Jenny Jones

List of Publications by Year
in descending order

135 papers	11,214 citations	25014 57 h-index	30058 103 g-index
136 all docs	136 docs citations	136 times ranked	9201 citing authors

#	Article	IF	Citations
1	The Impact of Fuelwood Moisture Content on the Emission of Gaseous and Particulate Pollutants from a Wood Stove. Combustion Science and Technology, 2023, 195, 133-152.	1.2	8
2	Modeling and Evaluation of Ash-Forming Element Fate and Occurrence in Woody Biomass Combustion in an Entrained-Flow Burner. ACS Omega, 2022, 7, 16306-16322.	1.6	2
3	The effect of biomass ashes and potassium salts on MEA degradation for BECCS. International Journal of Greenhouse Gas Control, 2021, 108, 103305.	2.3	1
4	Examination of Combustion-Generated Smoke Particles from Biomass at Source: Relation to Atmospheric Light Absorption. Combustion Science and Technology, 2020, 192, 130-143.	1.2	3
5	An Assessment of Contaminants in UK Road-Verge Biomass and the Implications for Use as Anaerobic Digestion Feedstock. Waste and Biomass Valorization, 2020, 11, 1971-1981.	1.8	4
6	Emissions from the combustion of torrefied and raw biomass fuels in a domestic heating stove. Fuel Processing Technology, 2020, 199, 106266.	3.7	29
7	Shape and size transformations of biomass particles during combustion. Fuel, 2020, 261, 116334.	3.4	25
8	The use of agricultural residues, wood briquettes and logs for small-scale domestic heating. Fuel Processing Technology, 2020, 210, 106552.	3.7	34
9	The potential use of torrefied Nigerian biomass for combustion applications. Journal of the Energy Institute, 2020, 93, 1726-1736.	2.7	7
10	Fuel flexible power stations: Utilisation of ash co-products as additives for NOx emissions control. Fuel, 2019, 251, 800-807.	3.4	10
11	High temperature volatile yield and nitrogen partitioning during pyrolysis of coal and biomass fuels. Fuel, 2019, 248, 215-220.	3.4	31
12	A study on the reactivity of various chars from Turkish fuels obtained at high heating rates. Fuel Processing Technology, 2019, 185, 91-99.	3.7	15
13	The use of equilibrium thermodynamic models for the prediction of inorganic phase changes in the co-firing of wheat straw with El Cerrejon coal. Journal of the Energy Institute, 2019, 92, 813-823.	2.7	17
14	PAH emissions from an African cookstove. Journal of the Energy Institute, 2019, 92, 587-593.	2.7	13
15	A compilation of data on the radiant emissivity of some materials at high temperatures. Journal of the Energy Institute, 2019, 92, 523-534.	2.7	50
16	Some characteristics of the self-heating of the large scale storage of biomass. Fuel Processing Technology, 2018, 174, 1-8.	3.7	30
17	Is Black Carbon an Unimportant Iceâ€Nucleating Particle in Mixedâ€Phase Clouds?. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4273-4283.	1.2	34
18	The effects of an additive on the release of potassium in biomass combustion. Fuel, 2018, 214, 647-655.	3.4	76

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19	Entrained Metal Aerosol Emissions from Air-Fired Biomass and Coal Combustion for Carbon Capture Applications. Materials, 2018, 11, 1819.	1.3	7
20	Investigating the impact of an Al-Si additive on the resistivity of biomass ashes. Fuel Processing Technology, 2018, 178, 13-23.	3.7	10
21	Mixing State of Carbonaceous Aerosols of Primary Emissions from â€œImprovedâ€• African Cookstoves. Environmental Science & Technology, 2018, 52, 10134-10143.	4.6	18
22	Catalytic hydrothermal processing of lipids using metal doped zeolites. Biomass and Bioenergy, 2017, 98, 26-36.	2.9	22
23	Organic carbon emissions from the co-firing of coal and wood in a fixed bed combustor. Fuel, 2017, 195, 226-231.	3.4	25
24	Ignition and combustion of single particles of coal and biomass. Fuel, 2017, 202, 650-655.	3.4	90
25	Combustion of Turkish lignites and olive residue: Experiments and kinetic modelling. Fuel, 2017, 203, 868-876.	3.4	37
26	Heating with Biomass in the United Kingdom: Lessons from New Zealand. Atmospheric Environment, 2017, 152, 431-454.	1.9	9
27	Ignition and Combustion of Single Particles of Coal and Biomass under O2/CO2 Atmospheres. Energy Procedia, 2017, 114, 6067-6073.	1.8	16
28	Gas phase potassium release from a single particle of biomass during high temperature combustion. Proceedings of the Combustion Institute, 2017, 36, 2207-2215.	2.4	43
29	The Impact of Fuel Properties on the Composition of Soot Produced by the Combustion of Residential Solid Fuels in a Domestic Stove. Fuel Processing Technology, 2016, 151, 117-125.	3.7	46
30	A comparative assessment of biomass ash preparation methods using X-ray fluorescence and wet chemical analysis. Fuel, 2016, 182, 161-165.	3.4	46
31	Observations on the release of gas-phase potassium during the combustion of single particles of biomass. Fuel, 2016, 182, 110-117.	3.4	100
32	Experimental and theoretical methods for evaluating ash properties of pine and El Cerrejon coal used in co-firing. Fuel, 2016, 183, 39-54.	3.4	32
33	Ignition Risks of Biomass Dust on Hot Surfaces. Energy & Fuels, 2016, 30, 4398-4404.	2.5	6
34	A study of the combustion chemistry of petroleum and bio-fuel oil asphaltenes. Fuel, 2016, 182, 517-524.	3.4	14
35	The impact of fuel properties on the emissions from the combustion of biomass and other solid fuels in a fixed bed domestic stove. Fuel Processing Technology, 2016, 142, 115-123.	3.7	126
36	An assessment of the torrefaction of North American pine and life cycle greenhouse gas emissions. Energy Conversion and Management, 2016, 113, 177-188.	4.4	73

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37	A review of the mitigation of deposition and emission problems during biomass combustion through washing pre-treatment. Journal of the Energy Institute, 2016, 89, 159-171.	2.7	84
38	Stability and Activity of Doped Transition Metal Zeolites in the Hydrothermal Processing. Frontiers in Energy Research, 2015, 3, .	1.2	16
39	Hydrogen from ethanol reforming with aqueous fraction of pine pyrolysis oil with and without chemical looping. Bioresource Technology, 2015, 176, 257-266.	4.8	25
40	Prediction of biomass ash fusion behaviour by the use of detailed characterisation methods coupled with thermodynamic analysis. Fuel, 2015, 141, 275-284.	3.4	74
41	Single particle flame-combustion studies on solid biomass fuels. Fuel, 2015, 151, 21-30.	3.4	71
42	A study of smoke formation from wood combustion. Fuel Processing Technology, 2015, 137, 327-332.	3.7	17
43	The combustion characteristics of high-heating-rate chars fromÂuntreated and torrefied biomass fuels. Biomass and Bioenergy, 2015, 82, 63-72.	2.9	67
44	Low temperature ignition of biomass. Fuel Processing Technology, 2015, 134, 372-377.	3.7	85
45	Biomass devolatilization at high temperature under N2 and CO2: Char morphology and reactivity. Energy, 2015, 91, 655-662.	4.5	109
46	Some Aspects of Modeling NOx Formation Arising from the Combustion of 100% Wood in a Pulverized Fuel Furnace. Combustion Science and Technology, 2014, 186, 672-683.	1.2	11
47	A calculation method of biomass slagging rate based on crystallization theory. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 456-463.	0.8	7
48	Mathematical Modelling. SpringerBriefs in Applied Sciences and Technology, 2014, , 71-97.	0.2	0
49	Single particle ignition and combustion of anthracite, semi-anthracite and bituminous coals in air and simulated oxy-fuel conditions. Combustion and Flame, 2014, 161, 1096-1108.	2.8	174
50	Combustion of single biomass particles in air and in oxy-fuel conditions. Biomass and Bioenergy, 2014, 64, 162-174.	2.9	138
51	Miscanthus combustion properties and variations with Miscanthus agronomy. Fuel, 2014, 117, 851-869.	3.4	69
52	Pollutants Generated by the Combustion of Solid Biomass Fuels. SpringerBriefs in Applied Sciences and Technology, 2014, , .	0.2	16
53	Characterization of Selected Nigerian Biomass for Combustion and Pyrolysis Applications. Energy & Fuels, 2014, 28, 3821-3832.	2.5	23
54	Combustion of Solid Biomass: Classification of Fuels. SpringerBriefs in Applied Sciences and Technology, 2014, , 9-24.	0.2	3

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55	Introduction to Biomass Combustion. SpringerBriefs in Applied Sciences and Technology, 2014, , 1-7.	0.2	1
56	CFD modeling of oxy-coal combustion: Prediction of burnout, volatile and NO precursors release. Applied Energy, 2013, 104, 653-665.	5.1	59
57	Physicochemical characterisation of torrefied biomass. Journal of Analytical and Applied Pyrolysis, 2013, 103, 21-30.	2.6	177
58	The combustion of droplets of high-asphaltene heavy oils. Fuel, 2013, 103, 835-842.	3.4	22
59	Soot Formation from the Combustion of Biomass Pyrolysis Products and a Hydrocarbon Fuel, <i>n</i>-Decane: An Aerosol Time Of Flight Mass Spectrometer (ATOFMS) Study. Energy & Fuels, 2013, 27, 1668-1678.	2.5	32
60	Nitrogen in Biomass Char and Its Fate during Combustion: A Model Compound Approach. Energy & Fuels, 2012, 26, 6482-6491.	2.5	40
61	Commodity Fuels from Biomass through Pretreatment and Torrefaction: Effects of Mineral Content on Torrefied Fuel Characteristics and Quality. Energy & Fuels, 2012, 26, 6466-6474.	2.5	135
62	Microalgae biorefinery concept based on hydrothermal microwave pyrolysis. Green Chemistry, 2012, 14, 3251.	4.6	29
63	Combustion and gasification characteristics of chars from raw and torrefied biomass. Bioresource Technology, 2012, 119, 157-165.	4.8	147
64	Small-scale co-utilisation of coal and biomass. Fuel, 2012, 101, 84-89.	3.4	34
65	Influence of alkali metals on the kinetics of the thermal decomposition of biomass. Fuel Processing Technology, 2012, 104, 189-197.	3.7	138
66	Study of Miscanthus x giganteus ash composition â€“ Variation with agronomy and assessment method. Fuel, 2012, 95, 50-62.	3.4	49
67	Numerical investigation of NO emissions from an entrained flow reactor under oxy-coal conditions. Fuel Processing Technology, 2012, 93, 53-64.	3.7	17
68	Fuel characteristics of wheat-based Dried Distillers Grains and Solubles (DDGS) for thermal conversion in power plants. Fuel Processing Technology, 2012, 94, 123-130.	3.7	18
69	Combustion properties of torrefied willow compared with bituminous coals. Fuel Processing Technology, 2012, 101, 1-9.	3.7	72
70	Pollutants from the combustion of solid biomass fuels. Progress in Energy and Combustion Science, 2012, 38, 113-137.	15.8	470
71	Urea as a hydrogen carrier: a perspective on its potential for safe, sustainable and long-term energy supply. Energy and Environmental Science, 2011, 4, 1216.	15.6	240
72	Formation and emission of polycyclic aromatic hydrocarbon soot precursors during coal combustion. Journal of the Energy Institute, 2011, , .	2.7	0

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73	Computational fluid dynamic modelling of combustion of milled torrefied wood. Journal of the Energy Institute, 2011, 84, 102-104.	2.7	2
74	Seasonal variation in the chemical composition of the bioenergy feedstock Laminaria digitata for thermochemical conversion. Bioresource Technology, 2011, 102, 226-234.	4.8	204
75	Pyrolysis behaviour of the main carbohydrates of brown macro-algae. Fuel, 2011, 90, 598-607.	3.4	179
76	The combustion of droplets of liquid fuels and biomass particles. Fuel, 2011, 90, 1113-1119.	3.4	19
77	Influence of cation on the pyrolysis and oxidation of alginates. Journal of Analytical and Applied Pyrolysis, 2011, 91, 344-351.	2.6	58
78	Hydrothermal processing of microalgae using alkali and organic acids. Fuel, 2010, 89, 2234-2243.	3.4	525
79	Combustion properties of some power station biomass fuels. Fuel, 2010, 89, 2881-2890.	3.4	99
80	An investigation of the grindability of two torrefied energy crops. Fuel, 2010, 89, 3911-3918.	3.4	254
81	Catalysis in biomass pyrolysis and combustion. Focus on Catalysts, 2010, 2010, 1-2.	0.7	1
82	In Situ Study of Soot from the Combustion of a Biomass Pyrolysis Intermediateâ€"Eugenolâ€"and n-Decane Using Aerosol Time of Flight Mass Spectrometry. Energy & Fuels, 2010, 24, 439-445.	2.5	16
83	Kinetics of the Thermal Decomposition of Biomass. Energy & Fuels, 2010, 24, 1274-1282.	2.5	133
84	Measurement of key compositional parameters in two species of energy grass by Fourier transform infrared spectroscopy. Bioresource Technology, 2009, 100, 6428-6433.	4.8	55
85	Modelling methods for co-fired pulverised fuel furnaces. Fuel, 2009, 88, 2448-2454.	3.4	88
86	The mechanism of the formation of soot and other pollutants during the co-firing of coal and pine wood in a fixed bed combustor. Fuel, 2009, 88, 2409-2417.	3.4	67
87	Investigation of the pyrolysis behaviour of brown algae before and after pre-treatment using PY-GC/MS and TGA. Journal of Analytical and Applied Pyrolysis, 2009, 85, 3-10.	2.6	178
88	The preparation of high-grade bio-oils through the controlled, low temperature microwave activation of wheat straw. Bioresource Technology, 2009, 100, 6064-6068.	4.8	147
89	Uncatalysed and potassium-catalysed pyrolysis of the cell-wall constituents of biomass and their model compounds. Journal of Analytical and Applied Pyrolysis, 2008, 83, 12-25.	2.6	216
90	Phosphorus catalysis in the pyrolysis behaviour of biomass. Journal of Analytical and Applied Pyrolysis, 2008, 83, 197-204.	2.6	94

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91	Classification of macroalgae as fuel and its thermochemical behaviour. Bioresource Technology, 2008, 99, 6494-6504.	4.8	554
92	Torrefaction of reed canary grass, wheat straw and willow to enhance solid fuel qualities and combustion properties. Fuel, 2008, 87, 844-856.	3.4	741
93	The effect of lignin and inorganic species in biomass on pyrolysis oil yields, quality and stability. Fuel, 2008, 87, 1230-1240.	3.4	477
94	Combustion of a Single Particle of Biomass. Energy & Fuels, 2008, 22, 306-316.	2.5	160
95	Mechanistic Aspects of Soot Formation from the Combustion of Pine Wood. Energy & Fuels, 2008, 22, 3771-3778.	2.5	83
96	Survey of influence of biomass mineral matter in thermochemical conversion of short rotation willow coppice. Journal of the Energy Institute, 2008, 81, 234-241.	2.7	61
97	Modelling the competition between annealing and oxidation in the carbonâ€“oxygen reaction. Carbon, 2007, 45, 677-680.	5.4	18
98	Influence of particle size on the analytical and chemical properties of two energy crops. Fuel, 2007, 86, 60-72.	3.4	192
99	The effect of alkali metals on combustion and pyrolysis of Lolium and Festuca grasses, switchgrass and willow. Fuel, 2007, 86, 1560-1569.	3.4	337
100	Modelling the combustion of pulverized biomass in an industrial combustion test furnace. Fuel, 2007, 86, 1959-1965.	3.4	105
101	Potassium catalysis in the pyrolysis behaviour of short rotation willow coppice. Fuel, 2007, 86, 2389-2402.	3.4	288
102	An investigation of the thermal and catalytic behaviour of potassium in biomass combustion. Proceedings of the Combustion Institute, 2007, 31, 1955-1963.	2.4	160
103	Emission of Oxygenated Species from the Combustion of Pine Wood and its Relation to Soot Formation. Chemical Engineering Research and Design, 2007, 85, 430-440.	2.7	79
104	Influence of minerals and added calcium on the pyrolysis and co-pyrolysis of coal and biomass. Journal of the Energy Institute, 2005, 78, 126-138.	2.7	12
105	Co-firing pulverised coal and biomass: a modeling approach. Proceedings of the Combustion Institute, 2005, 30, 2955-2964.	2.4	127
106	A study of different soots using pyrolysisâ€“GCâ€“MS and comparison with solvent extractable material. Journal of Analytical and Applied Pyrolysis, 2005, 74, 494-501.	2.6	46
107	Devolatilisation characteristics of coal and biomass blends. Journal of Analytical and Applied Pyrolysis, 2005, 74, 502-511.	2.6	147
108	Prediction of unburned carbon and NOx in a tangentially fired power station using single coals and blends. Fuel, 2005, 84, 2196-2203.	3.4	97

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109	The selective oxidation of ammonia over alumina supported catalystsâ€“experiments and modelling. Applied Catalysis B: Environmental, 2005, 60, 139-146.	10.8	22
110	Atmospheric chemistry implications of the emission of biomass smoke. Journal of the Energy Institute, 2005, 78, 199-200.	2.7	10
111	Emission of trace toxic metals during pulverized fuel combustion of Czech coals. International Journal of Energy Research, 2003, 27, 1181-1203.	2.2	24
112	Burn-out of pulverised coal and biomass charsâ˜†. Fuel, 2003, 82, 2097-2105.	3.4	54
113	An investigation of alumina-supported catalysts for the selective catalytic oxidation of ammonia in biomass gasification. Catalysis Today, 2003, 81, 681-692.	2.2	90
114	Measurement and prediction of the emission of pollutants from the combustion of coal and biomass in a fixed bed furnace. Fuel, 2002, 81, 571-582.	3.4	126
115	Modeling the reaction of oxygen with coal and biomass chars. Proceedings of the Combustion Institute, 2002, 29, 415-421.	2.4	21
116	Modelling coal combustion: the current position. Fuel, 2002, 81, 605-618.	3.4	153
117	Conversion of volatile-nitrogen and char-nitrogen to NO during combustion. Fuel, 2002, 81, 2363-2369.	3.4	37
118	A study of the reaction of oxygen with graphite: Model chemistry. Faraday Discussions, 2001, 119, 385-394.	1.6	44
119	Development of pyrolysisâ€“GC with selective detection: coupling of pyrolysisâ€“GC to atomic emission detection (pyâ€“GCâ€“AED). Journal of Analytical and Applied Pyrolysis, 2001, 58-59, 371-385.	2.6	11
120	Combustion of pulverised coal and biomass. Progress in Energy and Combustion Science, 2001, 27, 587-610.	15.8	227
121	A comprehensive biomass combustion model. Renewable Energy, 2000, 19, 229-234.	4.3	41
122	The combustion of coal and some other solid fuels. Proceedings of the Combustion Institute, 2000, 28, 2141-2162.	2.4	59
123	Biomass Combustion Modelling. , 2000, , 1373-1376.		0
124	Modelling NOx formation in coal particle combustion at high temperature: an investigation of the devolatilisation kinetic factors. Fuel, 1999, 78, 1171-1179.	3.4	70
125	Emission of volatile organic compounds from coal combustion. Fuel, 1999, 78, 1527-1538.	3.4	46
126	The oxidative reactivity of coal chars in relation to their structure. Fuel, 1999, 78, 1539-1552.	3.4	74

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127	An extended coal combustion model. Fuel, 1999, 78, 1745-1754.	3.4	51
128	Metalloporphyrin-derived carbons: models for investigating NOx release from coal char combustion. Carbon, 1999, 37, 1123-1131.	5.4	24
129	Approaches to modelling heterogeneous char NO formation/destruction during Pulverised coal combustion. Carbon, 1999, 37, 1545-1552.	5.4	49
130	A Comparative Study of Sulfur Poisoning and Regeneration of Precious-Metal Catalysts. Energy & Fuels, 1998, 12, 1130-1134.	2.5	68
131	Porphyrin- and metalloporphyrin-derived carbons as models for coal char combustion and pyrolysis. Fuel, 1997, 76, 1235-1240.	3.4	6
132	The nature of hydrocarbon emissions formed during the cooling of combustion products. Fuel, 1997, 76, 861-864.	3.4	17
133	Detection of reactive intermediate nitrogen and sulfur species in the combustion of carbons that are models for coal chars. Carbon, 1995, 33, 833-843.	5.4	63
134	Carbon-13 materials as models for NOx and N2O release during coal char combustion. Carbon, 1995, 33, 1129-1139.	5.4	22
135	Post-combustion and Oxy-combustion Technologies. , 0, , 47-66.		2