

# Jenny Jones

## List of Publications by Year in descending order

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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	Torrefaction of reed canary grass, wheat straw and willow to enhance solid fuel qualities and combustion properties. <i>Fuel</i> , 2008, 87, 844-856.	3.4	741
2	Classification of macroalgae as fuel and its thermochemical behaviour. <i>Bioresource Technology</i> , 2008, 99, 6494-6504.	4.8	554
3	Hydrothermal processing of microalgae using alkali and organic acids. <i>Fuel</i> , 2010, 89, 2234-2243.	3.4	525
4	The effect of lignin and inorganic species in biomass on pyrolysis oil yields, quality and stability. <i>Fuel</i> , 2008, 87, 1230-1240.	3.4	477
5	Pollutants from the combustion of solid biomass fuels. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 113-137.	15.8	470
6	The effect of alkali metals on combustion and pyrolysis of <i>Lolium</i> and <i>Festuca</i> grasses, switchgrass and willow. <i>Fuel</i> , 2007, 86, 1560-1569.	3.4	337
7	Potassium catalysis in the pyrolysis behaviour of short rotation willow coppice. <i>Fuel</i> , 2007, 86, 2389-2402.	3.4	288
8	An investigation of the grindability of two torrefied energy crops. <i>Fuel</i> , 2010, 89, 3911-3918.	3.4	254
9	Urea as a hydrogen carrier: a perspective on its potential for safe, sustainable and long-term energy supply. <i>Energy and Environmental Science</i> , 2011, 4, 1216.	15.6	240
10	Combustion of pulverised coal and biomass. <i>Progress in Energy and Combustion Science</i> , 2001, 27, 587-610.	15.8	227
11	Uncatalysed and potassium-catalysed pyrolysis of the cell-wall constituents of biomass and their model compounds. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 83, 12-25.	2.6	216
12	Seasonal variation in the chemical composition of the bioenergy feedstock <i>Laminaria digitata</i> for thermochemical conversion. <i>Bioresource Technology</i> , 2011, 102, 226-234.	4.8	204
13	Influence of particle size on the analytical and chemical properties of two energy crops. <i>Fuel</i> , 2007, 86, 60-72.	3.4	192
14	Pyrolysis behaviour of the main carbohydrates of brown macro-algae. <i>Fuel</i> , 2011, 90, 598-607.	3.4	179
15	Investigation of the pyrolysis behaviour of brown algae before and after pre-treatment using PY-GC/MS and TGA. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 85, 3-10.	2.6	178
16	Physicochemical characterisation of torrefied biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 103, 21-30.	2.6	177
17	Single particle ignition and combustion of anthracite, semi-anthracite and bituminous coals in air and simulated oxy-fuel conditions. <i>Combustion and Flame</i> , 2014, 161, 1096-1108.	2.8	174
18	An investigation of the thermal and catalytic behaviour of potassium in biomass combustion. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1955-1963.	2.4	160

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19	Combustion of a Single Particle of Biomass. <i>Energy &amp; Fuels</i> , 2008, 22, 306-316.	2.5	160
20	Modelling coal combustion: the current position. <i>Fuel</i> , 2002, 81, 605-618.	3.4	153
21	Devolatilisation characteristics of coal and biomass blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 502-511.	2.6	147
22	The preparation of high-grade bio-oils through the controlled, low temperature microwave activation of wheat straw. <i>Bioresource Technology</i> , 2009, 100, 6064-6068.	4.8	147
23	Combustion and gasification characteristics of chars from raw and torrefied biomass. <i>Bioresource Technology</i> , 2012, 119, 157-165.	4.8	147
24	Influence of alkali metals on the kinetics of the thermal decomposition of biomass. <i>Fuel Processing Technology</i> , 2012, 104, 189-197.	3.7	138
25	Combustion of single biomass particles in air and in oxy-fuel conditions. <i>Biomass and Bioenergy</i> , 2014, 64, 162-174.	2.9	138
26	Commodity Fuels from Biomass through Pretreatment and Torrefaction: Effects of Mineral Content on Torrefied Fuel Characteristics and Quality. <i>Energy &amp; Fuels</i> , 2012, 26, 6466-6474.	2.5	135
27	Kinetics of the Thermal Decomposition of Biomass. <i>Energy &amp; Fuels</i> , 2010, 24, 1274-1282.	2.5	133
28	Co-firing pulverised coal and biomass: a modeling approach. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 2955-2964.	2.4	127
29	Measurement and prediction of the emission of pollutants from the combustion of coal and biomass in a fixed bed furnace. <i>Fuel</i> , 2002, 81, 571-582.	3.4	126
30	The impact of fuel properties on the emissions from the combustion of biomass and other solid fuels in a fixed bed domestic stove. <i>Fuel Processing Technology</i> , 2016, 142, 115-123.	3.7	126
31	Biomass devolatilization at high temperature under N <sub>2</sub> and CO <sub>2</sub> : Char morphology and reactivity. <i>Energy</i> , 2015, 91, 655-662.	4.5	109
32	Modelling the combustion of pulverized biomass in an industrial combustion test furnace. <i>Fuel</i> , 2007, 86, 1959-1965.	3.4	105
33	Observations on the release of gas-phase potassium during the combustion of single particles of biomass. <i>Fuel</i> , 2016, 182, 110-117.	3.4	100
34	Combustion properties of some power station biomass fuels. <i>Fuel</i> , 2010, 89, 2881-2890.	3.4	99
35	Prediction of unburned carbon and NO <sub>x</sub> in a tangentially fired power station using single coals and blends. <i>Fuel</i> , 2005, 84, 2196-2203.	3.4	97
36	Phosphorus catalysis in the pyrolysis behaviour of biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 83, 197-204.	2.6	94

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37	An investigation of alumina-supported catalysts for the selective catalytic oxidation of ammonia in biomass gasification. <i>Catalysis Today</i> , 2003, 81, 681-692.	2.2	90
38	Ignition and combustion of single particles of coal and biomass. <i>Fuel</i> , 2017, 202, 650-655.	3.4	90
39	Modelling methods for co-fired pulverised fuel furnaces. <i>Fuel</i> , 2009, 88, 2448-2454.	3.4	88
40	Low temperature ignition of biomass. <i>Fuel Processing Technology</i> , 2015, 134, 372-377.	3.7	85
41	A review of the mitigation of deposition and emission problems during biomass combustion through washing pre-treatment. <i>Journal of the Energy Institute</i> , 2016, 89, 159-171.	2.7	84
42	Mechanistic Aspects of Soot Formation from the Combustion of Pine Wood. <i>Energy &amp; Fuels</i> , 2008, 22, 3771-3778.	2.5	83
43	Emission of Oxygenated Species from the Combustion of Pine Wood and its Relation to Soot Formation. <i>Chemical Engineering Research and Design</i> , 2007, 85, 430-440.	2.7	79
44	The effects of an additive on the release of potassium in biomass combustion. <i>Fuel</i> , 2018, 214, 647-655.	3.4	76
45	The oxidative reactivity of coal chars in relation to their structure. <i>Fuel</i> , 1999, 78, 1539-1552.	3.4	74
46	Prediction of biomass ash fusion behaviour by the use of detailed characterisation methods coupled with thermodynamic analysis. <i>Fuel</i> , 2015, 141, 275-284.	3.4	74
47	An assessment of the torrefaction of North American pine and life cycle greenhouse gas emissions. <i>Energy Conversion and Management</i> , 2016, 113, 177-188.	4.4	73
48	Combustion properties of torrefied willow compared with bituminous coals. <i>Fuel Processing Technology</i> , 2012, 101, 1-9.	3.7	72
49	Single particle flame-combustion studies on solid biomass fuels. <i>Fuel</i> , 2015, 151, 21-30.	3.4	71
50	Modelling NO <sub>x</sub> formation in coal particle combustion at high temperature: an investigation of the devolatilisation kinetic factors. <i>Fuel</i> , 1999, 78, 1171-1179.	3.4	70
51	Miscanthus combustion properties and variations with Miscanthus agronomy. <i>Fuel</i> , 2014, 117, 851-869.	3.4	69
52	A Comparative Study of Sulfur Poisoning and Regeneration of Precious-Metal Catalysts. <i>Energy &amp; Fuels</i> , 1998, 12, 1130-1134.	2.5	68
53	The mechanism of the formation of soot and other pollutants during the co-firing of coal and pine wood in a fixed bed combustor. <i>Fuel</i> , 2009, 88, 2409-2417.	3.4	67
54	The combustion characteristics of high-heating-rate chars from untreated and torrefied biomass fuels. <i>Biomass and Bioenergy</i> , 2015, 82, 63-72.	2.9	67

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55	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
56	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
57	The combustion of coal and some other solid fuels. Proceedings of the Combustion Institute, 2000, 28, 2141-2162.	2.4	59
58	CFD modeling of oxy-coal combustion: Prediction of burnout, volatile and NO precursors release. Applied Energy, 2013, 104, 653-665.	5.1	59
59	Influence of cation on the pyrolysis and oxidation of alginates. Journal of Analytical and Applied Pyrolysis, 2011, 91, 344-351.	2.6	58
60	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
61	Burn-out of pulverised coal and biomass chars. Fuel, 2003, 82, 2097-2105.	3.4	54
62	An extended coal combustion model. Fuel, 1999, 78, 1745-1754.	3.4	51
63	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
64	Approaches to modelling heterogeneous char NO formation/destruction during Pulverised coal combustion. Carbon, 1999, 37, 1545-1552.	5.4	49
65	Study of Miscanthus x giganteus ash composition – Variation with agronomy and assessment method. Fuel, 2012, 95, 50-62.	3.4	49
66	Emission of volatile organic compounds from coal combustion. Fuel, 1999, 78, 1527-1538.	3.4	46
67	A study of different soots using pyrolysis-GC-MS and comparison with solvent extractable material. Journal of Analytical and Applied Pyrolysis, 2005, 74, 494-501.	2.6	46
68	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
69	A comparative assessment of biomass ash preparation methods using X-ray fluorescence and wet chemical analysis. Fuel, 2016, 182, 161-165.	3.4	46
70	A study of the reaction of oxygen with graphite: Model chemistry. Faraday Discussions, 2001, 119, 385-394.	1.6	44
71	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
72	A comprehensive biomass combustion model. Renewable Energy, 2000, 19, 229-234.	4.3	41

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73	Nitrogen in Biomass Char and Its Fate during Combustion: A Model Compound Approach. <i>Energy &amp; Fuels</i> , 2012, 26, 6482-6491.	2.5	40
74	Conversion of volatile-nitrogen and char-nitrogen to NO during combustion. <i>Fuel</i> , 2002, 81, 2363-2369.	3.4	37
75	Combustion of Turkish lignites and olive residue: Experiments and kinetic modelling. <i>Fuel</i> , 2017, 203, 868-876.	3.4	37
76	Small-scale co-utilisation of coal and biomass. <i>Fuel</i> , 2012, 101, 84-89.	3.4	34
77	Is Black Carbon an Unimportant Ice-Nucleating Particle in Mixed-Phase Clouds?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4273-4283.	1.2	34
78	The use of agricultural residues, wood briquettes and logs for small-scale domestic heating. <i>Fuel Processing Technology</i> , 2020, 210, 106552.	3.7	34
79	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. <i>Energy &amp; Fuels</i> , 2013, 27, 1668-1678.	2.5	32
80	Experimental and theoretical methods for evaluating ash properties of pine and El Cerrejon coal used in co-firing. <i>Fuel</i> , 2016, 183, 39-54.	3.4	32
81	High temperature volatile yield and nitrogen partitioning during pyrolysis of coal and biomass fuels. <i>Fuel</i> , 2019, 248, 215-220.	3.4	31
82	Some characteristics of the self-heating of the large scale storage of biomass. <i>Fuel Processing Technology</i> , 2018, 174, 1-8.	3.7	30
83	Microalgae biorefinery concept based on hydrothermal microwave pyrolysis. <i>Green Chemistry</i> , 2012, 14, 3251.	4.6	29
84	Emissions from the combustion of torrefied and raw biomass fuels in a domestic heating stove. <i>Fuel Processing Technology</i> , 2020, 199, 106266.	3.7	29
85	Hydrogen from ethanol reforming with aqueous fraction of pine pyrolysis oil with and without chemical looping. <i>Bioresource Technology</i> , 2015, 176, 257-266.	4.8	25
86	Organic carbon emissions from the co-firing of coal and wood in a fixed bed combustor. <i>Fuel</i> , 2017, 195, 226-231.	3.4	25
87	Shape and size transformations of biomass particles during combustion. <i>Fuel</i> , 2020, 261, 116334.	3.4	25
88	Metalloporphyrin-derived carbons: models for investigating NO <sub>x</sub> release from coal char combustion. <i>Carbon</i> , 1999, 37, 1123-1131.	5.4	24
89	Emission of trace toxic metals during pulverized fuel combustion of Czech coals. <i>International Journal of Energy Research</i> , 2003, 27, 1181-1203.	2.2	24
90	Characterization of Selected Nigerian Biomass for Combustion and Pyrolysis Applications. <i>Energy &amp; Fuels</i> , 2014, 28, 3821-3832.	2.5	23

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91	Carbon-13 materials as models for NO <sub>x</sub> and N <sub>2</sub> O release during coal char combustion. Carbon, 1995, 33, 1129-1139.	5.4	22
92	The selective oxidation of ammonia over alumina supported catalysts—experiments and modelling. Applied Catalysis B: Environmental, 2005, 60, 139-146.	10.8	22
93	The combustion of droplets of high-asphaltene heavy oils. Fuel, 2013, 103, 835-842.	3.4	22
94	Catalytic hydrothermal processing of lipids using metal doped zeolites. Biomass and Bioenergy, 2017, 98, 26-36.	2.9	22
95	Modeling the reaction of oxygen with coal and biomass chars. Proceedings of the Combustion Institute, 2002, 29, 415-421.	2.4	21
96	The combustion of droplets of liquid fuels and biomass particles. Fuel, 2011, 90, 1113-1119.	3.4	19
97	Modelling the competition between annealing and oxidation in the carbon—oxygen reaction. Carbon, 2007, 45, 677-680.	5.4	18
98	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
99	Mixing State of Carbonaceous Aerosols of Primary Emissions from —Improved—African Cookstoves. Environmental Science & Technology, 2018, 52, 10134-10143.	4.6	18
100	The nature of hydrocarbon emissions formed during the cooling of combustion products. Fuel, 1997, 76, 861-864.	3.4	17
101	Numerical investigation of NO emissions from an entrained flow reactor under oxy-coal conditions. Fuel Processing Technology, 2012, 93, 53-64.	3.7	17
102	A study of smoke formation from wood combustion. Fuel Processing Technology, 2015, 137, 327-332.	3.7	17
103	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
104	In Situ Study of Soot from the Combustion of a Biomass Pyrolysis Intermediate—Eugenol—and n-Decane Using Aerosol Time of Flight Mass Spectrometry. Energy & Fuels, 2010, 24, 439-445.	2.5	16
105	Pollutants Generated by the Combustion of Solid Biomass Fuels. SpringerBriefs in Applied Sciences and Technology, 2014, , .	0.2	16
106	Stability and Activity of Doped Transition Metal Zeolites in the Hydrothermal Processing. Frontiers in Energy Research, 2015, 3, .	1.2	16
107	Ignition and Combustion of Single Particles of Coal and Biomass under O <sub>2</sub> /CO <sub>2</sub> Atmospheres. Energy Procedia, 2017, 114, 6067-6073.	1.8	16
108	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

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109	A study of the combustion chemistry of petroleum and bio-fuel oil asphaltenes. <i>Fuel</i> , 2016, 182, 517-524.	3.4	14
110	PAH emissions from an African cookstove. <i>Journal of the Energy Institute</i> , 2019, 92, 587-593.	2.7	13
111	Influence of minerals and added calcium on the pyrolysis and co-pyrolysis of coal and biomass. <i>Journal of the Energy Institute</i> , 2005, 78, 126-138.	2.7	12
112	Development of pyrolysis-GC with selective detection: coupling of pyrolysis-GC to atomic emission detection (py-GC-AED). <i>Journal of Analytical and Applied Pyrolysis</i> , 2001, 58-59, 371-385.	2.6	11
113	Some Aspects of Modeling NO <sub>x</sub> Formation Arising from the Combustion of 100% Wood in a Pulverized Fuel Furnace. <i>Combustion Science and Technology</i> , 2014, 186, 672-683.	1.2	11
114	Atmospheric chemistry implications of the emission of biomass smoke. <i>Journal of the Energy Institute</i> , 2005, 78, 199-200.	2.7	10
115	Investigating the impact of an Al-Si additive on the resistivity of biomass ashes. <i>Fuel Processing Technology</i> , 2018, 178, 13-23.	3.7	10
116	Fuel flexible power stations: Utilisation of ash co-products as additives for NO <sub>x</sub> emissions control. <i>Fuel</i> , 2019, 251, 800-807.	3.4	10
117	Heating with Biomass in the United Kingdom: Lessons from New Zealand. <i>Atmospheric Environment</i> , 2017, 152, 431-454.	1.9	9
118	The Impact of Fuelwood Moisture Content on the Emission of Gaseous and Particulate Pollutants from a Wood Stove. <i>Combustion Science and Technology</i> , 2023, 195, 133-152.	1.2	8
119	A calculation method of biomass slagging rate based on crystallization theory. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 456-463.	0.8	7
120	Entrained Metal Aerosol Emissions from Air-Fired Biomass and Coal Combustion for Carbon Capture Applications. <i>Materials</i> , 2018, 11, 1819.	1.3	7
121	The potential use of torrefied Nigerian biomass for combustion applications. <i>Journal of the Energy Institute</i> , 2020, 93, 1726-1736.	2.7	7
122	Porphyrin- and metalloporphyrin-derived carbons as models for coal char combustion and pyrolysis. <i>Fuel</i> , 1997, 76, 1235-1240.	3.4	6
123	Ignition Risks of Biomass Dust on Hot Surfaces. <i>Energy &amp; Fuels</i> , 2016, 30, 4398-4404.	2.5	6
124	An Assessment of Contaminants in UK Road-Verge Biomass and the Implications for Use as Anaerobic Digestion Feedstock. <i>Waste and Biomass Valorization</i> , 2020, 11, 1971-1981.	1.8	4
125	Examination of Combustion-Generated Smoke Particles from Biomass at Source: Relation to Atmospheric Light Absorption. <i>Combustion Science and Technology</i> , 2020, 192, 130-143.	1.2	3
126	Combustion of Solid Biomass: Classification of Fuels. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014, , 9-24.	0.2	3



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127	Computational fluid dynamic modelling of combustion of milled torrefied wood. Journal of the Energy Institute, 2011, 84, 102-104.	2.7	2
128	Post-combustion and Oxy-combustion Technologies. , 0, , 47-66.		2
129	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
130	Catalysis in biomass pyrolysis and combustion. Focus on Catalysts, 2010, 2010, 1-2.	0.7	1
131	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
132	Introduction to Biomass Combustion. SpringerBriefs in Applied Sciences and Technology, 2014, , 1-7.	0.2	1
133	Biomass Combustion Modelling. , 2000, , 1373-1376.		0
134	Formation and emission of polycyclic aromatic hydrocarbon soot precursors during coal combustion. Journal of the Energy Institute, 2011, , .	2.7	0
135	Mathematical Modelling. SpringerBriefs in Applied Sciences and Technology, 2014, , 71-97.	0.2	0