

Mazlan Abdul Wahid

List of Publications by Year in descending order

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68
papers

3,899
citations

304368

22
h-index

182168

51
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68
all docs

68
docs citations

68
times ranked

4834
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen production from renewable and sustainable energy resources: Promising green energy carrier for clean development. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 850-866.	8.2	1,523
2	Hydrogen from solar energy, a clean energy carrier from a sustainable source of energy. <i>International Journal of Energy Research</i> , 2020, 44, 4110-4131.	2.2	272
3	A review on green energy potentials in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 533-545.	8.2	186
4	Effects of bluff body shape on the flame stability in premixed micro-combustion of hydrogen-air mixture. <i>Applied Thermal Engineering</i> , 2014, 67, 266-272.	3.0	164
5	Development of biogas combustion in combined heat and power generation. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 868-875.	8.2	161
6	Feasibility study of biogas production and utilization as a source of renewable energy in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 454-462.	8.2	142
7	A review on biomass-based hydrogen production for renewable energy supply. <i>International Journal of Energy Research</i> , 2015, 39, 1597-1615.	2.2	139
8	The scenario of greenhouse gases reduction in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 400-409.	8.2	112
9	Investigation of bluff-body micro-flameless combustion. <i>Energy Conversion and Management</i> , 2014, 88, 120-128.	4.4	106
10	Utilization of palm solid residue as a source of renewable and sustainable energy in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 621-632.	8.2	98
11	Biogas utilization: Experimental investigation on biogas flameless combustion in lab-scale furnace. <i>Energy Conversion and Management</i> , 2013, 74, 426-432.	4.4	94
12	An overview of phase change materials for construction architecture thermal management in hot and dry climate region. <i>Applied Thermal Engineering</i> , 2017, 112, 1240-1259.	3.0	93
13	An overview of renewable hydrogen production from thermochemical process of oil palm solid waste in Malaysia. <i>Energy Conversion and Management</i> , 2015, 94, 415-429.	4.4	92
14	Numerical investigation of biogas flameless combustion. <i>Energy Conversion and Management</i> , 2014, 81, 41-50.	4.4	83
15	Implementation of the eddy dissipation model of turbulent non-premixed combustion in OpenFOAM. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 363-367.	2.9	70
16	Pollutant in palm oil production process. <i>Journal of the Air and Waste Management Association</i> , 2015, 65, 773-781.	0.9	70
17	Necessity of biodiesel utilization as a source of renewable energy in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5732-5740.	8.2	61
18	Thermodynamic assessment of integrated biogas-based micro-power generation system. <i>Energy Conversion and Management</i> , 2016, 128, 104-119.	4.4	53

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19	The role of renewable and sustainable energy in the energy mix of Malaysia: a review. <i>International Journal of Energy Research</i> , 2014, 38, 1769-1792.	2.2	49
20	Effects of fuel composition on the economic performance of biogas-based power generation systems. <i>Applied Thermal Engineering</i> , 2018, 128, 1543-1554.	3.0	47
21	Renewable-based zero-carbon fuels for the use of power generation: A case study in Malaysia supported by updated developments worldwide. <i>Energy Reports</i> , 2021, 7, 1986-2020.	2.5	36
22	Modelling and exergoeconomic-environmental analysis of combined cycle power generation system using flameless burner for steam generation. <i>Energy Conversion and Management</i> , 2017, 135, 362-372.	4.4	31
23	Experimental study of using biogas in Pulse Detonation Engine with hydrogen enrichment. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15414-15424.	3.8	24
24	Utilization of biogas released from palm oil mill effluent for power generation using self-preheated reactor. <i>Energy Conversion and Management</i> , 2015, 105, 957-966.	4.4	21
25	Effects of Burner Configuration on the Characteristics of Biogas Flameless Combustion. <i>Combustion Science and Technology</i> , 2015, 187, 1240-1262.	1.2	19
26	Enhancement of exergy efficiency in combustion systems using flameless mode. <i>Energy Conversion and Management</i> , 2014, 86, 1154-1163.	4.4	18
27	Investigations of asymmetric non-premixed meso-scale vortex combustion. <i>Applied Thermal Engineering</i> , 2015, 81, 140-153.	3.0	16
28	Hydrogen as a battery for a rooftop household solar power generation unit. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25811-25826.	3.8	12
29	Hybrid solar flameless combustion system: Modeling and thermodynamic analysis. <i>Energy Conversion and Management</i> , 2018, 166, 146-155.	4.4	11
30	Numerical Study of Fluid Flow and Heat Transfer Enhancement of Nanofluids over Tube Bank. <i>Applied Mechanics and Materials</i> , 0, 388, 149-155.	0.2	9
31	Evaluation of Palm Oil Combustion Characteristics by Using the Chemical Equilibrium with Application (CEA) Software. <i>Applied Mechanics and Materials</i> , 2013, 388, 268-272.	0.2	8
32	Review of Numerical Studies on NO _x Emission in the Flameless Combustion. <i>Applied Mechanics and Materials</i> , 0, 388, 235-240.	0.2	8
33	Combustion of Biogas Released from Palm Oil Mill Effluent and the Effects of Hydrogen Enrichment on the Characteristics of the Biogas Flame. <i>Journal of Combustion</i> , 2015, 2015, 1-12.	0.5	7
34	Integrating a simplified P-N radiation model with EdmFoam1.5: Model assessment and validation. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 697-704.	2.9	6
35	Effects of Equivalence Ratio on Asymmetric Vortex Combustion in a Low NO _x Burner. <i>International Review of Mechanical Engineering</i> , 2015, 9, 476.	0.1	6
36	Coal fired power plant: A review on coal blending and emission issues. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	5

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37	Coal combustion analysis tool in coal fired power plant for slagging and fouling guidelines. AIP Conference Proceedings, 2019, , .	0.3	5
38	Emission and Combustion Characteristics of Hydrogen in Vortex Flame. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	5
39	Numerical Investigation of the Asymmetrical Vortex Combustor Running on Biogas. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 74, 1-18.	0.3	5
40	Direct thrust force measurement of pulse detonation engine. , 2012, , .		3
41	Reacting shock waves characteristics for biogas compared to other gaseous fuel. , 2012, , .		3
42	OPTIMIZING FLAME SYNTHESIS OF CARBON NANOTUBES: EXPERIMENTAL AND MODELLING PERSPECTIVES. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	3
43	Widespread production of bioenergy: land and water availability factors. Biofuels, 2017, 8, 623-632.	1.4	3
44	Dimensionless exergo-economic and emission parameters for biogas fueled gas turbine optimization. Journal of Cleaner Production, 2020, 262, 121153.	4.6	3
45	Initiation Characteristics of Rotating Supersonic Combustion Engine. Evergreen, 2021, 8, 177-181.	0.3	2
46	A single-step chemistry mechanism for biogas supersonic combustion velocity with nitrogen dilution. Journal of Thermal Analysis and Calorimetry, 2023, 148, 3019-3033.	2.0	2
47	Review of homogeneous charge compression ignition (HCCI) combustion engines and exhaust gas recirculation (EGR) effects on HCCI. AIP Conference Proceedings, 2012, , .	0.3	1
48	An integrated CFD simulation tool in naval architecture and offshore (NAO) engineering. , 2012, , .		1
49	Effects of Firing Mode on the Performance of Flameless Combustion: A Review Paper. Applied Mechanics and Materials, 0, 388, 206-212.	0.2	1
50	Early Flame Development in the Combustion of Droplet and Vapour Mixtures. Applied Mechanics and Materials, 2013, 388, 223-228.	0.2	1
51	NUMERICAL EVALUATION OF THERMO-HYDRAULIC PERFORMANCE IN FIN-AND-TUBE COMPACT HEAT EXCHANGERS WITH DIFFERENT TUBE CROSS-SECTIONS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	1
52	FLAMMABILITY AND BURNING RATES OF LOW QUALITY BIOGAS AT ATMOSPHERIC CONDITION. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	1
53	Visualization of reacting shock wave in single pulse supersonic combustion tube. AIP Conference Proceedings, 2019, , .	0.3	1
54	Development of liquid fueled flameless combustor. AIP Conference Proceedings, 2019, , .	0.3	1

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55	Ignition Characteristics of Supersonic Combustion. IOP Conference Series: Materials Science and Engineering, 2020, 884, 012107.	0.3	1
56	Predictive Numerical Analysis on the Mixing Characteristics in a Rotating Detonation Engine (RDE). Evergreen, 2021, 8, 123-130.	0.3	1
57	Effects of Air Entry of Swirling Flameless Combustion in a Low NOx Burner. International Review of Mechanical Engineering, 2016, 10, 87.	0.1	1
58	Flow Visualization of Flat and Curved Trapezoidal Winglet Vortex Generator in Fin-and-Tube Channel in Inline Arrangement. International Review of Mechanical Engineering, 2017, 11, 101.	0.1	1
59	THE EFFECT OF VORTEX GENERATOR BASE LENGTH ON THERMAL HYDRAULIC PERFORMANCE ACROSS FIN-AND-TUBE HEAT EXCHANGER. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	1
60	Experiments on Combustion Kernel Growth in Gaseous Explosions. , 2010, , .		0
61	Preface: The 4th International Meeting of Advances in Thermofluids (IMAT 2011). , 2012, , .		0
62	Simulation of Corrected Mass Flow and Non-Adiabatic Efficiency on a Turbocharger. Applied Mechanics and Materials, 0, 388, 23-28.	0.2	0
63	Numerical Study on Heat Transfer of Turbulent Flow in a Channel with Composite Arrangement Obstacles. Applied Mechanics and Materials, 0, 388, 161-168.	0.2	0
64	Combustion Characteristics of Inedible Vegetable Oil Biodiesel Fuels. Jurnal Teknologi (Sciences and Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	0
65	Impacts of inlet step on the performance of a micro-combustor. , 2015, , .		0
66	Development of rotating supersonic combustion engine with swirling air-fuel injection. AIP Conference Proceedings, 2019, , .	0.3	0
67	On the effects of fuel inlet configurations and equivalence ratio to the pre-heating stage of a liquid fuelled flameless swirl combustor. AIP Conference Proceedings, 2019, , .	0.3	0
68	Influence of asymmetric vortex mesoscale combustor configurations on the characteristics of biogas flameless combustion. Biomass Conversion and Biorefinery, 2024, 14, 2369-2388.	2.9	0