

Caili Zhang

List of Publications by Year in descending order

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43
papers

1,342
citations

393982

19
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344852

36
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docs citations

43
times ranked

1309
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel-catalyzed N-alkylation of acylhydrazines and arylamines using alcohols and enantioselective examples. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14702-14706.	7.2	121
2	Electrospun microfibrillar membranes based on PIM-1/POSS with high oil wettability for separation of oil-water mixtures and cleanup of oil-soluble contaminants. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8772-8781.	1.8	111
3	Decarboxylation crosslinking of polyimides with high CO ₂ /CH ₄ separation performance and plasticization resistance. <i>Journal of Membrane Science</i> , 2017, 528, 206-216.	4.1	100
4	Fabrication of superhydrophobic-superoleophilic fabrics by an etching and dip-coating two-step method for oil-water separation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5030-5035.	1.8	91
5	Thermal oxidative crosslinking of phenolphthalein-based cardo polyimides with enhanced gas permeability and selectivity. <i>Journal of Membrane Science</i> , 2018, 546, 90-99.	4.1	83
6	Post-crosslinking of triptycene-based Tröger's base polymers with enhanced natural gas separation performance. <i>Journal of Membrane Science</i> , 2018, 556, 277-284.	4.1	69
7	Effects of the side groups of the spirobichroman-based diamines on the chain packing and gas separation properties of the polyimides. <i>Journal of Membrane Science</i> , 2017, 530, 176-184.	4.1	62
8	Effect of chain extender and light stabilizer on the weathering resistance of PBAT/PLA blend films prepared by extrusion blowing. <i>Polymer Degradation and Stability</i> , 2021, 183, 109455.	2.7	57
9	Nickel-catalyzed borrowing hydrogen annulations: access to diversified N-heterocycles. <i>Chemical Communications</i> , 2019, 55, 7844-7847.	2.2	53
10	Selective adsorption and separation of organic dyes in aqueous solutions by hydrolyzed PIM-1 microfibers. <i>Chemical Engineering Research and Design</i> , 2016, 109, 76-85.	2.7	50
11	Improvement of the gas barrier properties of PLA/OMMT films by regulating the interlayer spacing of OMMT and the crystallinity of PLA. <i>ACS Omega</i> , 2020, 5, 18675-18684.	1.6	50
12	Aromatic porous polymer network membranes for organic solvent nanofiltration under extreme conditions. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15891-15899.	5.2	37
13	Nickel-catalyzed N-alkylation of acylhydrazines and arylamines using alcohols and enantioselective examples. <i>Angewandte Chemie</i> , 2017, 129, 14894-14898.	1.6	35
14	Enhancing gas barrier performance of polylactic acid/lignin composite films through cooperative effect of compatibilization and nucleation. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50199.	1.3	33
15	Post-modification of PIM-1 and simultaneously in situ synthesis of porous polymer networks into PIM-1 matrix to enhance CO ₂ separation performance. <i>Journal of Membrane Science</i> , 2021, 636, 119544.	4.1	26
16	Gas barrier properties of furan-based polyester films analyzed experimentally and by molecular simulations. <i>Polymer</i> , 2021, 233, 124200.	1.8	25
17	Effect of multi-functional epoxy chain extender on the weathering resistance performance of Poly(butylene adipate-co-terephthalate) (PBAT). <i>Polymer Testing</i> , 2021, 99, 107204.	2.3	23
18	Effects of CaCO ₃ surface modification and water spraying on the weathering properties of PBAT/CaCO ₃ films. <i>Polymer Testing</i> , 2021, 102, 107334.	2.3	23

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19	Electrospun polymer of intrinsic microporosity fibers and their use in the adsorption of contaminants from a nonaqueous system. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	21
20	Effect of Diisocyanates as Compatibilizer on the Properties of BF/PBAT Composites by In Situ Reactive Compatibilization, Crosslinking and Chain Extension. <i>Materials</i> , 2020, 13, 806.	1.3	21
21	Advances in the Application of Polymers of Intrinsic Microporosity in Liquid Separation and Purification: Membrane Separation and Adsorption Separation. <i>Polymer Reviews</i> , 2021, 61, 239-279.	5.3	20
22	Improving Interfacial Adhesion of PLA/Lignin Composites by One-Step Solvent-Free Modification Method. <i>Journal of Renewable Materials</i> , 2020, 8, 1139-1147.	1.1	20
23	Preparation and Gas Separation Properties of Triptycene-Based Microporous Polyimide. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900047.	1.1	19
24	Molecular Design of Tröger's Base-Based Polymers Containing Spirobichroman Structure for Gas Separation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12783-12788.	1.8	18
25	Synthesis and characterization of bis(phenyl)fluorene-based cardo polyimide membranes for H ₂ /CH ₄ separation. <i>Journal of Materials Science</i> , 2019, 54, 10560-10569.	1.7	18
26	Enhancement of Gas Barrier Properties of Graphene Oxide/Poly (Lactic Acid) Films Using a Solvent-free Method. <i>Materials</i> , 2020, 13, 3024.	1.3	17
27	<i>In Situ</i> Formation of Microfibrillar PBAT in PGA Films: An Effective Way to Robust Barrier and Mechanical Properties for Fully Biodegradable Packaging Films. <i>ACS Omega</i> , 2022, 7, 21280-21290.	1.6	17
28	Improved properties of poly(butylene adipate-co-terephthalate)/calcium carbonate films through silane modification. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50970.	1.3	16
29	Properties and Degradability of Poly(Butylene Adipate-Co-Terephthalate)/Calcium Carbonate Films Modified by Polyethylene Glycol. <i>Polymers</i> , 2022, 14, 484.	2.0	16
30	Gas transport properties in (6FDA-TRIL)-6FDA-MDA block copolyimides. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	11
31	Preparation and Gas Separation Properties of Spirobichroman-Based Polyimides. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800157.	1.1	11
32	Fabrication and Application of Carboxymethyl Cellulose-Carbon Nanotube Aerogels. <i>Materials</i> , 2019, 12, 1867.	1.3	11
33	Transformation of the β -phase in Mg-Li-Al alloys: a density functional theory study. <i>Journal of Molecular Modeling</i> , 2012, 18, 1123-1127.	0.8	10
34	Effect of Solution Annealing on Microstructure Evolution and Pitting Corrosion Resistance of SAF2906 Super Duplex Stainless Steel. <i>Steel Research International</i> , 2017, 88, 1700023.	1.0	10
35	Combined experiment and first-principles study of the formation of the Al ₂ O ₃ layer in alumina-forming austenitic stainless steel. <i>RSC Advances</i> , 2017, 7, 15727-15734.	1.7	9
36	A combined experimental and first-principle study on the oxidation mechanism of super austenitic stainless steel S32654 at 900°C. <i>Scientific Reports</i> , 2017, 7, 871.	1.6	6

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37	Design of Novel PLA/OMMT Films with Improved Gas Barrier and Mechanical Properties by Intercalating OMMT Interlayer with High Gas Barrier Polymers. <i>Polymers</i> , 2021, 13, 3962.	2.0	6
38	Effect of oligomers from epoxidized soybean oil and sebacic acid on the toughness of poly(lactic acid)/bamboo fiber composites. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51583.	1.3	5
39	Austenite Transformation Behaviour of 2205 Duplex Stainless Steels under Hot Tensile Test. <i>Steel Research International</i> , 2015, 86, 84-88.	1.0	4
40	Designing an atmosphere controlling hollow fiber membrane system for mango preservation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2019-2026.	1.2	2
41	Endohedral Regulator for Metallofullerene Chemical Property: Diels-Alder Reaction Studies of Sc ₃ N@C ₈₀ I _h (C ₃). <i>ChemistrySelect</i> , 2018, 3, 1495-1498.	0.7	2
42	Preparation and research progress of polyimide membranes in gas separation with anti-plasticization property. <i>Scientia Sinica Chimica</i> , 2020, 50, 655-668.	0.2	2
43	High-Temperature Initial Oxidation Behavior in LDX 2101. <i>Steel Research International</i> , 2018, 89, 1800083.	1.0	1