Lijun Jin

List of Publications by Year
in descending order

90 papers	2,516 citations	172457 29 h-index	243625 44 g-index
90 all docs	90 docs citations	90 times ranked	1626 citing authors

#	Article	IF	Citations
1	Analysis of coal tar derived from pyrolysis at different atmospheres. Fuel, 2013, 104, 14-21.	6.4	156
2	Hierarchical porous carbons prepared from direct coal liquefaction residue and coal for supercapacitor electrodes. Carbon, 2013, 55, 221-232.	10.3	134
3	Pyrolysis behavior of vitrinite and inertinite from Chinese Pingshuo coal by TGâ€“MS and in a fixed bed reactor. Fuel Processing Technology, 2011, 92, 780-786.	7.2	106
4	In-situ catalytic upgrading of coal pyrolysis tar on carbon-based catalyst in a fixed-bed reactor. Fuel Processing Technology, 2016, 147, 41-46.	7.2	85
5	Preparation of activated carbon supported Feâ€“Al_2O_3 catalyst and its application for hydrogen production by catalytic methane decomposition. International Journal of Hydrogen Energy, 2013, 38, 10373-10380.	7.1	68
6	Integrated coal pyrolysis with CO_2 reforming of methane over Ni/MgO catalyst for improving tar yield. Fuel Processing Technology, 2010, 91, 419-423.	7.2	67
7	Role of Iron-Based Catalyst and Hydrogen Transfer in Direct Coal Liquefaction. Energy & Fuels, 2008, 22, 1126-1129.	5.1	65
8	Effect of temperature and simulated coal gas composition on tar production during pyrolysis of a subbituminous coal. Fuel, 2019, 241, 1129-1137.	6.4	60
9	Mesoporous carbon prepared from direct coal liquefaction residue for methane decomposition. Carbon, 2012, 50, 952-959.	10.3	54
10	Pyrolysis of Huolinhe lignite extract by in-situ pyrolysis-time of flight mass spectrometry. Fuel Processing Technology, 2015, 135, 52-59.	7.2	52
11	Integrated coal pyrolysis with methane aromatization over Mo/HZSM-5 for improving tar yield. Fuel, 2013, 114, 187-190.	6.4	51
12	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
13	Effect of functional groups on volatile evolution in coal pyrolysis process with in-situ pyrolysis photoionization time-of-flight mass spectrometry. Fuel, 2020, 260, 116322.	6.4	46
14	Pyrolysis Behavior of Weakly Reductive Coals from Northwest China. Energy & Fuels, 2009, 23, 870-875.	5.1	44
15	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
16	Preparation of Fe-Doped Carbon Catalyst for Methane Decomposition to Hydrogen. Industrial & Engineering Chemistry Research, 2017, 56, 11021-11027.	3.7	42
17	Effect of mineral in coal on preparation of activated carbon for methane decomposition to hydrogen. Fuel, 2019, 258, 116138.	6.4	42
18	Hierarchical porous carbon catalyst for simultaneous preparation of hydrogen and fibrous carbon by catalytic methane decomposition. International Journal of Hydrogen Energy, 2013, 38, 8732-8740.	7.1	41

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19	Experimental and Theoretical Study on the Pyrolysis Mechanism of Three Coal-Based Model Compounds. Energy & Fuels, 2014, 28, 980-986.	5.1	41
20	Catalytic upgrading of lignite pyrolysis volatiles over modified HY zeolites. Fuel, 2020, 259, 116234.	6.4	40
21	Effect of Fe components in red mud on catalytic pyrolysis of low rank coal. Journal of the Energy Institute, 2022, 100, 1-9.	5.3	40
22	Isotope Analysis for Understanding the Tar Formation in the Integrated Process of Coal Pyrolysis with CO₂ Reforming of Methane. Energy & Fuels, 2010, 24, 4402-4407.	5.1	35
23	In Situ Analysis of Catalytic Effect of Calcium Nitrate on Shenmu Coal Pyrolysis with Pyrolysis Vacuum Ultraviolet Photoionization Mass Spectrometry. Energy & Fuels, 2018, 32, 1061-1069.	5.1	34
24	Catalytic methane decomposition over activated carbons prepared from direct coal liquefaction residue by KOH activation with addition of SiO 2 or SBA-15. International Journal of Hydrogen Energy, 2011, 36, 8978-8984.	7.1	33
25	Preparation and applications of hierarchical porous carbons from direct coal liquefaction residue. Fuel, 2013, 109, 2-8.	6.4	32
26	Partial oxidation of vacuum residue over Al and Zr-doped Î±-Fe2O3 catalysts. Fuel, 2017, 210, 803-810.	6.4	32
27	In-situ catalytic upgrading of coal pyrolysis tar coupled with CO2 reforming of methane over Ni-based catalysts. Fuel Processing Technology, 2018, 177, 119-128.	7.2	32
28	Effect of different acid-leached USY zeolites on in-situ catalytic upgrading of lignite tar. Fuel, 2020, 266, 117089.	6.4	32
29	Effect of Ca(NO3)2 addition in coal on properties of activated carbon for methane decomposition to hydrogen. Fuel Processing Technology, 2018, 176, 85-90.	7.2	31
30	Integrated Process of Coal Pyrolysis with Steam Reforming of Methane for Improving the Tar Yield. Energy & Fuels, 2014, 28, 7377-7384.	5.1	30
31	Effect of hydrogen additive on methane decomposition to hydrogen and carbon over activated carbon catalyst. International Journal of Hydrogen Energy, 2018, 43, 17611-17619.	7.1	28
32	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
33	In-situ catalytic upgrading of coal pyrolysis tar over activated carbon supported nickel in CO2 reforming of methane. Fuel, 2019, 250, 203-210.	6.4	28
34	Upgrading of vacuum residue with chemical looping partial oxidation over Ce doped Fe2O3. Energy, 2018, 162, 542-553.	8.8	27
35	Pyrolytic behavior of coal-related model compounds connected with Câ€“C bridged linkages by in-situ pyrolysis vacuum ultraviolet photoionization mass spectrometry. Fuel, 2019, 241, 533-541.	6.4	27
36	Pyrolysis Behavior of Macerals from Weakly Reductive Coals. Energy & Fuels, 2010, 24, 6314-6320.	5.1	26

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37	In-situ analysis of catalytic pyrolysis of Baiyinhua coal with pyrolysis time-of-flight mass spectrometry. Fuel, 2018, 227, 386-393.	6.4	26
38	Preparation of carbon-Ni/MgO-Al2O3 composite catalysts for CO2 reforming of methane. International Journal of Hydrogen Energy, 2017, 42, 5047-5055.	7.1	25
39	Ni/MgO Al2O3 catalyst derived from modified [Ni,Mg,Al]-LDH with NaOH for CO2 reforming of methane. International Journal of Hydrogen Energy, 2018, 43, 2689-2698.	7.1	25
40	Fast pyrolysis behaviors of cedar in an infrared-heated fixed-bed reactor. Bioresource Technology, 2019, 290, 121739.	9.6	25
41	<i>In Situ</i> Catalytic Upgrading of Coal Pyrolysis Tar over Carbon-Based Catalysts Coupled with CO₂ Reforming of Methane. Energy & Fuels, 2017, 31, 9356-9362.	5.1	24
42	Upgrading of vacuum residue with chemical looping partial oxidation over Fe-Mn mixed metal oxides. Fuel, 2019, 239, 764-773.	6.4	24
43	Catalytic cracking of coal-tar model compounds over ZrO2/Al2O3 and Ni-Ce/Al2O3 catalysts under steam atmosphere. Fuel, 2020, 263, 116763.	6.4	24
44	Effect of composition in coal liquefaction residue on catalytic activity of the resultant carbon for methane decomposition. Fuel, 2012, 96, 462-468.	6.4	23
45	Interaction between Hydrogen-Donor and Nondonor Solvents in Direct Liquefaction of Bulianta Coal. Energy & Fuels, 2016, 30, 10260-10267.	5.1	23
46	Novel insight into pyrolysis behaviors of lignin using in-situ pyrolysis-double ionization time-of-flight mass spectrometry combined with electron paramagnetic resonance spectroscopy. Bioresource Technology, 2020, 312, 123555.	9.6	23
47	Online analysis of initial volatile products of Shenhua coal and its macerals with pyrolysis vacuum ultraviolet photoionization mass spectrometry. Fuel Processing Technology, 2017, 163, 67-74.	7.2	22
48	Structural Features and Pyrolysis Behaviors of Extracts from Microwave-Assisted Extraction of a Low-Rank Coal with Different Solvents. Energy & Fuels, 2019, 33, 106-114.	5.1	22
49	Integrated Process of Coal Pyrolysis with CO₂ Reforming of Methane by Dielectric Barrier Discharge Plasma. Energy & Fuels, 2011, 25, 4036-4042.	5.1	21
50	Co-pyrolysis of Baiyinhua lignite and pine in an infrared-heated fixed bed to improve tar yield. Fuel, 2020, 272, 117739.	6.4	21
51	Synthesis of hierarchical ZSM-5 by cetyltrimethylammonium bromide assisted self-assembly of zeolite seeds and its catalytic performances. Reaction Kinetics, Mechanisms and Catalysis, 2014, 113, 575-584.	1.7	20
52	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
53	Insights into effect of Ca(OH)2 on pyrolysis behaviors and products distribution of Hongshaquan coal. Fuel, 2022, 307, 121791.	6.4	20
54	Pyrolysis behavior of low-density polyethylene over HZSM-5 via rapid infrared heating. Science of the Total Environment, 2022, 806, 151287.	8.0	19

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55	Integrated process of coal tar upgrading and in-situ reduction of Fe2O3. Fuel Processing Technology, 2019, 191, 20-28.	7.2	18
56	Insight into synergistic effect of co-pyrolysis of low-rank coal and waste polyethylene with or without additives using rapid infrared heating. Journal of the Energy Institute, 2022, 102, 384-394.	5.3	18
57	Integrated process of coal pyrolysis with catalytic reforming of simulated coal gas for improving tar yield. Fuel, 2019, 255, 115797.	6.4	17
58	Insight into co-pyrolysis interactions of Pingshuo coal and high-density polyethylene via in-situ Py-TOF-MS and EPR. Fuel, 2021, 303, 121199.	6.4	17
59	In-situ catalytic cracking of coal pyrolysis tar coupled with steam reforming of ethane over carbon based catalyst. Fuel Processing Technology, 2020, 209, 106551.	7.2	16
60	In-situ catalytic upgrading of coal pyrolysis volatiles over red mud-supported nickel catalysts. Fuel, 2022, 324, 124742.	6.4	16
61	Integrated Process of Coal Pyrolysis with Steam Reforming of Ethane for Improving the Tar Yield. Energy & Fuels, 2018, 32, 12268-12276.	5.1	15
62	Integrated coal pyrolysis with dry reforming of low carbon alkane over Ni/La2O3 to improve tar yield. Fuel, 2020, 266, 117092.	6.4	15
63	Novel detection of primary and secondary volatiles from cedar pyrolysis using in-situ pyrolysis double ionization time-of-flight mass spectrometry. Chemical Engineering Science, 2021, 236, 116545.	3.8	15
64	Co-pyrolysis behaviors of low-rank coal and polystyrene with in-situ pyrolysis time-of-flight mass spectrometry. Fuel, 2021, 286, 119461.	6.4	14
65	Experimental and Theoretical Investigation on Three Î±,Ï‰-Diarylalkane Pyrolysis. Energy & Fuels, 2014, 28, 6905-6910.	5.1	13
66	Oxidative Catalytic Cracking and Reforming of Coal Pyrolysis Volatiles over NiO. Energy & Fuels, 2020, 34, 6928-6937.	5.1	11
67	Synthesis and modification of zeolite NaA adsorbents for separation of hydrogen and methane. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 666-671.	1.5	10
68	Mechanism of methane decomposition with hydrogen addition over activated carbon via in-situ pyrolysis-electron impact ionization time-of-flight mass spectrometry. Fuel, 2020, 263, 116734.	6.4	10
69	Integrated process of coal pyrolysis with dry reforming of low carbon alkane over Ni/La2O3-ZrO2 with different La/Zr ratio. Fuel, 2021, 292, 120412.	6.4	9
70	Effect of red mud-based additives on the formation characteristics of tar and gas produced during coal pyrolysis. Journal of the Energy Institute, 2022, 104, 1-11.	5.3	9
71	Effect of hydrogen addition on formation of hydrogen and carbon from methane decomposition over Ni/Al₂O₃. Canadian Journal of Chemical Engineering, 2020, 98, 536-543.	1.7	8
72	Modeling the influence of changes in aliphatic structure on char surface area during coal pyrolysis. AIChE Journal, 2020, 66, e16834.	3.6	8

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73	ZIF-derived hierarchical pore carbons as high-performance catalyst for methane decomposition. Journal of the Energy Institute, 2022, 100, 197-205.	5.3	8
74	Steam catalytic cracking of coal tar over ironâ€containing mixed metal oxides. Canadian Journal of Chemical Engineering, 2019, 97, 702-708.	1.7	7
75	Effect of kaolinites modified with Zr and transition metals on the pyrolysis behaviors of low-rank coal and its model compound. Journal of the Energy Institute, 2021, 95, 41-51.	5.3	7
76	Enhanced co-pyrolysis synergies between cedar and Naomaohu coal volatiles for tar production. Journal of Analytical and Applied Pyrolysis, 2021, 160, 105355.	5.5	7
77	Integrated process of coal pyrolysis and CO₂reforming of methane with and without using dielectric barrier discharge plasma. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 613-620.	2.3	6
78	Upgrading of Heavy Oil with Chemical Looping Partial Oxidation over M²⁺ Doped Fe₂O₃. Energy & Fuels, 2019, 33, 257-265.	5.1	6
79	<i>In situ</i> study on interactions between hydroxyl groups in kaolinite and re-adsorption water. RSC Advances, 2020, 10, 16949-16958.	3.6	6
80	Inâ€Situ Upgrading of Coal Pyrolysis Tar with Steam Catalytic Cracking over Ni/Al₂O₃ Catalysts. ChemistrySelect, 2020, 5, 4905-4912.	1.5	6
81	Maximizing production of high-quality tar from catalytic upgrading of lignite pyrolysis volatiles over Ni-xCe/Y under CH4/CO2 atmosphere. Fuel, 2021, 297, 120767.	6.4	6
82	Insight to pyrolysis behavior of three aromatic ethers by pyrolysis coupled with single-photon ionization molecular-beam mass spectrometry. Fuel, 2021, 298, 120821.	6.4	6
83	Pyrolysis behaviors and product distributions of coal flotation sample separated by float and sink test. Fuel, 2022, 312, 122923.	6.4	6
84	Catalytic upgrading of ex-situ heavy coal tar over modified activated carbon. Fuel, 2022, 312, 122912.	6.4	5
85	Study on pyrolysis behavior of long-chain n-alkanes with photoionization molecular-beam mass spectrometer. Journal of Analytical and Applied Pyrolysis, 2021, 159, 105324.	5.5	4
86	Process parameter optimization for integrated process of coal pyrolysis with dry reforming of low carbon alkane over Ni/La2O3â€"ZrO2. Journal of the Energy Institute, 2022, 102, 54-59.	5.3	4
87	Preparation of Ceâ€"Mn/Fe₂O₃ Catalysts for Steam Catalytic Cracking of Coal Tar. ChemistrySelect, 2018, 3, 12537-12543.	1.5	2
88	Modeling char surface area during coal pyrolysis: Validation of relationship between pore structure and polymer network. AICHE Journal, 2022, 68, .	3.6	2
89	CO 2 Reforming of Methane over Feâ€Modified Niâ€Based Catalyst for Syngas Production. Energy Technology, 2020, 8, 1900231.	3.8	0
90	In-situ detection of initial products from lignite pyrolysis over modified Y-type zeolites by pyrolysis photoionization time-of-flight mass spectrometry. Chemical Engineering Science: X, 2020, 8, 100081.	1.5	0