

Tao Chang

List of Publications by Year in descending order

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32
papers

710
citations

567281

15
h-index

552781

26
g-index

34
all docs

34
docs citations

34
times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifunctional Chiral Catalyst for the Synthesis of Chiral Cyclic Carbonates from Carbon Dioxide and Epoxides. <i>ChemCatChem</i> , 2009, 1, 379-383.	3.7	117
2	Biodiesel synthesis from the esterification of free fatty acids and alcohol catalyzed by long-chain Brønsted acid ionic liquid. <i>Catalysis Science and Technology</i> , 2013, 3, 1102.	4.1	66
3	In vitro controlled release of vitamin C from Ca/Al layered double hydroxide drug delivery system. <i>Materials Science and Engineering C</i> , 2014, 39, 56-60.	7.3	43
4	Brønsted acid-surfactant-combined catalyst for the Mannich reaction in water. <i>RSC Advances</i> , 2014, 4, 727-731.	3.6	40
5	Hydroxylamino-Anchored Poly(Ionic Liquid)s for CO ₂ Fixation into Cyclic Carbonates at Mild Conditions. <i>Advanced Sustainable Systems</i> , 2021, 5, .	5.3	40
6	Coupling of epoxides and carbon dioxide catalyzed by Brønsted acid ionic liquids. <i>Chinese Journal of Catalysis</i> , 2015, 36, 408-413.	14.0	37
7	Synthesis of polymer based catalyst: Optimization and kinetics modeling of the transesterification of Pistacia chinensis oil with diethyl carbonate using acidic ionic liquids. <i>Fuel</i> , 2020, 276, 118121.	6.4	37
8	Optimization of soybean oil transesterification using an ionic liquid and methanol for biodiesel synthesis. <i>Energy Reports</i> , 2020, 6, 20-27.	5.1	35
9	Structure and SO ₂ Absorption Properties of Guanidinium-Based Dicarboxylic Acid Ionic Liquids. <i>Energy & Fuels</i> , 2018, 32, 1956-1962.	5.1	27
10	Temperature-responsive self-separation ionic liquid system of zwitterionic-type quaternary ammonium-KI for CO ₂ fixation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1854-1860.	14.0	25
11	Geminal Brønsted Acid Ionic Liquids as Catalysts for the Mannich Reaction in Water. <i>International Journal of Molecular Sciences</i> , 2014, 15, 8656-8666.	4.1	23
12	The current state applications of ethyl carbonate with ionic liquid in sustainable biodiesel production: A review. <i>Renewable Energy</i> , 2022, 181, 341-354.	8.9	22
13	Hydrophilic phase transfer catalyst based on the sulfoacid group and polyoxometalate for the selective oxidation of sulfides in water with hydrogen peroxide. <i>New Journal of Chemistry</i> , 2017, 41, 447-451.	2.8	21
14	Hydroxyl-anchored covalent organic crown-based polymers for CO ₂ fixation into cyclic carbonates under mild conditions. <i>Sustainable Energy and Fuels</i> , 2021, 6, 121-127.	4.9	20
15	Optimization and kinetics of tung nut oil transesterification with methanol using novel solid acidic ionic liquid polymer as catalyst for methyl ester synthesis. <i>Renewable Energy</i> , 2020, 151, 796-804.	8.9	17
16	Potassium iodide and bis(pyridylcarbamate) electrostatic synergy in the fixation reaction of CO ₂ and epoxides. <i>New Journal of Chemistry</i> , 2020, 44, 15811-15815.	2.8	16
17	Brønsted acid surfactant-combined dicationic ionic liquids as green catalysts for biodiesel synthesis from free fatty acids and alcohols. <i>Chinese Journal of Catalysis</i> , 2015, 36, 982-986.	14.0	14
18	Cultivating Fluorescent Flowers with Highly Luminescent Carbon Dots Fabricated by a Double Passivation Method. <i>Nanomaterials</i> , 2017, 7, 176.	4.1	14

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19	Nitrogen-rich covalent organic polymers and potassium iodide for efficient chemical fixation of CO ₂ into epoxides under mild conditions. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2943-2951.	4.9	14
20	Urea-based covalent organic crown polymers and KI electrostatic synergy in CO ₂ fixation reaction: A combined experimental and theoretical study. <i>Journal of CO₂ Utilization</i> , 2022, 56, 101867.	6.8	11
21	Production of methyl esters from fried soybean oil using dimethyl carbonate with hydrobromic acid. <i>Energy Reports</i> , 2019, 5, 1463-1469.	5.1	10
22	A Facile Synthesis of La ₂ O ₃ /GO Nanocomposites in N,N-Dimethylformamide with High Dye Degradation Efficiency. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-5.	2.7	8
23	Process optimization using novel acidic ionic liquids and the kinetics modeling of methyl esters using <i>Jatropha curcas</i> oil with dimethyl carbonate. <i>Fuel</i> , 2019, 258, 116165.	6.4	8
24	Pyrene-based ammonium bromides combined with g-C ₃ N ₄ for the synergistically enhanced fixation reaction of CO ₂ and epoxides. <i>RSC Advances</i> , 2021, 11, 30222-30228.	3.6	8
25	Quaternary ammonium immobilized PAMAM as efficient catalysts for conversion of carbon dioxide. <i>Journal of CO₂ Utilization</i> , 2022, 58, 101913.	6.8	8
26	Synthesis of Generation-2 polyamidoamine based ionic liquid: Efficient dendrimer based catalytic green fuel production from yellow grease. <i>Energy</i> , 2021, 219, 119637.	8.8	7
27	Novel synthesized microporous ionic polymer applications in transesterification of <i>Jatropha curcas</i> seed oil with short Chain alcohol. <i>Applied Catalysis A: General</i> , 2021, 625, 118335.	4.3	7
28	Green catalysis for the selective oxidation of sulfides with high turnover numbers in water at room temperature. <i>New Journal of Chemistry</i> , 2018, 42, 19349-19352.	2.8	5
29	Clean and Green Procedure for the Synthesis of Biodiesel from the Esterification of Free Fatty Acids and Alcohol Catalyzed by 6-O-(sulfobutyl)- β -cyclodextrin. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1123-1128.	0.5	2
30	Long-chain Brønsted acidic ionic liquids catalyzed one-pot three-component Biginelli reaction. <i>World Journal of Engineering</i> , 2020, 17, 21-26.	1.6	2
31	A novel method to determine the concentration of VOCs at atmospheric pressure. <i>RSC Advances</i> , 2014, 4, 16449-16455.	3.6	1
32	Synthesis of a novel green fluorescent material Ca ₃ Al ₂ O ₆ :Tb ³⁺ based on a layered double hydroxide precursor. <i>Russian Journal of Physical Chemistry A</i> , 2015, 89, 1500-1503.	0.6	1