

Dongdong Feng

List of Publications by Year in descending order

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66
papers

2,382
citations

218677

26
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214800

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all docs

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docs citations

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times ranked

1284
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pressure on the structure and reactivity of demineralized coal during O ₂ /H ₂ O thermal conversion process. <i>Energy</i> , 2022, 244, 122632.	8.8	8
2	Experimental study of nitrogen conversion during char combustion under a pressurized O ₂ /H ₂ O atmosphere. <i>Fuel</i> , 2022, 311, 122529.	6.4	10
3	Study on the thermal conversion characteristics of demineralized coal char under pressurized O ₂ /H ₂ O atmosphere. <i>Fuel</i> , 2022, 310, 122429.	6.4	11
4	Synergistic mechanism of biochar-nano TiO ₂ adsorption-photocatalytic oxidation of toluene. <i>Fuel Processing Technology</i> , 2022, 229, 107200.	7.2	35
5	Functional Biochar Synergistic Solid/Liquid-Phase CO ₂ Capture: A Review. <i>Energy & Fuels</i> , 2022, 36, 2945-2970.	5.1	49
6	Carbon material-TiO ₂ for photocatalytic reduction of CO ₂ and degradation of VOCs: A critical review. <i>Fuel Processing Technology</i> , 2022, 231, 107261.	7.2	22
7	Review on thermal conversion characteristics of coal in O ₂ /H ₂ O atmosphere. <i>Fuel Processing Technology</i> , 2022, 232, 107266.	7.2	14
8	Thermal synergistic treatment of municipal solid waste incineration (MSWI) fly ash and fluxing agent in specific situation: Melting characteristics, leaching characteristics of heavy metals. <i>Fuel Processing Technology</i> , 2022, 233, 107311.	7.2	14
9	Interaction mechanism of in-situ catalytic coal H ₂ O-gasification over biochar catalysts for H ₂ O-H ₂ -tar reforming and active sites conversion. <i>Fuel Processing Technology</i> , 2022, 233, 107307.	7.2	23
10	Behavior Study of Migration and Transformation of Heavy Metals during Oily Sludge Pyrolysis. <i>Energy & Fuels</i> , 2022, 36, 8311-8322.	5.1	16
11	Effect of high-temperature and microwave expanding modification on reactivity of coal char for char-NO interaction. <i>Science of the Total Environment</i> , 2021, 760, 144028.	8.0	10
12	Functionalized construction of biochar with hierarchical pore structures and surface O-/N-containing groups for phenol adsorption. <i>Chemical Engineering Journal</i> , 2021, 410, 127707.	12.7	163
13	Adsorption-enrichment characterization of CO ₂ and dynamic retention of free NH ₃ in functionalized biochar with H ₂ O/NH ₃ -H ₂ O activation for promotion of new ammonia-based carbon capture. <i>Chemical Engineering Journal</i> , 2021, 409, 128193.	12.7	58
14	Thermal evolution of gas-liquid-solid products and migration regulation of C/H/O elements during biomass pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105128.	5.5	24
15	Mechanism of biochar-gas-tar-soot formation during pyrolysis of different biomass feedstocks: Effect of inherent metal species. <i>Fuel</i> , 2021, 293, 120409.	6.4	34
16	System modification and thermal efficiency study on the semi-closed cycle of supercritical carbon dioxide. <i>Energy Conversion and Management</i> , 2021, 241, 114272.	9.2	10
17	Mechanism of coke formation and corresponding gas fraction characteristics in biochar-catalyzed tar reforming during Corn Straw Pyrolysis. <i>Fuel Processing Technology</i> , 2021, 221, 106903.	7.2	23
18	Effect of steam on coke deposition during the tar reforming from corn straw pyrolysis over biochar. <i>Fuel Processing Technology</i> , 2021, 224, 107007.	7.2	19

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19	Effect of microbubbles on preparation of precipitated silica by carbonization: physical-chemical structure, kinetic parameters and mass transfer characteristics. Carbon Capture Science & Technology, 2021, 1, 100002.	10.4	4
20	Catalytic mechanism of Na on coal pyrolysis-derived carbon black formation: Experiment and DFT simulation. Fuel Processing Technology, 2021, 224, 107011.	7.2	51
21	Impact of Sodium on the Formation Mechanism and Physicochemical Properties of Coal-Derived Soot. Energy & Fuels, 2020, 34, 1453-1466.	5.1	21
22	In-situ decoupling effect of H ₂ O on the whole process of coal gasification in MFBRA and TG-FTIR-MS. Journal of Analytical and Applied Pyrolysis, 2020, 145, 104744.	5.5	16
23	The intrinsic kinetics of methane steam reforming over a nickel-based catalyst in a micro fluidized bed reaction system. International Journal of Hydrogen Energy, 2020, 45, 1615-1628.	7.1	34
24	Mechanism of In-Situ Catalytic Cracking of Biomass Tar over Biochar with Multiple Active Sites. , 2020, , .		0
25	Mechanism of in-situ dynamic catalysis and selective deactivation of H ₂ O-activated biochar for biomass tar reforming. Fuel, 2020, 279, 118450.	6.4	113
26	Effect of different forms of Na and temperature on soot formation during lignite pyrolysis. Fuel, 2020, 280, 118514.	6.4	17
27	Review of Carbon Fixation Evaluation and Emission Reduction Effectiveness for Biochar in China. Energy & Fuels, 2020, 34, 10583-10606.	5.1	39
28	Mechanism of catalytic tar reforming over biochar: Description of volatile-H ₂ O-char interaction. Fuel, 2020, 275, 117954.	6.4	45
29	Effects of total pressure and CO ₂ partial pressure on the physicochemical properties and reactivity of pressurized coal char produced at rapid heating rate. Energy, 2020, 208, 118297.	8.8	27
30	Catalytic Mechanism of K and Ca on the Volatile-Biochar Interaction for Rapid Pyrolysis of Biomass: Experimental and Simulation Studies. Energy & Fuels, 2020, 34, 9741-9753.	5.1	34
31	Roles of Ion-Exchangeable Sodium in the Conversion Process of Tar to Soot during Rapid Pyrolysis of Two Brown Coals in a Drop-Tube Reactor. ACS Omega, 2020, 5, 9078-9092.	3.5	9
32	Evolution of Char Structure During In-Situ Biomass Tar Reforming: Importance of the Coupling Effect Among the Physical-Chemical Structure of Char-Based Catalysts. Catalysts, 2019, 9, 711.	3.5	19
33	Characteristics of Gas-Liquid-Solid Products in Corn Straw Gasification: Effect of the Char-Tar-H ₂ O Interaction. Energy & Fuels, 2019, 33, 9974-9984.	5.1	37
34	Effects of flue gases (CO/CO ₂ /SO ₂ /H ₂ O/O ₂) on NO-Char interaction at high temperatures. Energy, 2019, 174, 519-525.	8.8	38
35	Formation and O ₂ /CO ₂ combustion characteristics of real-environment coal char in high-temperature oxy-fuel conditions. Journal of the Energy Institute, 2019, 92, 1670-1682.	5.3	30
36	Combustion Characteristics of Plant Chemical Polyol Waste Liquor in a Pilot Water-Cooled Incinerator. Energies, 2019, 12, 4369.	3.1	0

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37	The Thermal Swelling Properties of Plant Chemical Alcohol Waste Liquid. <i>Energies</i> , 2019, 12, 4184.	3.1	2
38	Effects of Pressure on the Characteristics of Bituminous Coal Pyrolysis Char Formed in a Pressurized Drop Tube Furnace. <i>Energy & Fuels</i> , 2019, 33, 12219-12226.	5.1	27
39	Combustion characteristics of char from pyrolysis of Zhundong sub-bituminous coal under O ₂ /steam atmosphere: Effects of mineral matter. <i>International Journal of Greenhouse Gas Control</i> , 2019, 80, 54-60.	4.6	18
40	Mass transfer in ammonia-based CO ₂ absorption in bubbling reactor under static magnetic field. <i>Chemical Engineering Journal</i> , 2018, 338, 450-456.	12.7	24
41	Improvement and maintenance of biochar catalytic activity for in-situ biomass tar reforming during pyrolysis and H ₂ O/CO ₂ gasification. <i>Fuel Processing Technology</i> , 2018, 172, 106-114.	7.2	77
42	Effect of magnetic field on the ammonia-based CO ₂ absorption process. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1462-1467.	1.7	3
43	Catalytic effects of ion-exchangeable K ⁺ and Ca ²⁺ on rice husk pyrolysis behavior and its gas-liquid-solid product properties. <i>Energy</i> , 2018, 152, 166-177.	8.8	61
44	Catalytic mechanism of ion-exchanging alkali and alkaline earth metallic species on biochar reactivity during CO ₂ /H ₂ O gasification. <i>Fuel</i> , 2018, 212, 523-532.	6.4	168
45	Study on the effect of H ₂ O on the formation of CO in the counterflow diffusion flame of H ₂ /CO syngas in O ₂ /H ₂ O. <i>Fuel</i> , 2018, 234, 516-525.	6.4	11
46	Steam Gasification of Sawdust Biochar Influenced by Chemical Speciation of Alkali and Alkaline Earth Metallic Species. <i>Energies</i> , 2018, 11, 205.	3.1	15
47	Influence of preheating and burner geometry on modeling the attachment of laminar coflow CH ₄ /air diffusion flames. <i>Combustion and Flame</i> , 2018, 191, 381-393.	5.2	11
48	Characteristics of rice husk gasification in cyclone pyrolysis-suspended combustion system. <i>Thermal Science</i> , 2018, 22, 439-447.	1.1	7
49	Optimization of the process of antisolvent crystallization of carbonized ammonia with a low carbon-to-nitrogen ratio. <i>Fuel Processing Technology</i> , 2017, 155, 59-67.	7.2	8
50	Effects of H ₂ O and CO ₂ on the homogeneous conversion and heterogeneous reforming of biomass tar over biochar. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13070-13084.	7.1	103
51	Effects of Water Molecule on CO Oxidation by OH: Reaction Pathways, Kinetic Barriers, and Rate Constants. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4868-4880.	2.5	10
52	Changes of biochar physiochemical structures during tar H ₂ O and CO ₂ heterogeneous reforming with biochar. <i>Fuel Processing Technology</i> , 2017, 165, 72-79.	7.2	58
53	Synergetic effects of biochar structure and AAEM species on reactivity of H ₂ O-activated biochar from cyclone air gasification. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16045-16053.	7.1	37
54	Study on regenerative process of the new carbon capture technique based on antisolvent crystallization to strengthen crystallization. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1979-1984.	1.7	4

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55	Experimental comparison of biochar species on in-situ biomass tar H ₂ O reforming over biochar. International Journal of Hydrogen Energy, 2017, 42, 24035-24046.	7.1	43
56	Synergies and progressive effects of H ₂ O/CO ₂ and nascent tar on biochar structure and reactivity during gasification. Fuel Processing Technology, 2017, 168, 1-10.	7.2	17
57	Experimental study of cyclone pyrolysis – Suspended combustion air gasification of biomass. Bioresource Technology, 2017, 243, 1241-1246.	9.6	8
58	Roles and fates of K and Ca species on biochar structure during in-situ tar H ₂ O reforming over nascent biochar. International Journal of Hydrogen Energy, 2017, 42, 21686-21696.	7.1	60
59	In-situ steam reforming of biomass tar over sawdust biochar in mild catalytic temperature. Biomass and Bioenergy, 2017, 107, 261-270.	5.7	40
60	Effects of volatile–char interactions on char during pyrolysis of rice husk at mild temperatures. Bioresource Technology, 2016, 219, 702-709.	9.6	24
61	Effects of K and Ca on reforming of model tar compounds with pyrolysis biochars under H ₂ O or CO ₂ . Chemical Engineering Journal, 2016, 306, 422-432.	12.7	169
62	Development of a Multistage in Situ Reaction Analyzer Based on a Micro Fluidized Bed and Its Suitability for Rapid Gas–Solid Reactions. Energy & Fuels, 2016, 30, 6021-6033.	5.1	40
63	Effect of pyrolysis temperature on char structure and chemical speciation of alkali and alkaline earth metallic species in biochar. Fuel Processing Technology, 2016, 141, 54-60.	7.2	248
64	Migration of Alkali and Alkaline Earth Metallic Species and Structure Analysis of Sawdust Pyrolysis Biochar. Korean Chemical Engineering Research, 2016, 54, 659-664.	0.2	9
65	Experimental study Char–NO reduction characteristics at elevated pressure. Asia-Pacific Journal of Chemical Engineering, 0, , e2730.	1.5	3
66	Biochar Synergistic New Ammonia Capture of CO ₂ and High-Value Utilization of Intermediate Products. , 0, , .		0