Yasir Al-Abdeli

List of Publications by Year
in descending order

50 papers	2,120 citations	201674 27 h-index	233421 45 g-index
50 all docs	50 docs citations	50 times ranked	1409 citing authors

#	Article	IF	Citations
1	Torrefaction of Densified Woody Biomass: The Effect of Pellet Size on Thermochemical and Thermophysical Characteristics. Bioenergy Research, 2022, 15, 544-558.	3.9	7
2	Optimal sizing and energy scheduling of grid-supplemented solar PV systems with battery storage: Sensitivity of reliability and financial constraints. Energy, 2022, 238, 121780.	8.8	36
3	Investigation of a hybrid renewable-based grid-independent electricity-heat nexus: Impacts of recovery and thermally storing waste heat and electricity. Energy Conversion and Management, 2022, 252, 115073.	9.2	11
4	Methodology for spatially resolved transient convection processes using infrared thermography. Experimental Heat Transfer, 2021, 34, 269-292.	3.2	12
5	Flow and heat transfer characteristics of turbulent swirling impinging jets. Applied Thermal Engineering, 2021, 196, 117357.	6.0	9
6	Integrating renewables into stand-alone hybrid systems meeting electric, heating, and cooling loads: A case study. Renewable Energy, 2021, 180, 1222-1236.	8.9	14
7	Nozzle exit conditions and the heat transfer in non-swirling and weakly swirling turbulent impinging jets. Heat and Mass Transfer, 2020, 56, 269-290.	2.1	11
8	Evaporation rates and temperature distributions in fine droplet flash evaporation sprays. International Journal of Thermal Sciences, 2019, 145, 106037.	4.9	18
9	Experimental and mathematical investigations of spray angle and droplet sizes of a flash evaporation desalination system. Powder Technology, 2019, 355, 542-551.	4.2	31
10	Performance improvement of spray flash evaporation desalination systems using multiple nozzle arrangement. Applied Thermal Engineering, 2019, 163, 114385.	6.0	18
11	Transient heat transfer characteristics of swirling and non-swirling turbulent impinging jets. Experimental Thermal and Fluid Science, 2019, 109, 109917.	2.7	10
12	Modal decomposition of flow fields and convective heat transfer maps: An application to wall-proximity square ribs. Experimental Thermal and Fluid Science, 2019, 102, 517-527.	2.7	12
13	Effects of battery technology and load scalability on stand-alone PV/ICE hybrid micro-grid system performance. Energy, 2019, 168, 57-69.	8.8	62
14	Effect of load following strategies, hardware, and thermal load distribution on stand-alone hybrid CCHP systems. Applied Energy, 2018, 220, 735-753.	10.1	61
15	Effects of the stroke length and nozzle-to-plate distance on synthetic jet impingement heat transfer. International Journal of Heat and Mass Transfer, 2018, 117, 1019-1031.	4.8	83
16	Methodologies for Processing Fixed Bed Combustor Data. Combustion Science and Technology, 2017, 189, 79-102.	2.3	9
17	Towards enabling time-resolved measurements of turbulent convective heat transfer maps with IR thermography and a heated thin foil. International Journal of Heat and Mass Transfer, 2017, 108, 199-209.	4.8	14
18	Flow field and thermal behaviour in swirling and non-swirling turbulent impinging jets. International Journal of Thermal Sciences, 2017, 114, 241-256.	4.9	55

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19	Optimisation of stand-alone hybrid energy systems supplemented by combustion-based prime movers. Applied Energy, 2017, 196, 18-33.	10.1	72
20	Effect of freeboard deflectors on the exergy in a fixed bed combustor. Applied Thermal Engineering, 2017, 118, 62-72.	6.0	5
21	Optimisation of stand-alone hybrid CHP systems meeting electric and heating loads. Energy Conversion and Management, 2017, 153, 391-408.	9.2	60
22	Flipped Classes: Drivers for Change, Transition and Implementation. , 2017, , 193-209.		1
23	Predictive power management strategies for stand-alone hydrogen systems: Operational impact. International Journal of Hydrogen Energy, 2016, 41, 6685-6698.	7.1	44
24	Heat transfer characteristics of swirling and non-swirling impinging turbulent jets. International Journal of Heat and Mass Transfer, 2016, 102, 991-1003.	4.8	54
25	Effect of freeboard deflectors in the fixed bed combustion of biomass. Applied Thermal Engineering, 2016, 103, 543-552.	6.0	27
26	Corrections of dual-wire CTA data in turbulent swirling and non-swirling jets. Experimental Thermal and Fluid Science, 2016, 70, 166-175.	2.7	13
27	Influence of neural network training parameters on short-term wind forecasting. International Journal of Sustainable Energy, 2016, 35, 115-131.	2.4	8
28	An overview of processes and considerations in the modelling ofÂfixed-bed biomass combustion. Energy, 2015, 88, 946-972.	8.8	106
29	Impingement pressure characteristics of swirling and non-swirling turbulent jets. Experimental Thermal and Fluid Science, 2015, 68, 722-732.	2.7	45
30	The effect of inflow conditions on the development of non-swirling versus swirling impinging turbulent jets. Computers and Fluids, 2015, 118, 255-273.	2.5	37
31	Predictive power management strategies for stand-alone hydrogen systems: Lab-scale validation. International Journal of Hydrogen Energy, 2015, 40, 9907-9916.	7.1	43
32	Multi-objective optimisation of renewable hybrid energy systems with desalination. Energy, 2015, 88, 457-468.	8.8	86
33	Effect of freeboard deflectors on the temperature distribution inÂpacked beds. Applied Thermal Engineering, 2015, 89, 134-143.	6.0	12
34	Review of laboratory swirl burners and experiments for model validation. Experimental Thermal and Fluid Science, 2015, 69, 178-196.	2.7	73
35	The interplay between renewables penetration, costing and emissions in the sizing of stand-alone hydrogen systems. International Journal of Hydrogen Energy, 2015, 40, 125-135.	7.1	67
36	Time and phase average heat transfer in single and twin circular synthetic impinging air jets. International Journal of Heat and Mass Transfer, 2014, 73, 776-788.	4.8	67

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37	Thermo-fluid-dynamics of submerged jets impinging at short nozzle-to-plate distance: A review. Experimental Thermal and Fluid Science, 2014, 58, 15-35.	2.7	168
38	The impact of using Particle Swarm Optimisation on the operational characteristics of a stand-alone hydrogen system with on-site water production. International Journal of Hydrogen Energy, 2014, 39, 15307-15319.	7.1	7
39	The effects of including intricacies in the modelling of a small-scale solar-PV reverse osmosis desalination system. Desalination, 2013, 311, 127-136.	8.2	39
40	The impact of renewable energy intermittency on the operational characteristics of a stand-alone hydrogen generation system with on-site water production. International Journal of Hydrogen Energy, 2013, 38, 12253-12265.	7.1	34
41	On the near field of single and twin circular synthetic air jets. International Journal of Heat and Fluid Flow, 2013, 44, 41-52.	2.4	53
42	Three-dimensional vortex dynamics and convective heat transfer in circular and chevron impinging jets. International Journal of Heat and Fluid Flow, 2012, 37, 22-36.	2.4	113
43	Heat transfer rate and uniformity in multichannel swirling impinging jets. Applied Thermal Engineering, 2012, 49, 89-98.	6.0	94
44	TURBULENT SWIRLING NATURAL GAS FLAMES: STABILITY CHARACTERISTICS, UNSTEADY BEHAVIOR AND VORTEX BREAKDOWN. Combustion Science and Technology, 2007, 179, 207-225.	2.3	27
45	Turbulenceâ€“chemistry interactions in non-premixed swirling flames. Combustion Theory and Modelling, 2007, 11, 653-673.	1.9	44
46	Time-varying behaviour of turbulent swirling nonpremixed flames. Combustion and Flame, 2006, 146, 200-214.	5.2	28
47	PRECESSION AND RECIRCULATION IN TURBULENT SWIRLING ISOTHERMAL JETS. Combustion Science and Technology, 2004, 176, 645-665.	2.3	55
48	Recirculation and flowfield regimes of unconfined non-reacting swirling flows. Experimental Thermal and Fluid Science, 2003, 27, 655-665.	2.7	85
49	Stability characteristics and flowfields of turbulent non-premixed swirling flames. Combustion Theory and Modelling, 2003, 7, 731-766.	1.9	77
50	Effect of side dilution jets on the velocity field and mixing in swirl and bluff-body stabilised annular confined flows. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 0, , 095765092211155.	1.4	3