

# Dechao Wang

## List of Publications by Year in descending order

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47  
papers

1,027  
citations

430874

18  
h-index

454955

30  
g-index

47  
all docs

47  
docs citations

47  
times ranked

870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting production of useful chemicals and micro-mesopores biochar from in situ catalytic pyrolysis of cellulose with red mud. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 7045-7055.	4.6	5
2	Nb <sub>2</sub> O <sub>5</sub> modified NiAl <sub>2</sub> O <sub>4</sub> catalysts for hydrodeoxygenation of methyl palmitate to long-chain alkane. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 6951-6965.	4.6	2
3	Optimization of key parameters using RSM for improving the production of the green biodiesel from FAME by hydrotreatment over Pt/SAPO-11. <i>Biomass and Bioenergy</i> , 2022, 158, 106379.	5.7	10
4	Selective production of alkanes and fatty alcohol via hydrodeoxygenation of palmitic acid over red mud-supported nickel catalysts. <i>Fuel</i> , 2022, 314, 122780.	6.4	19
5	Catalytic pyrolysis of cellulose over solid acidic catalysts: an environment-friendly method for furan production. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 2695-2702.	4.6	7
6	Co-pyrolysis behaviors of low-rank coal and polystyrene with in-situ pyrolysis time-of-flight mass spectrometry. <i>Fuel</i> , 2021, 286, 119461.	6.4	14
7	Improving the thermal and mechanical properties of phenolic fiber over boron modified high-ortho phenolic resin. <i>High Performance Polymers</i> , 2021, 33, 587-597.	1.8	10
8	Facile Preparation of Low-Cost and Cross-Linked Carbon Nanofibers Derived from PAN/PMMA/Lignin as Supercapacitor Electrodes. <i>Energy &amp; Fuels</i> , 2021, 35, 796-805.	5.1	29
9	Preparation of high molecular weight thermoplastic bio-based phenolic resin and fiber based on lignin liquefaction. <i>Materials Research Express</i> , 2021, 8, 015308.	1.6	8
10	Reagent-assisted hydrothermal synthesis of NiCo <sub>2</sub> O <sub>4</sub> nanomaterials as electrodes for high-performance asymmetric supercapacitors. <i>New Journal of Chemistry</i> , 2021, 45, 9230-9242.	2.8	16
11	Selective Hydrogenation of Furfural over the Co-Based Catalyst: A Subtle Synergy with Ni and Zn Dopants. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8507-8517.	8.0	49
12	Catalytic upgrading of lignocellulosic biomass pyrolysis vapors: Insights into physicochemical changes in ZSM-5. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105123.	5.5	20
13	Insights into pyrolysis behavior of polyacrylonitrile precursors using Py-GC/MS. <i>Chemical Papers</i> , 2021, 75, 5297-5311.	2.2	4
14	One-step hydrotreatment of inedible oil for production the second-generation biofuel over Pt-Sn/SAPO-11 catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105121.	5.5	22
15	Production of diesel-like hydrocarbons via hydrodeoxygenation of palmitic acid over Ni/TS-1 catalyst. <i>Biomass and Bioenergy</i> , 2021, 149, 106081.	5.7	17
16	Enhancing Lithium-Storage Performance via Graphdiyne/Graphene Interface by Self-Supporting Framework Synthesized. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34332-34340.	8.0	13
17	Direct catalytic conversion cellulose pyrolysis vapors into long chain alkanes (LCAs) over Au/TS-1. <i>Journal of the Energy Institute</i> , 2021, 98, 11-19.	5.3	5
18	Boosting the selectivity of aromatic hydrocarbons via ex-situ catalytic fast pyrolysis of cellulose over Pt@Ce/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of the Energy Institute</i> , 2021, 98, 144-152.	5.3	9

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19	Development of a New Route for Separating and Purifying 4-Ethyl-2-methoxyphenol Based on the Reaction Mechanism between the Chemical and Calcium Ion. ACS Omega, 2021, 6, 2206-2214.	3.5	3
20	One-dimensional Spinel Transition Bimetallic Oxide Composite Carbon Nanofibers (CoFe <sub>2</sub> O <sub>4</sub> @CNFs) for Asymmetric Supercapacitors. ChemElectroChem, 2021, 8, 4116-4123.	3.4	6
21	Catalytic upgrading of lignite pyrolysis volatiles over modified HY zeolites. Fuel, 2020, 259, 116234.	6.4	40
22	Enhanced production of light tar from integrated process of in-situ catalytic upgrading lignite tar and methane dry reforming over Ni/mesoporous Y. Fuel, 2020, 279, 118533.	6.4	20
23	Catalytic Pyrolysis Vapor Upgrading of Corncob into Furans over Pyrolysis-Comprehensive Two-Dimensional Gas Chromatography/Mass Spectrometry: Significance of Catalyst and Temperature. Bioenergy Research, 2020, 13, 1180-1193.	3.9	6
24	Efficient ex-situ catalytic upgrading of biomass pyrolysis vapors to produce methylfurans and phenol over bio-based activated carbon. Biomass and Bioenergy, 2020, 142, 105794.	5.7	21
25	A new method for long-chain alkanes under a condition without extra hydrogen source: Catalytic upgrading of cellulose pyrolysis vapors over Au/TS-1 catalyst. Journal of Analytical and Applied Pyrolysis, 2020, 151, 104906.	5.5	11
26	A Surface Chemistry Approach to Tailoring the Hydrophilicity and Lithiophilicity of Carbon Films for Hosting High-Performance Lithium Metal Anodes. Advanced Functional Materials, 2020, 30, 2000585.	14.9	37
27	Oxidative Catalytic Cracking and Reforming of Coal Pyrolysis Volatiles over NiO. Energy & Fuels, 2020, 34, 6928-6937.	5.1	11
28	Catalytic fast pyrolysis of cellulose over Ce <sub>0.8</sub> Zr <sub>0.2-x</sub> Al <sub>x</sub> O <sub>2</sub> catalysts to produce aromatic hydrocarbons: Analytical Py-GC/MS. Fuel Processing Technology, 2020, 205, 106438.	7.2	31
29	Catalytic copyrolysis of metal impregnated biomass and plastic with Ni-based HZSM-5 catalyst: Synergistic effects, kinetics and product distribution. International Journal of Energy Research, 2020, 44, 5917-5935.	4.5	23
30	Integrated coal pyrolysis with dry reforming of low carbon alkane over Ni/La <sub>2</sub> O <sub>3</sub> to improve tar yield. Fuel, 2020, 266, 117092.	6.4	15
31	Bi-Doped Ceria as a Highly Efficient Catalyst for Soot Combustion: Improved Mobility of Lattice Oxygen in Ce <sub>x</sub> Bi <sub>1-x</sub> O <sub>y</sub> Catalysts. Energy & Fuels, 2020, 34, 9932-9939.	5.1	13
32	Co-pyrolysis of Baiyinhua lignite and pine in an infrared-heated fixed bed to improve tar yield. Fuel, 2020, 272, 117739.	6.4	21
33	In-situ Upgrading of Coal Pyrolysis Tar with Steam Catalytic Cracking over Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts. ChemistrySelect, 2020, 5, 4905-4912.	1.5	6
34	Synthesis and Thermal Properties of Resorcinol-Furfural Thermosetting Resin. ACS Omega, 2020, 5, 10011-10020.	3.5	14
35	Fast co-pyrolysis of a massive Naomaohu coal and cedar mixture using rapid infrared heating. Energy Conversion and Management, 2020, 205, 112442.	9.2	50
36	Effect of different acid-leached USY zeolites on in-situ catalytic upgrading of lignite tar. Fuel, 2020, 266, 117089.	6.4	32

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37	Effect of reducibility of transition metal oxides on in-situ oxidative catalytic cracking of tar. Energy Conversion and Management, 2019, 197, 111871.	9.2	43
38	Integrated process for partial oxidation of heavy oil and in-situ reduction of red mud. Applied Catalysis B: Environmental, 2019, 258, 117944.	20.2	28
39	Integrated process of coal tar upgrading and in-situ reduction of Fe <sub>2</sub> O <sub>3</sub> . Fuel Processing Technology, 2019, 191, 20-28.	7.2	18
40	Chemical-enzymatic fractionation to unlock the potential of biomass-derived carbon materials for sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 26954-26965.	10.3	41
41	Upgrading of vacuum residue with chemical looping partial oxidation over Fe-Mn mixed metal oxides. Fuel, 2019, 239, 764-773.	6.4	24
42	Upgrading of Heavy Oil with Chemical Looping Partial Oxidation over M <sup>2+</sup> Doped Fe <sub>2</sub> O <sub>3</sub> . Energy & Fuels, 2019, 33, 257-265.	5.1	6
43	Steam catalytic cracking of coal tar over iron-containing mixed metal oxides. Canadian Journal of Chemical Engineering, 2019, 97, 702-708.	1.7	7
44	Preparation of Ce-Mn/Fe <sub>2</sub> O <sub>3</sub> Catalysts for Steam Catalytic Cracking of Coal Tar. ChemistrySelect, 2018, 3, 12537-12543.	1.5	2
45	Upgrading of vacuum residue with chemical looping partial oxidation over Ce doped Fe <sub>2</sub> O <sub>3</sub> . Energy, 2018, 162, 542-553.	8.8	27
46	Study on aromatics production via the catalytic pyrolysis vapor upgrading of biomass using metal-loaded modified H-ZSM-5. Journal of Analytical and Applied Pyrolysis, 2017, 126, 169-179.	5.5	180
47	Partial oxidation of vacuum residue over Al and Zr-doped Fe <sub>2</sub> O <sub>3</sub> catalysts. Fuel, 2017, 210, 803-810.	6.4	32