

Guangsu Yu

List of Publications by Year in descending order

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158
papers

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101543

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159
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159
times ranked

2566
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior adsorption capacity of functionalised straw adsorbent for dyes and heavy-metal ions. <i>Journal of Hazardous Materials</i> , 2020, 382, 121040.	12.4	254
2	Study on CO ₂ gasification reactivity and physical characteristics of biomass, petroleum coke and coal chars. <i>Bioresource Technology</i> , 2014, 159, 143-149.	9.6	159
3	A review of the effects of alkali and alkaline earth metal species on biomass gasification. <i>Fuel Processing Technology</i> , 2021, 214, 106723.	7.2	156
4	Effect of torrefaction on pinewood pyrolysis kinetics and thermal behavior using thermogravimetric analysis. <i>Bioresource Technology</i> , 2019, 280, 104-111.	9.6	155
5	The gasification reactivity of unburned carbon present in gasification slag from entrained-flow gasifier. <i>Fuel Processing Technology</i> , 2009, 90, 1062-1070.	7.2	117
6	Co-pyrolysis characteristic of biomass and bituminous coal. <i>Bioresource Technology</i> , 2015, 179, 414-420.	9.6	105
7	Soot formation during biomass gasification: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110710.	16.4	98
8	Catalytic effects of Na ₂ CO ₃ additive on coal pyrolysis and gasification. <i>Fuel</i> , 2015, 142, 134-144.	6.4	96
9	A mechanism investigation of synergy behaviour variations during blended char co-gasification of biomass and different rank coals. <i>Renewable Energy</i> , 2019, 131, 597-605.	8.9	91
10	Investigation into Ca/Na compounds catalyzed coal pyrolysis and char gasification with steam. <i>Energy Conversion and Management</i> , 2019, 184, 172-179.	9.2	86
11	A review on reactivity characteristics and synergy behavior of biomass and coal Co-gasification. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17116-17132.	7.1	82
12	Physicochemical evolution during rice straw and coal co-pyrolysis and its effect on co-gasification reactivity. <i>Bioresource Technology</i> , 2017, 227, 345-352.	9.6	80
13	Synergy mechanism analysis of petroleum coke and municipal solid waste (MSW)-derived hydrochar co-gasification. <i>Applied Energy</i> , 2017, 206, 1354-1363.	10.1	76
14	Effects of Pyrolysis on the Pore Structure of Four Chinese Coals. <i>Energy & Fuels</i> , 2010, 24, 1114-1123.	5.1	69
15	Co-pyrolysis behaviors of saw dust and Shenfu coal in drop tube furnace and fixed bed reactor. <i>Bioresource Technology</i> , 2013, 148, 24-29.	9.6	69
16	Synergistic effect on co-gasification reactivity of biomass-petroleum coke blended char. <i>Bioresource Technology</i> , 2017, 234, 33-39.	9.6	67
17	CO ₂ gasification of char from raw and torrefied biomass: Reactivity, kinetics and mechanism analysis. <i>Bioresource Technology</i> , 2019, 293, 122087.	9.6	67
18	Investigation of OH* chemiluminescence and heat release in laminar methane-oxygen co-flow diffusion flames. <i>Combustion and Flame</i> , 2019, 201, 12-22.	5.2	67

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19	Utilization of biomass ash for upgrading petroleum coke gasification: Effect of soluble and insoluble components. <i>Energy</i> , 2020, 192, 116642.	8.8	65
20	Mechanism analysis and experimental verification of pore diffusion on coke and coal char gasification with CO ₂ . <i>Chemical Engineering Journal</i> , 2014, 244, 227-233.	12.7	64
21	Characterisation of the morphological changes and interactions in char, slag and ash during CO ₂ gasification of rice straw and lignite. <i>Applied Energy</i> , 2017, 195, 713-724.	10.1	62
22	Co-gasification of bituminous coal and hydrochar derived from municipal solid waste: Reactivity and synergy. <i>Bioresource Technology</i> , 2017, 239, 482-489.	9.6	52
23	Understanding the Effect of Different Biomass Ash Additions on Pyrolysis Product Distribution, Char Physicochemical Characteristics, and Char Gasification Reactivity of Bituminous Coal. <i>Energy & Fuels</i> , 2019, 33, 3068-3076.	5.1	52
24	Studying effects of solid structure evolution on gasification reactivity of coal chars by in-situ Raman spectroscopy. <i>Fuel</i> , 2020, 270, 117603.	6.4	52
25	Reactivity, Synergy, and Kinetics Analysis of CO ₂ Co-pyrolysis/Co-gasification of Biomass after Hydrothermal Treatment and Coal Blends. <i>Energy & Fuels</i> , 2020, 34, 294-303.	5.1	50
26	Study on reactivity characteristics and synergy behaviours of rice straw and bituminous coal co-gasification. <i>Bioresource Technology</i> , 2016, 220, 509-515.	9.6	49
27	In Situ Raman Spectroscopy Study on Catalytic Pyrolysis of a Bituminous Coal. <i>Energy & Fuels</i> , 2017, 31, 5817-5827.	5.1	48
28	Brief review on petroleum coke and biomass/coal co-gasification: Syngas production, reactivity characteristics, and synergy behavior. <i>Fuel</i> , 2021, 304, 121517.	6.4	48
29	Catalytic effects of alkali carbonates on coal char gasification. <i>Journal of the Energy Institute</i> , 2017, 90, 588-601.	5.3	44
30	Investigation into the co-pyrolysis behaviors of cow manure and coal blending by TG-MS. <i>Science of the Total Environment</i> , 2020, 728, 138828.	8.0	44
31	Kinetics comparison and insight into structure-performance correlation for leached biochar gasification. <i>Chemical Engineering Journal</i> , 2021, 417, 129331.	12.7	44
32	Numerical study of a reacting single coal char particle with different pore structures moving in a hot O ₂ /CO ₂ atmosphere. <i>Fuel</i> , 2017, 206, 381-389.	6.4	39
33	Refractory failure in entrained-flow gasifier: Vision-based macrostructure investigation in a bench-scale OMB gasifier. <i>Applied Energy</i> , 2017, 205, 1091-1099.	10.1	39
34	Effect of CO ₂ on the characteristics of soot derived from coal rapid pyrolysis. <i>Combustion and Flame</i> , 2018, 197, 328-339.	5.2	39
35	Viscosity fluctuation behaviors of coal ash slags with high content of calcium and low content of silicon. <i>Fuel Processing Technology</i> , 2017, 158, 115-122.	7.2	38
36	Modeling and comparison of different syngas cooling types for entrained-flow gasifier. <i>Chemical Engineering Science</i> , 2011, 66, 448-459.	3.8	37

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37	Numerical simulation of natural gas non-catalytic partial oxidation reformer. International Journal of Hydrogen Energy, 2014, 39, 9149-9157.	7.1	37
38	Influence of Biomass Ash Additive on Reactivity Characteristics and Structure Evolution of Coal Charâ€“CO ₂ Gasification. Energy & Fuels, 2018, 32, 10428-10436.	5.1	37
39	Effect of hydrothermal carbonization temperature on reactivity and synergy of co-gasification of biomass hydrochar and coal. Applied Thermal Engineering, 2021, 183, 116232.	6.0	37
40	Investigation on the high-temperature flow behavior of biomass and coal blended ash. Bioresource Technology, 2014, 166, 494-499.	9.6	36
41	Gas evolution characteristics during pyrolysis and catalytic pyrolysis of coals by TGâ€“MS and in a high-frequency furnace. Fuel, 2015, 154, 222-232.	6.4	36
42	Effect of CaO additive on co-pyrolysis behavior of bituminous coal and cow dung. Fuel, 2020, 265, 116911.	6.4	35
43	In Situ Heating Stage Analysis of Fusion and Catalytic Effects of a Na ₂ CO ₃ Additive on Coal Char Particle Gasification. Industrial & Engineering Chemistry Research, 2014, 53, 19159-19167.	3.7	34
44	Study on rapid pyrolysis and in-situ char gasification characteristics of coal and petroleum coke. International Journal of Hydrogen Energy, 2016, 41, 16823-16834.	7.1	34
45	Co-gasification reactivity and synergy of banana residue hydrochar and anthracite coal blends. Applied Energy, 2019, 250, 92-97.	10.1	34
46	Influence of biomass ash additive on fusion characteristics of high-silicon-aluminum coal ash. Fuel, 2020, 282, 118876.	6.4	34
47	Effect of biomass leachates on structure evolution and reactivity characteristic of petroleum coke gasification. Renewable Energy, 2020, 155, 111-120.	8.9	34
48	Distribution Characteristics of OH*, CH*, and C ₂ * Luminescence in CH ₄ /O ₂ Co-flow Diffusion Flames. Energy & Fuels, 2012, 26, 5503-5508.	5.1	33
49	Characterization of the melting behavior of high-temperature and low-temperature ashes. Fuel Processing Technology, 2015, 134, 441-448.	7.2	32
50	Co-pyrolysis Behavior and Char Structure Evolution of Raw/Torrefied Rice Straw and Coal Blends. Energy & Fuels, 2018, 32, 12469-12476.	5.1	32
51	In-situ atomization and flame characteristics of coal water slurry in an impinging entrained-flow gasifier. Chemical Engineering Science, 2018, 190, 248-259.	3.8	32
52	Study on the effect of inherent AAEM on char structure evolution during coal pyrolysis by in-situ Raman and TG. Fuel, 2021, 292, 120406.	6.4	31
53	In Situ Study on K ₂ CO ₃ -Catalyzed CO ₂ Gasification of Coal Char: Interactions and Char Structure Evolution. Energy & Fuels, 2018, 32, 1320-1327.	5.1	30
54	In Situ Analysis and Mechanism Study of Char-Ash/Slag Transition in Pulverized Coal Gasification. Energy & Fuels, 2015, 29, 3532-3544.	5.1	29

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55	Understanding the influence of iron on fluidity and crystallization characteristics of synthetic coal slags. <i>Fuel Processing Technology</i> , 2020, 209, 106532.	7.2	29
56	Experimental study on the atomization and particle evolution characteristics in an impinging entrained-flow gasifier. <i>Chemical Engineering Science</i> , 2019, 207, 542-555.	3.8	28
57	Experimental studies of the effects of global equivalence ratio and CO ₂ dilution level on the OH* and CH* chemiluminescence in CH ₄ /O ₂ diffusion flames. <i>Fuel</i> , 2020, 278, 118307.	6.4	28
58	Migration and transformation of alkali/alkaline earth metal species during biomass and coal co-gasification: A review. <i>Fuel Processing Technology</i> , 2022, 235, 107376.	7.2	28
59	Gasification Reactivities and Pore Structure Characteristics of Feed Coal and Residues in an Industrial Gasification Plant. <i>Energy & Fuels</i> , 2015, 29, 3525-3531.	5.1	27
60	Experimental and Numerical Study of the Flow Field and Temperature Field for a Large-Scale Radiant Syngas Cooler. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 4452-4461.	3.7	26
61	Hydrothermal carbonization of rape straw: Effect of reaction parameters on hydrochar and migration of AAEMs. <i>Chemosphere</i> , 2022, 291, 132785.	8.2	26
62	Advances on in-situ analysis of char structure evolution during thermochemical conversion of coal/biomass: A review. <i>Fuel Processing Technology</i> , 2022, 230, 107221.	7.2	26
63	Modeling of Multiphase Flow and Heat Transfer in Radiant Syngas Cooler of an Entrained-Flow Coal Gasification. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10094-10103.	3.7	25
64	Impinging Flame Characteristics in an Opposed Multiburner Gasifier. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3007-3018.	3.7	25
65	Evaluation of sintering behavior of ash particles from coal and rice straw using optical heating stage microscope at high temperature fouling conditions. <i>Fuel Processing Technology</i> , 2016, 149, 195-208.	7.2	25
66	Application of biomass leachate in regulating the fusibility of coal ash. <i>Fuel</i> , 2020, 268, 117338.	6.4	25
67	Discrete model for simulation of char particle gasification with structure evolution. <i>Fuel</i> , 2016, 186, 656-664.	6.4	24
68	Investigation of fluctuation behavior in viscosity of coal slags used in entrained-flow gasifiers. <i>Fuel Processing Technology</i> , 2018, 181, 133-141.	7.2	24
69	Effect of Partial Rapid Pyrolysis on Bituminous Properties: From Structure to Reactivity. <i>Energy & Fuels</i> , 2020, 34, 5476-5484.	5.1	23
70	Deactivation mechanism of coal char gasification reactivity induced by cow manure biomass volatile-coal char interactions. <i>Fuel</i> , 2021, 301, 121064.	6.4	22
71	Catalytic effects of inherent AAEM on char gasification: A mechanism study using in-situ Raman. <i>Energy</i> , 2022, 238, 122074.	8.8	21
72	Recovered Carbon from Coal Gasification Fine Slag as Electrocatalyst for Oxygen Reduction Reaction and Zinc-Air Battery. <i>Energy Technology</i> , 2021, 9, 2000890.	3.8	20

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73	Deep insight into the ash fusibility and viscosity fluctuation behavior during co-gasification of coal and indirect coal liquefaction residue. <i>Fuel</i> , 2021, 305, 121620.	6.4	20
74	CO ₂ gasification of Yangchangwan coal catalyzed by iron-based waste catalyst from indirect coal-liquefaction plant. <i>Fuel</i> , 2021, 285, 119228.	6.4	19
75	Synergistic Effects of CaO and MgO on Ash Fusion Characteristics in Entrained-Flow Gasifier. <i>Energy & Fuels</i> , 2021, 35, 425-432.	5.1	19
76	Effective pretreatment of corn straw biomass using hydrothermal carbonization for co-gasification with coal: Response surface Methodologyâ€œBox Behnken design. <i>Fuel</i> , 2022, 324, 124544.	6.4	19
77	An experimental study on the spectroscopic characteristics in coal-water slurry diffusion flames based on hot-oxygen burner technology. <i>Fuel Processing Technology</i> , 2016, 154, 168-177.	7.2	17
78	Rapid co-pyrolysis of lignite and biomass blends: Analysis of synergy and gasification reactivity of residue char. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 143, 104688.	5.5	17
79	Investigation on chemiluminescence and structure characteristics in CH ₄ /O ₂ diffusion flames. <i>Experimental Thermal and Fluid Science</i> , 2019, 102, 595-602.	2.7	17
80	Characteristics of High-Carbon-Content Slag and Utilization for Coal-Water Slurry Preparation. <i>Energy & Fuels</i> , 2020, 34, 14058-14064.	5.1	17
81	Product characteristics of rice straw pyrolysis at different temperature: Role of inherent alkali and alkaline earth metals with different occurrence forms. <i>Journal of the Energy Institute</i> , 2022, 101, 201-208.	5.3	17
82	Numerical Simulation of Molten Slag Deposition in Radiant Syngas Cooler with a CFD-Based Model. <i>Journal of Chemical Engineering of Japan</i> , 2016, 49, 69-78.	0.6	16
83	Research of vertical falling film behavior in scrubbing-cooling tube. <i>Chemical Engineering Research and Design</i> , 2017, 117, 627-636.	5.6	16
84	Dilution effects of N ₂ and CO ₂ on flame structure and reaction characteristics in CH ₄ /O ₂ flames. <i>Experimental Thermal and Fluid Science</i> , 2019, 108, 16-24.	2.7	16
85	Experimental study on CH* chemiluminescence characteristics of impinging flames in an opposed multiâ€œburner gasifier. <i>AIChE Journal</i> , 2017, 63, 2007-2018.	3.6	15
86	A comparative study on pyrolysis reactivity and gas release characteristics of biomass and coal using TG-MS analysis. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 2063-2069.	2.3	15
87	Wave characteristics of the falling liquid film in the development region at high Reynolds numbers. <i>Chemical Engineering Science</i> , 2020, 215, 115454.	3.8	15
88	Investigating the Effect of Flux on Ash Fusibility of High-Calcium Coal. <i>ACS Omega</i> , 2020, 5, 11361-11368.	3.5	15
89	Promoting effect of biomass ash additives on high-temperature gasification of petroleum coke: Reactivity and kinetic analysis. <i>Journal of the Energy Institute</i> , 2020, 93, 1364-1372.	5.3	15
90	Investigation on coal ash fusibility and fluidity during the co-gasification of coal and coal indirect liquefaction residue. <i>Fuel Processing Technology</i> , 2021, 221, 106949.	7.2	15

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91	Decoupling of volatile-char interaction in co-pyrolysis of cow manure and bituminous coal and deactivation mechanism of coal char reactivity. <i>Energy</i> , 2022, 251, 123891.	8.8	15
92	Correlation study between microstructure and fluidity of molten slag during co-gasification of coal and indirect coal liquefaction residue: Molecular dynamics simulation. <i>Fuel</i> , 2022, 326, 125031.	6.4	15
93	Study on the pyrolysis characteristics and kinetic mechanism of cow manure under different leaching solvents pretreatment. <i>Journal of Environmental Management</i> , 2021, 290, 112580.	7.8	14
94	Reactivity prediction and mechanism analysis of raw and demineralized coal char gasification. <i>Energy</i> , 2021, 229, 120724.	8.8	14
95	Investigation of K_2CO_3 -Catalyzed Pyrolysis and Steam Gasification of Coal Char. <i>Energy Technology</i> , 2015, 3, 961-967.	3.8	13
96	Experimental Study on the Characteristics of Impinging Reaction Region with OH^* Chemiluminescence in Opposed Impinging Diffusion Flames. <i>Energy & Fuels</i> , 2013, 27, 7023-7030.	5.1	11
97	Transformation and Reactivity of a Potassium Catalyst during Coal-steam Catalytic Pyrolysis and Gasification. <i>Energy Technology</i> , 2014, 2, 598-603.	3.8	11
98	Coal char particle secondary fragmentation in an entrained-flow coal-water slurry gasifier. <i>Journal of the Energy Institute</i> , 2019, 92, 578-586.	5.3	11
99	Numerical study on heat transfer and thermal stress of the upper cone membrane wall in radiant syngas cooler. <i>Applied Thermal Engineering</i> , 2020, 169, 114845.	6.0	11
100	Investigation of OH^* chemiluminescence with lift-off characteristic in methane-oxygen inverse diffusion flame. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1461-1472.	7.1	11
101	Investigation into the interaction of biomass waste with industrial solid waste during co-pyrolysis and the synergetic effect of its char gasification. <i>Biomass and Bioenergy</i> , 2022, 159, 106414.	5.7	11
102	Structural features of residue carbon formed by gasification of different coal macerals. <i>Fuel</i> , 2022, 320, 123918.	6.4	11
103	Numerical simulation of flow and heat transfer in connection of gasifier to the radiant syngas cooler. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 683-690.	1.5	10
104	Effects of CO and H_2 addition on OH^* chemiluminescence characteristics in laminar rich inverse diffusion flames. <i>Fuel</i> , 2019, 254, 115554.	6.4	10
105	Physico-chemical structure evolution characteristics of coal char during gasification in the presence of iron-based waste catalyst. <i>International Journal of Coal Science and Technology</i> , 2020, 7, 456-463.	6.0	10
106	Corrosion in high alumina refractory serviced in a bench-scale entrained flow gasifier. <i>Ceramics International</i> , 2021, 47, 2214-2221.	4.8	10
107	Integration of Biomass Torrefaction and Gasification based on Biomass Classification: A Review. <i>Energy Technology</i> , 2021, 9, 2001108.	3.8	10
108	Roles of Heavy Metals during Pyrolysis and Gasification of Metal-Contaminated Waste Biomass: A Review. <i>Energy & Fuels</i> , 2022, 36, 2351-2368.	5.1	10

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109	Simulation of Radiant Syngas Coolers and Comparison with Various Arrangements of the Entrained-Flow Gasifier. <i>Chemical Engineering and Technology</i> , 2016, 39, 1457-1467.	1.5	9
110	Optical experimental study on the characteristics of impinging coal-water slurry flame in an opposed multi-burner gasifier. <i>Fuel</i> , 2017, 188, 132-139.	6.4	9
111	Local flow regime and bubble size distribution in the slender particle-containing scrubbing-cooling chamber of an entrained-flow gasifier. <i>Chemical Engineering Science</i> , 2018, 190, 126-139.	3.8	9
112	Numerical Simulation of Heat Transfer and a Forging Plate Structure in a Radiant Syngas Cooler with Radiation Screens. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16483-16491.	3.7	9
113	Study on Char-Ash-Slag-Liquid Transition and Its Effect on Char Reactivity. <i>Energy & Fuels</i> , 2020, 34, 3941-3951.	5.1	9
114	Comparison of physicochemical properties and gasification reactivity of soot from entrained flow gasification processes. <i>Chemical Engineering Journal</i> , 2022, 450, 136660.	12.7	9
115	Numerical Analysis of the Flow Characteristics and Heat and Mass Transfer of Falling-Water Films in an Industrial-Scale Dip Tube of a WSCC in an OMB Gasifier. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9295-9300.	3.7	8
116	Study on Fusibility and Flow Behavior of High-Calcium Coal Ash. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 711-716.	0.6	8
117	Research on atomized droplet size in composite quench chamber. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 2150-2156.	1.7	8
118	Numerical study on the performance of an adapted radiant syngas cooler with water spray for entrained-flow gasifier. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 246-257.	1.5	8
119	Upgrading Effects of Supercritical Carbon Dioxide Extraction on Physicochemical Characteristics of Chinese Low-Rank Coals. <i>Energy & Fuels</i> , 2017, 31, 13305-13316.	5.1	8
120	Alkalis atomic emission spectroscopy and flame temperature measurement of diesel impinging flames in an opposed multi-burner gasifier. <i>Experimental Thermal and Fluid Science</i> , 2018, 98, 445-453.	2.7	8
121	Gas distribution characteristics for heterogeneous flows in the slender particle-containing scrubbing-cooling chamber of an entrained-flow gasifier. <i>Chemical Engineering Research and Design</i> , 2018, 136, 358-370.	5.6	8
122	Torrefaction of sludge under CO ₂ atmosphere to improve the fuel properties for high temperature gasification with coal. <i>Thermochimica Acta</i> , 2022, 713, 179249.	2.7	8
123	Comparison of Structure and Gasification Reactivity of Rapid Pyrolysis Chars of Coal Water Slurries and Parent Coals. <i>Energy Technology</i> , 2014, 2, 284-291.	3.8	7
124	Chemiluminescence Studies of Coke Oven Gas/O ₂ Coflow Normal/Inverse Diffusion Flames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	1.1	7
125	Micro-scale investigation on particle transformations of coal and biomass ashes during different heating conditions. <i>Journal of the Energy Institute</i> , 2018, 91, 1021-1033.	5.3	7
126	Co-Gasification of Cow Manure and Bituminous Coal: A Study on Reactivity, Synergistic Effect, and Char Structure Evolution. <i>ACS Omega</i> , 2020, 5, 16779-16788.	3.5	7

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127	Study on Soot Emission Characteristics of Methane/Oxygen Inverse Diffusion Flame. ACS Omega, 2021, 6, 23191-23202.	3.5	7
128	Investigation of the OH [*] — chemiluminescence characteristics in CH ₄ /O ₂ lifted flames. Journal of the Energy Institute, 2021, 99, 31-38.	5.3	7
129	Investigation into the flow behavior of high-temperature ash and low-temperature ash of high calcium coal. Journal of the Energy Institute, 2020, 93, 1951-1959.	5.3	6
130	Thermal conversion behavior and nitrogen-containing gas products evolution during coal pyrolysis of cow manure and coal: A thermal gravimetric analyzer/differential scanning calorimetry-mass spectrometer investigation. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2663.	1.5	6
131	Numerical Simulations of Solidification Characteristics of Molten Slag Droplets in Radiant Syngas Coolers for Entrained-Flow Coal Gasification. ACS Omega, 2021, 6, 20388-20397.	3.5	6
132	Investigation on Stability and Chemiluminescence Characterization for Lift-off Inverse Diffusion Flames. Combustion Science and Technology, 2022, 194, 2461-2479.	2.3	6
133	Investigation on the OH [*] and CH [*] chemiluminescence characteristics of single coal particle flames under O ₂ /CO ₂ atmosphere. Fuel Processing Technology, 2022, 225, 107059.	7.2	5
134	Numerical simulation of radiant syngas cooler with different connection to entrained-flow gasifier. Applied Thermal Engineering, 2022, 201, 117804.	6.0	5
135	OH [*] Chemiluminescence Characteristics and Structures of the Impinging Reaction Region in Opposed Impinging Diffusion Flames. Energy & Fuels, 0, , .	5.1	4
136	Investigations of Chemiluminescence Characteristics in CH ₄ /O ₂ Jet Diffusion Flames Impinging on the Flat Plate. Combustion Science and Technology, 2017, 189, 2195-2208.	2.3	4
137	Effects of H ₂ and CO on Char-Gasification Reactivity at High Temperatures. Energy & Fuels, 2020, 34, 720-727.	5.1	4
138	Catalytic Effect of Biomass Leachate on High-Rank Coal Gasification and Char Structure Evolution. Energy & Fuels, 2020, 34, 10793-10800.	5.1	4
139	Local Distributions of Bubble Velocity and Interfacial Area in the Slender Particle-Containing Scrubbing-Cooling Chamber of an Entrained-Flow Gasifier. Industrial & Engineering Chemistry Research, 2020, 59, 3560-3574.	3.7	4
140	Analysis of Coal Gasification Reactivity, Kinetics, and Mechanism with Iron-Based Catalyst from Coal Liquefaction. ACS Omega, 2021, 6, 1584-1592.	3.5	4
141	Flow Characteristics of the Vertical Turbulent Falling Film at High Reynolds Numbers. Industrial & Engineering Chemistry Research, 2021, 60, 678-696.	3.7	4
142	Study on high temperature gasification kinetics of coal char by TGA and in situ heating stage microscope. Journal of Thermal Analysis and Calorimetry, 2022, 147, 8997-9008.	3.6	4
143	A study on high-temperature coal gasification reactivity characteristics and kinetics analysis of Hami coal and its liquefaction residue. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2376.	1.5	3
144	High-temperature char gasification of anthracite/petroleum coke: using biomass leachate as cheap-effective additive. Asia-Pacific Journal of Chemical Engineering, 2020, 15, e2454.	1.5	3

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145	Study on pyrolysis characteristic of iron-based waste catalyst containing wax from Fisher-Tropsch synthesis by TG and Py-GCMS. <i>Thermochimica Acta</i> , 2022, 710, 179173.	2.7	3
146	Numerical study on the effects of homogeneous reactions on the composition distributions of syngas in radiant syngas cooler. <i>Applied Thermal Engineering</i> , 2022, 210, 118307.	6.0	3
147	Residence time distribution and modeling of the liquid phase in an impinging stream reactor. <i>Frontiers of Chemical Engineering in China</i> , 2010, 4, 353-359.	0.6	2
148	Study on the fluidity of ash slag of liquefaction solid product and lignite co-gasification. <i>Asia-Pacific Journal of Chemical Engineering</i> , 0, , e2721.	1.5	2
149	Performance evolution of industrial radiant syngas cooler with radiation screens using numerical simulation. <i>Canadian Journal of Chemical Engineering</i> , 2023, 101, 492-503.	1.7	2
150	Synergistic effect between coal and iron-based waste catalyst containing wax from Fisher-Tropsch synthesis during their co-pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 162, 105461.	5.5	2
151	Crystallization and viscosity-temperature characteristics during co-gasification of industrial sludge and coal. <i>Frontiers in Energy</i> , 2022, 16, 1037-1047.	2.3	2
152	Numerical Analysis of Fracture Failure Behavior of Refractory Lining in Coal-Water Slurry Gasifier. <i>ACS Omega</i> , 2022, 7, 18041-18051.	3.5	2
153	Investigation on gas release characteristics of catalytic coal pyrolysis using thermogravimetric analyzer-mass spectrometry. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-13.	2.3	1
154	Analysis of the Single Coal Particle Combustion Process under O_2/CO_2 Atmosphere Based on Spectral Diagnostics Technology: Combination of Spectroscopic Characteristics and Flame Temperature. <i>Energy & Fuels</i> , 2022, 36, 1697-1706.	5.1	1
155	Effect of Structural Optimization of Scrubbing Cooling Rings on Vertical Falling Film Flow Characteristics. <i>ACS Omega</i> , 2022, 7, 21291-21305.	3.5	1
156	Experimental Study on the Atomization and Chemiluminescence Characteristics of Ethanol Flame. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-8.	1.3	0
157	Experimental study on the spectral characteristics of impinging flames in an opposed multi-burner entrained-flow gasifier. <i>Journal of the Energy Institute</i> , 2022, 101, 168-177.	5.3	0
158	Influence of CaO on in-situ tar formation during the co-pyrolysis of coal and cow dung in a Py-GCMS. <i>Biofuels</i> , 0, , 1-6.	2.4	0