Dekui Shen

List of Publications by Year
in descending order

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61 papers	3,729 citations	136740 32 h-index	128067 60 g-index
64 all docs	64 docs citations	64 times ranked	4363 citing authors

#	Article	IF	Citations
1	Experimental study on anaerobic co-digestion of the individual component of biomass with sewage sludge: methane production and microbial community. Biomass Conversion and Biorefinery, 2022, 12, 5045-5058.	2.9	10
2	Investigation on the effect of different additives on anaerobic co-digestion of corn straw and sewage sludge: Comparison of biochar, Fe3O4, and magnetic biochar. Bioresource Technology, 2022, 345, 126532.	4.8	34
3	Facile and green preparation of solid carbon nanoonions via catalytic co-pyrolysis of lignin and polyethylene and their adsorption capability towards Cu(<scp>ii</scp>). RSC Advances, 2022, 12, 5042-5052.	1.7	3
4	Preparation of Citric Acid-Sewage Sludge Hydrochar and Its Adsorption Performance for Pb(II) in Aqueous Solution. Polymers, 2022, 14, 968.	2.0	4
5	Triple-emission nitrogen and boron co-doped carbon quantum dots from lignin: Highly fluorescent sensing platform for detection of hexavalent chromium ions. Journal of Colloid and Interface Science, 2022, 617, 557-567.	5.0	37
6	Facile Synthesis of Multi-Emission Nitrogen/Boron Co-Doped Carbon Dots from Lignin for Anti-Counterfeiting Printing. Polymers, 2022, 14, 2779.	2.0	11
7	Catalytic hydrogenolysis of lignin in ethanol/isopropanol over an activated carbon supported nickel-copper catalyst. Bioresource Technology, 2021, 319, 124238.	4.8	45
8	Prediction of methane production from co-digestion of lignocellulosic biomass with sludge based on the major compositions of lignocellulosic biomass. Environmental Science and Pollution Research, 2021, 28, 25808-25818.	2.7	8
9	Progress in carbon-based electrocatalyst derived from biomass for the hydrogen evolution reaction. Fuel, 2021, 293, 120440.	3.4	53
10	Comparison Study of the SCR Performance over Mnâ€“TiO₂ and Ceâ€“TiO₂ Catalysts: An Experimental and DFT Study. Energy & Fuels, 2021, 35, 14681-14691.	2.5	7
11	Sustainable synthesis of bright green fluorescent carbon quantum dots from lignin for highly sensitive detection of Fe3+ ions. Applied Surface Science, 2021, 565, 150526.	3.1	63
12	Coked Ni/Al₂O₃ from the catalytic reforming of volatiles from co-pyrolysis of lignin and polyethylene: preparation, identification and application as a potential adsorbent. Catalysis Science and Technology, 2021, 11, 4162-4171.	2.1	9
13	Green Synthesis of Tunable Fluorescent Carbon Quantum Dots from Lignin and Their Application in Anti-Counterfeit Printing. ACS Applied Materials & Interfaces, 2021, 13, 56465-56475.	4.0	82
14	Carbon nanotubes/Al₂O₃ composite derived from catalytic reforming of the pyrolysis volatiles of the mixture of polyethylene and lignin for highly-efficient removal of Pb(<scp>ii</scp>). RSC Advances, 2021, 11, 37851-37865.	1.7	9
15	Co-pyrolysis of lignin and polyethylene with the addition of transition metals - Part I: Thermal behavior and kinetics analysis. Journal of the Energy Institute, 2020, 93, 281-291.	2.7	28
16	Temperature sensitivity of the selective catalytic reduction (SCR) performance of Ceâ€“TiO2 in the presence of SO2. Chemosphere, 2020, 243, 125419.	4.2	39
17	Anaerobic Co-digestion of Urban Sewage Sludge with Agricultural Biomass. Waste and Biomass Valorization, 2020, 11, 6199-6209.	1.8	8
18	Hydrogenolysis of Organosolv Lignin in Ethanol/Isopropanol Media without Added Transition-Metal Catalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 1023-1030.	3.2	55

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19	State-of-the-Art on the Preparation, Modification, and Application of Biomass-Derived Carbon Quantum Dots. Industrial & Engineering Chemistry Research, 2020, 59, 22017-22039.	1.8	67
20	Nonprecious Metal/Bimetallic Catalytic Hydrogenolysis of Lignin in a Mixed-Solvent System. ACS Sustainable Chemistry and Engineering, 2020, 8, 16217-16228.	3.2	33
21	A critical review on VOCs adsorption by different porous materials: Species, mechanisms and modification methods. Journal of Hazardous Materials, 2020, 389, 122102.	6.5	504
22	Effect of Transition Metal Additives on the Catalytic Performance of Cuâ€“Mn/SAPO-34 for Selective Catalytic Reduction of NO with NH3 at Low Temperature. Catalysts, 2019, 9, 685.	1.6	7
23	H2O and/or SO2 Tolerance of Cu-Mn/SAPO-34 Catalyst for NO Reduction with NH3 at Low Temperature. Catalysts, 2019, 9, 289.	1.6	17
24	Sulfation effect of Ce/TiO₂ catalyst for the selective catalytic reduction of NO_x with NH₃: mechanism and kinetic studies. RSC Advances, 2019, 9, 32110-32120.	1.7	11
25	Catalytic Upgrading of Biomass Model Compounds: Novel Approaches and Lessons Learnt from Traditional Hydrodeoxygenation â€“ a Review. ChemCatChem, 2019, 11, 924-960.	1.8	167
26	State-of-the-art on the production and application of carbon nanomaterials from biomass. Green Chemistry, 2018, 20, 5031-5057.	4.6	256
27	State-of-the-art catalytic hydrogenolysis of lignin for the production of aromatic chemicals. Catalysis Science and Technology, 2018, 8, 6275-6296.	2.1	90
28	Mechanism of hydrodeoxygenation (HDO) in anisole decomposition over metal loaded BrÃ¸nsted acid sites: Density Functional Theory (DFT) study. Molecular Catalysis, 2018, 454, 30-37.	1.0	28
29	Adsorption of Câ€“C Linkage-Contained Lignin Model Compound Over the Metal Surface of Catalysts: Quantum Simulation. Topics in Catalysis, 2018, 61, 1783-1791.	1.3	4
30	Thermal behavior and kinetics of co-pyrolysis of cellulose and polyethylene with the addition of transition metals. Energy Conversion and Management, 2018, 172, 32-38.	4.4	44
31	Immobilization of Cu2+ and Cd2+ by earthworm manure derived biochar in acidic circumstance. Journal of Environmental Sciences, 2017, 53, 293-300.	3.2	25
32	Kinetics, equilibrium and thermodynamics studies on biosorption of Rhodamine B from aqueous solution by earthworm manure derived biochar. International Biodeterioration and Biodegradation, 2017, 120, 104-114.	1.9	50
33	The mechanism of transmethylation in anisole decomposition over BrÃ¸nsted acid sites: density functional theory (DFT) study. Sustainable Energy and Fuels, 2017, 1, 1788-1794.	2.5	9
34	Pb(II) ion adsorption by biomass-based carbonaceous fiber modified by the integrated oxidation and vulcanization. Korean Journal of Chemical Engineering, 2017, 34, 2619-2630.	1.2	8
35	Preparation of Different Nickelâ€“Iron/Titaniaâ€“Alumina Catalysts for Hydrogen/Carbon Monoxide Methanation under Atmospheric Pressure. Energy Technology, 2017, 5, 1218-1227.	1.8	9
36	Catalytic Conversion of Furan to Hydrocarbons using HZSMâ€5: Coking Behavior and Kinetic Modeling including Coke Deposition. Energy Technology, 2017, 5, 111-118.	1.8	21

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37	Experimental and Kinetic Study on Lignin Depolymerization in Water/Formic Acid System. International Journal of Molecular Sciences, 2017, 18, 2082.	1.8	14
38	Catalytic Oxidation of Lignin in Solvent Systems for Production of Renewable Chemicals: A Review. Polymers, 2017, 9, 240.	2.0	72
39	Mechanism of transmethylation in anisole decomposition over HZSM-5: Experimental study. Journal of Analytical and Applied Pyrolysis, 2016, 122, 323-331.	2.6	10
40	High H₂/CO Ratio Syngas Production from Chemical Looping Gasification of Sawdust in a Dual Fluidized Bed Gasifier. Energy & Fuels, 2016, 30, 1764-1770.	2.5	77
41	Phosphate adsorption on lanthanum loaded biochar. Chemosphere, 2016, 150, 1-7.	4.2	305
42	Removal of Pb(II) from water by the activated carbon modified by nitric acid under microwave heating. Journal of Colloid and Interface Science, 2016, 463, 118-127.	5.0	169
43	Thermal degradation of xylan-based hemicellulose under oxidative atmosphere. Carbohydrate Polymers, 2015, 127, 363-371.	5.1	50
44	Catalytic solvolysis of lignin with the modified HUSYs in formic acid assisted by microwave heating. Chemical Engineering Journal, 2015, 270, 641-647.	6.6	54
45	An overview on fast pyrolysis of the main constituents in lignocellulosic biomass to valued-added chemicals: Structures, pathways and interactions. Renewable and Sustainable Energy Reviews, 2015, 51, 761-774.	8.2	212
46	Catalytic cleavage of Câ€“O linkages in benzyl phenyl ether assisted by microwave heating. RSC Advances, 2015, 5, 43972-43977.	1.7	12
47	Mechanism on microwave-assisted acidic solvolysis of black-liquor lignin. Bioresource Technology, 2014, 162, 136-141.	4.8	64
48	Hydrogen production from bio-oil by chemical looping reforming. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1921-1927.	2.0	28
49	Characterization of Coke Deposition in the Catalytic Fast Pyrolysis of Biomass Derivates. Energy & Fuels, 2014, 28, 52-57.	2.5	177
50	Catalytic Conversion of Biomass Derivates over Acid Dealuminated ZSM-5. Industrial & Engineering Chemistry Research, 2014, 53, 15871-15878.	1.8	49
51	Composition Analysis of Organosolv Lignin and Its Catalytic Solvolysis in Supercritical Alcohol. Energy & Fuels, 2014, 28, 4260-4266.	2.5	41
52	Study on Pyrolysis of Pine Sawdust with Solid Base and Acid Mixed Catalysts by Thermogravimetryâ€“Fourier Transform Infrared Spectroscopy and Pyrolysisâ€“Gas Chromatography/Mass Spectrometry. Energy & Fuels, 2014, 28, 4294-4299.	2.5	56
53	Structural analysis of lignin residue from black liquor and its thermal performance in thermogravimetric-Fourier transform infrared spectroscopy. Bioresource Technology, 2013, 128, 633-639.	4.8	95
54	Comparison of Catalytic Characteristics of Biomass Derivates with Different Structures Over ZSM-5. Bioenergy Research, 2013, 6, 1173-1182.	2.2	37

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55	A mathematical description of thermal decomposition and spontaneous ignition of wood slab under a truncated-cone heater. Korean Journal of Chemical Engineering, 2013, 30, 613-619.	1.2	3
56	Thermal-balanced integral model for pyrolysis and ignition of wood. Korean Journal of Chemical Engineering, 2013, 30, 228-234.	1.2	16
57	Online evolved gas analysis by Thermogravimetric-Mass Spectroscopy for thermal decomposition of biomass and its components under different atmospheres: Part I. Lignin. Bioresource Technology, 2013, 130, 449-456.	4.8	57
58	Thermal Behavior of Wood Slab Under a Truncated-Cone Electrical Heater: Experimental Observation. Combustion Science and Technology, 2013, 185, 848-862.	1.2	9
59	Co-catalytic pyrolysis of biomass and waste triglyceride seed oil in a novel fluidized bed reactor to produce olefins and aromatics integrated with self-heating and catalyst regeneration processes. RSC Advances, 2013, 3, 5769.	1.7	58
60	TG-MS analysis for thermal decomposition of cellulose under different atmospheres. Carbohydrate Polymers, 2013, 98, 514-521.	5.1	63
61	The pyrolytic behavior of cellulose in lignocellulosic biomass: a review. RSC Advances, 2011, 1, 1641.	1.7	145