Houzhang Tan

List of Publications by Year
in descending order

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139 papers	4,304 citations	126907 33 h-index	133252 59 g-index
139 all docs	139 docs citations	139 times ranked	2700 citing authors

#	Article	IF	Citations
1	Modeling Coal Swelling during Pyrolysis at Elevated Pressure by Using a Single Bubble Model: Validation and Application. Combustion Science and Technology, 2023, 195, 1138-1150.	2.3	1
2	Investigation of Slagging Characteristics on Middle and low temperature heat transfers by Burning High Sodium and Iron coal. Combustion Science and Technology, 2022, 194, 1768-1787.	2.3	16
3	Morphology of char particles from coal pyrolysis in a pressurized entrained flow reactor: Effects of pressure and atmosphere. Energy, 2022, 238, 121846.	8.8	20
4	C1â^¼C2 hydrocarbons generation and mutual conversion behavior in coal pyrolysis process. Fuel, 2022, 308, 121929.	6.4	9
5	Effect of different additives on ash fusion characteristic and mineral phase transformation of iron-rich Zhundong coal. Fuel, 2022, 307, 121841.	6.4	23
6	A comparative study on the effects of NaOH and CaCl2 additives on dewatering properties and product characteristics of oily scum via hydrothermal treatment. Fuel, 2022, 310, 122398.	6.4	1
7	Assessment of the effect of alkali chemistry on post-flame aerosol formation during oxy-combustion of biomass. Fuel, 2022, 311, 122521.	6.4	7
8	Investigation on ash fusion temperature and slagging characteristic of Zhundong coal blends, Part 1: The effect of two solid wastes from calcium carbide production. Fuel Processing Technology, 2022, 228, 107138.	7.2	11
9	Nitrogen evolution, NOX formation and reduction in pressurized oxy coal combustion. Renewable and Sustainable Energy Reviews, 2022, 157, 112020.	16.4	31
10	Fe occurrence form and slagging mechanism on water-wall during high iron Zhundong coal combustion process. Fuel, 2022, 315, 123268.	6.4	10
11	Numerical Simulation on the Effect of Burner Bias Angles on the Performance of a Two-Stage Entrained-Flow Gasifier. ACS Omega, 2022, 7, 6640-6654.	3.5	3
12	Fragmentation and mineral transformation behavior during combustion of char produced at elevated pressure. Energy Conversion and Management, 2022, 258, 115538.	9.2	11
13	Submicron particle formation from co-firing of coal and municipal sewage sludge. Journal of Environmental Management, 2022, 311, 114863.	7.8	7
14	Effect of calcined kaolin on PM0.4 formation from combustion of Zhundong lignite. Fuel, 2022, 319, 123622.	6.4	8
15	Distribution characteristics of soil AM fungi community in soft sandstone area. Journal of Environmental Management, 2022, 316, 115193.	7.8	4
16	Optimization of Dechlorination Experiment Design Using Lightweight Deep Learning Model. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.7	0
17	The migration and transformation characteristics of particulate matter and trace elements in a cement plant. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 5978-5990.	2.3	0
18	Effect of purified dust from CaC2 production and bottom ashes/slags on slagging characteristic of Zhundong coal blend. Fuel, 2022, 326, 125028.	6.4	1

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19	Effects of a combination of biomass addition and atmosphere on combustion characteristics and kinetics of oily sludge. Biomass Conversion and Biorefinery, 2021, 11, 393-407.	4.6	13
20	The characteristics of particulate matter and optical properties of Brown carbon in air lean condition related to residential coal combustion. Powder Technology, 2021, 379, 505-514.	4.2	5
21	Proposal and techno-economic analysis of a novel system for waste heat recovery and water saving in coal-fired power plants: A case study. Journal of Cleaner Production, 2021, 281, 124372.	9.3	23
22	Investigation of Zn- and Pb-rich deposits on water-wall tubes in three coal-fired boilers. Fuel Processing Technology, 2021, 211, 106607.	7.2	2
23	Effect of coal rank, oxygen level and particle size on oxidation reactivity of typical Chinese coals. Thermochimica Acta, 2021, 696, 178838.	2.7	6
24	Emission characteristics of condensable particulate matter and sulfur trioxide from coal-fired power plants. Journal of the Energy Institute, 2021, 94, 146-156.	5.3	40
25	Experimental investigation on a novel agglomeration device based on charged ultrasonic spray and vortex generators for improving the removal of fine particles. Fuel, 2021, 287, 119549.	6.4	13
26	Assessment of sulfur trioxide formation due to enhanced interaction of nitrogen oxides and sulfur oxides in pressurized oxy-combustion. Fuel, 2021, 290, 119964.	6.4	23
27	Condensational growth activated by cooling method for multi-objective treatment of desulfurized flue gas: A full-scale study. Chemical Engineering Journal, 2021, 410, 128296.	12.7	13
28	Decrease of high-carbon-ash landfilling by its Co-firing inside a cement calciner. Journal of Cleaner Production, 2021, 293, 126090.	9.3	10
29	Effect of ZnS/PbS deposits on high temperature corrosion of waterwall tubes in reducing atmosphere. Fuel Processing Technology, 2021, 216, 106793.	7.2	5
30	Numerical and experimental study on co-firing of low volatile coal in a 330ÂMW tangentially fired boiler. Journal of the Energy Institute, 2021, 96, 242-250.	5.3	13
31	Kinetic model study on biomass pyrolysis and CFD application by using pseudo-Bio-CPD model. Fuel, 2021, 293, 120266.	6.4	22
32	A kinetic evaluation and optimization study on NOx reduction by reburning under pressurized oxy-combustion. Journal of Environmental Management, 2021, 290, 112690.	7.8	17
33	Numerical investigation on deposition rate of mechanically mixed ash particles in an entrained flow reactor. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2685.	1.5	2
34	Characteristics of fine particle formation during combustion of Xinjiang high-chlorine-sodium coal. Fuel, 2021, 297, 120772.	6.4	10
35	Effect of Ca3(PO4)2 additive on the slagging behavior during the cofiring of highâ€‘sodium coal and iron-rich coal. Fuel Processing Technology, 2021, 222, 106965.	7.2	14
36	Effect of particle system on slag formation and shedding characteristics of high alkali metal coal in full-scale circulating fluidized bed boiler based on Nano-CT. Fuel Processing Technology, 2021, 223, 106995.	7.2	6

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37	Thermogravimetric Analysis and Kinetic Calculation on the Combustion Characteristics of Two Typical Shenhua Chars. Advances in Transdisciplinary Engineering, 2021, , .	0.1	0
38	Investigation on high temperature corrosion of water-cooled wall tubes at a 300ÂMW boiler. Journal of the Energy Institute, 2020, 93, 377-386.	5.3	40
39	Shock tube evaluation on C2H4 ignition delay differences among N2, Ar, He, CO2 diluent gases. Journal of the Energy Institute, 2020, 93, 1271-1277.	5.3	14
40	Experimental and numerical investigation on the structure characteristics of vortex generators affecting particle agglomeration. Powder Technology, 2020, 362, 805-816.	4.2	13
41	A typical super-heater tube leakage and high temperature corrosion mechanism investigation in a 260â€¯t/h circulated fluidized boiler. Engineering Failure Analysis, 2020, 109, 104255.	4.0	8
42	Combustibility analysis of high-carbon fine slags from an entrained flow gasifier. Journal of Environmental Management, 2020, 271, 111009.	7.8	75
43	Catalytic function of ferric oxide and effect of water on the formation of sulfur trioxide. Journal of Environmental Management, 2020, 264, 110499.	7.8	6
44	Evolution of particulate matter in the post-combustion zone of Zhundong lignite. Fuel, 2020, 281, 118780.	6.4	10
45	Formation of Sulfide Deposits and High-Temperature Corrosion Behavior at Fireside in a Coal-Fired Boiler. Energy & Fuels, 2020, 34, 13849-13861.	5.1	8
46	A Coupling Study of Potassium Sulfation Chemistry and Aerosol Dynamics for a KCl/SO₂/O₂/H₂O System. Energy & Fuels, 2020, 34, 12951-12959.	5.1	4
47	Combustibility and Cofiring of Coal Gasification Fine Ash with High Carbon Content in a Full-scale Pulverized Coal Furnace. Energy & Fuels, 2020, 34, 12972-12983.	5.1	7
48	Simulation and optimization of the particle agglomeration in an aerodynamic agglomerator using a CFDâ€“PBM coupled model. International Journal of Modern Physics C, 2020, 31, 2050121.	1.7	1
49	Investigation on PM formation from combustion of lignite with high contents of AAEMs (alkali and) Tj ETQq1 1 0.784314 rgBT /Overlock 93, 2464-2473.	5.3	15
50	Emission characteristics of particulate matters from a 30ÂMW biomass-fired power plant in China. Renewable Energy, 2020, 155, 225-236.	8.9	25
51	Oxidation reactivity and kinetic analysis of bituminous coal char from high-temperature pyrolysis: Effect of heating rate and pyrolysis temperature. Thermochimica Acta, 2020, 690, 178660.	2.7	15
52	Characteristics of ash and slag from four biomass-fired power plants: Ash/slag ratio, unburned carbon, leaching of major and trace elements. Energy Conversion and Management, 2020, 214, 112897.	9.2	35
53	Effect of thermal expansion additives on alleviating the ash deposition of high-sodium coal. Journal of Environmental Management, 2020, 269, 110799.	7.8	9
54	Effects of coal types and combustion conditions on carbonaceous aerosols in flue gas and their light absorption properties. Fuel, 2020, 277, 118148.	6.4	14

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55	Study on reduction characteristics of Fe species in coal ash under SNCR condition. Fuel, 2020, 277, 118231.	6.4	18
56	Hot corrosion behaviors of TP347H and HR3C stainless steel with KCl deposit in oxy-biomass combustion. Journal of Environmental Management, 2020, 263, 110411.	7.8	26
57	Influences of Organic Solvents on the Properties of 1-Butyl-3-methylimidazolium Acetate. Journal of Chemical & Engineering Data, 2020, 65, 1911-1918.	1.9	2
58	Mechanism study of nitric oxide reduction by light gases from typical Chinese coals. Journal of the Energy Institute, 2020, 93, 1697-1704.	5.3	6
59	Evaluation of aluminum ash in alleviating the ash deposition of high-sodium and high-iron coal. Fuel, 2020, 273, 117701.	6.4	30
60	Effects of Wet Flue Gas Desulfurization and Wet Electrostatic Precipitator on Particulate Matter and Sulfur Oxide Emission in Coal-Fired Power Plants. Energy & Fuels, 2020, 34, 16423-16432.	5.1	12
61	Nano-Scale Soot Particle Formation During the High-Temperature Pyrolysis of Waste Plastics in an Entrained Flow Reactor. Waste and Biomass Valorization, 2019, 10, 3857-3866.	3.4	6
62	Effect of feedstock water leaching on ignition and PM1.0 emission during biomass combustion in a flat-flame burner reactor. Proceedings of the Combustion Institute, 2019, 37, 2705-2713.	3.9	15
63	Study on reduction mechanism of Fe2O3 by NH3 under SNCR condition. Fuel, 2019, 255, 115814.	6.4	16
64	Synergistic effects of biomass and polyurethane co-pyrolysis on the yield, reactivity, and heating value of biochar at high temperatures. Fuel Processing Technology, 2019, 194, 106127.	7.2	69
65	Application ofH2andCO2addition in driver section on shock tube ignition delay measurement. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2362.	1.5	1
66	Emission Characteristics of Particulate Matter from Two Ultralow-Emission Coal-Fired Industrial Boilers in Xiâ€™an, China. Energy & Fuels, 2019, 33, 1944-1954.	5.1	24
67	Field measurements on particle size distributions and emission characteristics of PM10 in a cement plant of China. Atmospheric Pollution Research, 2019, 10, 1464-1472.	3.8	6
68	Effect of pyrolysis upgrading temperature on particulate matter emissions from lignite semi-char combustion. Energy Conversion and Management, 2019, 195, 384-391.	9.2	22
69	Synergistic effect of biomass and polyurethane waste co-pyrolysis on soot formation at high temperatures. Journal of Environmental Management, 2019, 239, 306-315.	7.8	32
70	Effects of APCDs on PM emission: A case study of a 660â€MW coal-fired unit with ultralow pollutants emission. Applied Thermal Engineering, 2019, 155, 418-427.	6.0	28
71	Experimental and kinetics study on SO3 catalytic formation by Fe2O3 in oxy-combustion. Journal of Environmental Management, 2019, 236, 420-427.	7.8	17
72	Characteristic of Particulate Matter from Combustion of Zhundong Lignite: A Comparison between Air and Oxy-fuel Atmospheres. Energy & Fuels, 2019, 33, 12260-12269.	5.1	12

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73	Evolution of PM2.5 from biomass high-temperature pyrolysis in an entrained flow reactor. Journal of the Energy Institute, 2019, 92, 1548-1556.	5.3	11
74	Condensation of KCl(g) under varied temperature gradient. Fuel, 2019, 237, 1141-1150.	6.4	10
75	Impact of complex reacting atmosphere on ash fusion characteristics and minerals conversion in coal combustion process. Combustion Science and Technology, 2018, 190, 1178-1193.	2.3	14
76	Particulate matter emission and K/S/Cl transformation during biomass combustion in an entrained flow reactor. Journal of the Energy Institute, 2018, 91, 835-844.	5.3	47
77	Experiment Study on Ash Fusion Characteristics of Cofiring Straw and Sawdust. Energy & Fuels, 2018, 32, 525-531.	5.1	18
78	A kinetic study on the catalysis of KCl, K2SO4, and K2CO3 during oxy-biomass combustion. Journal of Environmental Management, 2018, 218, 50-58.	7.8	39
79	Soot formation during polyurethane (PU) plastic pyrolysis: The effects of temperature and volatile residence time. Energy Conversion and Management, 2018, 164, 353-362.	9.2	35
80	Investigation on ash deposition characteristics during Zhundong coal combustion. Journal of the Energy Institute, 2018, 91, 33-42.	5.3	56
81	Characteristics of fine particulate matter formation during combustion of lignite riched in AAEM (alkali and alkaline earth metals) and sulfur. Fuel, 2018, 211, 206-213.	6.4	55
82	Development of wet phase transition agglomerator for multi-pollutant synergistic removal. Applied Thermal Engineering, 2018, 130, 1208-1214.	6.0	20
83	Aggravated fine particulate matter emissions from heating-upgraded biomass and biochar combustion: The effect of pretreatment temperature. Fuel Processing Technology, 2018, 171, 1-9.	7.2	42
84	Characteristics and Mechanism of Soot Formation during the Fast Pyrolysis of Biomass in an Entrained Flow Reactor. Energy & Fuels, 2018, 32, 11477-11488.	5.1	28
85	Effect of SO₂ Addition on PM Formation from Biomass Combustion in an Entrained Flow Reactor. Energy & Fuels, 2018, 32, 11030-11037.	5.1	11
86	Effect of Interaction between Sodium and Oxides of Silicon and Aluminum on the Formation of Fine Particulates during Synthetic Char Combustion. Energy & Fuels, 2018, 32, 6756-6762.	5.1	10
87	Low NO combustion and SCR flow field optimization in a low volatile coal fired boiler. Journal of Environmental Management, 2018, 220, 30-35.	7.8	40
88	Migration Behavior of Trace Elements at a Coal-Fired Power Plant with Different Boiler Loads. Energy & Fuels, 2017, 31, 747-754.	5.1	41
89	Effect of potassium-doping and oxygen concentration on soot oxidation in O 2 /CO 2 atmosphere: A kinetics study by thermogravimetric analysis. Energy Conversion and Management, 2017, 149, 686-697.	9.2	68
90	Investigation on the fast co-pyrolysis of sewage sludge with biomass and the combustion reactivity of residual char. Bioresource Technology, 2017, 239, 302-310.	9.6	64

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91	Improving the removal of particles and trace elements from coal-fired power plants by combining a wet phase transition agglomerator with wet electrostatic precipitator. Journal of Cleaner Production, 2017, 161, 1459-1465.	9.3	68
92	Pilot-scale study on water and latent heat recovery from flue gas using fluorine plastic heat exchangers. Journal of Cleaner Production, 2017, 161, 1416-1422.	9.3	67
93	Investigation of characteristics and formation mechanisms of deposits on different positions in full-scale boiler burning high alkali coal. Applied Thermal Engineering, 2017, 119, 449-458.	6.0	72
94	Study of ash fouling on the blade of induced fan in a 330 MW coal-fired power plant with ultra-low pollutant emission. Applied Thermal Engineering, 2017, 118, 283-291.	6.0	44
95	Sulfate Removal by Kaolin Addition To Address Fouling in a Full-Scale Furnace Burning High-Alkaline Zhundong Coal. Energy & Fuels, 2017, 31, 12823-12830.	5.1	18
96	The condensation and thermodynamic characteristics of alkali compound vapors on wall during wheat straw combustion. Fuel, 2017, 187, 33-42.	6.4	26
97	Study on extracting available salt from straw/woody biomass ashes and predicting its slagging/fouling tendency. Journal of Cleaner Production, 2017, 155, 164-171.	9.3	54
98	Thermogravimetric study on the flueâ€cured tobacco leaf pyrolysis and combustion using a distributed activation energy model. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 75-84.	1.5	14
99	Effect of siliconâ€“aluminum additives on ash fusion and ash mineral conversion of Xinjiang high-sodium coal. Fuel, 2016, 181, 1224-1229.	6.4	117
100	Synergetic effect of sewage sludge and biomass co-pyrolysis: A combined study in thermogravimetric analyzer and a fixed bed reactor. Energy Conversion and Management, 2016, 118, 399-405.	9.2	138
101	Thermogravimetric study on the Co-combustion characteristics of oily sludge with plant biomass. Thermochimica Acta, 2016, 633, 69-76.	2.7	100
102	A Mechanism Study on the Decomposition of Sulfate in Zhundong Coal with High Sulfur Content in Coal Ash. , 2016, , 101-106.		1
103	Migration and Emission Characteristics of Trace Elements in a 660 MW Coal-Fired Power Plant of China. Energy & Fuels, 2016, 30, 5937-5944.	5.1	55
104	Numerical evaluation of different pulverized coal and solid recovered fuel co-firing modes inside a large-scale cement calciner. Applied Energy, 2016, 184, 1292-1305.	10.1	34
105	Existence and release of sodium in Zhundong coal: effects of treating temperature and silica additives. International Journal of Oil, Gas and Coal Technology, 2016, 11, 63.	0.2	9
106	Ash-related issues during biomass combustion: Alkali-induced slagging, silicate melt-induced slagging (ash fusion), agglomeration, corrosion, ash utilization, and related countermeasures. Progress in Energy and Combustion Science, 2016, 52, 1-61.	31.2	750
107	The ash deposition mechanism in boilers burning Zhundong coal with high contents of sodium and calcium: A study from ash evaporating to condensing. Applied Thermal Engineering, 2015, 80, 150-159.	6.0	248
108	Combustion characteristics of a four-wall tangential firing pulverized coal furnace. Applied Thermal Engineering, 2015, 90, 471-477.	6.0	16

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109	Experimental and modeling study of the long cylindrical oily sludge drying process. Applied Thermal Engineering, 2015, 91, 354-362.	6.0	23
110	Extraction and quantitation of various potassium salts in straw ash. Environmental Progress and Sustainable Energy, 2015, 34, 333-338.	2.3	12
111	Kinetics investigation on the combustion of biochar in <scp>O</scp>₂/<scp>CO</scp>₂ atmosphere. Environmental Progress and Sustainable Energy, 2015, 34, 923-932.	2.3	29
112	Experimental study on the coexistent dual slagging in biomass-fired furnaces: Alkali- and silicate melt-induced slagging. Proceedings of the Combustion Institute, 2015, 35, 2405-2413.	3.9	44
113	ICOPE-15-C096 Cellular automata simulation for high temperature oxidation and sulfuration of water wall materials. The Proceedings of the International Conference on Power Engineering (ICOPE), 2015, 2015.12, _ICOPE-15--_ICOPE-15-.	0.0	0
114	Pilot Study on In-depth Water Saving and Heat Recovery from Tail Flue Gas in Lignite-fired Power Plant. Energy Procedia, 2014, 61, 2558-2561.	1.8	16
115	Effect of biomass/coal co-firing and air staging on NOx emission and combustion efficiency in a drop tube furnace. Energy Procedia, 2014, 61, 2331-2334.	1.8	21
116	Segmented Kinetic Investigation on Condensed KCl Sulfation in SO2/O2/H2O at 523â€“1023 K. Energy & Fuels, 2014, 28, 7560-7568.	5.1	9
117	A calculation method of biomass slagging rate based on crystallization theory. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 456-463.	1.5	7
118	Investigations on biomass slagging in utility boiler: Criterion numbers and slagging growth mechanisms. Fuel Processing Technology, 2014, 128, 499-508.	7.2	94
119	Optimization Study on Air Distribution of an Actual Agriculture Up-draft Biomass Gasification Stove. Energy Procedia, 2014, 61, 2335-2338.	1.8	4
120	Determining the optimum coal concentration in a general tangential-fired furnace with rich-lean burners: From a bench-scale to a pilot-scale study. Applied Thermal Engineering, 2014, 73, 371-379.	6.0	19
121	Experimental study of a zero water consumption wet FGD system. Applied Thermal Engineering, 2014, 63, 272-277.	6.0	20
122	Investigation on the Synergetic Effect of Biomass Co-Firing in the Atmosphere of O₂/CO₂. Journal of Biobased Materials and Bioenergy, 2014, 8, 481-488.	0.3	4
123	Further study on biomass ash characteristics at elevated ashing temperatures: The evolution of K, Cl, S and the ash fusion characteristics. Bioresource Technology, 2013, 129, 642-645.	9.6	76
124	A New Agro/Forestry Residues Co-Firing Model in a Large Pulverized Coal Furnace: Technical and Economic Assessments. Energies, 2013, 6, 4377-4393.	3.1	17
125	Kinetics investigation on the combustion of waste capsicum stalks in Western China using thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2012, 109, 403-412.	3.6	30
126	Study of the Layered Structure of Deposit in a Biomass-Fired Boiler (Case Study). Energy & Fuels, 2011, 25, 2593-2600.	5.1	11

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127	Experimental investigation on biomass co-firing in a 300 MW pulverized coal-fired utility furnace in China. Proceedings of the Combustion Institute, 2011, 33, 2725-2733.	3.9	71
128	Fusion characteristics of capsicum stalk ash. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 679-684.	1.5	12
129	Study of optimal pulverized coal concentration in a four-wall tangentially fired furnace. Applied Energy, 2011, 88, 1164-1168.	10.1	30
130	Decision Making on Most Economical Coal for Coal-Fired Power Plants Under Fluctuating Coal Prices. International Journal of Coal Preparation and Utilization, 2011, 31, 273-288.	2.1	3
131	Performance characteristics of NO removal by cobalt diethylenetriamine solution. Korean Journal of Chemical Engineering, 2010, 27, 848-853.	2.7	2
132	Kinetic investigation of the SO2 influence on NO reduction processes during methane reburning. Asia-Pacific Journal of Chemical Engineering, 2010, 5, 902-908.	1.5	2
133	Study on Deposits on the Surface, Upstream, and Downstream of Bag Filters in a 12 MW Biomass-Fired Boiler. Energy & Fuels, 2010, 24, 2127-2132.	5.1	36
134	Nitrogen, Sulfur, and Chlorine Transformations during the Pyrolysis of Straw. Energy & Fuels, 2010, 24, 5215-5221.	5.1	48
135	Removal of Dilute Nitric Oxide using Cobalt Diethylenetriamine Solution under Aerobic Condition. Separation Science and Technology, 2009, 44, 1590-1603.	2.5	5
136	Characteristics of HCN Removal Using CaO at High Temperatures. Energy & Fuels, 2009, 23, 1545-1550.	5.1	50
137	NOx and SOx emissions of a high sulfur self-retention coal during air-staged combustion. Fuel, 2008, 87, 723-731.	6.4	95
138	Optimization of coal reburning in a 1MW tangentially fired furnace. Fuel, 2007, 86, 1169-1175.	6.4	33
139	E303 Experimental Investigation of the Transformation of Pyridinic-nitrogen in Coal during Combustion by Means of Model Compounds. The Proceedings of the International Conference on Power Engineering (ICOPE), 2003, 2003.3, _3-313_-_3-315_.	0.0	0