Peter Ashman

List of Publications by Year
in descending order

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83	3,428	117453	149479
papers	citations	34 h-index	56 g-index

84	84	84	3981
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interactions of Olivine and Silica Sand with Potassium- or Silicon-Rich Agricultural Residues under Combustion, Steam Gasification, and CO₂ Gasification. Industrial & Engineering Chemistry Research, 2021, 60, 14354-14369.	1.8	7
2	The ash-quartz sand interaction behaviours during steam gasification or combustion of a freshwater and a marine species of macroalgae. Fuel, 2020, 263, 116621.	3.4	12
3	Effect of Calcium and Phosphorus on Interactions between Quartz Sand and K-Salt-Doped Wood under Both Steam Gasification and Combustion Atmospheres. Energy & Fuels, 2020, 34, 3210-3222.	2.5	9
4	Interactions between Quartz Sand and Wood Doped with either K or Na Salts under Steam Gasification and Combustion Atmospheres. Industrial & Engineering Chemistry Research, 2020, 59, 1712-1722.	1.8	8
5	A technical assessment of pneumatic conveying of solids for a high temperature particle receiver. AIP Conference Proceedings, 2019, , .	0.3	1
6	Integration of the structured development of communication skills within a chemical engineering curriculum at the University of Adelaide. Education for Chemical Engineers, 2019, 27, 20-27.	2.8	14
7	Ashâ€“Bed Material Interaction during the Combustion and Steam Gasification of Australian Agricultural Residues. Energy & Fuels, 2018, 32, 4278-4290.	2.5	21
8	Preliminary understanding on the ash behavior of algae during co-gasification in an entrained flow reactor. Fuel Processing Technology, 2018, 175, 26-34.	3.7	12
9	Production of biochar from rice husk: Particulate emissions from the combustion of raw pyrolysis volatiles. Journal of Cleaner Production, 2018, 172, 1639-1645.	4.6	76
10	Solar thermal hybrids for combustion power plant: A growing opportunity. Progress in Energy and Combustion Science, 2018, 64, 4-28.	15.8	110
11	Emission characteristics of a pyrolysis-combustion system for the co-production of biochar and bioenergy from agricultural wastes. Waste Management, 2018, 77, 59-66.	3.7	28
12	Gasification Reactivity and Physicochemical Properties of the Chars from Raw and Torrefied Wood, Grape Marc, and Macroalgae. Energy & Fuels, 2017, 31, 2246-2259.	2.5	24
13	In Honor of Professor Brian Haynes on the Occasion of His 65th Birthday. Energy & Fuels, 2017, 31, 2107-2108.	2.5	2
14	System Optimization for Fischerâ€“Tropsch Liquid Fuels Production via Solar Hybridized Dual Fluidized Bed Gasification of Solid Fuels. Energy & Fuels, 2017, 31, 2033-2043.	2.5	18
15	Polycyclic aromatic hydrocarbons on particulate matter emitted during the co-generation of bioenergy and biochar from rice husk. Bioresource Technology, 2017, 244, 1015-1023.	4.8	20
16	Research challenges in combustion and gasification arising from emerging technologies employing directly irradiated concentrating solar thermal radiation. Proceedings of the Combustion Institute, 2017, 36, 2055-2074.	2.4	34
17	The influence of high flux broadband irradiation on soot concentration and temperature of a sooty flame. Combustion and Flame, 2016, 171, 103-111.	2.8	11
18	Secondary Concentrators to Achieve High Flux Radiation With Metal Halide Solar Simulators. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.1	4

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19	Coaxial Co 3 O 4 @polypyrrole core-shell nanowire arrays for high performance lithium ion batteries. Electrochimica Acta, 2016, 209, 192-200.	2.6	50
20	Graphene-based nitrogen-doped carbon sandwich nanosheets: a new capacitive process controlled anode material for high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 8630-8635.	5.2	170
21	Effect of High-Flux Solar Irradiation on the Gasification of Coal in a Hybrid Entrained-Flow Reactor. Energy & Fuels, 2016, 30, 5138-5147.	2.5	14
22	Fluidized Bed Co-gasification of Algae and Wood Pellets: Gas Yields and Bed Agglomeration Analysis. Energy & Fuels, 2016, 30, 1800-1809.	2.5	36
23	Technical issues in the large-scale hydrothermal liquefaction of microalgal biomass to biocrude. Current Opinion in Biotechnology, 2016, 38, 85-89.	3.3	50
24	Niobium and molybdenum co-doped La5.5WO11.25â^' membrane with improved hydrogen permeability. Journal of Membrane Science, 2016, 510, 155-163.	4.1	37
25	Control of Agglomeration during Circulating Fluidized Bed Gasification of a South Australian Low-Rank Coal: Pilot Scale Testing. Energy & Fuels, 2016, 30, 1771-1782.	2.5	12
26	Mobilisation of trace elements during thermal conversion of algae cultivated in ash dam water. Biomass and Bioenergy, 2015, 83, 183-195.	2.9	7
27	Integrating anaerobic digestion and hydrothermal liquefaction for renewable energy production: An experimental investigation. Environmental Progress and Sustainable Energy, 2015, 34, 1662-1673.	1.3	18
28	Fischer-tropschliquid Fuel Production by Co-gasification of Coal and Biomass in a Solar Hybrid Dual Fluidized Bed Gasifier. Energy Procedia, 2015, 69, 1770-1779.	1.8	11
29	Pyrolysis Characteristics and Char Reactivity of Oedogonium sp. and Loy Yang Coal. Energy & Fuels, 2015, 29, 5047-5055.	2.5	11
30	Influence of process conditions on pretreatment of microalgae for protein extraction and production of biocrude during hydrothermal liquefaction of pretreated Tetraselmis sp.. RSC Advances, 2015, 5, 20193-20207.	1.7	45
31	Cogasification of Australian Brown Coal with Algae in a Fluidized Bed Reactor. Energy & Fuels, 2015, 29, 1686-1700.	2.5	35
32	Microalgal cell disruption by hydrodynamic cavitation for the production of biofuels. Journal of Applied Phycology, 2015, 27, 1881-1889.	1.5	44
33	Impact of Sodium and Sulfur Species on Agglomeration and Defluidization during Spouted Bed Gasification of South Australian Lignite. Energy & Fuels, 2015, 29, 3922-3932.	2.5	18
34	Performance Assessment of Fischerâ€“Tropsch Liquid Fuels Production by Solar Hybridized Dual Fluidized Bed Gasification of Lignite. Energy & Fuels, 2015, 29, 2738-2751.	2.5	35
35	Time-resolved spectra of solar simulators employing metal halide and xenon arc lamps. Solar Energy, 2015, 115, 613-620.	2.9	47
36	Release of Cl, S, P, K, and Na during Thermal Conversion of Algal Biomass. Energy & Fuels, 2015, 29, 2542-2554.	2.5	58

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37	Concentric multilayer model of the arc in high intensity discharge lamps for solar simulators with experimental validation. Solar Energy, 2015, 122, 293-306.	2.9	32
38	Solar Hybridized Coal-to-liquids via Gasification in Australia: Techno-economic Assessment. Energy Procedia, 2015, 69, 1819-1827.	1.8	12
39	Global characteristics of non-premixed jet flames of hydrogenâ€“hydrocarbon blended fuels. Combustion and Flame, 2015, 162, 1326-1335.	2.8	20
40	Hydrothermal liquefaction of microalgae for biocrude production: Improving the biocrude properties with vacuum distillation. Bioresource Technology, 2014, 174, 212-221.	4.8	84
41	Economic evaluation of a novel fuel-saver hybrid combining a solar receiver with a combustor for a solar power tower. Applied Energy, 2014, 113, 1235-1243.	5.1	55
42	Combustion Behavior of Algal Biomass: Carbon Release, Nitrogen Release, and Char Reactivity. Energy & Fuels, 2014, 28, 41-51.	2.5	43
43	Effect of operating conditions on yield and quality of biocrude during hydrothermal liquefaction of halophytic microalga Tetraselmis sp.. Bioresource Technology, 2014, 170, 20-29.	4.8	118
44	Algal Biomass: Occurrence of the Main Inorganic Elements and Simulation of Ash Interactions with Bed Material. Energy & Fuels, 2014, 28, 4622-4632.	2.5	30
45	Harvesting of marine microalgae by electroflocculation: The energetics, plant design, and economics. Applied Energy, 2013, 108, 45-53.	5.1	112
46	The effect of surface reactions on the prediction of NOX conversion efficiency in a porous burner. Combustion and Flame, 2013, 160, 2169-2181.	2.8	2
47	Chemical looping combustion of biomass-derived syngas using ceria-supported oxygen carriers. Bioresource Technology, 2013, 140, 385-391.	4.8	22
48	Fluidized bed gasification of Kingston coal and marine microalgae in a spouted bed reactor. Chemical Engineering Research and Design, 2013, 91, 1614-1624.	2.7	52
49	Performance of coal fly-ash based oxygen carrier for the chemical looping combustion of synthesis gas. Applied Energy, 2013, 109, 44-50.	5.1	24
50	Force and energy requirement for microalgal cell disruption: An atomic force microscope evaluation. Bioresource Technology, 2013, 128, 199-206.	4.8	67
51	Harvesting, Thickening and Dewatering Microalgae Biomass. , 2013, , 165-185.		54
52	Polygeneration of Liquid Fuels and Electricity by the Atmospheric Pressure Hybrid Solar Gasification of Coal. Energy & Fuels, 2013, 27, 3538-3555.	2.5	49
53	Disruption of microalgal cells for the extraction of lipids for biofuels: Processes and specific energy requirements. Biomass and Bioenergy, 2012, 46, 89-101.	2.9	359
54	Control of Agglomeration and Defluidization during Fluidized-Bed Combustion of South Australian Low-Rank Coals. Energy & Fuels, 2012, 26, 118-129.	2.5	34

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55	The effects of temperature and hydrodynamics on the crystallization fouling under cross flow conditions. Applied Thermal Engineering, 2012, 36, 210-218.	3.0	38
56	The use of turbulence generators to mitigate crystallization fouling under cross flow conditions. Desalination, 2012, 288, 108-117.	4.0	22
57	Chemeca 2010. Energy & Fuels, 2011, 25, 2753-2753.	2.5	0
58	Investigation of Agglomeration and Defluidization during Spouted-Bed Gasification of High-Sodium, High-Sulfur South Australian Lignite. Energy & Fuels, 2011, 25, 2772-2781.	2.5	40
59	Mechanism and kinetics of sodium release from brown coal char particles during combustion. Combustion and Flame, 2011, 158, 2512-2523.	2.8	86
60	The release of water-bound and organic sodium from Loy Yang coal during the combustion of single particles in a flat flame. Combustion and Flame, 2011, 158, 1181-1192.	2.8	106
61	Energy requirements and economic analysis of a full-scale microbial flocculation system for microalgal harvesting. Chemical Engineering Research and Design, 2010, 88, 988-996.	2.7	64
62	Influence of stoichiometry on the release of atomic sodium from a burning black liquor droplet in a flat flame with and without boron. Fuel, 2010, 89, 2608-2616.	3.4	1
63	Influence of droplet size on the release of atomic sodium from a burning black liquor droplet in a flat flame. Fuel, 2010, 89, 1840-1848.	3.4	7
64	Alternative carriers for remote renewable energy sources using existing CNG infrastructure. International Journal of Hydrogen Energy, 2010, 35, 1321-1329.	3.8	41
65	Simultaneous measurement of the surface temperature and the release of atomic sodium from a burning black liquor droplet. Combustion and Flame, 2010, 157, 769-777.	2.8	11
66	On the Burning of Sawdust in a MILD Combustion Furnace. Energy & Fuels, 2010, 24, 3462-3470.	2.5	67
67	Assessment of the release of atomic Na from a burning black liquor droplet using quantitative PLIF. Combustion and Flame, 2009, 156, 1471-1479.	2.8	11
68	Microbial flocculation, a potentially low-cost harvesting technique for marine microalgae for the production of biodiesel. Journal of Applied Phycology, 2009, 21, 559-567.	1.5	238
69	The stoichiometry and kinetics of carbon combustion at low temperature: A surface complex approach. Proceedings of the Combustion Institute, 2009, 32, 1981-1988.	2.4	3
70	Simultaneous measurements of the release of atomic sodium, particle diameter and particle temperature for a single burning coal particle. Proceedings of the Combustion Institute, 2009, 32, 2099-2106.	2.4	49
71	Investigation of NOx conversion characteristics in a porous medium. Combustion and Flame, 2008, 152, 604-615.	2.8	17
72	Quantitative measurement of atomic sodium in the plume of a single burning coal particle. Combustion and Flame, 2008, 155, 529-537.	2.8	64

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73	Levels of polychlorinated biphenyls (PCB) and polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/F) in fillets of farmed Southern Bluefin Tuna (Thunnus maccoyii). Chemosphere, 2008, 73, 915-922.	4.2	17
74	Axial gas profiles in a bubbling fluidised bed biomass gasifier. Fuel, 2007, 86, 1417-1429.	3.4	41
75	The influence of geometric nozzle profile on the global properties of a turbulent diffusion flame. Proceedings of the Combustion Institute, 2007, 31, 1599-1607.	2.4	27
76	Research issues in combustion and gasification of lignite. Fuel, 2005, 84, 1195-1205.	3.4	15
77	A new method for determining the conversion of low-ash coals using synthetic ash as a tracer. Fuel, 2005, 84, 1980-1985.	3.4	42
78	Interactions of gaseous no with char during the low-temperature oxidation of coal chars. Proceedings of the Combustion Institute, 2000, 28, 2171-2179.	2.4	32
79	The fate of char-nitrogen in low-temperature oxidation. Proceedings of the Combustion Institute, 1998, 27, 3069-3075.	0.3	31
80	Rate coefficient of H+O2+Mâ†'HO2+M (M=H2O, N2, Ar, CO2). Proceedings of the Combustion Institute, 1998, 27, 185-191.	0.3	36
81	Formaldehyde Formation in Small Gas Burners. Combustion Science and Technology, 1996, 116-117, 359-373.	1.2	2
82	Methodology for the simultaneous measurement of emissions and efficiency for natural gasâ€fired cooktop burners. International Journal of Environmental Studies, 1995, 48, 117-133.	0.7	1
83	The Effects of Load Height on the Emissions from a Natural Gas-Fired Domestic Cooktop Burner. Combustion Science and Technology, 1994, 103, 283-298.	1.2	40