Seyed Ehsan Hosseini

List of Publications by Year
in descending order

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78 papers	5,333 citations	159585 30 h-index	123424 61 g-index
79 all docs	79 docs citations	79 times ranked	5920 citing authors

#	Article	IF	Citations
1	Transition away from fossil fuels toward renewables: lessons from Russia-Ukraine crisis. , 2022, 1, 2-5.		83
2	The US hydrogen fuel industry today and future. , 2022, 1, 1-1.		5
3	Sustainable energy and digital currencies: challenges and future prospect. , 2022, 1, 26-32.		6
4	Non-Premixed Liquid Fuel Air Flame in a Miniature Combustor with Modified Flow Aerodynamics. Smart Science, 2022, 10, 294-300.	3.2	2
5	Retrieving nuclear power plants by producing hydrogen. , 2022, 1, 1-2.		1
6	Hydrogen has found its way to become the fuel of the future. , 2022, 1, 11-12.		33
7	Design and analysis of a hybrid concentrated photovoltaic thermal system integrated with an organic Rankine cycle for hydrogen production. Journal of Thermal Analysis and Calorimetry, 2021, 144, 763-778.	3.6	16
8	Editorial: Energy and Resource Valorization of Biomass and Waste Toward Sustainable Environment via Thermochemical and Biological Application. Frontiers in Energy Research, 2021, 8, .	2.3	0
9	Sustainable Development of the Automobile Industry in the United States, Europe, and Japan with Special Focus on the Vehiclesâ€™ Power Sources. Energies, 2021, 14, 78.	3.1	13
10	Characteristics of liquid fuel combustion in a novel miniature vortex combustor. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1569-1578.	3.6	3
11	Hydrogen as a battery for a rooftop household solar power generation unit. International Journal of Hydrogen Energy, 2020, 45, 25811-25826.	7.1	12
12	An overview of development and challenges in hydrogen powered vehicles. International Journal of Green Energy, 2020, 17, 13-37.	3.8	158
13	Hydrogen from solar energy, a clean energy carrier from a sustainable source of energy. International Journal of Energy Research, 2020, 44, 4110-4131.	4.5	272
14	Recovery of energy losses using an online data-driven optimization technique. Energy Conversion and Management, 2020, 225, 113339.	9.2	5
15	Integrating a gas turbine system and a flameless boiler to make steam for hydrogen production in a solid oxide steam electrolyzer. Applied Thermal Engineering, 2020, 180, 115890.	6.0	16
16	An outlook on the global development of renewable and sustainable energy at the time of COVID-19. Energy Research and Social Science, 2020, 68, 101633.	6.4	213
17	Dimensionless exergo-economic and emission parameters for biogas fueled gas turbine optimization. Journal of Cleaner Production, 2020, 262, 121153.	9.3	3
18	Performance evaluation of a solarized gas turbine system integrated to a high temperature electrolyzer for hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 21068-21086.	7.1	12

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19	Design and analysis of renewable hydrogen production from biogas by integrating a gas turbine system and a solid oxide steam electrolyzer. Energy Conversion and Management, 2020, 211, 112760.	9.2	28
20	Hydrogen and Fuel Cells in Transport Road, Rail, Air, and Sea. , 2020, , .		2
21	Management criteria for green building in Malaysia; relative important index. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2601-2615.	2.3	9
22	Human Body Micro-power plant. Energy, 2019, 183, 16-24.	8.8	6
23	Hydrogen Fuel Cell Vehicles; Current Status and Future Prospect. Applied Sciences (Switzerland), 2019, 9, 2296.	2.5	367
24	Micro-power generation using micro-turbine (moving) and thermophotovoltaic (non-moving) systems. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2019, 233, 1085-1101.	1.4	18
25	Development of solar energy towards solar city Utopia. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2868-2881.	2.3	23
26	Computational Design and Optimization of Wind Farms using Analytical Derivatives. , 2019, , .		0
27	Editor in Chiefâ€™s Note on the Green Hydrogen Fuel from Solar / Wind Power. Journal of Management Science & Engineering Research, 2019, 2, .	0.3	0
28	Effects of fuel composition on the economic performance of biogas-based power generation systems. Applied Thermal Engineering, 2018, 128, 1543-1554.	6.0	47
29	Experimental Investigation into the Effects of Thermal Recuperation on the Combustion Characteristics of a Non-Premixed Meso-Scale Vortex Combustor. Energies, 2018, 11, 3390.	3.1	13
30	Performance improvement and energy consumption reduction in refrigeration systems using phase change material (PCM). Applied Thermal Engineering, 2018, 142, 723-735.	6.0	92
31	Hybrid solar flameless combustion system: Modeling and thermodynamic analysis. Energy Conversion and Management, 2018, 166, 146-155.	9.2	11
32	Modelling and exergoeconomic-environmental analysis of combined cycle power generation system using flameless burner for steam generation. Energy Conversion and Management, 2017, 135, 362-372.	9.2	31
33	Genetic algorithm for optimization of energy systems: Solution uniqueness, accuracy, Pareto convergence and dimension reduction. Energy, 2017, 119, 167-177.	8.8	38
34	Thermal performance and economic evaluation of a newly developed phase change material for effective building encapsulation. Energy Conversion and Management, 2017, 150, 48-61.	9.2	40
35	An overview of phase change materials for construction architecture thermal management in hot and dry climate region. Applied Thermal Engineering, 2017, 112, 1240-1259.	6.0	93
36	Phase Change Materials-Assisted Heat Flux Reduction: Experiment and Numerical Analysis. Energies, 2016, 9, 30.	3.1	16

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37	Performance Evaluation of Palm Oil-Based Biodiesel Combustion in an Oil Burner. Energies, 2016, 9, 97.	3.1	45
38	On the optimization of energy systems: Results utilization in the design process. Applied Energy, 2016, 178, 587-599.	10.1	19
39	Thermodynamic assessment of integrated biogas-based micro-power generation system. Energy Conversion and Management, 2016, 128, 104-119.	9.2	53
40	Optimum lipid production using agro-industrial wastewater treated microalgae as biofuel substrate. Clean Technologies and Environmental Policy, 2016, 18, 2513-2523.	4.1	52
41	Hydrogen production from renewable and sustainable energy resources: Promising green energy carrier for clean development. Renewable and Sustainable Energy Reviews, 2016, 57, 850-866.	16.4	1,523
42	Impacts of inlet step on the performance of a micro-combustor. , 2015, , .		0
43	Experimental and numerical investigations of biogas vortex combustion. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2015, 229, 662-676.	1.4	5
44	A review on biomass-based hydrogen production for renewable energy supply. International Journal of Energy Research, 2015, 39, 1597-1615.	4.5	139
45	Clean Fuel, Clean Energy Conversion Technology: Experimental and Numerical Investigation of Palm Oil Mill Effluent Biogas Flameless Combustion. BioResources, 2015, 10, .	1.0	4
46	Combustion of Biogas Released from Palm Oil Mill Effluent and the Effects of Hydrogen Enrichment on the Characteristics of the Biogas Flame. Journal of Combustion, 2015, 2015, 1-12.	1.0	7
47	The Effects of Air Preheating and Fuel/Air Inlet Diameter on the Characteristics of Vortex Flame. Journal of Energy, 2015, 2015, 1-10.	3.2	3
48	Effects of Burner Configuration on the Characteristics of Biogas Flameless Combustion. Combustion Science and Technology, 2015, 187, 1240-1262.	2.3	19
49	An overview of renewable hydrogen production from thermochemical process of oil palm solid waste in Malaysia. Energy Conversion and Management, 2015, 94, 415-429.	9.2	92
50	Pollutant in palm oil production process. Journal of the Air and Waste Management Association, 2015, 65, 773-781.	1.9	70
51	Investigations of asymmetric non-premixed meso-scale vortex combustion. Applied Thermal Engineering, 2015, 81, 140-153.	6.0	16
52	Vortex combustion and heat transfer in meso-scale with thermal recuperation. International Communications in Heat and Mass Transfer, 2015, 66, 250-258.	5.6	8
53	Utilization of biogas released from palm oil mill effluent for power generation using self-preheated reactor. Energy Conversion and Management, 2015, 105, 957-966.	9.2	21
54	Impacts of inner/outer reactor heat recirculation on the characteristic of micro-scale combustion system. Energy Conversion and Management, 2015, 105, 45-53.	9.2	69

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55	Optimization and the effect of steam turbine outlet quality on the output power of a combined cycle power plant. Energy Conversion and Management, 2015, 89, 231-243.	9.2	72
56	Effects of Hydrogen Addition on the Entropy Generation of Biogas Conventional Combustion. Jurnal Teknologi (Sciences and Engineering), 2014, 66, .	0.4	1
57	Combustion Characteristics of Inedible Vegetable Oil Biodiesel Fuels. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0.784314 rgBT /Over	0.4	0
58	Numerical investigation of biogas flameless combustion. Energy Conversion and Management, 2014, 81, 41-50.	9.2	83
59	The role of renewable and sustainable energy in the energy mix of Malaysia: a review. International Journal of Energy Research, 2014, 38, 1769-1792.	4.5	49
60	Enhancement of exergy efficiency in combustion systems using flameless mode. Energy Conversion and Management, 2014, 86, 1154-1163.	9.2	18
61	Investigation of bluff-body micro-flameless combustion. Energy Conversion and Management, 2014, 88, 120-128.	9.2	106
62	Utilization of palm solid residue as a source of renewable and sustainable energy in Malaysia. Renewable and Sustainable Energy Reviews, 2014, 40, 621-632.	16.4	98
63	Development of biogas combustion in combined heat and power generation. Renewable and Sustainable Energy Reviews, 2014, 40, 868-875.	16.4	161
64	Characteristics of biomass in flameless combustion: A review. Renewable and Sustainable Energy Reviews, 2014, 33, 363-370.	16.4	63
65	Effects of bluff body shape on the flame stability in premixed micro-combustion of hydrogenâ€“air mixture. Applied Thermal Engineering, 2014, 67, 266-272.	6.0	164
66	Emission and Combustion Characteristics of Hydrogen in Vortex Flame. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10	0.4	5
67	A review on green energy potentials in Iran. Renewable and Sustainable Energy Reviews, 2013, 27, 533-545.	16.4	186
68	The scenario of greenhouse gases reduction in Malaysia. Renewable and Sustainable Energy Reviews, 2013, 28, 400-409.	16.4	112
69	Biogas utilization: Experimental investigation on biogas flameless combustion in lab-scale furnace. Energy Conversion and Management, 2013, 74, 426-432.	9.2	94
70	Feasibility study of biogas production and utilization as a source of renewable energy in Malaysia. Renewable and Sustainable Energy Reviews, 2013, 19, 454-462.	16.4	142
71	Evaluation of Palm Oil Combustion Characteristics by Using the Chemical Equilibrium with Application (CEA) Software. Applied Mechanics and Materials, 2013, 388, 268-272.	0.2	8
72	Effect of diluted and preheated oxidizer on the emission of methane flameless combustion. , 2012, , .		11

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73	Necessity of biodiesel utilization as a source of renewable energy in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 5732-5740.	16.4	61
74	Effects of Firing Mode on the Performance of Flameless Combustion: A Review Paper. Applied Mechanics and Materials, 0, 388, 206-212.	0.2	1
75	The Role of Exhaust Gas Recirculation in Flameless Combustion. Applied Mechanics and Materials, 0, 388, 262-267.	0.2	5
76	Environmental Protection and Fuel Consumption Reduction by Flameless Combustion Technology: A Review. Applied Mechanics and Materials, 0, 388, 292-297.	0.2	8
77	Review of Numerical Studies on NO_x Emission in the Flameless Combustion. Applied Mechanics and Materials, 0, 388, 235-240.	0.2	8
78	Biogas Flameless Combustion: A Review. Applied Mechanics and Materials, 0, 388, 273-279.	0.2	45