

# Jin Bai

## List of Publications by Year in descending order

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142  
papers

5,419  
citations

94269

37  
h-index

106150

65  
g-index

142  
all docs

142  
docs citations

142  
times ranked

3935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced carbon emission estimates from fossil fuel combustion and cement production in China. <i>Nature</i> , 2015, 524, 335-338.	13.7	1,185
2	High-performance phosphide/carbon counter electrode for both iodide and organic redox couples in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012, 22, 11121.	6.7	129
3	Hydrodesulfurization of dibenzothiophene and its hydrogenated intermediates over bulk MoP. <i>Journal of Catalysis</i> , 2012, 287, 161-169.	3.1	124
4	Characterization of low-temperature coal ash behaviors at high temperatures under reducing atmosphere. <i>Fuel</i> , 2008, 87, 583-591.	3.4	114
5	Effect of SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> on fusion behavior of coal ash at high temperature. <i>Fuel</i> , 2017, 193, 275-283.	3.4	109
6	Effects of CaCO <sub>3</sub> on slag flow properties at high temperatures. <i>Fuel</i> , 2013, 109, 76-85.	3.4	93
7	Construction of a 2D/2D g-C <sub>3</sub> N <sub>4</sub> /rGO hybrid heterojunction catalyst with outstanding charge separation ability and nitrogen photofixation performance via a surface protonation process. <i>RSC Advances</i> , 2016, 6, 25695-25702.	1.7	85
8	Thermomechanical analysis of coal ash fusion behavior. <i>Chemical Engineering Science</i> , 2016, 147, 74-82.	1.9	83
9	Effects of organic solvent treatment on the chemical structure and pyrolysis reactivity of brown coal. <i>Fuel</i> , 2014, 128, 39-45.	3.4	80
10	Effect of CaO/Fe <sub>2</sub> O <sub>3</sub> on fusion behaviors of coal ash at high temperatures. <i>Fuel Processing Technology</i> , 2018, 181, 18-24.	3.7	77
11	The key for sodium-rich coal utilization in entrained flow gasifier: The role of sodium on slag viscosity-temperature behavior at high temperatures. <i>Applied Energy</i> , 2017, 206, 1241-1249.	5.1	76
12	Mineral Transformation in Char and Its Effect on Coal Char Gasification Reactivity at High Temperatures, Part 1: Mineral Transformation in Char. <i>Energy &amp; Fuels</i> , 2013, 27, 4545-4554.	2.5	63
13	Viscosity-temperature property of coal ash slag at the condition of entrained flow gasification: A review. <i>Fuel Processing Technology</i> , 2021, 215, 106751.	3.7	63
14	Nitrogen migration mechanism and formation of aromatics during catalytic fast pyrolysis of sewage sludge over metal-loaded HZSM-5. <i>Fuel</i> , 2019, 244, 151-158.	3.4	61
15	Preparation of hierarchical HZSM-5 based sulfated zirconium solid acid catalyst for catalytic upgrading of pyrolysis vapors from lignite pyrolysis. <i>Fuel</i> , 2019, 237, 1079-1085.	3.4	58
16	Effect of Na <sub>2</sub> O on mineral transformation of coal ash under high temperature gasification condition. <i>Journal of Fuel Chemistry and Technology</i> , 2016, 44, 263-272.	0.9	56
17	Study on fusibility of coal ash rich in sodium and sulfur by synthetic ash under different atmospheres. <i>Fuel</i> , 2017, 202, 175-183.	3.4	55
18	Mineral Transformation in Char and Its Effect on Coal Char Gasification Reactivity at High Temperatures, Part 2: Char Gasification. <i>Energy &amp; Fuels</i> , 2014, 28, 1846-1853.	2.5	53

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19	An approach for utilization of direct coal liquefaction residue: Blending with low-rank coal to prepare slurries for gasification. <i>Fuel</i> , 2015, 145, 143-150.	3.4	53
20	Effect of CaO/Na <sub>2</sub> O on slag viscosity behavior under entrained flow gasification conditions. <i>Fuel Processing Technology</i> , 2018, 181, 352-360.	3.7	53
21	The internal and external factor on coal ash slag viscosity at high temperatures, Part 1: Effect of cooling rate on slag viscosity, measured continuously. <i>Fuel</i> , 2015, 158, 968-975.	3.4	51
22	Ash and slag properties for co-gasification of sewage sludge and coal: An experimentally validated modeling approach. <i>Fuel Processing Technology</i> , 2018, 175, 1-9.	3.7	51
23	The correlation between coal char structure and reactivity at rapid heating condition in TGA and heating stage microscope. <i>Fuel</i> , 2020, 260, 116318.	3.4	51
24	Improvement of ash flow properties of low-rank coal for entrained flow gasifier. <i>Fuel</i> , 2014, 120, 122-129.	3.4	50
25	The internal and external factor on coal ash slag viscosity at high temperatures, Part 3: Effect of CaO on the pattern of viscosity-temperature curves of slag. <i>Fuel</i> , 2016, 179, 10-16.	3.4	48
26	Transformations and Roles of Sodium Species with Different Occurrence Modes in Direct Liquefaction of Zhundong Coal from Xinjiang, Northwestern China. <i>Energy &amp; Fuels</i> , 2015, 29, 5633-5639.	2.5	47
27	Effects of atmosphere on the oxidation state of iron and viscosity behavior of coal ash slag. <i>Fuel</i> , 2019, 243, 41-51.	3.4	47
28	Co-liquefaction of lignite and sawdust under syngas. <i>Fuel Processing Technology</i> , 2011, 92, 119-125.	3.7	46
29	Effect of chemical composition on the fusion behaviour of synthetic high-iron coal ash. <i>Fuel</i> , 2019, 253, 1465-1472.	3.4	46
30	The internal and external factor on coal ash slag viscosity at high temperatures, Part 2: Effect of residual carbon on slag viscosity. <i>Fuel</i> , 2015, 158, 976-982.	3.4	45
31	Transformation and roles of inherent mineral matter in direct coal liquefaction: A mini-review. <i>Fuel</i> , 2017, 197, 209-216.	3.4	45
32	Physico-chemical structure and combustion properties of chars derived from co-pyrolysis of lignite with direct coal liquefaction residue. <i>Fuel</i> , 2017, 187, 103-110.	3.4	45
33	Different role of H <sub>2</sub> S and dibenzothiophene in the incorporation of sulfur in the surface of bulk MoP during hydrodesulfurization. <i>Journal of Catalysis</i> , 2013, 300, 197-200.	3.1	43
34	Effect of CaO/Fe <sub>2</sub> O <sub>3</sub> ratio on slag viscosity behavior under entrained flow gasification conditions. <i>Fuel</i> , 2019, 258, 116129.	3.4	43
35	Effects of phenolic hydroxyl and carboxyl groups on the concentration of different forms of water in brown coal and their dewatering energy. <i>Fuel Processing Technology</i> , 2016, 154, 7-18.	3.7	42
36	Study on the preheating stage of low rank coals liquefaction: Product distribution, chemical structural change of coal and hydrogen transfer. <i>Fuel Processing Technology</i> , 2017, 159, 153-159.	3.7	41

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37	Direct liquefaction of a Chinese brown coal and CO <sub>2</sub> gasification of the residues. <i>Fuel</i> , 2014, 136, 280-286.	3.4	40
38	Effect of K <sub>2</sub> O/Na <sub>2</sub> O on fusion behavior of coal ash with high silicon and aluminum level. <i>Fuel</i> , 2020, 265, 116964.	3.4	40
39	Behavior of Minerals in Typical Shanxi Coking Coal during Pyrolysis. <i>Energy &amp; Fuels</i> , 2015, 29, 6912-6919.	2.5	39
40	The precipitation of metallic iron from coal ash slag in the entrained flow coal gasifier: By thermodynamic calculation. <i>Fuel Processing Technology</i> , 2017, 162, 98-104.	3.7	37
41	Influences of minerals transformation on the reactivity of high temperature char gasification. <i>Fuel Processing Technology</i> , 2010, 91, 404-409.	3.7	36
42	Effects of Mineral Matter and Coal Blending on Gasification. <i>Energy &amp; Fuels</i> , 2011, 25, 1127-1131.	2.5	36
43	Effect of solvent and atmosphere on product distribution, hydrogen consumption and coal structural change during preheating stage in direct coal liquefaction. <i>Fuel</i> , 2018, 211, 783-788.	3.4	36
44	Iron transformation behavior in coal ash slag in the entrained flow gasifier and the application for Yanzhou coal. <i>Fuel</i> , 2019, 237, 851-859.	3.4	36
45	A review of the state-of-the-art research on carbon structure evolution during the coking process: From plastic layer chemistry to 3D carbon structure establishment. <i>Fuel</i> , 2020, 271, 117657.	3.4	36
46	Char reactivity and kinetics based on the dynamic char structure during gasification by CO <sub>2</sub> . <i>Fuel Processing Technology</i> , 2021, 211, 106583.	3.7	36
47	An overview of the coal ash transition process from solid to slag. <i>Fuel</i> , 2021, 287, 119537.	3.4	36
48	Effect of V and Ni on Ash Fusion Temperatures. <i>Energy &amp; Fuels</i> , 2013, 27, 7303-7313.	2.5	35
49	Transformations of pyrite in different associations during pyrolysis of coal. <i>Fuel Processing Technology</i> , 2015, 131, 304-310.	3.7	35
50	Comparative study of low-temperature pyrolysis and solvent treatment on upgrading and hydro-liquefaction of brown coal. <i>Fuel</i> , 2017, 199, 598-605.	3.4	35
51	Coal ash fusion properties from molecular dynamics simulation: the role of calcium oxide. <i>Fuel</i> , 2018, 216, 760-767.	3.4	35
52	Improved prediction of critical-viscosity temperature by fusion behavior of coal ash. <i>Fuel</i> , 2019, 253, 1521-1530.	3.4	30
53	Correlation between the Combustion Behavior of Brown Coal Char and Its Aromaticity and Pore Structure. <i>Energy &amp; Fuels</i> , 2016, 30, 3419-3427.	2.5	29
54	A new method of estimating the liquidus temperature of coal ash slag using ash composition. <i>Chemical Engineering Science</i> , 2018, 175, 278-285.	1.9	29

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55	Effect of water vapor on coal ash slag viscosity under gasification condition. <i>Fuel</i> , 2019, 237, 18-27.	3.4	29
56	Correlation between Char Gasification Characteristics at Different Stages and Microstructure of Char by Combining X-ray Diffraction and Raman Spectroscopy. <i>Energy &amp; Fuels</i> , 2020, 34, 4162-4172.	2.5	29
57	Interactions during co-pyrolysis of direct coal liquefaction residue with lignite and the kinetic analysis. <i>Fuel</i> , 2018, 215, 438-445.	3.4	28
58	Viscosity temperature properties from molecular dynamics simulation: The role of calcium oxide, sodium oxide and ferrous oxide. <i>Fuel</i> , 2019, 237, 163-169.	3.4	28
59	Effect of coal particle size on distribution and thermal behavior of pyrite during pyrolysis. <i>Fuel</i> , 2015, 148, 145-151.	3.4	27
60	Viscosity of coal ash slag containing vanadium and nickel. <i>Fuel Processing Technology</i> , 2015, 136, 25-33.	3.7	27
61	The role of residual char on ash flow behavior, Part 1: The effect of graphitization degree of residual char on ash fusibility. <i>Fuel</i> , 2018, 234, 1173-1180.	3.4	26
62	Comprehensive evaluation of inherent mineral composition and carbon structure parameters on CO <sub>2</sub> reactivity of metallurgical coke. <i>Fuel</i> , 2019, 235, 647-657.	3.4	26
63	Chemical structure and reactivity alterations of brown coals during thermal treatment with aromatic solvents. <i>Fuel Processing Technology</i> , 2015, 137, 117-123.	3.7	25
64	The role of residual char on ash flow behavior, Part 2: Effect of SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> on ash fusibility and carbothermal reaction. <i>Fuel</i> , 2019, 255, 115846.	3.4	25
65	Effect of CaO/Fe <sub>2</sub> O <sub>3</sub> ratio on fusibility of coal ashes with high silica and alumina levels and prediction. <i>Fuel</i> , 2020, 260, 116369.	3.4	25
66	Hydrodesulfurization of Dibenzothiophene and its Hydrogenated Intermediates Over Bulk Ni <sub>2</sub> P. <i>Topics in Catalysis</i> , 2011, 54, 290-298.	1.3	24
67	Mineral Transformation in Char and Its Effect on Coal Char Gasification Reactivity at High Temperatures Part 3: Carbon Thermal Reaction. <i>Energy &amp; Fuels</i> , 2014, 28, 3066-3073.	2.5	24
68	Decomposition kinetics of hydrogen bonds in coal by a new method of in-situ diffuse reflectance FT-IR. <i>Journal of Fuel Chemistry and Technology</i> , 2011, 39, 321-327.	0.9	23
69	The mineral evolution during coal washing and its effect on ash fusion characteristics of Shanxi high ash coals. <i>Fuel</i> , 2018, 212, 268-273.	3.4	23
70	Effects of ionic catalysis on hydrogen production by the steam gasification of cellulose. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4459-4465.	3.8	22
71	Properties of direct coal liquefaction residue water slurry: Effect of treatment by low temperature pyrolysis. <i>Fuel</i> , 2016, 179, 135-140.	3.4	22
72	Role of hydrogen donor and non-donor binary solvents in product distribution and hydrogen consumption during direct coal liquefaction. <i>Fuel Processing Technology</i> , 2018, 173, 75-80.	3.7	22

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73	In-situ analysis of the effect of CaO/Fe <sub>2</sub> O <sub>3</sub> addition on ash melting and sintering behavior for slagging-type applications. <i>Fuel</i> , 2021, 285, 119090.	3.4	22
74	Effect of lime addition on slag fluidity of coal ash. <i>Journal of Fuel Chemistry and Technology</i> , 2011, 39, 407-411.	0.9	21
75	Insight into the Effects of Sodium Species with Different Occurrence Modes on the Structural Features of Residues Derived from Direct Liquefaction of Zhundong Coal by Multiple Techniques. <i>Energy &amp; Fuels</i> , 2015, 29, 7142-7149.	2.5	21
76	Effect of Ca <sup>2+</sup> species with different modes of occurrence on direct liquefaction of a calcium-rich lignite. <i>Fuel Processing Technology</i> , 2015, 133, 161-166.	3.7	21
77	Transformation of minerals in direct coal liquefaction residue under gasification atmosphere at high temperatures. <i>Journal of Fuel Chemistry and Technology</i> , 2015, 43, 257-265.	0.9	21
78	Effect of Vanadium on the Petroleum Coke Ash Fusibility. <i>Energy &amp; Fuels</i> , 2017, 31, 2530-2537.	2.5	21
79	The factors on metallic iron crystallization from slag of direct coal liquefaction residue SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> -CaO-MgO-TiO <sub>2</sub> -Na <sub>2</sub> O-K <sub>2</sub> O system in the entrained flow gasification condition. <i>Fuel</i> , 2019, 246, 417-424.	3.4	21
80	Flow properties of ash and slag under co-gasification of coal and extract residue of direct coal liquefaction residue. <i>Fuel</i> , 2020, 264, 116850.	3.4	21
81	Chemical structure transformation during the later stage of plastic layers during coking using Synchrotron infrared microspectroscopy technique. <i>Fuel</i> , 2020, 273, 117764.	3.4	21
82	Viscosity and crystallisation behaviour of coal ash slag from the primary phase of anorthite. <i>Fuel Processing Technology</i> , 2021, 213, 106680.	3.7	21
83	Mechanism of carbon structure transformation in plastic layer and semi-coke during coking of Australian metallurgical coals. <i>Fuel</i> , 2022, 315, 123205.	3.4	21
84	Insight into the charging methods effects during clean recycling of plastic by co-pyrolysis with low-rank coal. <i>Journal of Cleaner Production</i> , 2022, 333, 130168.	4.6	20
85	Inappropriateness of the Standard Method in Sulfur Form Analysis of Char from Coal Pyrolysis. <i>Energy &amp; Fuels</i> , 2012, 26, 5837-5842.	2.5	19
86	Effects of mineral matters and hydrogen bonding on rheological behaviors of brown coal "oil slurries. <i>Fuel</i> , 2014, 132, 187-193.	3.4	19
87	Structure and flow properties of coal ash slag using ring statistics and molecular dynamics simulation: Role of CaO/Na <sub>2</sub> O in SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -CaO-Na <sub>2</sub> O. <i>Chemical Engineering Science</i> , 2021, 231, 116285.	1.9	19
88	Ash Fusion Properties from Molecular Dynamics Simulation: Role of the Ratio of Silicon and Aluminum. <i>Energy &amp; Fuels</i> , 2016, 30, 2407-2413.	2.5	18
89	Effect of water vapor on viscosity behavior of coal slags with high silicon-aluminum level under gasification condition. <i>Fuel</i> , 2020, 260, 116351.	3.4	18
90	Direct liquefaction of sawdust under syngas with and without catalyst. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 187-192.	1.8	17

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91	Synergistic effects during co-pyrolysis and liquefaction of biomass and lignite under syngas. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 2133-2140.	2.0	17
92	Predicting the vanadium speciation during petroleum coke gasification by thermodynamic equilibrium calculation. <i>Fuel</i> , 2016, 176, 48-55.	3.4	17
93	Effects of temperature and solvents on structure variation of Yunnan lignite in preheating stage of direct liquefaction. <i>Fuel</i> , 2019, 239, 917-925.	3.4	17
94	Crystallization kinetics and TCV prediction of coal ash slag under slag tapping conditions in an entrained flow gasifier. <i>Fuel</i> , 2020, 272, 117723.	3.4	17
95	Experimental and theoretical investigation on relationship between structures of coal ash and its fusibility for Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -CaO-FeO system. <i>Journal of Fuel Chemistry and Technology</i> , 2019, 47, 641-648.	0.9	16
96	Study on the pyrolysis characteristic of mild liquefaction solid product of Hami coal and CO <sub>2</sub> gasification of its char. <i>Fuel</i> , 2019, 253, 1034-1041.	3.4	16
97	Mechanism of Ca Additive Acting as a Deterrent to Na <sub>2</sub> CO <sub>3</sub> Deactivation during Catalytic Coal Gasification. <i>Energy &amp; Fuels</i> , 2019, 33, 938-945.	2.5	16
98	Thermal behavior of Mongolian low-rank coals during pyrolysis. <i>Carbon Resources Conversion</i> , 2021, 4, 19-27.	3.2	16
99	Behaviors of hydrogen bonds formed by lignite and aromatic solvents in direct coal liquefaction: Combination analysis of density functional theory and experimental methods. <i>Fuel</i> , 2020, 265, 117011.	3.4	15
100	Influence of different biomass ash additive on anthracite pyrolysis process and char gasification reactivity. <i>International Journal of Coal Science and Technology</i> , 2020, 7, 464-475.	2.7	15
101	Characterization of slag from anthracite gasification in moving bed slagging gasifier. <i>Fuel</i> , 2021, 292, 120390.	3.4	15
102	The crystallization behavior of anorthite in coal ash slag under gasification condition. <i>Chemical Engineering Journal</i> , 2022, 445, 136683.	6.6	15
103	Effects of chromium ion on sulfur removal during pyrolysis and hydrolysis of coal. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 97, 143-148.	2.6	14
104	Effects of Aromatic Solvents and Temperature on Rearrangement of Hydrogen Bonds in Brown Coals. <i>Energy &amp; Fuels</i> , 2013, 27, 6419-6429.	2.5	14
105	Viscosity of Spinel Primary Phase Field Slags from Australian Brown Coals. <i>Energy &amp; Fuels</i> , 2020, 34, 3041-3056.	2.5	14
106	Comparison study of fusibility between coal ash and synthetic ash. <i>Fuel Processing Technology</i> , 2021, 211, 106593.	3.7	14
107	Effects of ion-exchanged calcium, barium and magnesium on cross-linking reactions during direct liquefaction of oxidized lignite. <i>Fuel Processing Technology</i> , 2012, 94, 34-39.	3.7	13
108	The viscosity and crystallization behavior of slag from co-gasification of coal and extraction residue from direct coal liquefaction residue at high temperatures. <i>Fuel</i> , 2021, 285, 119119.	3.4	13

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109	The fusion mechanism of complex minerals mixture and prediction model for flow temperature of coal ash for gasification. <i>Fuel</i> , 2021, 305, 121448.	3.4	13
110	Effect of phosphorus-based additives on ash fusion characteristics of high-sodium coal under gasification condition. <i>Fuel</i> , 2022, 317, 123472.	3.4	13
111	Influences of exchangeable metallic species on solvent extraction of Xiaolongtan lignite and characterization of the separated portions. <i>Fuel Processing Technology</i> , 2015, 138, 42-47.	3.7	12
112	The role of residual char on ash flow behavior, Part 3: Effect of Fe <sub>2</sub> O <sub>3</sub> content on ash fusibility and carbothermal reaction. <i>Fuel</i> , 2020, 280, 118705.	3.4	12
113	Modification of ash flow properties of coal rich in calcium and iron by coal gangue addition. <i>Chinese Journal of Chemical Engineering</i> , 2021, 35, 239-246.	1.7	12
114	Investigation of coal-biomass interaction during co-pyrolysis by char separation and its effect on coal char structure and gasification reactivity with CO <sub>2</sub> . <i>Journal of Fuel Chemistry and Technology</i> , 2020, 48, 897-907.	0.9	12
115	Co-pyrolysis of mild liquefaction solid product and low rank coals: Products distributions, products properties and interactions. <i>Fuel</i> , 2021, 306, 121719.	3.4	12
116	Occurrence and transformation of sodium and calcium species in mild liquefaction solid product of Hami coal during pyrolysis. <i>Fuel</i> , 2021, 286, 119489.	3.4	11
117	Strength analysis of noncovalent interactions between lignite and direct liquefaction solvents: A joint study of DFT calculations and swelling ratio determination. <i>Fuel</i> , 2021, 299, 120920.	3.4	11
118	Effect of vanadium and nickel on iron-rich ash fusion characteristics. <i>Fuel</i> , 2019, 246, 491-499.	3.4	10
119	Thermochemical and analytical approach to describe secondary slag phase formation and local process conditions in a full-scale BGL gasifier. <i>Fuel Processing Technology</i> , 2021, 217, 106833.	3.7	10
120	Effects of mineral matter and temperatures on conversion of carboxylic acids and their derivatives during pyrolysis of brown coals. <i>Fuel Processing Technology</i> , 2016, 152, 46-55.	3.7	9
121	Dissolution of Cr <sub>2</sub> O <sub>3</sub> into Coal Slag and Its Impact on Slag Flow Properties. <i>Energy &amp; Fuels</i> , 2020, 34, 11987-11997.	2.5	9
122	The application of molecular simulation in ash chemistry of coal. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2723-2732.	1.7	9
123	Study on carboxyl groups in direct liquefaction of lignite: Conjoint analysis of theoretical calculations and experimental methods. <i>Fuel</i> , 2021, 286, 119298.	3.4	9
124	The investigation and regulation of fusion characteristics of coal ash with high sulfur and basic oxides level for the slagging gasifier. <i>Fuel</i> , 2022, 311, 122574.	3.4	9
125	Insights into the effect of particle size on coal char particle gasification by thermogravimetric analyzer and high temperature stage microscope. <i>Fuel</i> , 2022, 313, 123010.	3.4	9
126	Interaction between Coal and Biomass during Co-Gasification: A Perspective Based on the Separation of Blended Char. <i>Processes</i> , 2022, 10, 286.	1.3	9



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127	Towards understanding the interactions between mild liquefaction solid product and Hami sub-bituminous coal during their co-pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104742.	2.6	8
128	Influence of water vapor on continuous cooling crystallization characteristics of coal ash slag. <i>Fuel</i> , 2021, 303, 121241.	3.4	8
129	Meta-study on the effect of P2O5 on single phase slag viscosity and the effect of P2O5 induced liquid phase immiscibility on dispersion viscosity. <i>Fuel</i> , 2021, 305, 121501.	3.4	8
130	Measurement and simulation of viscosity characteristics of coal ash slag under water vapor condition in coal gasification. <i>Fuel</i> , 2022, 308, 121882.	3.4	8
131	Effect of iron valence distribution on ash fusion behavior under Ar atmosphere by a metallic iron addition in the synthetic coal ash. <i>Fuel</i> , 2022, 310, 122340.	3.4	8
132	Methods for the determination of composition, mineral phases, and process-relevant behavior of ashes and its modeling: A case study for an alkali-rich ash. <i>Journal of the Energy Institute</i> , 2022, 100, 137-147.	2.7	7
133	The sintering behavior of Fe-based oxygen carrier with straw ash and sawdust ash by thermodynamic and thermomechanical analysis. <i>Fuel Processing Technology</i> , 2022, 235, 107346.	3.7	7
134	Influence of the Slag-Crucible Interaction on Coal Ash Fusion Behavior at High Temperatures. <i>Energy &amp; Fuels</i> , 2020, 34, 3087-3099.	2.5	6
135	Comparison of setups for measuring the viscosity of coal ash slags for entrained-flow gasification. <i>Fuel</i> , 2022, 307, 121777.	3.4	6
136	Influence of coal blending on mineral transformation at high temperatures. <i>Mining Science and Technology</i> , 2009, 19, 300-305.	0.3	5
137	Formation of fine particles (PM10) from Zhundong high-sodium coal at entrained flow gasification condition in a flat-flame burner reactor. <i>Fuel Processing Technology</i> , 2022, 231, 107225.	3.7	5
138	Thermal transformation of tobelite from coal at high temperatures and the kinetics and mechanism of dehydroxylation and deamination process. <i>Fuel Processing Technology</i> , 2016, 144, 203-211.	3.7	4
139	Regulation of high temperature flow properties of ash containing V and Ni. <i>Journal of Fuel Chemistry and Technology</i> , 2017, 45, 1164-1171.	0.9	4
140	Gasification and activation behaviors of coal gangue with Na2CO3 in CO2 atmosphere. <i>Fuel Processing Technology</i> , 2022, 228, 107163.	3.7	4
141	Correction to Effect of Vanadium on the Petroleum Coke Ash Fusibility. <i>Energy &amp; Fuels</i> , 2017, 31, 5710-5710.	2.5	1
142	Carbothermal reactions of tobelite with coal char at high temperatures under N2 atmosphere. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 137, 220-226.	2.6	1