

Haoxi Ben

List of Publications by Year in descending order

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58
papers

2,753
citations

218677

26
h-index

175258

52
g-index

60
all docs

60
docs citations

60
times ranked

2961
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin Pyrolysis Components and Upgrading Technology Review. <i>Bioenergy Research</i> , 2013, 6, 1183-1204.	3.9	280
2	Determination of hydroxyl groups in biorefinery resources via quantitative ³¹ P NMR spectroscopy. <i>Nature Protocols</i> , 2019, 14, 2627-2647.	12.0	272
3	NMR Characterization of Pyrolysis Oils from Kraft Lignin. <i>Energy & Fuels</i> , 2011, 25, 2322-2332.	5.1	205
4	Influence of Si/Al Ratio of ZSM-5 Zeolite on the Properties of Lignin Pyrolysis Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 316-324.	6.7	116
5	Pyrolysis of Kraft Lignin with Additives. <i>Energy & Fuels</i> , 2011, 25, 4662-4668.	5.1	101
6	Lipid Production from Dilute Alkali Corn Stover Lignin by <i>Rhodococcus</i> Strains. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2302-2311.	6.7	101
7	Pyrolysis oils from CO ₂ precipitated Kraft lignin. <i>Green Chemistry</i> , 2011, 13, 3196.	9.0	99
8	Torrefaction of Loblolly pine. <i>Green Chemistry</i> , 2012, 14, 72-76.	9.0	99
9	Review of NMR Characterization of Pyrolysis Oils. <i>Energy & Fuels</i> , 2016, 30, 6863-6880.	5.1	94
10	Heteronuclear Single-Quantum Correlation Nuclear Magnetic Resonance (HSQC-NMR) Fingerprint Analysis of Pyrolysis Oils. <i>Energy & Fuels</i> , 2011, 25, 5791-5801.	5.1	93
11	Upgrading biomass pyrolysis vapors over β -zeolites: role of silica-to-alumina ratio. <i>Green Chemistry</i> , 2014, 16, 4891-4905.	9.0	91
12	Effects of Lignin Structure on Hydrodeoxygenation Reactivity of Pine Wood Lignin to Valuable Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1824-1830.	6.7	90
13	Comparison for the compositions of fast and slow pyrolysis oils by NMR characterization. <i>Bioresource Technology</i> , 2013, 147, 577-584.	9.6	75
14	Noble metal catalyzed aqueous phase hydrogenation and hydrodeoxygenation of lignin-derived pyrolysis oil and related model compounds. <i>Bioresource Technology</i> , 2014, 173, 6-10.	9.6	68
15	Production of renewable gasoline from aqueous phase hydrogenation of lignin pyrolysis oil. <i>Fuel</i> , 2013, 103, 1148-1153.	6.4	65
16	One step thermal conversion of lignin to the gasoline range liquid products by using zeolites as additives. <i>RSC Advances</i> , 2012, 2, 12892.	3.6	62
17	In-situ NMR Characterization of Pyrolysis Oil during Accelerated Aging. <i>ChemSusChem</i> , 2012, 5, 1687-1693.	6.8	60
18	Catalytic Fast Pyrolysis of Poly (Ethylene Terephthalate) (PET) with Zeolite and Nickel Chloride. <i>Polymers</i> , 2020, 12, 705.	4.5	53

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19	Catalytic fast pyrolysis of bamboo sawdust via a two-step bench scale bubbling fluidized bed/fixed bed reactor: Study on synergistic effect of alkali metal oxides and HZSM-5. <i>Energy Conversion and Management</i> , 2018, 176, 287-298.	9.2	50
20	A green degumming process of ramie. <i>Industrial Crops and Products</i> , 2018, 120, 131-134.	5.2	48
21	Fractional condensation of pyrolysis vapors produced from Nordic feedstocks in cyclone pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 123, 244-254.	5.5	46
22	A Comprehensive Characterization of Pyrolysis Oil from Softwood Barks. <i>Polymers</i> , 2019, 11, 1387.	4.5	43
23	Isolation and characterization of cellulosic fibers from kenaf bast using steam explosion and Fenton oxidation treatment. <i>Cellulose</i> , 2018, 25, 4979-4992.	4.9	39
24	Effects of Different Conditions on Co-Pyrolysis Behavior of Corn Stover and Polypropylene. <i>Polymers</i> , 2020, 12, 973.	4.5	37
25	Effect of autohydrolysis pretreatment on biomass structure and the resulting bio-oil from a pyrolysis process. <i>Fuel</i> , 2017, 206, 494-503.	6.4	30
26	Utilization of deep eutectic solvent as a degumming protocol for <i>Apocynum venetum</i> bast. <i>Cellulose</i> , 2019, 26, 8047-8057.	4.9	30
27	In-depth investigation on quantitative characterization of pyrolysis oil by ^{31}P NMR. <i>RSC Advances</i> , 2016, 6, 17567-17573.	3.6	29
28	A facile and eco-friendly method to extract <i>Apocynum venetum</i> fibers using microwave-assisted ultrasonic degumming. <i>Industrial Crops and Products</i> , 2020, 151, 112443.	5.2	27
29	^{19}F NMR spectroscopy for the quantitative analysis of carbonyl groups in bio-oils. <i>RSC Advances</i> , 2014, 4, 17743.	3.6	24
30	Chemical characterization and water content determination of bio-oils obtained from various biomass species using ^{31}P NMR spectroscopy. <i>Biofuels</i> , 2012, 3, 123-128.	2.4	23
31	Pyrolytic Behavior of Major Biomass Components in Waste Biomass. <i>Polymers</i> , 2019, 11, 324.	4.5	23
32	Molecular dynamic simulation on the oxidation process of coal tar pitch. <i>Fuel</i> , 2019, 242, 50-61.	6.4	23
33	Impact of CO_2 on Pyrolysis Products of Bituminous Coal and <i>Platanus</i> Sawdust. <i>Polymers</i> , 2019, 11, 1370.	4.5	22
34	Advances in energy systems for valorization of aqueous byproducts generated from hydrothermal processing of biomass and systems thinking. <i>Green Chemistry</i> , 2019, 21, 2518-2543.	9.0	21
35	Using microwave assisted organic acid treatment to separate cellulose fiber and lignin from kenaf bast. <i>Industrial Crops and Products</i> , 2021, 171, 113934.	5.2	18
36	Catalytic Upgrading of Biomass Pyrolysis Oxygenates with Vacuum Gas Oil Using a Davison Circulating Riser Reactor. <i>Energy & Fuels</i> , 2018, 32, 1733-1743.	5.1	17

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37	A phase change material embedded composite consisting of kapok and hollow PET fibers for dynamic thermal comfort regulation. <i>Industrial Crops and Products</i> , 2020, 158, 112945.	5.2	17
38	Effect of Autohydrolysis Pretreatment Conditions on Sugarcane Bagasse Structures and Product Distribution Resulting from Pyrolysis. <i>Energy Technology</i> , 2018, 6, 640-648.	3.8	15
39	An alkali-free method to manufacture ramie fiber. <i>Textile Reseach Journal</i> , 2019, 89, 3653-3659.	2.2	15
40	Characterization of Whole Biomasses in Pyridine Based Ionic Liquid at Low Temperature by 31P NMR: An Approach to Quantitatively Measure Hydroxyl Groups in Biomass As Their Original Structures. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	14
41	Promotional effects of sodium and sulfur on light olefins synthesis from syngas over iron-manganese catalyst. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120716.	20.2	14
42	Hydrodeoxygenation by deuterium gas – a powerful way to provide insight into the reaction mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19138.	2.8	13
43	Application of a Pyroprobe – Deuterium NMR System: Deuterium Tracing and Mechanistic Study of Upgrading Process for Lignin Model Compounds. <i>Energy & Fuels</i> , 2016, 30, 2968-2974.	5.1	12
44	In situ upgrading of whole biomass to biofuel precursors with low average molecular weight and acidity by the use of zeolite mixture. <i>RSC Advances</i> , 2015, 5, 74821-74827.	3.6	11
45	Solid-State NMR Investigation of Bio-chars Produced from Biomass Components and Whole Biomasses. <i>Bioenergy Research</i> , 2017, 10, 1036-1044.	3.9	9
46	Parametric study of the catalytic fast pyrolysis of rice husk over hierarchical micro-mesoporous composite catalyst in a microwave-heated fluidized bed. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105210.	5.5	9
47	The use of combination of zeolites to pursue integrated refined pyrolysis oil from kraft lignin. <i>Sustainable Chemical Processes</i> , 2014, 2, .	2.3	8
48	Accelerated Aging Process of Bio-Oil Model Compounds: A Mechanism Study. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	8
49	Structure Analysis of Pine Bark-, Residue-, and Stem-Derived Light Oil and Its Hydrodeoxygenation Products. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11269-11275.	3.7	6
50	Effect of Biochar Prepared from Food Waste through Different Thermal Treatment Processes on Crop Growth. <i>Processes</i> , 2021, 9, 276.	2.8	6
51	In-depth study on the effect of oxygen-containing functional groups in pyrolysis oil by P-31 NMR. <i>RSC Advances</i> , 2019, 9, 27157-27166.	3.6	5
52	The production of hydrogen – deuterium exchanged cellulose fibers with exchange-resistant deuterium incorporation. <i>Cellulose</i> , 2020, 27, 6163-6174.	4.9	4
53	Development of quantitative 13C NMR characterization and simulation of C, H, and O content for pyrolysis oils based on 13C NMR analysis. <i>RSC Advances</i> , 2020, 10, 25918-25928.	3.6	4
54	In-situ evaluation for upgrading of biomass over noble metal catalysts by isotopic tracing and NMR monitoring. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 137, 253-258.	5.5	3

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55	The preparation and characterization of chemically deuterium incorporated cotton fibers. Cellulose, 2021, 28, 5351.	4.9	3
56	CHAPTER 9: UPGRADE OF BIO-OIL TO BIO-FUEL AND BIO-CHEMICAL. Materials and Energy, 2014, , 229-266.	0.1	2
57	In-situ evaluation for upgrading of biomass model compounds over noble metal catalysts by isotopic tracing and NMR monitoring. Journal of Analytical and Applied Pyrolysis, 2019, 142, 104615.	5.5	1
58	CHAPTER 8: PYROLYSIS OF BIOMASS TO BIO-OILS. Materials and Energy, 2014, , 191-228.	0.1	0