

Chao Liu

List of Publications by Year in descending order

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22
papers

772
citations

567281

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989
citing authors

#	ARTICLE	IF	CITATIONS
1	An "antifouling" porous loofah sponge with internal microchannels as solar absorbers and water pumpers for thermal desalination. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12323-12333.	10.3	118
2	Stable Thiophosphate-Based All-Solid-State Lithium Batteries through Conformally Interfacial Nanocoating. <i>Nano Letters</i> , 2020, 20, 1483-1490.	9.1	112
3	Fouling Release Property of Polydimethylsiloxane-Based Polyurea with Improved Adhesion to Substrate. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6671-6676.	3.7	69
4	Enhancing the quality of bio-oil from catalytic pyrolysis of kraft black liquor lignin. <i>RSC Advances</i> , 2016, 6, 107970-107976.	3.6	58
5	Enhancing the quality of bio-oil and selectivity of phenols compounds from pyrolysis of anaerobic digested rice straw. <i>Bioresource Technology</i> , 2015, 181, 220-223.	9.6	56
6	Biopolymers Derived from Trees as Sustainable Multifunctional Materials: A Review. <i>Advanced Materials</i> , 2021, 33, e2001654.	21.0	54
7	Heteroatom-doped porous carbon microspheres derived from ionic liquid-lignin solution for high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 566-573.	9.4	43
8	Value-added organonitrogen chemicals evolution from the pyrolysis of chitin and chitosan. <i>Carbohydrate Polymers</i> , 2017, 156, 118-124.	10.2	37
9	Comprehensive insights into cellulose structure evolution via multi-perspective analysis during a slow pyrolysis process. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1855-1862.	4.9	31
10	High Phase Change Enthalpy Enabled by Nanocellulose Enhanced Shape Stable Boron Nitride Aerogel. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3001-3009.	4.4	31
11	A simple environment-friendly process for preparing high-concentration alkali lignin nanospheres. <i>European Polymer Journal</i> , 2019, 112, 15-23.	5.4	27
12	Preparation of a Novel Lignin Nanosphere Adsorbent for Enhancing Adsorption of Lead. <i>Molecules</i> , 2019, 24, 2704.	3.8	22
13	Compressible Ionized Natural 3D Interconnected Loofah Membrane for Salinity Gradient Power Generation. <i>Small</i> , 2022, 18, e2104320.	10.0	22
14	Ice-Templated Anisotropic Flame-Resistant Boron Nitride Aerogels Enhanced through Surface Modification and Cellulose Nanofibrils. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1358-1367.	4.4	20
15	Functionalized Well-Aligned Channels Derived from Wood as a Convection-Enhanced Electrode for Aqueous Flow Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 6249-6257.	5.1	19
16	Lightweight and Construable Magnetic Wood for Electromagnetic Interference Shielding. <i>Advanced Engineering Materials</i> , 2020, 22, 2000257.	3.5	15
17	Effects of alkalinity of ionic liquids on the structure of biomass in pretreatment process. <i>Wood Science and Technology</i> , 2019, 53, 177-189.	3.2	9
18	Behavior of oxygen-containing groups in grass lignin during dissolution in basic ionic liquids. <i>Cellulose</i> , 2019, 26, 737-749.	4.9	9

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19	Phosphorous-Nitrogen Modification of Epoxy Grafted Poly-Acrylic Resin: Synergistic Flame Retardment Effect. <i>Polymers</i> , 2021, 13, 2826.	4.5	9
20	Basicity Characterization of Imidazolyl Ionic Liquids and Their Application for Biomass Dissolution. <i>International Journal of Chemical Engineering</i> , 2018, 2018, 1-8.	2.4	8
21	Biopolymeric Materials: Biopolymers Derived from Trees as Sustainable Multifunctional Materials: A Review (<i>Adv. Mater.</i> 28/2021). <i>Advanced Materials</i> , 2021, 33, 2170220.	21.0	2
22	Modification of polyacrylate resin to prepare water-soluble poly-epoxy-acrylate resin for its application as an automotive oil filter paper binder. <i>Journal of Vinyl and Additive Technology</i> , 0, , .	3.4	1