Cong-Xia Xie

List of Publications by Year
in descending order

85 papers	1,254 citations	394421 19 h-index	454955 30 g-index
87 all docs	87 docs citations	87 times ranked	1478 citing authors

#	Article	IF	Citations
1	Methanolysis and Hydrolysis of Polycarbonate Under Moderate Conditions. Journal of Polymers and the Environment, 2009, 17, 208-211.	5.0	71
2	Formation and Extractive Desulfurization Mechanisms of Aromatic Acid Based Deep Eutectic Solvents: An Experimental and Theoretical Study. Chemistry - A European Journal, 2018, 24, 11021-11032.	3.3	59
3	Process of lignin oxidation in an ionic liquid coupled with separation. RSC Advances, 2013, 3, 5789.	3.6	56
4	Preparation of high strength chitosan fibers by using ionic liquid as spinning solution. Journal of Materials Chemistry, 2012, 22, 8585.	6.7	55
5	Alkylation of isobutane/isobutene using BrÃ¸nstedâ€“Lewis acidic ionic liquids as catalysts. Fuel, 2015, 159, 803-809.	6.4	55
6	Synthesis of plasticizer ester using acid-functionalized ionic liquid as catalyst. Journal of Hazardous Materials, 2008, 151, 847-850.	12.4	53
7	Porous Organic Polymer Supported Rhodium as a Reusable Heterogeneous Catalyst for Hydroformylation of Olefins. Organic Letters, 2019, 21, 2147-2150.	4.6	42
8	pHâ€sensitive hydrogel based on carboxymethyl chitosan/sodium alginate and its application for drug delivery. Journal of Applied Polymer Science, 2019, 136, 46911.	2.6	36
9	Solid-state spiropyrans exhibiting photochromic properties based on molecular flexibility. Materials Chemistry Frontiers, 2021, 5, 3119-3124.	5.9	35
10	Mild water-promoted ruthenium nanoparticles as an efficient catalyst for the preparation of cis-rich pinane. RSC Advances, 2015, 5, 89552-89558.	3.6	34
11	Porous organic polymer supported rhodium as a heterogeneous catalyst for hydroformylation of alkynes to Î±,Î²-unsaturated aldehydes. Chemical Communications, 2019, 55, 13721-13724.	4.1	31
12	Synthesis of glycerol triacetate using functionalized ionic liquid as catalyst. Journal of Chemical Technology and Biotechnology, 2009, 84, 1649-1652.	3.2	30
13	Polyether-substituted thiazolium ionic liquid catalysts â€“ a thermoregulated phase-separable catalysis system for the Stetter reaction. Green Chemistry, 2010, 12, 1196.	9.0	28
14	Highly selective hydrogenation of Î±-pinene in aqueous medium using PVA-stabilized Ru nanoparticles. Molecular Catalysis, 2018, 444, 62-69.	2.0	23
15	One-pot synthesis of stable Pd@mSiO₂ coreâ€“shell nanospheres with controlled pore structure and their application to the hydrogenation reaction. Dalton Transactions, 2019, 48, 7015-7024.	3.3	23
16	Butanol alcoholysis reaction of polyethylene terephthalate using acidic ionic liquid as catalyst. Journal of Applied Polymer Science, 2013, 130, 1840-1844.	2.6	21
17	Selective hydrogenation of Î±-pinene to cis-pinane over Ru nanocatalysts in aqueous micellar nanoreactors. RSC Advances, 2016, 6, 54806-54811.	3.6	20
18	Highly Selective Hydrogenation of Î±-Pinene Catalyzed by Ru Nanoparticles in Aqueous Micellar Microreactors. Catalysis Letters, 2016, 146, 580-586.	2.6	20

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19	N-terminal PEGylated cellulase: a high stability enzyme in 1-butyl-3-methylimidazolium chloride. Green Chemistry, 2013, 15, 1624.	9.0	19
20	Ni-doped mesoporous carbon obtained from hydrothermal carbonization of cellulose and their catalytic hydrogenation activity study. Journal of Materials Science, 2018, 53, 7900-7910.	3.7	19
21	Preparation and characterization of petroleum-based mesophase pitch by thermal condensation with in-process hydrogenation. RSC Advances, 2018, 8, 30230-30238.	3.6	18
22	Mesoporous molecular sieves K2O/Ba(Ca or Mg)-MCM-41 with base sites as heterogeneous catalysts for the production of liquid hydrocarbon fuel from catalytic cracking of rubber seed oil. Green Chemistry, 2013, 15, 2573.	9.0	17
23	Enzymatic process optimization for the in vitro production of isoprene from mevalonate. Microbial Cell Factories, 2017, 16, 8.	4.0	17
24	Preparation of cis-pinane via Î±-pinene hydrogenation in water by using Ru nanoparticles immobilized in functionalized amphiphilic mesoporous silica. RSC Advances, 2017, 7, 51452-51459.	3.6	17
25	PVAâ€encapsulated Palladium Nanoparticles: Ecoâ€friendly and Highly Selective Catalyst for Hydrogenation of Nitrobenzene in Aqueous Medium. Chemistry - an Asian Journal, 2019, 14, 2266-2272.	3.3	17
26	Novel compatible system of [C2OHmim][OAc]-cellulases for the in situ hydrolysis of lignocellulosic biomass. RSC Advances, 2012, 2, 11712.	3.6	14
27	Magnetically recyclable Ru immobilized on amine-functionalized magnetite nanoparticles and its high selectivity to prepare cis -pinane. Journal of Molecular Catalysis A, 2016, 424, 269-275.	4.8	14
28	Alkylation of isobutane and isobutene catalyzed by trifluoromethanesulfonic acid-taurine deep eutectic solvents in polyethylene glycol. Chemical Communications, 2019, 55, 4833-4836.	4.1	14
29	Coupling of Nâ€Doped Mesoporous Carbon and Nâ€Ti₃C₂ in 2D Sandwiched Heterostructure for Enhanced Oxygen Electroreduction. Small, 2022, 18, e2106581.	10.0	14
30	Imidazolium chiral ionic liquid derived carbene-catalyzed conjugate umpolung for synthesis of Î³-butyrolactones. RSC Advances, 2013, 3, 3996.	3.6	13
31	Selective mercury(<scp>ii</scp>) detection in aqueous solutions upon the absorption changes corresponding to the transition moments polarized along the short axis of an azobenzene chemosensor. Analyst, The, 2020, 145, 1641-1645.	3.5	13
32	Improved cis-Abienol production through increasing precursor supply in Escherichia coli. Scientific Reports, 2020, 10, 16791.	3.3	13
33	Hydrogenation of Î±-Pinene over Ruthenium Chloride Promoted by Water. Chinese Journal of Catalysis, 2011, 32, 643-646.	14.0	13
34	Facile preparation for robust and freestanding silk fibroin films in a 1â€butylâ€3â€methyl imidazolium acetate ionic liquid system. Journal of Applied Polymer Science, 2015, 132, .	2.6	12
35	Mild Hydrogenation of Î±â€Pinene Catalyzed by Ru Nanoparticles Loaded on Boronâ€doped Amphiphilic Coreâ€Shell Mesoporous Molecular Sieves. ChemCatChem, 2019, 11, 1518-1525.	3.7	12
36	Synthesis of a highly active aminoâ€functionalized Fe₃O₄@SiO₂/APTS/Ru magnetic nanocomposite catalyst for hydrogenation reactions. Applied Organometallic Chemistry, 2019, 33, e4686.	3.5	12

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37	Hydrogenation of Î±-Pinene over Platinum Nanoparticles Reduced and Stabilized by Sodium Lignosulfonate. ACS Omega, 2020, 5, 8902-8911.	3.5	12
38	Selective Hydrogenation of Phenol to Cyclohexanone over a Highly Stable Core-Shell Catalyst with Pd-Lewis Acid Sites. Journal of Physical Chemistry C, 2021, 125, 27241-27251.	3.1	12
39	Synthesis of terpinyl acetate using octadecylamine ethoxylate ionic liquids as catalysts. Research on Chemical Intermediates, 2013, 39, 2095-2105.	2.7	11
40	Isooctanol alcoholysis of waste polyethylene terephthalate in acidic ionic liquid. Journal of Polymer Research, 2013, 20, 1.	2.4	11
41	Application of Dissociation Extraction in Oxidation Degradation Reaction of Lignin. Industrial & Engineering Chemistry Research, 2014, 53, 19370-19374.	3.7	11
42	Oxidative-extractive deep desulfurization of gasoline by functionalized heteropoly acid catalysts. RSC Advances, 2015, 5, 85540-85546.	3.6	11
43	One-Pot Synthesis of Stable Pd@mSiO2 Coreâ€“Shell Nanospheres and Their Application to the Hydrogenation of Levulinic Acid. Catalysis Letters, 2020, 150, 3437-3446.	2.6	10
44	Heteropolyacid Bisalt of N-octyl Ethoxylated Octadecylamine: An Efficient and Reusable Catalyst for Carboxylic Acid-Free Hydration of Î±-Pinene. Catalysis Letters, 2016, 146, 929-936.	2.6	9
45	Preparation of alkylate gasoline in polyether-based acidic ionic liquids. Catalysis Today, 2018, 310, 141-145.	4.4	9
46	Oneâ€Pot Synthesis of Spiropyrans. Asian Journal of Organic Chemistry, 2019, 8, 1866-1869.	2.7	9
47	Bimetal Oxide Catalysts Selectively Catalyze Cellulose to Ethylene Glycol. Journal of Physical Chemistry C, 2021, 125, 18170-18179.	3.1	9
48	Photoregulative phase change biomaterials showing thermodynamic and mchanical stabilities. Nanoscale, 2022, 14, 976-983.	5.6	9
49	Clean Preparation Process of Chitosan Oligomers in Gly Series Ionic Liquids Homogeneous System. Journal of Polymers and the Environment, 2012, 20, 388-394.	5.0	8
50	Glycine hydrochloride ionic liquid/aqueous solution system as a platform for the utilization of chitosan. Journal of Applied Polymer Science, 2012, 123, 3772-3780.	2.6	8
51	Water-soluble palladium nanoparticles as an active catalyst for highly selective hydrogenation of nitrobenzene to aniline. Research on Chemical Intermediates, 2018, 44, 13-26.	2.7	7
52	Disordered Low Molecular Weight Spiropyran Exhibiting Photoregulated Adhesion Ability. Chemistry - A European Journal, 2022, 28, .	3.3	7
53	Synthesis of Glycerol Triacetate Using a BrÃ¸nstedâ€“Lewis Acidic Ionic Liquid as the Catalyst. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 1253-1258.	1.9	6
54	Hydration of Î±-pinene homogenous catalyzed by acidic polyether-modified ammonium salt ionic liquid in â€œmicroreactorâ€• Research on Chemical Intermediates, 2015, 41, 2407-2414.	2.7	6

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55	Hydrogenation of Rosin to Hydrogenated Rosin by Ru/Fe3O4@C Magnetic Catalyst. Catalysis Letters, 2018, 148, 3147-3157.	2.6	6
56	Benzylation with Benzyl Alcohol Catalyzed By [ChCl][TfOH]2, a BrÃ¸nsted Acidic DES with Reaction Control Self-Separation Performance. Catalysis Letters, 2018, 148, 2133-2138.	2.6	6
57	Production of dissolving pulp from Eulaliopsis binata with the concept of integrated biorefinery. Cellulose, 2019, 26, 2087-2097.	4.9	6
58	Tailoring effects of the chain length and terminal substituent on the photochromism of solid-state spiropyrans. Organic and Biomolecular Chemistry, 2021, 19, 8722-8726.	2.8	6
59	Effectiveness of recombinant Escherichia coli on the production of (R)-(+)-perillyl alcohol. BMC Biotechnology, 2021, 21, 3.	3.3	6
60	A heterogeneous Rh/CPOL-BINAPa&PPh₃ catalyst for hydroformylation of olefins: chemical and DFT insights into active species and the roles of BINAPa and PPh₃. Catalysis Science and Technology, 2022, 12, 3440-3446.	4.1	6
61	Nâ€acyl chitosan and its fiber with excellent moisture absorbability and retentivity: Preparation in a novel [Gly]Cl/water homogeneous system. Journal of Applied Polymer Science, 2013, 129, 3282-3289.	2.6	5
62	Preparation of oligochitosan via In situ enzymatic hydrolysis of chitosan by amylase in [Gly]BF₄ ionic liquid/water homogeneous system. Journal of Applied Polymer Science, 2014, 131, .	2.6	5
63	A novel BrÃ¶nstedâ€“Lewis acidic heteropoly organicâ€“inorganic salt: preparation and catalysis for rosin dimerization. SpringerPlus, 2016, 5, 460.	1.2	5
64	Synthesis of silanized magnetic Ru/Fe3O4@SiO2 nanospheres and their high selectivity to prepare cis-pinane. RSC Advances, 2016, 6, 81310-81317.	3.6	5
65	Hydrogenation of rosin over PVP-stabilized Pd nanoparticles in aqueous/organic biphasic system. Research on Chemical Intermediates, 2016, 42, 6181-6190.	2.7	5
66	Synthesis of Rosin Methyl Ester Using PTSA/ZrO2/Mo-MCM-41 Mesoporous Molecular Sieves. Catalysis Letters, 2019, 149, 1911-1918.	2.6	5
67	A novel green catalytic strategy for hydration of Î±-pinene by a natural deep eutectic solvent. Biomass Conversion and Biorefinery, 2022, 12, 2267-2275.	4.6	5
68	Access to Î±,Î²-unsaturated carboxylic acids through water-soluble palladium catalyzed hydroxycarbonylation of alkynes using water as the solvent. Catalysis Science and Technology, 2021, 11, 4708-4713.	4.1	5
69	A porous organic polymer supported Pd/Cu bimetallic catalyst for heterogeneous oxidation of alkynes to 1,2-diketones. Catalysis Science and Technology, 2022, 12, 722-727.	4.1	5
70	Aqueous-phase hydrogenation of Î±-pinene catalyzed by Ni-B alloys loaded on a Janus amphiphilic carbon@silica nanomaterial. Industrial Crops and Products, 2022, 185, 115140.	5.2	5
71	Study on Enzymatic Degradation of Cornstalk in Ionic Liquid. Catalysis Letters, 2014, 144, 229-234.	2.6	4
72	Design of a thermoregulated phase-separable system for homogeneous enzymolysis of cellulose. Green Chemistry, 2015, 17, 3067-3074.	9.0	4

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73	The selective hydrogenation of rosin to hydroabietic content using Pd/SBA-15 as catalysts. Research on Chemical Intermediates, 2017, 43, 1211-1221.	2.7	4
74	Baeyer-Villiger Oxidation of Cyclic Ketones Catalyzed by Amino Acid Ionic Liquids. Chemical Research in Chinese Universities, 2020, 36, 865-869.	2.6	4
75	Synthesis and property of imidazolium oxidative-thermoregulated ionic liquids. Science Bulletin, 2014, 59, 4705-4711.	1.7	3
76	Hydrogenation of 2-Ethylhexenal Using Supported-Metal Catalysts for Production of 2-Ethylhexanol. Catalysis Letters, 2017, 147, 987-995.	2.6	3
77	Synthesis of Ru nanoparticles with hydroxyethyl cellulose as stabilizer for high-efficiency reduction of Î±-pinene. Cellulose, 2019, 26, 8059-8071.	4.9	3
78	Oxidation of 1-propanol to propionic acid with hydrogen peroxide catalysed by heteropolyoxometalates. BMC Chemistry, 2021, 15, 23.	3.8	3
79	Molecular design of long intraâ€annular nitrogen chains: 3Hâ€tetrazolo[1,5â€d]tetrazoleâ€based highâ€energyâ€density materials. International Journal of Quantum Chemistry, 2021, 121, e26743.	2.0	3
80	Synthesis of Nipagin Esters Using Acidic Functional Ionic Liquids as Catalysts. Synthetic Communications, 2011, 41, 945-952.	2.1	2
81	Highly selective and recyclable hydrogenation of Î±â€pinene catalyzed by ruthenium nanoparticles loaded on amphiphilic coreâ€“shell magnetic nanomaterials. Applied Organometallic Chemistry, 2019, 33, e5165.	3.5	2
82	Co-Production of Isoprene and Lactate by Engineered Escherichia coli in Microaerobic Conditions. Molecules, 2021, 26, 7173.	3.8	2
83	Efficient Synthesis of (R)-(+)-Perillyl Alcohol From (R)-(+)-Limonene Using Engineered Escherichia coli Whole Cell Biocatalyst. Frontiers in Bioengineering and Biotechnology, 2022, 10, 900800.	4.1	2
84	Biomimetic Robust Starch Composite Films with Super-Hydrophobicity and Vivid Structural Colors. International Journal of Molecular Sciences, 2022, 23, 5607.	4.1	2
85	Fluorescent solvent-free lignin ionic complexes with thermostability toward a luminescent hydrophobic coating material. Materials Chemistry Frontiers, 2022, 6, 2122-2127.	5.9	2