List of Publications by Year in descending order

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DEVIL SHEN

#	Article	IF	CITATIONS
1	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
2	Phosphate adsorption on lanthanum loaded biochar. Chemosphere, 2016, 150, 1-7.	4.2	305
3	State-of-the-art on the production and application of carbon nanomaterials from biomass. Green Chemistry, 2018, 20, 5031-5057.	4.6	256
4	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
5	Characterization of Coke Deposition in the Catalytic Fast Pyrolysis of Biomass Derivates. Energy & Fuels, 2014, 28, 52-57.	2.5	177
6	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
7	Catalytic Upgrading of Biomass Model Compounds: Novel Approaches and Lessons Learnt from Traditional Hydrodeoxygenation – a Review. ChemCatChem, 2019, 11, 924-960.	1.8	167
8	The pyrolytic behavior of cellulose in lignocellulosic biomass: a review. RSC Advances, 2011, 1, 1641.	1.7	145
9	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
10	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
11	Green Synthesis of Tunable Fluorescent Carbon Quantum Dots from Lignin and Their Application in Anti-Counterfeit Printing. ACS Applied Materials & amp; Interfaces, 2021, 13, 56465-56475.	4.0	82
12	High H ₂ /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
13	Catalytic Oxidation of Lignin in Solvent Systems for Production of Renewable Chemicals: A Review. Polymers, 2017, 9, 240.	2.0	72
14	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
15	Mechanism on microwave-assisted acidic solvolysis of black-liquor lignin. Bioresource Technology, 2014, 162, 136-141.	4.8	64
16	TG-MS analysis for thermal decomposition of cellulose under different atmospheres. Carbohydrate Polymers, 2013, 98, 514-521.	5.1	63
17	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
18	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

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19	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
20	Study on Pyrolysis of Pine Sawdust with Solid Base and Acid Mixed Catalysts by Thermogravimetry–Fourier Transform Infrared Spectroscopy and Pyrolysis–Gas Chromatography/Mass Spectrometry. Energy & Fuels, 2014, 28, 4294-4299.	2.5	56
21	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
22	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
23	Progress in carbon-based electrocatalyst derived from biomass for the hydrogen evolution reaction. Fuel, 2021, 293, 120440.	3.4	53
24	Thermal degradation of xylan-based hemicellulose under oxidative atmosphere. Carbohydrate Polymers, 2015, 127, 363-371.	5.1	50
25	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
26	Catalytic Conversion of Biomass Derivates over Acid Dealuminated ZSM-5. Industrial & Engineering Chemistry Research, 2014, 53, 15871-15878.	1.8	49
27	Catalytic hydrogenolysis of lignin in ethanol/isopropanol over an activated carbon supported nickel-copper catalyst. Bioresource Technology, 2021, 319, 124238.	4.8	45
28	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
29	Composition Analysis of Organosolv Lignin and Its Catalytic Solvolysis in Supercritical Alcohol. Energy & Fuels, 2014, 28, 4260-4266.	2.5	41
30	Temperature sensitivity of the selective catalytic reduction (SCR) performance of Ce–TiO2 in the presence of SO2. Chemosphere, 2020, 243, 125419.	4.2	39
31	Comparison of Catalytic Characteristics of Biomass Derivates with Different Structures Over ZSM-5. Bioenergy Research, 2013, 6, 1173-1182.	2.2	37
32	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
33	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
34	Nonprecious Metal/Bimetallic Catalytic Hydrogenolysis of Lignin in a Mixed-Solvent System. ACS Sustainable Chemistry and Engineering, 2020, 8, 16217-16228.	3.2	33
35	Hydrogen production from bio-oil by chemical looping reforming. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1921-1927.	2.0	28
36	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

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37	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
38	Immobilization of Cu2+ and Cd2+ by earthworm manure derived biochar in acidic circumstance. Journal of Environmental Sciences, 2017, 53, 293-300.	3.2	25
39	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
40	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
41	Thermal-balanced integral model for pyrolysis and ignition of wood. Korean Journal of Chemical Engineering, 2013, 30, 228-234.	1.2	16
42	Experimental and Kinetic Study on Lignin Depolymerization in Water/Formic Acid System. International Journal of Molecular Sciences, 2017, 18, 2082.	1.8	14
43	Catalytic cleavage of C–O linkages in benzyl phenyl ether assisted by microwave heating. RSC Advances, 2015, 5, 43972-43977.	1.7	12
44	Sulfation effect of Ce/TiO ₂ catalyst for the selective catalytic reduction of NO _x with NH ₃ : mechanism and kinetic studies. RSC Advances, 2019, 9, 32110-32120.	1.7	11
45	Facile Synthesis of Multi-Emission Nitrogen/Boron Co-Doped Carbon Dots from Lignin for Anti-Counterfeiting Printing. Polymers, 2022, 14, 2779.	2.0	11
46	Mechanism of transmethylation in anisole decomposition over HZSM-5: Experimental study. Journal of Analytical and Applied Pyrolysis, 2016, 122, 323-331.	2.6	10
47	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
48	Thermal Behavior of Wood Slab Under a Truncated-Cone Electrical Heater: Experimental Observation. Combustion Science and Technology, 2013, 185, 848-862.	1.2	9
49	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
50	Preparation of Different Nickel–Iron/Titania–Alumina Catalysts for Hydrogen/Carbon Monoxide Methanation under Atmospheric Pressure. Energy Technology, 2017, 5, 1218-1227.	1.8	9
51	Coked Ni/Al ₂ O ₃ 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
52	Carbon nanotubes/Al ₂ O ₃ 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
53	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
54	Anaerobic Co-digestion of Urban Sewage Sludge with Agricultural Biomass. Waste and Biomass Valorization, 2020, 11, 6199-6209.	1.8	8

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55	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
56	Effect of Transition Metal Additives on the Catalytic Performance of Cu–Mn/SAPO-34 for Selective Catalytic Reduction of NO with NH3 at Low Temperature. Catalysts, 2019, 9, 685.	1.6	7
57	Comparison Study of the SCR Performance over Mn–TiO ₂ and Ce–TiO ₂ Catalysts: An Experimental and DFT Study. Energy & Fuels, 2021, 35, 14681-14691.	2.5	7
58	Adsorption of C–C Linkage-Contained Lignin Model Compound Over the Metal Surface of Catalysts: Quantum Simulation. Topics in Catalysis, 2018, 61, 1783-1791.	1.3	4
59	Preparation of Citric Acid-Sewage Sludge Hydrochar and Its Adsorption Performance for Pb(II) in Aqueous Solution. Polymers, 2022, 14, 968.	2.0	4
60	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
61	Facile and green preparation of solid carbon nanoonions <i>via</i> 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