

# Peter Ashman

## List of Publications by Year in descending order

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83  
papers

3,428  
citations

117453

34  
h-index

149479

56  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption of microalgal cells for the extraction of lipids for biofuels: Processes and specific energy requirements. <i>Biomass and Bioenergy</i> , 2012, 46, 89-101.	2.9	359
2	Microbial flocculation, a potentially low-cost harvesting technique for marine microalgae for the production of biodiesel. <i>Journal of Applied Phycology</i> , 2009, 21, 559-567.	1.5	238
3	Graphene-based nitrogen-doped carbon sandwich nanosheets: a new capacitive process controlled anode material for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8630-8635.	5.2	170
4	Effect of operating conditions on yield and quality of biocrude during hydrothermal liquefaction of halophytic microalga <i>Tetraselmis</i> sp.. <i>Bioresource Technology</i> , 2014, 170, 20-29.	4.8	118
5	Harvesting of marine microalgae by electroflocculation: The energetics, plant design, and economics. <i>Applied Energy</i> , 2013, 108, 45-53.	5.1	112
6	Solar thermal hybrids for combustion power plant: A growing opportunity. <i>Progress in Energy and Combustion Science</i> , 2018, 64, 4-28.	15.8	110
7	The release of water-bound and organic sodium from Loy Yang coal during the combustion of single particles in a flat flame. <i>Combustion and Flame</i> , 2011, 158, 1181-1192.	2.8	106
8	Mechanism and kinetics of sodium release from brown coal char particles during combustion. <i>Combustion and Flame</i> , 2011, 158, 2512-2523.	2.8	86
9	Hydrothermal liquefaction of microalgae for biocrude production: Improving the biocrude properties with vacuum distillation. <i>Bioresource Technology</i> , 2014, 174, 212-221.	4.8	84
10	Production of biochar from rice husk: Particulate emissions from the combustion of raw pyrolysis volatiles. <i>Journal of Cleaner Production</i> , 2018, 172, 1639-1645.	4.6	76
11	On the Burning of Sawdust in a MILD Combustion Furnace. <i>Energy &amp; Fuels</i> , 2010, 24, 3462-3470.	2.5	67
12	Force and energy requirement for microalgal cell disruption: An atomic force microscope evaluation. <i>Bioresource Technology</i> , 2013, 128, 199-206.	4.8	67
13	Quantitative measurement of atomic sodium in the plume of a single burning coal particle. <i>Combustion and Flame</i> , 2008, 155, 529-537.	2.8	64
14	Energy requirements and economic analysis of a full-scale microbial flocculation system for microalgal harvesting. <i>Chemical Engineering Research and Design</i> , 2010, 88, 988-996.	2.7	64
15	Release of Cl, S, P, K, and Na during Thermal Conversion of Algal Biomass. <i>Energy &amp; Fuels</i> , 2015, 29, 2542-2554.	2.5	58
16	Economic evaluation of a novel fuel-saver hybrid combining a solar receiver with a combustor for a solar power tower. <i>Applied Energy</i> , 2014, 113, 1235-1243.	5.1	55
17	Harvesting, Thickening and Dewatering Microalgae Biomass. , 2013, , 165-185.		54
18	Fluidized bed gasification of Kingston coal and marine microalgae in a spouted bed reactor. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1614-1624.	2.7	52

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19	Coaxial Co <sub>3</sub> O <sub>4</sub> @polypyrrole core-shell nanowire arrays for high performance lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 209, 192-200.	2.6	50
20	Technical issues in the large-scale hydrothermal liquefaction of microalgal biomass to biocrude. <i>Current Opinion in Biotechnology</i> , 2016, 38, 85-89.	3.3	50
21	Simultaneous measurements of the release of atomic sodium, particle diameter and particle temperature for a single burning coal particle. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2099-2106.	2.4	49
22	Polygeneration of Liquid Fuels and Electricity by the Atmospheric Pressure Hybrid Solar Gasification of Coal. <i>Energy &amp; Fuels</i> , 2013, 27, 3538-3555.	2.5	49
23	Time-resolved spectra of solar simulators employing metal halide and xenon arc lamps. <i>Solar Energy</i> , 2015, 115, 613-620.	2.9	47
24	Influence of process conditions on pretreatment of microalgae for protein extraction and production of biocrude during hydrothermal liquefaction of pretreated <i>Tetraselmis</i> sp.. <i>RSC Advances</i> , 2015, 5, 20193-20207.	1.7	45
25	Microalgal cell disruption by hydrodynamic cavitation for the production of biofuels. <i>Journal of Applied Phycology</i> , 2015, 27, 1881-1889.	1.5	44
26	Combustion Behavior of Algal Biomass: Carbon Release, Nitrogen Release, and Char Reactivity. <i>Energy &amp; Fuels</i> , 2014, 28, 41-51.	2.5	43
27	A new method for determining the conversion of low-ash coals using synthetic ash as a tracer. <i>Fuel</i> , 2005, 84, 1980-1985.	3.4	42
28	Axial gas profiles in a bubbling fluidised bed biomass gasifier. <i>Fuel</i> , 2007, 86, 1417-1429.	3.4	41
29	Alternative carriers for remote renewable energy sources using existing CNG infrastructure. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1321-1329.	3.8	41
30	The Effects of Load Height on the Emissions from a Natural Gas-Fired Domestic Cooktop Burner. <i>Combustion Science and Technology</i> , 1994, 103, 283-298.	1.2	40
31	Investigation of Agglomeration and Defluidization during Spouted-Bed Gasification of High-Sodium, High-Sulfur South Australian Lignite. <i>Energy &amp; Fuels</i> , 2011, 25, 2772-2781.	2.5	40
32	The effects of temperature and hydrodynamics on the crystallization fouling under cross flow conditions. <i>Applied Thermal Engineering</i> , 2012, 36, 210-218.	3.0	38
33	Niobium and molybdenum co-doped La <sub>0.5</sub> WO <sub>3.25</sub> membrane with improved hydrogen permeability. <i>Journal of Membrane Science</i> , 2016, 510, 155-163.	4.1	37
34	Rate coefficient of H+O <sub>2</sub> +M <sup>+</sup> HO <sub>2</sub> +M (M=H <sub>2</sub> O, N <sub>2</sub> , Ar, CO <sub>2</sub> ). <i>Proceedings of the Combustion Institute</i> , 1998, 27, 185-191.	0.3	36
35	Fluidized Bed Co-gasification of Algae and Wood Pellets: Gas Yields and Bed Agglomeration Analysis. <i>Energy &amp; Fuels</i> , 2016, 30, 1800-1809.	2.5	36
36	Cogasification of Australian Brown Coal with Algae in a Fluidized Bed Reactor. <i>Energy &amp; Fuels</i> , 2015, 29, 1686-1700.	2.5	35

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37	Performance Assessment of Fischer-Tropsch Liquid Fuels Production by Solar Hybridized Dual Fluidized Bed Gasification of Lignite. <i>Energy &amp; Fuels</i> , 2015, 29, 2738-2751.	2.5	35
38	Control of Agglomeration and Defluidization during Fluidized-Bed Combustion of South Australian Low-Rank Coals. <i>Energy &amp; Fuels</i> , 2012, 26, 118-129.	2.5	34
39	Research challenges in combustion and gasification arising from emerging technologies employing directly irradiated concentrating solar thermal radiation. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2055-2074.	2.4	34
40	Interactions of gaseous no with char during the low-temperature oxidation of coal chars. <i>Proceedings of the Combustion Institute</i> , 2000, 28, 2171-2179.	2.4	32
41	Concentric multilayer model of the arc in high intensity discharge lamps for solar simulators with experimental validation. <i>Solar Energy</i> , 2015, 122, 293-306.	2.9	32
42	The fate of char-nitrogen in low-temperature oxidation. <i>Proceedings of the Combustion Institute</i> , 1998, 27, 3069-3075.	0.3	31
43	Algal Biomass: Occurrence of the Main Inorganic Elements and Simulation of Ash Interactions with Bed Material. <i>Energy &amp; Fuels</i> , 2014, 28, 4622-4632.	2.5	30
44	Emission characteristics of a pyrolysis-combustion system for the co-production of biochar and bioenergy from agricultural wastes. <i>Waste Management</i> , 2018, 77, 59-66.	3.7	28
45	The influence of geometric nozzle profile on the global properties of a turbulent diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1599-1607.	2.4	27
46	Performance of coal fly-ash based oxygen carrier for the chemical looping combustion of synthesis gas. <i>Applied Energy</i> , 2013, 109, 44-50.	5.1	24
47	Gasification Reactivity and Physicochemical Properties of the Chars from Raw and Torrefied Wood, Grape Marc, and Macroalgae. <i>Energy &amp; Fuels</i> , 2017, 31, 2246-2259.	2.5	24
48	The use of turbulence generators to mitigate crystallization fouling under cross flow conditions. <i>Desalination</i> , 2012, 288, 108-117.	4.0	22
49	Chemical looping combustion of biomass-derived syngas using ceria-supported oxygen carriers. <i>Bioresource Technology</i> , 2013, 140, 385-391.	4.8	22
50	Ash-Bed Material Interaction during the Combustion and Steam Gasification of Australian Agricultural Residues. <i>Energy &amp; Fuels</i> , 2018, 32, 4278-4290.	2.5	21
51	Global characteristics of non-premixed jet flames of hydrogen-hydrocarbon blended fuels. <i>Combustion and Flame</i> , 2015, 162, 1326-1335.	2.8	20
52	Polycyclic aromatic hydrocarbons on particulate matter emitted during the co-generation of bioenergy and biochar from rice husk. <i>Bioresource Technology</i> , 2017, 244, 1015-1023.	4.8	20
53	Integrating anaerobic digestion and hydrothermal liquefaction for renewable energy production: An experimental investigation. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 1662-1673.	1.3	18
54	Impact of Sodium and Sulfur Species on Agglomeration and Defluidization during Spouted Bed Gasification of South Australian Lignite. <i>Energy &amp; Fuels</i> , 2015, 29, 3922-3932.	2.5	18

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55	System Optimization for Fischer-Tropsch Liquid Fuels Production via Solar Hybridized Dual Fluidized Bed Gasification of Solid Fuels. <i>Energy &amp; Fuels</i> , 2017, 31, 2033-2043.	2.5	18
56	Investigation of NO <sub>x</sub> conversion characteristics in a porous medium. <i>Combustion and Flame</i> , 2008, 152, 604-615.	2.8	17
57	Levels of polychlorinated biphenyls (PCB) and polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/F) in fillets of farmed Southern Bluefin Tuna ( <i>Thunnus maccoyii</i> ). <i>Chemosphere</i> , 2008, 73, 915-922.	4.2	17
58	Research issues in combustion and gasification of lignite. <i>Fuel</i> , 2005, 84, 1195-1205.	3.4	15
59	Effect of High-Flux Solar Irradiation on the Gasification of Coal in a Hybrid Entrained-Flow Reactor. <i>Energy &amp; Fuels</i> , 2016, 30, 5138-5147.	2.5	14
60	Integration of the structured development of communication skills within a chemical engineering curriculum at the University of Adelaide. <i>Education for Chemical Engineers</i> , 2019, 27, 20-27.	2.8	14
61	Solar Hybridized Coal-to-liquids via Gasification in Australia: Techno-economic Assessment. <i>Energy Procedia</i> , 2015, 69, 1819-1827.	1.8	12
62	Control of Agglomeration during Circulating Fluidized Bed Gasification of a South Australian Low-Rank Coal: Pilot Scale Testing. <i>Energy &amp; Fuels</i> , 2016, 30, 1771-1782.	2.5	12
63	Preliminary understanding on the ash behavior of algae during co-gasification in an entrained flow reactor. <i>Fuel Processing Technology</i> , 2018, 175, 26-34.	3.7	12
64	The ash-quartz sand interaction behaviours during steam gasification or combustion of a freshwater and a marine species of macroalgae. <i>Fuel</i> , 2020, 263, 116621.	3.4	12
65	Assessment of the release of atomic Na from a burning black liquor droplet using quantitative PLIF. <i>Combustion and Flame</i> , 2009, 156, 1471-1479.	2.8	11
66	Simultaneous measurement of the surface temperature and the release of atomic sodium from a burning black liquor droplet. <i>Combustion and Flame</i> , 2010, 157, 769-777.	2.8	11
67	Fischer-tropsch liquid Fuel Production by Co-gasification of Coal and Biomass in a Solar Hybrid Dual Fluidized Bed Gasifier. <i>Energy Procedia</i> , 2015, 69, 1770-1779.	1.8	11
68	Pyrolysis Characteristics and Char Reactivity of <i>Oedogonium</i> sp. and Loy Yang Coal. <i>Energy &amp; Fuels</i> , 2015, 29, 5047-5055.	2.5	11
69	The influence of high flux broadband irradiation on soot concentration and temperature of a sooty flame. <i>Combustion and Flame</i> , 2016, 171, 103-111.	2.8	11
70	Effect of Calcium and Phosphorus on Interactions between Quartz Sand and K-Salt-Doped Wood under Both Steam Gasification and Combustion Atmospheres. <i>Energy &amp; Fuels</i> , 2020, 34, 3210-3222.	2.5	9
71	Interactions between Quartz Sand and Wood Doped with either K or Na Salts under Steam Gasification and Combustion Atmospheres. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 1712-1722.	1.8	8
72	Influence of droplet size on the release of atomic sodium from a burning black liquor droplet in a flat flame. <i>Fuel</i> , 2010, 89, 1840-1848.	3.4	7

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73	Mobilisation of trace elements during thermal conversion of algae cultivated in ash dam water. <i>Biomass and Bioenergy</i> , 2015, 83, 183-195.	2.9	7
74	Interactions of Olivine and Silica Sand with Potassium- or Silicon-Rich Agricultural Residues under Combustion, Steam Gasification, and CO <sub>2</sub> Gasification. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 14354-14369.	1.8	7
75	Secondary Concentrators to Achieve High Flux Radiation With Metal Halide Solar Simulators. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016, 138, .	1.1	4
76	The stoichiometry and kinetics of carbon combustion at low temperature: A surface complex approach. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 1981-1988.	2.4	3
77	Formaldehyde Formation in Small Gas Burners. <i>Combustion Science and Technology</i> , 1996, 116-117, 359-373.	1.2	2
78	The effect of surface reactions on the prediction of NOX conversion efficiency in a porous burner. <i>Combustion and Flame</i> , 2013, 160, 2169-2181.	2.8	2
79	In Honor of Professor Brian Haynes on the Occasion of His 65th Birthday. <i>Energy &amp; Fuels</i> , 2017, 31, 2107-2108.	2.5	2
80	Methodology for the simultaneous measurement of emissions and efficiency for natural gas-fired cooktop burners. <i>International Journal of Environmental Studies</i> , 1995, 48, 117-133.	0.7	1
81	Influence of stoichiometry on the release of atomic sodium from a burning black liquor droplet in a flat flame with and without boron. <i>Fuel</i> , 2010, 89, 2608-2616.	3.4	1
82	A technical assessment of pneumatic conveying of solids for a high temperature particle receiver. <i>AIP Conference Proceedings</i> , 2019, .	0.3	1
83	Chemeca 2010. <i>Energy &amp; Fuels</i> , 2011, 25, 2753-2753.	2.5	0