

Yasir Al-Abdeli

List of Publications by Year in descending order

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Version: 2024-02-01

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	Thermo-fluid-dynamics of submerged jets impinging at short nozzle-to-plate distance: A review. <i>Experimental Thermal and Fluid Science</i> , 2014, 58, 15-35.	2.7	168
2	Three-dimensional vortex dynamics and convective heat transfer in circular and chevron impinging jets. <i>International Journal of Heat and Fluid Flow</i> , 2012, 37, 22-36.	2.4	113
3	An overview of processes and considerations in the modelling of fixed-bed biomass combustion. <i>Energy</i> , 2015, 88, 946-972.	8.8	106
4	Heat transfer rate and uniformity in multichannel swirling impinging jets. <i>Applied Thermal Engineering</i> , 2012, 49, 89-98.	6.0	94
5	Multi-objective optimisation of renewable hybrid energy systems with desalination. <i>Energy</i> , 2015, 88, 457-468.	8.8	86
6	Recirculation and flowfield regimes of unconfined non-reacting swirling flows. <i>Experimental Thermal and Fluid Science</i> , 2003, 27, 655-665.	2.7	85
7	Effects of the stroke length and nozzle-to-plate distance on synthetic jet impingement heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 1019-1031.	4.8	83
8	Stability characteristics and flowfields of turbulent non-premixed swirling flames. <i>Combustion Theory and Modelling</i> , 2003, 7, 731-766.	1.9	77
9	Review of laboratory swirl burners and experiments for model validation. <i>Experimental Thermal and Fluid Science</i> , 2015, 69, 178-196.	2.7	73
10	Optimisation of stand-alone hybrid energy systems supplemented by combustion-based prime movers. <i>Applied Energy</i> , 2017, 196, 18-33.	10.1	72
11	Time and phase average heat transfer in single and twin circular synthetic impinging air jets. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 776-788.	4.8	67
12	The interplay between renewables penetration, costing and emissions in the sizing of stand-alone hydrogen systems. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 125-135.	7.1	67
13	Effects of battery technology and load scalability on stand-alone PV/ICE hybrid micro-grid system performance. <i>Energy</i> , 2019, 168, 57-69.	8.8	62
14	Effect of load following strategies, hardware, and thermal load distribution on stand-alone hybrid CCHP systems. <i>Applied Energy</i> , 2018, 220, 735-753.	10.1	61
15	Optimisation of stand-alone hybrid CHP systems meeting electric and heating loads. <i>Energy Conversion and Management</i> , 2017, 153, 391-408.	9.2	60
16	PRECESSION AND RECIRCULATION IN TURBULENT SWIRLING ISOTHERMAL JETS. <i>Combustion Science and Technology</i> , 2004, 176, 645-665.	2.3	55
17	Flow field and thermal behaviour in swirling and non-swirling turbulent impinging jets. <i>International Journal of Thermal Sciences</i> , 2017, 114, 241-256.	4.9	55
18	Heat transfer characteristics of swirling and non-swirling impinging turbulent jets. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 991-1003.	4.8	54

#	ARTICLE	IF	CITATIONS
19	On the near field of single and twin circular synthetic air jets. <i>International Journal of Heat and Fluid Flow</i> , 2013, 44, 41-52.	2.4	53
20	Impingement pressure characteristics of swirling and non-swirling turbulent jets. <i>Experimental Thermal and Fluid Science</i> , 2015, 68, 722-732.	2.7	45
21	Turbulence-chemistry interactions in non-premixed swirling flames. <i>Combustion Theory and Modelling</i> , 2007, 11, 653-673.	1.9	44
22	Predictive power management strategies for stand-alone hydrogen systems: Operational impact. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6685-6698.	7.1	44
23	Predictive power management strategies for stand-alone hydrogen systems: Lab-scale validation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9907-9916.	7.1	43
24	The effects of including intricacies in the modelling of a small-scale solar-PV reverse osmosis desalination system. <i>Desalination</i> , 2013, 311, 127-136.	8.2	39
25	The effect of inflow conditions on the development of non-swirling versus swirling impinging turbulent jets. <i>Computers and Fluids</i> , 2015, 118, 255-273.	2.5	37
26	Optimal sizing and energy scheduling of grid-supplemented solar PV systems with battery storage: Sensitivity of reliability and financial constraints. <i>Energy</i> , 2022, 238, 121780.	8.8	36
27	The impact of renewable energy intermittency on the operational characteristics of a stand-alone hydrogen generation system with on-site water production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12253-12265.	7.1	34
28	Experimental and mathematical investigations of spray angle and droplet sizes of a flash evaporation desalination system. <i>Powder Technology</i> , 2019, 355, 542-551.	4.2	31
29	Time-varying behaviour of turbulent swirling nonpremixed flames. <i>Combustion and Flame</i> , 2006, 146, 200-214.	5.2	28
30	TURBULENT SWIRLING NATURAL GAS FLAMES: STABILITY CHARACTERISTICS, UNSTEADY BEHAVIOR AND VORTEX BREAKDOWN. <i>Combustion Science and Technology</i> , 2007, 179, 207-225.	2.3	27
31	Effect of freeboard deflectors in the fixed bed combustion of biomass. <i>Applied Thermal Engineering</i> , 2016, 103, 543-552.	6.0	27
32	Evaporation rates and temperature distributions in fine droplet flash evaporation sprays. <i>International Journal of Thermal Sciences</i> , 2019, 145, 106037.	4.9	18
33	Performance improvement of spray flash evaporation desalination systems using multiple nozzle arrangement. <i>Applied Thermal Engineering</i> , 2019, 163, 114385.	6.0	18
34	Towards enabling time-resolved measurements of turbulent convective heat transfer maps with IR thermography and a heated thin foil. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 199-209.	4.8	14
35	Integrating renewables into stand-alone hybrid systems meeting electric, heating, and cooling loads: A case study. <i>Renewable Energy</i> , 2021, 180, 1222-1236.	8.9	14
36	Corrections of dual-wire CTA data in turbulent swirling and non-swirling jets. <i>Experimental Thermal and Fluid Science</i> , 2016, 70, 166-175.	2.7	13

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37	Effect of freeboard deflectors on the temperature distribution in packed beds. Applied Thermal Engineering, 2015, 89, 134-143.	6.0	12
38	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
39	Methodology for spatially resolved transient convection processes using infrared thermography. Experimental Heat Transfer, 2021, 34, 269-292.	3.2	12
40	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
41	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
42	Transient heat transfer characteristics of swirling and non-swirling turbulent impinging jets. Experimental Thermal and Fluid Science, 2019, 109, 109917.	2.7	10
43	Methodologies for Processing Fixed Bed Combustor Data. Combustion Science and Technology, 2017, 189, 79-102.	2.3	9
44	Flow and heat transfer characteristics of turbulent swirling impinging jets. Applied Thermal Engineering, 2021, 196, 117357.	6.0	9
45	Influence of neural network training parameters on short-term wind forecasting. International Journal of Sustainable Energy, 2016, 35, 115-131.	2.4	8
46	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
47	Torrefaction of Densified Woody Biomass: The Effect of Pellet Size on Thermochemical and Thermophysical Characteristics. Bioenergy Research, 2022, 15, 544-558.	3.9	7
48	Effect of freeboard deflectors on the exergy in a fixed bed combustor. Applied Thermal Engineering, 2017, 118, 62-72.	6.0	5
49	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
50	Flipped Classes: Drivers for Change, Transition and Implementation. , 2017, , 193-209.		1