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List of Publications by Year
in descending order

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59 papers	16,301 citations	66234 42 h-index	149479 56 g-index
60 all docs	60 docs citations	60 times ranked	10570 citing authors

#	Article	IF	Citations
1	Review of fast pyrolysis of biomass and product upgrading. Biomass and Bioenergy, 2012, 38, 68-94.	2.9	3,536
2	Renewable fuels and chemicals by thermal processing of biomass. Chemical Engineering Journal, 2003, 91, 87-102.	6.6	1,538
3	Fast pyrolysis processes for biomass. Renewable and Sustainable Energy Reviews, 2000, 4, 1-73.	8.2	1,452
4	An overview of fast pyrolysis of biomass. Organic Geochemistry, 1999, 30, 1479-1493.	0.9	1,434
5	The technical and economic feasibility of biomass gasification for power generation. Fuel, 1995, 74, 631-653.	3.4	851
6	Principles and practice of biomass fast pyrolysis processes for liquids. Journal of Analytical and Applied Pyrolysis, 1999, 51, 3-22.	2.6	644
7	A techno-economic comparison of power production by biomass fast pyrolysis with gasification and combustion. Renewable and Sustainable Energy Reviews, 2002, 6, 181-246.	8.2	482
8	The effect of lignin and inorganic species in biomass on pyrolysis oil yields, quality and stability. Fuel, 2008, 87, 1230-1240.	3.4	477
9	Production of renewable phenolic resins by thermochemical conversion of biomass: A review. Renewable and Sustainable Energy Reviews, 2008, 12, 2092-2116.	8.2	450
10	Study on the pyrolytic behaviour of xylan-based hemicellulose using TGâ€“FTIR and Pyâ€“GCâ€“FTIR. Journal of Analytical and Applied Pyrolysis, 2010, 87, 199-206.	2.6	445
11	Catalysis in thermal biomass conversion. Applied Catalysis A: General, 1994, 116, 5-47.	2.2	404
12	Lignin fast pyrolysis: Results from an international collaboration. Journal of Analytical and Applied Pyrolysis, 2010, 88, 53-72.	2.6	343
13	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
14	Production of high grade fuels and chemicals from catalytic pyrolysis of biomass. Catalysis Today, 1996, 29, 285-295.	2.2	326
15	Fast pyrolysis of cassava rhizome in the presence of catalysts. Journal of Analytical and Applied Pyrolysis, 2008, 81, 72-79.	2.6	277
16	Development of emulsions from biomass pyrolysis liquid and diesel and their use in enginesâ€”Part 1 : emulsion production. Biomass and Bioenergy, 2003, 25, 85-99.	2.9	239
17	Influence of particle size on the analytical and chemical properties of two energy crops. Fuel, 2007, 86, 60-72.	3.4	192
18	Development of emulsions from biomass pyrolysis liquid and diesel and their use in enginesâ€”Part 2: tests in diesel engines. Biomass and Bioenergy, 2003, 25, 101-111.	2.9	186

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19	A comparative study of straw, perennial grasses and hardwoods in terms of fast pyrolysis products. Fuel, 2013, 108, 216-230.	3.4	182
20	Variation in Miscanthus chemical composition and implications for conversion by pyrolysis and thermo-chemical bio-refining for fuels and chemicals. Bioresource Technology, 2011, 102, 3411-3418.	4.8	142
21	CFD modelling of the fast pyrolysis of biomass in fluidised bed reactors. Part B. Chemical Engineering Science, 2009, 64, 1036-1045.	1.9	134
22	Application of CFD to model fast pyrolysis of biomass. Fuel Processing Technology, 2009, 90, 504-512.	3.7	122
23	Evaluation of catalytic pyrolysis of cassava rhizome by principal component analysis. Fuel, 2010, 89, 244-253.	3.4	115
24	CFD modelling of the fast pyrolysis of biomass in fluidised bed reactors: Modelling the impact of biomass shrinkage. Chemical Engineering Journal, 2009, 149, 417-427.	6.6	110
25	CFD modelling of the fast pyrolysis of biomass in fluidised bed reactors, Part A: Eulerian computation of momentum transport in bubbling fluidised beds. Chemical Engineering Science, 2008, 63, 4218-4227.	1.9	103
26	The production of biofuels and renewable chemicals by fast pyrolysis of biomass. International Journal of Global Energy Issues, 2007, 27, 160.	0.2	92
27	Prediction of Klason lignin and lignin thermal degradation products by Pyâ€“GC/MS in a collection of Lolium and Festuca grasses. Journal of Analytical and Applied Pyrolysis, 2007, 80, 16-23.	2.6	92
28	Miscanthus as a feedstock for fast-pyrolysis: Does agronomic treatment affect quality?. Bioresource Technology, 2010, 101, 6185-6191.	4.8	89
29	Drying technologies for an integrated gasification bio-energy plant. Renewable and Sustainable Energy Reviews, 1999, 3, 243-289.	8.2	86
30	A techno-economic analysis of energy recovery from organic fraction of municipal solid waste (MSW) by an integrated intermediate pyrolysis and combined heat and power (CHP) plant. Energy Conversion and Management, 2018, 174, 406-416.	4.4	84
31	Opportunities for biomass-derived â€œbio-oilâ€•in European heat and power markets. Energy Policy, 2006, 34, 2871-2880.	4.2	81
32	Thermochemical characterisation of straws and high yielding perennial grasses. Industrial Crops and Products, 2012, 36, 449-459.	2.5	81
33	Kinetic study of the pyrolysis of miscanthus and its acid hydrolysis residue by thermogravimetric analysis. Fuel Processing Technology, 2015, 138, 184-193.	3.7	81
34	Technoeconomic assessment of biomass to energy. Biomass and Bioenergy, 1995, 9, 205-226.	2.9	80
35	Ablative plate pyrolysis of biomass for liquids. Biomass and Bioenergy, 1994, 7, 147-154.	2.9	79
36	Computational modelling of the impact of particle size to the heat transfer coefficient between biomass particles and a fluidised bed. Fuel Processing Technology, 2010, 91, 68-79.	3.7	73

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37	Slow pyrolysis of organic fraction of municipal solid waste (OFMSW): Characterisation of products and screening of the aqueous liquid product for anaerobic digestion. Applied Energy, 2018, 213, 158-168.	5.1	72
38	Combined heat and power from the intermediate pyrolysis of biomass materials: performance, economics and environmental impact. Applied Energy, 2017, 191, 639-652.	5.1	71
39	Effect of temperature on product performance of a high ash biomass during fast pyrolysis and its bio-oil storage evaluation. Fuel Processing Technology, 2018, 172, 97-105.	3.7	69
40	Characterisation and Py-GC/MS analysis of Imperata Cylindrica as potential biomass for bio-oil production in Brunei Darussalam. Journal of Analytical and Applied Pyrolysis, 2018, 134, 510-519.	2.6	62
41	Techno-economic modelling of biomass flash pyrolysis and upgrading systems. Biomass and Bioenergy, 1994, 7, 267-273.	2.9	57
42	Upgrading fast pyrolysis liquids: Blends of biodiesel and pyrolysis oil. Fuel, 2013, 109, 417-426.	3.4	49
43	Fast pyrolysis processing of surfactant washed Miscanthus. Fuel Processing Technology, 2014, 128, 94-103.	3.7	38
44	CFB air-blown flash pyrolysis. Part I: Engineering design and cold model performance. Fuel, 2007, 86, 1372-1386.	3.4	37
45	Impact of Miscanthus x giganteus senescence times on fast pyrolysis bio-oil quality. Bioresource Technology, 2013, 129, 335-342.	4.8	36
46	Sequential pyrolysis of willow SRC at low and high heating rates â€“ Implications for selective pyrolysis. Fuel, 2012, 93, 692-702.	3.4	33
47	In situ catalytic upgrading of bio-oil using supported molybdenum carbide. Applied Catalysis A: General, 2013, 458, 48-54.	2.2	31
48	A CFD approach on the effect of particle size on char entrainment in bubbling fluidised bed reactors. Biomass and Bioenergy, 2010, 34, 21-29.	2.9	30
49	Coal and biomass co-pyrolysis in a fluidized-bed reactor: Numerical assessment of fuel type and blending conditions. Fuel, 2020, 275, 118004.	3.4	29
50	The influence of harvest and storage on the properties of and fast pyrolysis products from Miscanthus x giganteus. Biomass and Bioenergy, 2013, 56, 247-259.	2.9	27
51	CFD modelling of the fast pyrolysis of an in-flight cellulosic particle subjected to convective heat transfer. Biomass and Bioenergy, 2009, 33, 97-107.	2.9	26
52	3D simulation of the effects of sphericity on char entrainment in fluidised beds. Fuel Processing Technology, 2010, 91, 749-758.	3.7	25
53	The opportunities for electricity production from biomass by advanced thermal conversion technologies. Biomass and Bioenergy, 1993, 4, 339-345.	2.9	23
54	The nature and control of solid, liquid and gaseous emissions from the thermochemical processing of biomass. Biomass and Bioenergy, 1995, 9, 325-341.	2.9	23

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55	Fast Pyrolysis Oil Fuel Blend for Marine Vessels. Environmental Progress and Sustainable Energy, 2017, 36, 677-684.	1.3	16
56	Mapping bioenergy stakeholders: A systematic and scientometric review of capabilities and expertise in bioenergy research in the United Kingdom. Renewable and Sustainable Energy Reviews, 2021, 137, 110496.	8.2	10
57	Catalytic fast pyrolysis forÂimproved liquid quality. , 2016, , 391-429.		7
58	Biomass-based small and micro combined heat and power (CHP) systems: application and status in the United Kingdom. , 2011, , 427-458.		4
59	MARKET OPPORTUNITIES FOR FAST PYROLYSIS IN ELECTRICITY GENERATION. , 1996, , 1997-2002.		2