

# 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	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.	16.4	1,523
2	Hydrogen Fuel Cell Vehicles; Current Status and Future Prospect. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2296.	2.5	367
3	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.	4.5	272
4	An outlook on the global development of renewable and sustainable energy at the time of COVID-19. <i>Energy Research and Social Science</i> , 2020, 68, 101633.	6.4	213
5	A review on green energy potentials in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 27, 533-545.	16.4	186
6	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.	6.0	164
7	Development of biogas combustion in combined heat and power generation. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 40, 868-875.	16.4	161
8	An overview of development and challenges in hydrogen powered vehicles. <i>International Journal of Green Energy</i> , 2020, 17, 13-37.	3.8	158
9	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.	16.4	142
10	A review on biomass-based hydrogen production for renewable energy supply. <i>International Journal of Energy Research</i> , 2015, 39, 1597-1615.	4.5	139
11	The scenario of greenhouse gases reduction in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 400-409.	16.4	112
12	Investigation of bluff-body micro-flameless combustion. <i>Energy Conversion and Management</i> , 2014, 88, 120-128.	9.2	106
13	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.	16.4	98
14	Biogas utilization: Experimental investigation on biogas flameless combustion in lab-scale furnace. <i>Energy Conversion and Management</i> , 2013, 74, 426-432.	9.2	94
15	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.	6.0	93
16	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.	9.2	92
17	Performance improvement and energy consumption reduction in refrigeration systems using phase change material (PCM). <i>Applied Thermal Engineering</i> , 2018, 142, 723-735.	6.0	92
18	Numerical investigation of biogas flameless combustion. <i>Energy Conversion and Management</i> , 2014, 81, 41-50.	9.2	83

#	ARTICLE	IF	CITATIONS
19	Transition away from fossil fuels toward renewables: lessons from Russia-Ukraine crisis. , 2022, 1, 2-5.		83
20	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
21	Pollutant in palm oil production process. Journal of the Air and Waste Management Association, 2015, 65, 773-781.	1.9	70
22	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
23	Characteristics of biomass in flameless combustion: A review. Renewable and Sustainable Energy Reviews, 2014, 33, 363-370.	16.4	63
24	Necessity of biodiesel utilization as a source of renewable energy in Malaysia. Renewable and Sustainable Energy Reviews, 2012, 16, 5732-5740.	16.4	61
25	Thermodynamic assessment of integrated biogas-based micro-power generation system. Energy Conversion and Management, 2016, 128, 104-119.	9.2	53
26	Optimum lipid production using agro-industrial wastewater treated microalgae as biofuel substrate. Clean Technologies and Environmental Policy, 2016, 18, 2513-2523.	4.1	52
27	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
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	Biogas Flameless Combustion: A Review. Applied Mechanics and Materials, 0, 388, 273-279.	0.2	45
30	Performance Evaluation of Palm Oil-Based Biodiesel Combustion in an Oil Burner. Energies, 2016, 9, 97.	3.1	45
31	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
32	Genetic algorithm for optimization of energy systems: Solution uniqueness, accuracy, Pareto convergence and dimension reduction. Energy, 2017, 119, 167-177.	8.8	38
33	Hydrogen has found its way to become the fuel of the future. , 2022, 1, 11-12.		33
34	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
35	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
36	Development of solar energy towards solar city Utopia. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2868-2881.	2.3	23

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37	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.	9.2	21
38	Effects of Burner Configuration on the Characteristics of Biogas Flameless Combustion. <i>Combustion Science and Technology</i> , 2015, 187, 1240-1262.	2.3	19
39	On the optimization of energy systems: Results utilization in the design process. <i>Applied Energy</i> , 2016, 178, 587-599.	10.1	19
40	Enhancement of exergy efficiency in combustion systems using flameless mode. <i>Energy Conversion and Management</i> , 2014, 86, 1154-1163.	9.2	18
41	Micro-power generation using micro-turbine (moving) and thermophotovoltaic (non-moving) systems. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019, 233, 1085-1101.	1.4	18
42	Investigations of asymmetric non-premixed meso-scale vortex combustion. <i>Applied Thermal Engineering</i> , 2015, 81, 140-153.	6.0	16
43	Phase Change Materials-Assisted Heat Flux Reduction: Experiment and Numerical Analysis. <i>Energies</i> , 2016, 9, 30.	3.1	16
44	Integrating a gas turbine system and a flameless boiler to make steam for hydrogen production in a solid oxide steam electrolyzer. <i>Applied Thermal Engineering</i> , 2020, 180, 115890.	6.0	16
45	Design and analysis of a hybrid concentrated photovoltaic thermal system integrated with an organic Rankine cycle for hydrogen production. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 763-778.	3.6	16
46	Experimental Investigation into the Effects of Thermal Recuperation on the Combustion Characteristics of a Non-Premixed Meso-Scale Vortex Combustor. <i>Energies</i> , 2018, 11, 3390.	3.1	13
47	Sustainable Development of the Automobile Industry in the United States, Europe, and Japan with Special Focus on the Vehicles'™ Power Sources. <i>Energies</i> , 2021, 14, 78.	3.1	13
48	Hydrogen as a battery for a rooftop household solar power generation unit. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25811-25826.	7.1	12
49	Performance evaluation of a solarized gas turbine system integrated to a high temperature electrolyzer for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21068-21086.	7.1	12
50	Effect of diluted and preheated oxidizer on the emission of methane flameless combustion. , 2012, , .		11
51	Hybrid solar flameless combustion system: Modeling and thermodynamic analysis. <i>Energy Conversion and Management</i> , 2018, 166, 146-155.	9.2	11
52	Management criteria for green building in Malaysia; relative important index. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 2601-2615.	2.3	9
53	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
54	Environmental Protection and Fuel Consumption Reduction by Flameless Combustion Technology: A Review. <i>Applied Mechanics and Materials</i> , 0, 388, 292-297.	0.2	8

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55	Review of Numerical Studies on NO <sub>x</sub> Emission in the Flameless Combustion. Applied Mechanics and Materials, 0, 388, 235-240.	0.2	8
56	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
57	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
58	Human Body Micro-power plant. Energy, 2019, 183, 16-24.	8.8	6
59	Sustainable energy and digital currencies: challenges and future prospect. , 2022, 1, 26-32.		6
60	The Role of Exhaust Gas Recirculation in Flameless Combustion. Applied Mechanics and Materials, 0, 388, 262-267.	0.2	5
61	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
62	Recovery of energy losses using an online data-driven optimization technique. Energy Conversion and Management, 2020, 225, 113339.	9.2	5
63	Emission and Combustion Characteristics of Hydrogen in Vortex Flame. Jurnal Teknologi (Sciences and) Tj ETQq1 1 0,784314,rgBT /O 0.4	0.4	5
64	The US hydrogen fuel industry today and future. , 2022, 1, 1-1.		5
65	Clean Fuel, Clean Energy Conversion Technology: Experimental and Numerical Investigation of Palm Oil Mill Effluent Biogas Flameless Combustion. BioResources, 2015, 10, .	1.0	4
66	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
67	Characteristics of liquid fuel combustion in a novel miniature vortex combustor. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1569-1578.	3.6	3
68	Dimensionless exergo-economic and emission parameters for biogas fueled gas turbine optimization. Journal of Cleaner Production, 2020, 262, 121153.	9.3	3
69	Hydrogen and Fuel Cells in Transport Road, Rail, Air, and Sea. , 2020, , .		2
70	Non-Premixed Liquid Fuel Air Flame in a Miniature Combustor with Modified Flow Aerodynamics. Smart Science, 2022, 10, 294-300.	3.2	2
71	Effects of Firing Mode on the Performance of Flameless Combustion: A Review Paper. Applied Mechanics and Materials, 0, 388, 206-212.	0.2	1
72	Effects of Hydrogen Addition on the Entropy Generation of Biogas Conventional Combustion. Jurnal Teknologi (Sciences and Engineering), 2014, 66, .	0.4	1

#	ARTICLE	IF	CITATIONS
73	Retrieving nuclear power plants by producing hydrogen. , 2022, 1, 1-2.		1
74	Combustion Characteristics of Inedible Vegetable Oil Biodiesel Fuels. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf .	0.4	0
75	Impacts of inlet step on the performance of a micro-combustor. , 2015, , .		0
76	Computational Design and Optimization of Wind Farms using Analytical Derivatives. , 2019, , .		0
77	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
78	Editor in Chief's Note on the Green Hydrogen Fuel from Solar / Wind Power. Journal of Management Science & Engineering Research, 2019, 2, .	0.3	0