrolyte to Boost the Performance of a Lithium Metal Battery. <i>ACS Applied Energy Materials</i> , 2022, 5, 7317-7327.	2.5	15
10	Design and Preparation of NiCoMn Ternary Layered Double Hydroxides with a Hollow Dodecahedral Structure for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 6772-6782.	2.5	22
11	Rational architecture design of yolk/double-shells Si-based anode material with double buffering carbon layers for high performance lithium-ion battery. <i>Green Energy and Environment</i> , 2021, 6, 517-527.	4.7	21
12	The retardation effects of lamellar slip or/and chain slip on void initiation during uniaxial stretching of oriented iPP. <i>Polymer</i> , 2021, 215, 123342.	1.8	4
13	Titanium Glycolate Nanorods with Unsaturated Sites as Multifunctional Layers for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3670-3680.	2.5	5
14	Enhancing Reaction Kinetics of Sulfur-Containing Species in Li-S Batteries by Quantum Dot-Level Tin Oxide Hydroxide Catalysts. <i>ACS Applied Energy Materials</i> , 2021, 4, 4935-4944.	2.5	6
15	Tailoring bulk Li ⁺ ion diffusion kinetics and surface lattice oxygen activity for high-performance lithium-rich manganese-based layered oxides. <i>Energy Storage Materials</i> , 2021, 37, 509-520.	9.5	55
16	Li ₂ S In Situ Grown on Three-Dimensional Porous Carbon Architecture with Electron/Ion Channels and Dual Active Sites as Cathodes of Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32968-32977.	4.0	11
17	Improving the Cycling Stability of Li-Rich Mn-Based Cathodes through Surface Modification of VOPO ₄ . <i>Energy & Fuels</i> , 2021, 35, 14148-14156.	2.5	9
18	Fe, Co-bimetallic doped C ₃ N ₄ with in-situ derived carbon tube as sulfur host for anchoring and catalyzing polysulfides in lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159883.	2.8	21

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19	Encapsulating Nanoscale Silicon inside Carbon Fiber as Flexible Self-Supporting Anode Material for Lithium-Ion Battery. ACS Applied Energy Materials, 2021, 4, 8529-8537.	2.5	24
20	Simple Approach to Fabricate an Anisotropic Wetting Surface with High Adhesive Force toward Droplet Transfer. ACS Applied Polymer Materials, 2021, 3, 4470-4477.	2.0	1
21	Preparation and Performance of Eu ³⁺ -Doped BaSnF ₄ -Based Solid-State Electrolytes for Room-Temperature Fluoride-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 12978-12989.	3.2	5
22	Strain dependent crystallization of isotactic polypropylene during solid-state stretching. Polymer Testing, 2021, 104, 107404.	2.3	7
23	The Synergistic Effect of Rare-Earth Complex Nucleating Agent and Graphene Oxide on the Non-isothermal Crystallization Behavior of iPP Originating From the Diverse Self-Assembly Morphology. Macromolecular Chemistry and Physics, 2021, 222, 2000357.	1.1	6
24	Boosting Electrochemical Performance of Lithium-Rich Manganese-Based Cathode Materials through a Dual Modification Strategy with Defect Designing and Interface Engineering. ACS Applied Materials & Interfaces, 2021, 13, 53974-53985.	4.0	28
25	Atomically Dispersed and O, N-Coordinated Mn-Based Catalyst for Promoting the Conversion of Polysulfides in Li ₂ S-Based Li-S Battery. ACS Applied Materials & Interfaces, 2021, 13, 54113-54123.	4.0	9
26	Design and Facile Synthesis of Highly Efficient and Durable Bifunctional Oxygen Electrocatalyst Fe _N /C Nanocages for Rechargeable Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 54032-54042.	4.0	14
27	Influence of crystal orientation on stretching induced void formation in poly(4-methyl-1-pentene) investigated by in situ small angle and wide angle X-ray scattering. Polymer Crystallization, 2021, 4, e10215.	0.5	0
28	Insight into the Supercapacitive Behavior of Activated Hollow Porous Carbon Spheres in Different Electrolytes. ACS Applied Energy Materials, 2021, 4, 13766-13775.	2.5	4
29	Rapid sintering method for highly conductive Li ₇ La ₃ Zr ₂ O ₁₂ ceramic electrolyte. Ceramics International, 2020, 46, 10917-10924.	2.3	146
30	Porous silicon-graphene-carbon composite as high performance anode material for lithium ion batteries. Journal of Energy Storage, 2020, 27, 101075.	3.9	31
31	Suppressing H ₂ -H ₃ phase transition in high Ni-low Co layered oxide cathode material by dual modification. Journal of Materials Chemistry A, 2020, 8, 21306-21316.	5.2	112
32	Recent progress on germanium-based anodes for lithium ion batteries: Efficient lithiation strategies and mechanisms. Energy Storage Materials, 2020, 30, 146-169.	9.5	80
33	Preparation and performances of the modified gel composite electrolyte for application of quasi-solid-state lithium sulfur battery. Chemical Engineering Journal, 2020, 389, 124300.	6.6	60
34	Spherical Gr/Si/GO/C Composite as High-Performance Anode Material for Lithium-Ion Batteries. Energy & Fuels, 2020, 34, 7639-7647.	2.5	39
35	Improving the Structure and Cycling Stability of Ni-Rich Layered Cathodes by Dual Modification of Yttrium Doping and Surface Coating. ACS Applied Materials & Interfaces, 2020, 12, 19483-19494.	4.0	91
36	Sodium phthalate as an anode material for sodium ion batteries: effect of the bridging carbonyl group. Journal of Materials Chemistry A, 2020, 8, 8469-8475.	5.2	23

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37	Hierarchically structured spherical nickel cobalt layered double hydroxides particles grown on biomass porous carbon as an advanced electrode for high specific energy asymmetric supercapacitor. <i>Journal of Energy Storage</i> , 2020, 30, 101454.	3.9	45
38	Flower-like ZnO modified with BiOI nanoparticles as adsorption/catalytic bifunctional hosts for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 51, 21-29.	7.1	30
39	Tellurium Surface Doping to Enhance the Structural Stability and Electrochemical Performance of Layered Ni-Rich Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40022-40033.	4.0	85
40	Competition effect of shear-induced nuclei and multiwalled carbon nanotubes (MWCNT) on β -isotactic polypropylene (iPP) formation in preshear injection-molded iPP/MWCNT nanocomposites. <i>Polymer Composites</i> , 2018, 39, E1149.	2.3	6
41	Influence of nucleating agent self-assembly on structural evolution of isotactic polypropylene during uniaxial stretching. <i>Polymer</i> , 2018, 138, 329-342.	1.8	29
42	Microstructure characterization in a single isotactic polypropylene spherulite by synchrotron microfocus wide angle X-ray scattering. <i>Polymer</i> , 2018, 142, 387-393.	1.8	6
43	Cavitation Behavior of Semi-Crystalline Polymers during Uniaxial Stretching Studied by Synchrotron Small-Angle X-Ray Scattering. , 2018, , .		0
44	Accelerating shear-induced crystallization and enhancing crystal orientation of isotactic-polypropylene via nucleating agent self-assembly. <i>Polymer</i> , 2018, 158, 213-222.	1.8	15
45	Critical Strains for Lamellae Deformation and Cavitation during Uniaxial Stretching of Annealed Isotactic Polypropylene. <i>Macromolecules</i> , 2018, 51, 6276-6290.	2.2	35
46	Influence of Annealing on Mechanical β -Relaxation of Isotactic Polypropylene: A Study from the Intermediate Phase Perspective. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700291.	1.7	9
47	Microstructural Evolution of β -Polypropylene during Creep: An In Situ Study by Synchrotron Small-Angle X-Ray Scattering. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700152.	1.7	9
48	Tailoring microstructure and mechanical properties of injection molded isotactic polypropylene via high temperature preshear. <i>Polymer Engineering and Science</i> , 2015, 55, 2714-2721.	1.5	9
49	Pre-shear induced anomalous distribution of β -form in injection molded iPP. <i>Polymer Testing</i> , 2013, 32, 545-552.	2.3	23
50	Enhanced β -crystal formation of isotactic polypropylene under the combined effects of acid-corroded glass fiber and preshear. <i>Polymer Composites</i> , 2013, 34, 1250-1260.	2.3	15
51	Engineering Si-Based Anode Materials with Homogeneous Distribution of SiO _x and Carbon for Lithium-Ion Batteries. <i>Energy & Fuels</i> , 0, , .	2.5	8