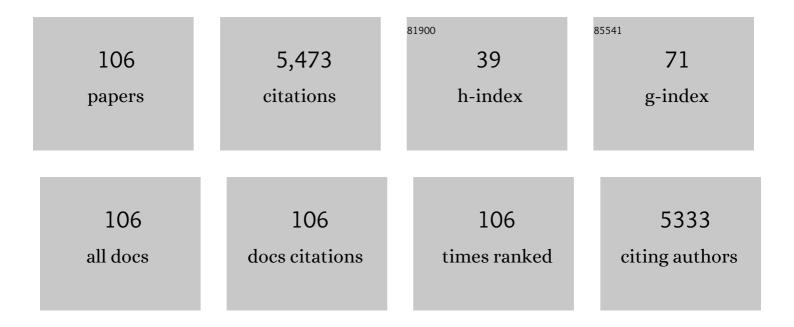
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ilmenite as alternative bed material for the combustion of coal and biomass blends in a fluidised bed combustor to improve combustion performance and reduce agglomeration tendency. Energy, 2022, 239, 121913.	8.8	23
2	Effectiveness of bed additives in abating agglomeration during biomass air/oxy combustion in a fluidised bed combustor. Renewable Energy, 2022, 185, 945-958.	8.9	3
3	Synthesis and characterization of advanced bio-carbon materials from Kraft lignin with enhanced CO2 capture properties. Journal of Environmental Chemical Engineering, 2022, 10, 107471.	6.7	4
4	Fluidised bed combustion and ash fusibility behaviour of coal and spent coffee grounds blends: CO and NOx emissions, combustion performance and agglomeration tendency. Fuel, 2022, 326, 125008.	6.4	7
5	Performance of a silica-polyethyleneimine adsorbent for post-combustion CO2 capture on a 100Âkg scale in a fluidized bed continuous unit. Chemical Engineering Journal, 2021, 407, 127209.	12.7	7
6	Oxy-coal combustion in a 30ÂkWth pressurized fluidized bed: Effect of combustion pressure on combustion performance, pollutant emissions and desulfurization. Proceedings of the Combustion Institute, 2021, 38, 4121-4129.	3.9	15
7	Experimental investigations on the chlorine-induced corrosion of HVOF thermal sprayed Stellite-6 and NiAl coatings with fluidised bed biomass/anthracite combustion systems. Fuel, 2021, 288, 119607.	6.4	13
8	Energy and daylight performance of a smart window: Window integrated with thermotropic parallel slat-transparent insulation material. Applied Energy, 2021, 293, 116826.	10.1	24
9	Experimental study and modeling of oxy-char combustion in a pressurized fluidized bed combustor. Chemical Engineering Journal, 2021, 418, 129356.	12.7	18
10	Coupling the biochemical and thermochemical biorefinery platforms to enhance energy and product recovery from Agave tequilana bagasse. Applied Energy, 2021, 299, 117293.	10.1	3
11	Characterisation of the combustion behaviours of individual pulverised coal particles entrained by air using image processing techniques. Measurement Science and Technology, 2021, 32, 034005.	2.6	2
12	Analysis of the daylight performance of window integrated photovoltaics systems. Renewable Energy, 2020, 145, 153-163.	8.9	49
13	Chemical Characteristics of Ash Formed from the Combustion of Shoe Manufacturing Waste in a 2.5 MWth Circulating Fluidized Bed Combustor. Waste and Biomass Valorization, 2020, 11, 4551-4560.	3.4	2
14	Experimental study of NOx emissions in a 30 kWth pressurized oxy-coal fluidized bed combustor. Energy, 2020, 194, 116756.	8.8	21
15	Experimental study of SO2 emissions and desulfurization of oxy-coal combustion in a 30 kWth pressurized fluidized bed combustor. Fuel, 2020, 264, 116795.	6.4	30
16	Thermal and kinetic analysis of diverse biomass fuels under different reaction environment: A way forward to renewable energy sources. Energy Conversion and Management, 2020, 203, 112266.	9.2	131
17	Design and development of 3D hierarchical ultra-microporous CO2-sieving carbon architectures for potential flow-through CO2 capture at typical practical flue gas temperatures. Journal of Materials Chemistry A, 2020, 8, 17025-17035.	10.3	17
18	Synthesis of functionalized 3D microporous carbon foams for selective CO2 capture. Chemical Engineering Journal, 2020, 402, 125459.	12.7	20

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19	Cyclic performance evaluation of a polyethylenimine/silica adsorbent with steam regeneration using simulated NGCC flue gas and actual flue gas of a gas-fired boiler in a bubbling fluidized bed reactor. International Journal of Greenhouse Gas Control, 2020, 95, 102975.	4.6	6
20	In-situ monitoring of the transformation of ash upon heating and the prediction of ash fusion behaviour of coal/biomass blends. Energy, 2020, 199, 117330.	8.8	40
21	Comparative study of the inherent combustion reactivity of sawdust chars produced by TGA and in the drop tube furnace. Fuel Processing Technology, 2020, 201, 106361.	7.2	20
22	Investigation of Elemental Mercury Removal from Coal-Fired Boiler Flue Gas over MIL101-Cr. Energy & Fuels, 2019, 33, 8864-8875.	5.1	15
23	Magnetic γ-Fe ₂ O ₃ -Loaded Attapulgite Sorbent for Hg ⁰ Removal in Coal-Fired Flue Gas. Energy & Fuels, 2019, 33, 7522-7533.	5.1	32
24	Mesocellular silica foam supported polyamine adsorbents for dry CO2 scrubbing: Performance of single versus blended polyamines for impregnation. Applied Energy, 2019, 255, 113643.	10.1	23
25	Determination of creep damage properties from small punch creep tests considering pre-straining effect using an inverse approach. Mechanics of Materials, 2019, 139, 103171.	3.2	16
26	Experimental investigation of tar arresting techniques and their evaluation for product syngas cleaning from bubbling fluidized bed gasifier. Journal of Cleaner Production, 2019, 240, 118239.	9.3	61
27	Assessment of biomass energy potential for SRC willow woodchips in a pilot scale bubbling fluidized bed gasifier. Fuel, 2019, 258, 116143.	6.4	66
28	Continuous testing of silica-PEI adsorbents in a labscale twin bubbling fluidized-bed system. International Journal of Greenhouse Gas Control, 2019, 82, 184-191.	4.6	19
29	CFD and kinetic modelling study of methane MILD combustion in O2/N2, O2/CO2 and O2/H2O atmospheres. Applied Energy, 2019, 240, 1003-1013.	10.1	67
30	Mechanisms of Toluene Removal in Relation to the Main Components of Biosyngas in a Catalytic Nonthermal Plasma Process. Energy & Fuels, 2019, 33, 4287-4301.	5.1	18
31	Development of a 1000 W organic Rankine cycle micro-turbine-generator using polymeric structural materials and its performance test with compressed air. Energy Conversion and Management, 2019, 190, 105-120.	9.2	16
32	Developing hierarchically ultra-micro/mesoporous biocarbons for highly selective carbon dioxide adsorption. Chemical Engineering Journal, 2019, 361, 199-208.	12.7	79
33	An investigation of lime addition to fuel as a countermeasure to bed agglomeration for the combustion of non-woody biomass fuels in a 20kWth bubbling fluidised bed combustor. Fuel, 2019, 240, 349-361.	6.4	25
34	Experimental Investigation of Oxy-coal Combustion in a 15 kW _{th} Pressurized Fluidized Bed Combustor. Energy & Fuels, 2019, 33, 1694-1703.	5.1	24
35	High Density and Super Ultraâ€Microporousâ€Activated Carbon Macrospheres with High Volumetric Capacity for CO ₂ Capture. Advanced Sustainable Systems, 2018, 2, 1700115.	5.3	30
36	Oxy-fuel combustion study of biomass fuels in a 20†kWth fluidized bed combustor. Fuel, 2018, 215, 778-786.	6.4	124

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37	Studies on combustion behaviours of single biomass particles using a visualization method. Biomass and Bioenergy, 2018, 109, 54-60.	5.7	33
38	Catalytic and non-catalytic synergistic effects and their individual contributions to improved combustion performance of coal/biomass blends. Applied Energy, 2018, 211, 334-345.	10.1	30
39	A review of the applications of phase change materials in cooling, heating and power generation in different temperature ranges. Applied Energy, 2018, 220, 242-273.	10.1	434
40	Coupling detailed radiation model with process simulation in Aspen Plus: A case study on fluidized bed combustor. Applied Energy, 2018, 227, 168-179.	10.1	18
41	Emergy analysis for transportation fuels produced from corn stover in China. Journal of Cleaner Production, 2018, 174, 213-225.	9.3	10
42	Total environmental impacts of biofuels from corn stover using a hybrid life cycle assessment model combining process life cycle assessment and economic input–output life cycle assessment. Integrated Environmental Assessment and Management, 2018, 14, 139-149.	2.9	15
43	Synthesis and functionalisation of spherical meso-, hybrid meso/macro- and macro-porous cellular silica foam materials with regulated pore sizes for CO ₂ capture. Journal of Materials Chemistry A, 2018, 6, 23587-23601.	10.3	32
44	Prediction of In-Situ Gasification Chemical Looping Combustion Effects of Operating Conditions. Catalysts, 2018, 8, 526.	3.5	9
45	Integrated semi-transparent cadmium telluride photovoltaic glazing into windows: Energy and daylight performance for different architecture designs. Applied Energy, 2018, 231, 972-984.	10.1	86
46	Removal of Toluene as a Biomass Tar Surrogate in a Catalytic Nonthermal Plasma Process. Energy & Fuels, 2018, 32, 10709-10719.	5.1	28
47	Experimental investigation on the coal combustion in a pressurized fluidized bed. Energy, 2018, 165, 1119-1128.	8.8	41
48	Characterising pulverised fuel ignition in a visual drop tube furnace by use of a high-speed imaging technique. Fuel Processing Technology, 2017, 157, 1-11.	7.2	30
49	Dynamic Experimental Investigation on the Volatilization Behavior of Lead and Cadmium in the Simulated Municipal Solid Waste (MSW) Influenced by Sulfur Compounds during Incineration. Energy & Fuels, 2017, 31, 847-853.	5.1	8
50	Combustion behavior profiling of single pulverized coal particles in a drop tube furnace through high-speed imaging and image analysis. Experimental Thermal and Fluid Science, 2017, 85, 322-330.	2.7	27
51	A novel index for the study of synergistic effects during the co-processing of coal and biomass. Applied Energy, 2017, 188, 215-225.	10.1	80
52	Process simulations of post-combustion CO 2 capture for coal and natural gas-fired power plants using a polyethyleneimine/silica adsorbent. International Journal of Greenhouse Gas Control, 2017, 58, 276-289.	4.6	34
53	Three-Dimensional Full Loop Modeling and Optimization of an in Situ Gasification Chemical Looping Combustion System. Energy & Fuels, 2017, 31, 13859-13870.	5.1	29
54	Advanced materials for the impeller in an ORC radial microturbine. Energy Procedia, 2017, 129, 1047-1054.	1.8	20

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55	CO2 Sorption Characteristics of Various Sorbents in the Bubbling Fluidized-Bed. Energy Procedia, 2017, 114, 2336-2340.	1.8	0
56	Multiple-relaxation-time lattice Boltzmann simulation for flow, mass transfer, and adsorption in porous media. Physical Review E, 2017, 96, 013313.	2.1	17
57	Further Improvement of Fluidized Bed Models by Incorporating Zone Method with Aspen Plus Interface. Energy Procedia, 2017, 105, 1895-1901.	1.8	3
58	Experimental investigation of woody and non-woody biomass combustion in a bubbling fluidised bed combustor focusing on gaseous emissions and temperature profiles. Energy, 2017, 141, 2069-2080.	8.8	74
59	Potassium and Zeolitic Structure Modified Ultra-microporous Adsorbent Materials from a Renewable Feedstock with Favorable Surface Chemistry for CO ₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 26826-26839.	8.0	36
60	Evaluation of Mixing and Mixing Rate in a Multiple Spouted Bed by Image Processing Technique. International Journal of Chemical Reactor Engineering, 2017, 15, .	1.1	3
61	Investigation of the Optical Performance of a Novel Planar Static PV Concentrator with Lambertian Rear Reflectors. Buildings, 2017, 7, 88.	3.1	8
62	Parametric study on the regeneration heat requirement of an amine-based solid adsorbent process for post-combustion carbon capture. Applied Energy, 2016, 168, 394-405.	10.1	136
63	Measurement of coal particle combustion behaviors in a drop tube furnace through high-speed imaging and image processing. , 2016, , .		4
64	Experimental Evaluation of a Novel 20 kW _{th} in Situ Gasification Chemical Looping Combustion Unit with an Iron Ore as the Oxygen Carrier. Industrial & Engineering Chemistry Research, 2016, 55, 11775-11784.	3.7	32
65	Experimental Evaluation of a Chinese Sulfur-Containing Lean Iron Ore as the Oxygen Carrier for Chemical-Looping Combustion. Industrial & Engineering Chemistry Research, 2016, 55, 428-435.	3.7	11
66	Optimization of in Situ Gasification Chemical Looping Combustion through Experimental Investigations with a Cold Experimental System. Industrial & Engineering Chemistry Research, 2015, 54, 5749-5758.	3.7	21
67	Spherical potassium intercalated activated carbon beads for pulverised fuel CO2 post-combustion capture. Carbon, 2015, 94, 243-255.	10.3	65
68	Surface-modified spherical activated carbon materials for pre-combustion carbon dioxide capture. RSC Advances, 2015, 5, 33681-33690.	3.6	41
69	Coking and deactivation of a mesoporous Ni–CaO–ZrO2 catalyst in dry reforming of methane: A study under different feeding compositions. Fuel, 2015, 143, 527-535.	6.4	90
70	Performance of polyethyleneimine–silica adsorbent for post-combustion CO2 capture in a bubbling fluidized bed. Chemical Engineering Journal, 2014, 251, 293-303.	12.7	79
71	Micro-scale ORC-based combined heat and power system using a novel scroll expander. International Journal of Low-Carbon Technologies, 2014, 9, 91-99.	2.6	28
72	Nitrogen-enriched and hierarchically porous carbon macro-spheres – ideal for large-scale CO ₂ capture. Journal of Materials Chemistry A, 2014, 2, 5481-5489.	10.3	66

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73	GAS-SOLID FLOW BEHAVIOR IN A PRESSURIZED HIGH-FLUX CIRCULATING FLUIDIZED BED RISER. Chemical Engineering Communications, 2014, 201, 352-366.	2.6	19
74	Three-Dimensional Eulerian–Eulerian Modeling of Gaseous Pollutant Emissions from Circulating Fluidized-Bed Combustors. Energy & Fuels, 2014, 28, 5523-5533.	5.1	30
75	The Properties of Individual Carbon Residuals and Their Influence on The Deactivation of Ni–CaO–ZrO ₂ Catalysts in CH ₄ Dry Reforming. ChemCatChem, 2014, 6, 640-648.	3.7	69
76	Capturing CO2 from ambient air using a polyethyleneimine–silica adsorbent in fluidized beds. Chemical Engineering Science, 2014, 116, 306-316.	3.8	136
77	Development of Low-Cost Functional Adsorbents for Control of Mercury (Hg) Emissions from Coal Combustion. Energy & Fuels, 2013, 27, 3875-3882.	5.1	37
78	CO ₂ Capture with Activated Carbon Grafted by Nitrogenous Functional Groups. Energy & Fuels, 2013, 27, 4818-4823.	5.1	67
79	Industrial polymer effluent treatment by chemical coagulation and flocculation. Journal of Environmental Chemical Engineering, 2013, 1, 684-689.	6.7	129
80	Synthesis, characterization and evaluation of activated spherical carbon materials for CO2 capture. Fuel, 2013, 113, 854-862.	6.4	47
81	Enhanced conductivity of reduced graphene oxide decorated with aluminium oxide nanoparticles by oxygen annealing. Nanoscale, 2013, 5, 5725.	5.6	15
82	Control of NOx emissions of a domestic/small-scale biomass pellet boiler by air staging. Fuel, 2013, 103, 792-798.	6.4	98
83	Experimental Investigation on Flow Behaviors in a Novel In Situ Gasification Chemical Looping Combustion Apparatus. Industrial & Engineering Chemistry Research, 2013, 52, 14208-14218.	3.7	14
84	Gas cleaning strategies for biomass gasification product gas. International Journal of Low-Carbon Technologies, 2012, 7, 69-74.	2.6	40
85	An overview of CFD modelling of small-scale fixed-bed biomass pellet boilers with preliminary results from a simplified approach. Energy Conversion and Management, 2012, 63, 149-156.	9.2	92
86	Experimental investigation of a biomass-fired ORC-based micro-CHP for domestic applications. Fuel, 2012, 96, 374-382.	6.4	202
87	Comparative performance of â€~U-tube' and â€~coaxial' loop designs for use with a ground source heat pump. Applied Thermal Engineering, 2012, 37, 190-195.	6.0	48
88	Factors Affecting NO Reduction during O ₂ /CO ₂ Combustion. Energy & Fuels, 2011, 25, 2487-2492.	5.1	12
89	Expanders for micro-CHP systems with organic Rankine cycle. Applied Thermal Engineering, 2011, 31, 3301-3307.	6.0	267
90	A biomass-fired micro-scale CHP system with organic Rankine cycle (ORC) – Thermodynamic modelling studies. Biomass and Bioenergy, 2011, 35, 3985-3994.	5.7	150

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91	Modeling of NO conversion during combustion under high CO2 concentration using detailed chemical kinetics. Fuel Processing Technology, 2011, 92, 939-945.	7.2	11
92	Carbon-capture and storage benefits: NO <inf>x</inf> reduction in O <inf>2</inf> /CO <inf>2</inf> pulverized fuel combustion. , 2011, , .		0
93	An investigation of the heat pump performance and ground temperature of a piled foundation heat exchanger system for a residential building. Energy, 2010, 35, 4932-4940.	8.8	94
94	Experimental and modeling study of NO emission under high CO2 concentration. Science China Technological Sciences, 2010, 53, 3275-3283.	4.0	3
95	Predictions of the impurities in the CO2 stream of an oxy-coal combustion plant. Applied Energy, 2010, 87, 3162-3170.	10.1	74
96	A Comparison of Combustion of Coal Chars in O2/CO2 and O2/N2 Mixtures - Isothermal TGA Studies. International Journal of Chemical Reactor Engineering, 2009, 7, .	1.1	2
97	Development of small-scale and micro-scale biomass-fuelled CHP systems – A literature review. Applied Thermal Engineering, 2009, 29, 2119-2126.	6.0	320
98	Combustion of Coal Chars in O ₂ /CO ₂ and O ₂ /N ₂ Mixtures: A Comparative Study with Non-isothermal Thermogravimetric Analyzer (TGA) Tests. Energy & Fuels, 2009, 23, 4278-4285.	5.1	77
99	Comparisons of pulverized coal combustion in air and in mixtures of O/CO. Fuel, 2005, 84, 833-840.	6.4	272
100	Pulverized coal combustion in air and in O/CO mixtures with NO recycle. Fuel, 2005, 84, 2109-2115.	6.4	103
101	COAL PROPERTY EFFECTS ON N2O AND NOxFORMATION FROM CIRCULATING FLUIDIZED BED COMBUSTION OF COAL. Chemical Engineering Communications, 2005, 192, 1482-1489.	2.6	24
102	Modeling NH3 and HCN emissions from biomass circulating fluidized bed gasifiersâ~†. Fuel, 2003, 82, 1591-1604.	6.4	79
103	Modeling of NH3 and HCN Emissions From Biomass CFB Gasifiers. , 2003, , 547.		0
104	Modelling of NO and N2O emissions from biomass-fired circulating fluidized bed combustors. Fuel, 2002, 81, 271-280.	6.4	103
105	Reduction of N2O emissions from a coal-fired circulating fluidised bed combustor by afterburning. Fuel, 1998, 77, 1579-1587.	6.4	23
106	Evaluation of the optimal fuel characteristics for efficient NO reduction by coal reburning. Fuel, 1997, 76, 985-993.	6.4	68