Baobao Chang

List of Publications by Year
in descending order

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51	1,418	331259 21	344852 36
papers	citations	h-index	g-index

51	51	51	1070
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rapid sintering method for highly conductive Li7La3Zr2O12 ceramic electrolyte. Ceramics International, 2020, 46, 10917-10924.	2.3	146
2	Suppressing H2â€“H3 phase transition in high Niâ€“low Co layered oxide cathode material by dual modification. Journal of Materials Chemistry A, 2020, 8, 21306-21316.	5.2	112
3	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. Advanced Composites and Hybrid Materials, 2022, 5, 58-70.	9.9	105
4	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
5	Tellurium Surface Doping to Enhance the Structural Stability and Electrochemical Performance of Layered Ni-Rich Cathodes. ACS Applied Materials & Interfaces, 2019, 11, 40022-40033.	4.0	85
6	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
7	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
8	Tailoring bulk Li+ ion diffusion kinetics and surface lattice oxygen activity for high-performance lithium-rich manganese-based layered oxides. Energy Storage Materials, 2021, 37, 509-520.	9.5	55
9	Mechanically robust and conductive poly(acrylamide) nanocomposite hydrogel by the synergistic effect of vinyl hybrid silica nanoparticle and polypyrrole for human motion sensing. Advanced Composites and Hybrid Materials, 2022, 5, 2834-2846.	9.9	46
10	Hierarchically structured spherical nickel cobalt layered double hydroxides particles grown on biomass porous carbon as an advanced electrode for high specific energy asymmetric supercapacitor. Journal of Energy Storage, 2020, 30, 101454.	3.9	45
11	Spherical Gr/Si/GO/C Composite as High-Performance Anode Material for Lithium-Ion Batteries. Energy & Fuels, 2020, 34, 7639-7647.	2.5	39
12	Critical Strains for Lamellae Deformation and Cavitation during Uniaxial Stretching of Annealed Isotactic Polypropylene. Macromolecules, 2018, 51, 6276-6290.	2.2	35
13	Porous siliconâ€“grapheneâ€“carbon composite as high performance anode material for lithium ion batteries. Journal of Energy Storage, 2020, 27, 101075.	3.9	31
14	Flower-like ZnO modified with BiOI nanoparticles as adsorption/catalytic bifunctional hosts for lithiumâ€“sulfur batteries. Journal of Energy Chemistry, 2020, 51, 21-29.	7.1	30
15	Influence of nucleating agent self-assembly on structural evolution of isotactic polypropylene during uniaxial stretching. Polymer, 2018, 138, 329-342.	1.8	29
16	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
17	In-situ synthesis of highly graphitized and Fe/N enriched carbon tubes as catalytic mediums for promoting multi-step conversion of lithium polysulfides. Carbon, 2022, 192, 418-428.	5.4	28
18	A facile and high-effective oxygen defect engineering for improving electrochemical performance of lithium-rich manganese-based cathode materials. Journal of Power Sources, 2022, 536, 231456.	4.0	25

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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	Pre-shear induced anomalous distribution of Î²-form in injection molded iPP. Polymer Testing, 2013, 32, 545-552.	2.3	23
21	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
22	Design and Preparation of NiCoMn Ternary Layered Double Hydroxides with a Hollow Dodecahedral Structure for High-Performance Asymmetric Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6772-6782.	2.5	22
23	Rational architecture design of yolk/double-shells Si-based anode material with double buffering carbon layers for high performance lithium-ion battery. Green Energy and Environment, 2021, 6, 517-527.	4.7	21
24	Fe, Co-bimetallic doped C3N4 with in-situ derived carbon tube as sulfur host for anchoring and catalyzing polysulfides in lithium-sulfur battery. Journal of Alloys and Compounds, 2021, 873, 159883.	2.8	21
25	Enhanced Î²â€crystal formation of isotactic polypropylene under the combined effects of acidâ€corroded glass fiber and preshear. Polymer Composites, 2013, 34, 1250-1260.	2.3	15
26	Accelerating shear-induced crystallization and enhancing crystal orientation of isotactic-polypropylene via nucleating agent self-assembly. Polymer, 2018, 158, 213-222.	1.8	15
27	One-Step Synthesis of PVDF-HFP/PMMA-ZrO₂ Gel Polymer Electrolyte to Boost the Performance of a Lithium Metal Battery. ACS Applied Energy Materials, 2022, 5, 7317-7327.	2.5	15
28	Design and Facile Synthesis of Highly Efficient and Durable Bifunctional Oxygen Electrocatalyst Feâ€“N_x/C Nanocages for Rechargeable Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 54032-54042.	4.0	14
29	High-Performance Gel Polymer Electrolyte with Self-Healing Capability for Lithium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 5267-5276.	2.5	14
30	Creating anion defects on hollow CoxNi1-xO concave with dual binding sites as high-efficiency sulfur reduction reaction catalyst. Chemical Engineering Journal, 2022, 427, 132024.	6.6	13
31	Li₂S In Situ Grown on Three-Dimensional Porous Carbon Architecture with Electron/Ion Channels and Dual Active Sites as Cathodes of Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 32968-32977.	4.0	11
32	Anion Doping for Layered Oxides with a Solid-Solution Reaction for Potassium-Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2022, 14, 13379-13387.	4.0	11
33	Tailoring microstructure and mechanical properties of injection molded isotacticâ€“polypropylene via high temperature preshear. Polymer Engineering and Science, 2015, 55, 2714-2721.	1.5	9
34	Influence of Annealing on Mechanical Î±_câ€Relaxation of Isotactic Polypropylene: A Study from the Intermediate Phase Perspective. Macromolecular Materials and Engineering, 2017, 302, 1700291.	1.7	9
35	Microstructural Evolution of Isotacticâ€Polypropylene during Creep: An In Situ Study by Synchrotron Smallâ€Angle Xâ€Ray Scattering. Macromolecular Materials and Engineering, 2017, 302, 1700152.	1.7	9
36	Improving the Cycling Stability of Li-Rich Mn-Based Cathodes through Surface Modification of VOPO₄. Energy & Fuels, 2021, 35, 14148-14156.	2.5	9

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37	Atomically Dispersed and O, N-Coordinated Mn-Based Catalyst for Promoting the Conversion of Polysulfides in Li₂S-Based Liâ€“S Battery. ACS Applied Materials & Interfaces, 2021, 13, 54113-54123.	4.0	9
38	Engineering Si-Based Anode Materials with Homogeneous Distribution of SiO_x and Carbon for Lithium-Ion Batteries. Energy & Fuels, 0, , .	2.5	8
39	Strain dependent crystallization of isotactic polypropylene during solid-state stretching. Polymer Testing, 2021, 104, 107404.	2.3	7
40	Competition effect of shearâ€induced nuclei and multiwalled carbon nanotubes (MWCNT) on Î²â€isotactic polypropylene (iPP) formation in preshear injectionâ€molded iPP/MWCNT nanocomposites. Polymer Composites, 2018, 39, E1149.	2.3	6
41	Microstructure characterization in a single isotactic polypropylene spherulite by synchrotron microfocus wide angle X-ray scattering. Polymer, 2018, 142, 387-393.	1.8	6
42	Enhancing Reaction Kinetics of Sulfur-Containing Species in Li-S Batteries by Quantum Dot-Level Tin Oxide Hydroxide Catalysts. ACS Applied Energy Materials, 2021, 4, 4935-4944.	2.5	6
43	The Synergistic Effect of Rareâ€Earth Complex Nucleating Agent and Graphene Oxide on the Nonâ€Isothermal Crystallization Behavior of iPP Originating From the Diverse Selfâ€Assembly Morphology. Macromolecular Chemistry and Physics, 2021, 222, 2000357.	1.1	6
44	Titanium Glycolate Nanorods with Unsaturated Sites as Multifunctional Layers for Advanced Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 3670-3680.	2.5	5
45	Preparation and Performance of Eu³⁺-Doped BaSnF₄-Based Solid-State Electrolytes for Room-Temperature Fluoride-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 12978-12989.	3.2	5
46	The retardation effects of lamellar slip or/and chain slip on void initiation during uniaxial stretching of oriented iPP. Polymer, 2021, 215, 123342.	1.8	4
47	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
48	Environmentâ€tolerant conductive and superhydrophobic poly(mâ€phenylene isophthalamide) fabric prepared via Î³â€ray activation and reduced graphene oxide/nano<scp>SiO₂</scp>modification. Journal of Applied Polymer Science, 2022, 139, .	1.3	3
49	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
50	Cavitation Behavior of Semi-Crystalline Polymers during Uniaxial Stretching Studied by Synchrotron Small-Angle X-Ray Scattering. , 2018, , .		0
51	Influence of crystal orientation on stretching induced void formation in poly(4â€methylâ€1â€pentene) investigated by inâ€situ smallâ€angle and wideâ€angle <scp>Xâ€</scp> ray scattering. Polymer Crystallization, 2021, 4, e10215.	0.5	0