

# Haoquan Hu

## List of Publications by Year in descending order

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150  
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81839

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133188

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150  
docs citations

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times ranked

3415  
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#	ARTICLE	IF	CITATIONS
1	An Ordered Mesoporous Aluminosilicate with Completely Crystalline Zeolite Wall Structure. <i>Journal of the American Chemical Society</i> , 2006, 128, 10636-10637.	6.6	206
2	Effect of inorganic matter on reactivity and kinetics of coal pyrolysis. <i>Fuel</i> , 2004, 83, 713-718.	3.4	190
3	Analysis of coal tar derived from pyrolysis at different atmospheres. <i>Fuel</i> , 2013, 104, 14-21.	3.4	156
4	Hierarchical porous carbons prepared from direct coal liquefaction residue and coal for supercapacitor electrodes. <i>Carbon</i> , 2013, 55, 221-232.	5.4	134
5	Hydrogen production by catalytic methane decomposition: Carbon materials as catalysts or catalyst supports. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19755-19775.	3.8	125
6	Nonisothermal Catalytic Liquefaction of Corn Stalk in Subcritical and Supercritical Water. <i>Energy &amp; Fuels</i> , 2004, 18, 90-96.	2.5	109
7	Pyrolysis behavior of vitrinite and inertinite from Chinese Pingshuo coal by TG-MS and in a fixed bed reactor. <i>Fuel Processing Technology</i> , 2011, 92, 780-786.	3.7	106
8	Product distribution and sulfur behavior in coal pyrolysis. <i>Fuel Processing Technology</i> , 2004, 85, 849-861.	3.7	98
9	In-situ catalytic upgrading of coal pyrolysis tar on carbon-based catalyst in a fixed-bed reactor. <i>Fuel Processing Technology</i> , 2016, 147, 41-46.	3.7	85
10	In Situ Assembly of Zeolite Nanocrystals into Mesoporous Aggregate with Single-Crystal-Like Morphology without Secondary Template. <i>Chemistry of Materials</i> , 2008, 20, 1670-1672.	3.2	76
11	In situ FT-IR spectroscopic studies on thermal decomposition of the weak covalent bonds of brown coal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 115, 262-267.	2.6	73
12	Pyrolysis Behaviors of Tumuji Oil Sand by Thermogravimetry (TG) and in a Fixed Bed Reactor. <i>Energy &amp; Fuels</i> , 2007, 21, 2245-2249.	2.5	69
13	Preparation of activated carbon supported Fe-Al <sub>2</sub> O <sub>3</sub> catalyst and its application for hydrogen production by catalytic methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10373-10380.	3.8	68
14	Integrated coal pyrolysis with CO <sub>2</sub> reforming of methane over Ni/MgO catalyst for improving tar yield. <i>Fuel Processing Technology</i> , 2010, 91, 419-423.	3.7	67
15	Role of Iron-Based Catalyst and Hydrogen Transfer in Direct Coal Liquefaction. <i>Energy &amp; Fuels</i> , 2008, 22, 1126-1129.	2.5	65
16	Effect of inherent and additional pyrite on the pyrolysis behavior of oil shale. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 342-347.	2.6	65
17	Preparation of Ni/MgO catalyst for CO <sub>2</sub> reforming of methane by dielectric-barrier discharge plasma. <i>Catalysis Communications</i> , 2010, 11, 968-972.	1.6	64
18	Effect of Atmosphere on Evolution of Sulfur-Containing Gases during Coal Pyrolysis. <i>Energy &amp; Fuels</i> , 2005, 19, 892-897.	2.5	63

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19	A review on high catalytic efficiency of solid acid catalysts for lignin valorization. <i>Bioresource Technology</i> , 2020, 298, 122432.	4.8	63
20	Effect of temperature and simulated coal gas composition on tar production during pyrolysis of a subbituminous coal. <i>Fuel</i> , 2019, 241, 1129-1137.	3.4	60
21	Mesoporous carbon prepared from direct coal liquefaction residue for methane decomposition. <i>Carbon</i> , 2012, 50, 952-959.	5.4	54
22	A theoretical study on bond dissociation enthalpies of coal based model compounds. <i>Fuel</i> , 2015, 153, 70-77.	3.4	54
23	Approach for promoting liquid yield in direct liquefaction of Shenhua coal. <i>Fuel Processing Technology</i> , 2008, 89, 1090-1095.	3.7	53
24	Effect of tetrahydrofuran extraction on lignite pyrolysis under nitrogen. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 112, 113-120.	2.6	53
25	Pyrolysis of Huolinhe lignite extract by in-situ pyrolysis-time of flight mass spectrometry. <i>Fuel Processing Technology</i> , 2015, 135, 52-59.	3.7	52
26	Integrated coal pyrolysis with methane aromatization over Mo/HZSM-5 for improving tar yield. <i>Fuel</i> , 2013, 114, 187-190.	3.4	51
27	Fast co-pyrolysis of a massive Naomaohu coal and cedar mixture using rapid infrared heating. <i>Energy Conversion and Management</i> , 2020, 205, 112442.	4.4	50
28	CO <sub>2</sub> reforming of methane on Ni <sup>3+</sup> -Al <sub>2</sub> O <sub>3</sub> catalyst prepared by dielectric barrier discharge hydrogen plasma. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5756-5763.	3.8	49
29	Direct liquefaction behaviors of Bulianta coal and its macerals. <i>Fuel Processing Technology</i> , 2014, 128, 232-237.	3.7	46
30	Effect of functional groups on volatile evolution in coal pyrolysis process with in-situ pyrolysis photoionization time-of-flight mass spectrometry. <i>Fuel</i> , 2020, 260, 116322.	3.4	46
31	Pyrolysis Behavior of Weakly Reductive Coals from Northwest China. <i>Energy &amp; Fuels</i> , 2009, 23, 870-875.	2.5	44
32	Pyrolysis behaviors of two coal-related model compounds on a fixed-bed reactor. <i>Fuel Processing Technology</i> , 2015, 129, 113-119.	3.7	44
33	Ni doped carbons for hydrogen production by catalytic methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3937-3947.	3.8	43
34	Effect of reducibility of transition metal oxides on in-situ oxidative catalytic cracking of tar. <i>Energy Conversion and Management</i> , 2019, 197, 111871.	4.4	43
35	Preparation of Fe-Doped Carbon Catalyst for Methane Decomposition to Hydrogen. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 11021-11027.	1.8	42
36	Effect of hydrothermal treatment on structure and liquefaction behavior of Baiyinhua coal. <i>Fuel Processing Technology</i> , 2017, 167, 648-654.	3.7	42

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37	Effect of mineral in coal on preparation of activated carbon for methane decomposition to hydrogen. <i>Fuel</i> , 2019, 258, 116138.	3.4	42
38	Insight into the aromatic ring structures of a low-rank coal by step-wise oxidation degradation. <i>Fuel Processing Technology</i> , 2020, 210, 106563.	3.7	42
39	Catalytic hydrogenolysis of lignin $\beta$ -O-4 aryl ether compound and lignin to aromatics over Rh/Nb <sub>2</sub> O <sub>5</sub> under low H <sub>2</sub> pressure. <i>Fuel Processing Technology</i> , 2020, 203, 106392.	3.7	42
40	Synthesis of 2,6-dimethylnaphthalene by methylation of 2-methylnaphthalene on mesoporous ZSM-5 by desilication. <i>Catalysis Communications</i> , 2008, 10, 336-340.	1.6	41
41	Hierarchical porous carbon catalyst for simultaneous preparation of hydrogen and fibrous carbon by catalytic methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 8732-8740.	3.8	41
42	Experimental and Theoretical Study on the Pyrolysis Mechanism of Three Coal-Based Model Compounds. <i>Energy &amp; Fuels</i> , 2014, 28, 980-986.	2.5	41
43	Selective synthesis of 2,6-dimethylnaphthalene by methylation of 2-methylnaphthalene with methanol on Zr(Al)ZSM-5. <i>Catalysis Communications</i> , 2006, 7, 255-259.	1.6	40
44	Catalytic upgrading of lignite pyrolysis volatiles over modified HY zeolites. <i>Fuel</i> , 2020, 259, 116234.	3.4	40
45	Effect of Fe components in red mud on catalytic pyrolysis of low rank coal. <i>Journal of the Energy Institute</i> , 2022, 100, 1-9.	2.7	40
46	Hydrogen peroxide oxidation degradation of a low-rank Naomaohu coal. <i>Fuel Processing Technology</i> , 2020, 207, 106484.	3.7	36
47	Isotope Analysis for Understanding the Tar Formation in the Integrated Process of Coal Pyrolysis with CO <sub>2</sub> Reforming of Methane. <i>Energy &amp; Fuels</i> , 2010, 24, 4402-4407.	2.5	35
48	Distribution of hydroxyl group in coal structure: A theoretical investigation. <i>Fuel</i> , 2017, 189, 195-202.	3.4	35
49	Desulfurization of Coal by Pyrolysis and Hydrolysis with Addition of KOH/NaOH. <i>Energy &amp; Fuels</i> , 2005, 19, 1673-1678.	2.5	34
50	In Situ Analysis of Catalytic Effect of Calcium Nitrate on Shenmu Coal Pyrolysis with Pyrolysis Vacuum Ultraviolet Photoionization Mass Spectrometry. <i>Energy &amp; Fuels</i> , 2018, 32, 1061-1069.	2.5	34
51	Lignin Valorizations with Ni Catalysts for Renewable Chemicals and Fuels Productions. <i>Catalysts</i> , 2019, 9, 488.	1.6	34
52	Kinetics of coal liquefaction during heating-up and isothermal stages. <i>Fuel</i> , 2008, 87, 508-513.	3.4	33
53	Catalytic methane decomposition over activated carbons prepared from direct coal liquefaction residue by KOH activation with addition of SiO <sub>2</sub> or SBA-15. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8978-8984.	3.8	33
54	Preparation and applications of hierarchical porous carbons from direct coal liquefaction residue. <i>Fuel</i> , 2013, 109, 2-8.	3.4	32

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55	Partial oxidation of vacuum residue over Al and Zr-doped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> catalysts. <i>Fuel</i> , 2017, 210, 803-810.	3.4	32
56	In-situ catalytic upgrading of coal pyrolysis tar coupled with CO <sub>2</sub> reforming of methane over Ni-based catalysts. <i>Fuel Processing Technology</i> , 2018, 177, 119-128.	3.7	32
57	Effect of different acid-leached USY zeolites on in-situ catalytic upgrading of lignite tar. <i>Fuel</i> , 2020, 266, 117089.	3.4	32
58	Controllable synthesis of chainlike hierarchical ZSM-5 templated by sucrose and its catalytic performance. <i>Catalysis Communications</i> , 2016, 75, 32-36.	1.6	31
59	Effect of Ca(NO <sub>3</sub> ) <sub>2</sub> addition in coal on properties of activated carbon for methane decomposition to hydrogen. <i>Fuel Processing Technology</i> , 2018, 176, 85-90.	3.7	31
60	Integrated Process of Coal Pyrolysis with Steam Reforming of Methane for Improving the Tar Yield. <i>Energy &amp; Fuels</i> , 2014, 28, 7377-7384.	2.5	30
61	Effect of hydrogen additive on methane decomposition to hydrogen and carbon over activated carbon catalyst. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17611-17619.	3.8	28
62	Integrated process for partial oxidation of heavy oil and in-situ reduction of red mud. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117944.	10.8	28
63	In-situ catalytic upgrading of coal pyrolysis tar over activated carbon supported nickel in CO <sub>2</sub> reforming of methane. <i>Fuel</i> , 2019, 250, 203-210.	3.4	28
64	Upgrading of vacuum residue with chemical looping partial oxidation over Ce doped Fe <sub>2</sub> O <sub>3</sub> . <i>Energy</i> , 2018, 162, 542-553.	4.5	27
65	Pyrolytic behavior of coal-related model compounds connected with C-C bridged linkages by in-situ pyrolysis vacuum ultraviolet photoionization mass spectrometry. <i>Fuel</i> , 2019, 241, 533-541.	3.4	27
66	Pyrolysis Behavior of Macerals from Weakly Reductive Coals. <i>Energy &amp; Fuels</i> , 2010, 24, 6314-6320.	2.5	26
67	Isotope analysis for understanding the hydrogen transfer mechanism in direct liquefaction of Bulianta coal. <i>Fuel</i> , 2017, 203, 82-89.	3.4	26
68	In-situ analysis of catalytic pyrolysis of Baiyinhua coal with pyrolysis time-of-flight mass spectrometry. <i>Fuel</i> , 2018, 227, 386-393.	3.4	26
69	Effect of air pre-oxidization on coal-based activated carbon for methane decomposition to hydrogen. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10661-10669.	3.8	25
70	Preparation of carbon-Ni/MgO-Al <sub>2</sub> O <sub>3</sub> composite catalysts for CO <sub>2</sub> reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5047-5055.	3.8	25
71	Ni/MgO Al <sub>2</sub> O <sub>3</sub> catalyst derived from modified [Ni,Mg,Al]-LDH with NaOH for CO <sub>2</sub> reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2689-2698.	3.8	25
72	Fast pyrolysis behaviors of cedar in an infrared-heated fixed-bed reactor. <i>Bioresource Technology</i> , 2019, 290, 121739.	4.8	25

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73	<i>In Situ</i> Catalytic Upgrading of Coal Pyrolysis Tar over Carbon-Based Catalysts Coupled with CO <sub>2</sub> Reforming of Methane. <i>Energy &amp; Fuels</i> , 2017, 31, 9356-9362.	2.5	24
74	Upgrading of vacuum residue with chemical looping partial oxidation over Fe-Mn mixed metal oxides. <i>Fuel</i> , 2019, 239, 764-773.	3.4	24
75	Catalytic cracking of coal-tar model compounds over ZrO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> and Ni-Ce/Al <sub>2</sub> O <sub>3</sub> catalysts under steam atmosphere. <i>Fuel</i> , 2020, 263, 116763.	3.4	24
76	Preparation of bimetallic catalysts Ni-Co and Ni-Fe supported on activated carbon for methane decomposition. <i>Carbon Resources Conversion</i> , 2020, 3, 190-197.	3.2	24
77	Effect of composition in coal liquefaction residue on catalytic activity of the resultant carbon for methane decomposition. <i>Fuel</i> , 2012, 96, 462-468.	3.4	23
78	Interaction between Hydrogen-Donor and Nondonor Solvents in Direct Liquefaction of Bulianta Coal. <i>Energy &amp; Fuels</i> , 2016, 30, 10260-10267.	2.5	23
79	Novel insight into pyrolysis behaviors of lignin using in-situ pyrolysis-double ionization time-of-flight mass spectrometry combined with electron paramagnetic resonance spectroscopy. <i>Bioresource Technology</i> , 2020, 312, 123555.	4.8	23
80	Co-production of hydrogen and fibrous carbons by methane decomposition using K <sub>2</sub> CO <sub>3</sub> /carbon hybrid as the catalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11047-11052.	3.8	22
81	Online analysis of initial volatile products of Shenhua coal and its macerals with pyrolysis vacuum ultraviolet photoionization mass spectrometry. <i>Fuel Processing Technology</i> , 2017, 163, 67-74.	3.7	22
82	Structural Features and Pyrolysis Behaviors of Extracts from Microwave-Assisted Extraction of a Low-Rank Coal with Different Solvents. <i>Energy &amp; Fuels</i> , 2019, 33, 106-114.	2.5	22
83	Integrated Process of Coal Pyrolysis with CO <sub>2</sub> Reforming of Methane by Dielectric Barrier Discharge Plasma. <i>Energy &amp; Fuels</i> , 2011, 25, 4036-4042.	2.5	21
84	Preparation of mesoporous activated carbons from coal liquefaction residue for methane decomposition. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 759-766.	1.8	21
85	Co-pyrolysis of Baiyinhua lignite and pine in an infrared-heated fixed bed to improve tar yield. <i>Fuel</i> , 2020, 272, 117739.	3.4	21
86	Synthesis of hierarchical ZSM-5 by cetyltrimethylammonium bromide assisted self-assembly of zeolite seeds and its catalytic performances. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014, 113, 575-584.	0.8	20
87	Enhanced production of light tar from integrated process of in-situ catalytic upgrading lignite tar and methane dry reforming over Ni/mesoporous Y. <i>Fuel</i> , 2020, 279, 118533.	3.4	20
88	Highly Dispersed Rh/NbO <sub>x</sub> Invoking High Catalytic Performances for the Valorization of Lignin Monophenols and Lignin Oil into Aromatics. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3529-3541.	3.2	20
89	Insights into effect of Ca(OH) <sub>2</sub> on pyrolysis behaviors and products distribution of Hongshaquan coal. <i>Fuel</i> , 2022, 307, 121791.	3.4	20
90	Effects of the Catalyst and Reaction Conditions on the Integrated Process of Coal Pyrolysis with CO <sub>2</sub> Reforming of Methane. <i>Energy &amp; Fuels</i> , 2009, 23, 4782-4786.	2.5	19

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91	Pyrolysis behavior of low-density polyethylene over HZSM-5 via rapid infrared heating. <i>Science of the Total Environment</i> , 2022, 806, 151287.	3.9	19
92	Catalytic Liquefaction of Coal with Highly Dispersed Fe <sub>2</sub> S <sub>3</sub> Impregnated in-Situ. <i>Energy &amp; Fuels</i> , 2001, 15, 830-834.	2.5	18
93	Integrated process of coal tar upgrading and in-situ reduction of Fe <sub>2</sub> O <sub>3</sub> . <i>Fuel Processing Technology</i> , 2019, 191, 20-28.	3.7	18
94	Insight into synergistic effect of co-pyrolysis of low-rank coal and waste polyethylene with or without additives using rapid infrared heating. <i>Journal of the Energy Institute</i> , 2022, 102, 384-394.	2.7	18
95	Methylation of 2-Methylnaphthalene with Methanol to 2,6-Dimethylnaphthalene over ZSM-5 Modified by Zr and Si. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 3531-3536.	1.8	17
96	Integrated process of coal pyrolysis with catalytic reforming of simulated coal gas for improving tar yield. <i>Fuel</i> , 2019, 255, 115797.	3.4	17
97	Quantitative characterization of coal structure by high-resolution CP/MAS <sup>13</sup> C solid-state NMR spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4161-4170.	2.4	17
98	Insight into co-pyrolysis interactions of Pingshuo coal and high-density polyethylene via in-situ Py-TOF-MS and EPR. <i>Fuel</i> , 2021, 303, 121199.	3.4	17
99	Integrated process of coal pyrolysis with CO <sub>2</sub> reforming of methane by spark discharge plasma. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 126, 194-200.	2.6	16
100	Model for the Evolution of Pore Structure in a Lignite Particle during Pyrolysis. 2. Influence of Cross-Linking Reactions, Molten Metaplast, and Molten Ash on Particle Surface Area. <i>Energy &amp; Fuels</i> , 2017, 31, 8036-8044.	2.5	16
101	Beyond Solution-Based Protocols: MOF Membrane Synthesis in Supercritical Environments for an Elegant Sustainability Performance Balance. , 2020, 2, 1142-1147.		16
102	In-situ catalytic cracking of coal pyrolysis tar coupled with steam reforming of ethane over carbon based catalyst. <i>Fuel Processing Technology</i> , 2020, 209, 106551.	3.7	16
103	In-situ catalytic upgrading of coal pyrolysis volatiles over red mud-supported nickel catalysts. <i>Fuel</i> , 2022, 324, 124742.	3.4	16
104	Xilinguole lignite pyrolysis under methane with or without Ni/Al <sub>2</sub> O <sub>3</sub> as catalyst. <i>Fuel Processing Technology</i> , 2015, 136, 112-117.	3.7	15
105	Co-production of hydrogen-rich gas and porous carbon by partial gasification of coal char. <i>Chemical Papers</i> , 2018, 72, 273-287.	1.0	15
106	Integrated Process of Coal Pyrolysis with Steam Reforming of Ethane for Improving the Tar Yield. <i>Energy &amp; Fuels</i> , 2018, 32, 12268-12276.	2.5	15
107	Integrated coal pyrolysis with steam reforming of propane to improve tar yield. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104805.	2.6	15
108	Integrated coal pyrolysis with dry reforming of low carbon alkane over Ni/La <sub>2</sub> O <sub>3</sub> to improve tar yield. <i>Fuel</i> , 2020, 266, 117092.	3.4	15

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109	Removal of elemental mercury in flue gas by Cu-Fe modified magnetosphere from coal combustion fly ash. <i>Fuel</i> , 2020, 271, 117668.	3.4	15
110	Novel detection of primary and secondary volatiles from cedar pyrolysis using in-situ pyrolysis double ionization time-of-flight mass spectrometry. <i>Chemical Engineering Science</i> , 2021, 236, 116545.	1.9	15
111	Co-pyrolysis behaviors of low-rank coal and polystyrene with in-situ pyrolysis time-of-flight mass spectrometry. <i>Fuel</i> , 2021, 286, 119461.	3.4	14
112	CO <sub>2</sub> reforming of methane over activated carbon-Ni/MgO-Al <sub>2</sub> O <sub>3</sub> composite catalysts for syngas production. <i>Fuel Processing Technology</i> , 2021, 211, 106595.	3.7	14
113	Experimental and Theoretical Investigation on Three 1,1'-Diaryllalkane Pyrolysis. <i>Energy &amp; Fuels</i> , 2014, 28, 6905-6910.	2.5	13
114	Effects of Vitrinite in Low-Rank Coal on the Structure and Combustion Reactivity of Pyrolysis Chars. <i>ACS Omega</i> , 2020, 5, 17314-17323.	1.6	12
115	Pyrolysis behaviors of model compounds with representative oxygen-containing functional groups in coal over calcium. <i>Fuel</i> , 2022, 310, 122247.	3.4	12
116	Oxidative Catalytic Cracking and Reforming of Coal Pyrolysis Volatiles over NiO. <i>Energy &amp; Fuels</i> , 2020, 34, 6928-6937.	2.5	11
117	Synthesis and modification of zeolite NaA adsorbents for separation of hydrogen and methane. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 666-671.	0.8	10
118	Modified CPD Model for Coal Devolatilization at Underground Coal Thermal Treatment Conditions. <i>Energy &amp; Fuels</i> , 2019, 33, 2981-2993.	2.5	10
119	Pyrolysis behaviors of coal-related model compounds catalyzed by pyrite. <i>Fuel</i> , 2020, 262, 116526.	3.4	10
120	Mechanism of methane decomposition with hydrogen addition over activated carbon via in-situ pyrolysis-electron impact ionization time-of-flight mass spectrometry. <i>Fuel</i> , 2020, 263, 116734.	3.4	10
121	Hydrogenation of naphthalene on nickel phosphide supported on silica. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 574-580.	0.8	9
122	Methane decomposition with some CO <sub>2</sub> as co-feed: Co-production of syngas and carbon fibers/microspheres by using a hybrid of K <sub>2</sub> CO <sub>3</sub> and coal char. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6066-6075.	3.8	9
123	Integrated process of coal pyrolysis with dry reforming of low carbon alkane over Ni/La <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> with different La/Zr ratio. <i>Fuel</i> , 2021, 292, 120412.	3.4	9
124	Effect of red mud-based additives on the formation characteristics of tar and gas produced during coal pyrolysis. <i>Journal of the Energy Institute</i> , 2022, 104, 1-11.	2.7	9
125	Adsorption separation performance of H <sub>2</sub> /CH <sub>4</sub> on ETS-4 by concentration pulse chromatography. <i>Journal of Energy Chemistry</i> , 2014, 23, 213-220.	7.1	8
126	Effect of hydrogen addition on formation of hydrogen and carbon from methane decomposition over Ni/Al <sub>2</sub> O <sub>3</sub> . <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 536-543.	0.9	8



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127	Modeling the influence of changes in aliphatic structure on char surface area during coal pyrolysis. <i>AICHE Journal</i> , 2020, 66, e16834.	1.8	8
128	ZIF-derived hierarchical pore carbons as high-performance catalyst for methane decomposition. <i>Journal of the Energy Institute</i> , 2022, 100, 197-205.	2.7	8
129	Steam catalytic cracking of coal tar over iron-containing mixed metal oxides. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 702-708.	0.9	7
130	Enhanced co-pyrolysis synergies between cedar and Naomaohu coal volatiles for tar production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 160, 105355.	2.6	7
131	Integrated process of coal pyrolysis and CO <sub>2</sub> reforming of methane with and without using dielectric barrier discharge plasma. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 613-620.	1.2	6
132	Upgrading of Heavy Oil with Chemical Looping Partial Oxidation over M <sup>2+</sup> Doped Fe <sub>2</sub> O <sub>3</sub> . <i>Energy &amp; Fuels</i> , 2019, 33, 257-265.	2.5	6
133	In-situ Upgrading of Coal Pyrolysis Tar with Steam Catalytic Cracking over Ni/Al <sub>2</sub> O <sub>3</sub> Catalysts. <i>ChemistrySelect</i> , 2020, 5, 4905-4912.	0.7	6
134	Modeling char surface area evolution during coal pyrolysis: Evolving characteristics with coal rank. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105110.	2.6	6
135	Maximizing production of high-quality tar from catalytic upgrading of lignite pyrolysis volatiles over Ni-xCe/Y under CH <sub>4</sub> /CO <sub>2</sub> atmosphere. <i>Fuel</i> , 2021, 297, 120767.	3.4	6
136	Insight to pyrolysis behavior of three aromatic ethers by pyrolysis coupled with single-photon ionization molecular-beam mass spectrometry. <i>Fuel</i> , 2021, 298, 120821.	3.4	6
137	Pyrolysis behaviors and product distributions of coal flotation sample separated by float and sink test. <i>Fuel</i> , 2022, 312, 122923.	3.4	6
138	Modeling char surface area evolution during coal pyrolysis: Effect of swelling and gasification at high pressures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4151-4159.	2.4	5
139	Catalytic upgrading of ex-situ heavy coal tar over modified activated carbon. <i>Fuel</i> , 2022, 312, 122912.	3.4	5
140	Novel insight into the mechanism of coal hydrolysis using deuterium tracer method. <i>Fuel</i> , 2022, 321, 124109.	3.4	5
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