

Hagar Alm ElDin

List of Publications by Year in descending order

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40
papers

1,194
citations

430874

18
h-index

434195

31
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all docs

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docs citations

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times ranked

745
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental studies on the biodiesel production parameters optimization of sunflower and soybean oil mixture and DI engine combustion, performance, and emission analysis fueled with diesel/biodiesel blends. <i>Fuel</i> , 2019, 255, 115791.	6.4	169
2	Maximization of biodiesel production from sunflower and soybean oils and prediction of diesel engine performance and emission characteristics through response surface methodology. <i>Fuel</i> , 2020, 266, 117072.	6.4	143
3	Biodiesel production process optimization from <i>Pithecellobium dulce</i> seed oil: Performance, combustion, and emission analysis on compression ignition engine fuelled with diesel/biodiesel blends. <i>Energy Conversion and Management</i> , 2018, 161, 141-154.	9.2	109
4	Comparative study of the combustion, performance, and emission characteristics of a direct injection diesel engine with a partially premixed lean charge compression ignition diesel engines. <i>Fuel</i> , 2019, 249, 277-285.	6.4	64
5	Study of diesel-biodiesel blends combustion and emission characteristics in a CI engine by adding nanoparticles of Mn (II) supramolecular complex. <i>Atmospheric Pollution Research</i> , 2020, 11, 117-128.	3.8	47
6	Diesel/ biodiesel /silver thiocyanate nanoparticles/hydrogen peroxide blends as new fuel for enhancement of performance, combustion, and Emission characteristics of a diesel engine. <i>Energy</i> , 2021, 216, 119284.	8.8	45
7	An enhancement in the diesel engine performance, combustion, and emission attributes fueled by diesel-biodiesel and 3D silver thiocyanate nanoparticles additive fuel blends. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 124, 369-380.	5.3	45
8	Investigation of exergy and yield of a passive solar water desalination system with a parabolic concentrator incorporated with latent heat storage medium. <i>Energy Conversion and Management</i> , 2017, 145, 10-19.	9.2	43
9	Experimental study on combustion, performance, and emission behaviours of diesel /WCO biodiesel/Cyclohexane blends in DI-CI engine. <i>Chemical Engineering Research and Design</i> , 2021, 149, 684-697.	5.6	43
10	Optimization of the multi-carburant dose as an energy source for the application of the HCCI engine. <i>Fuel</i> , 2019, 253, 15-24.	6.4	40
11	Emission analysis on compression ignition engine fueled with lower concentrations of <i>Pithecellobium dulce</i> biodiesel-diesel blends. <i>Heat Transfer - Asian Research</i> , 2019, 48, 254-269.	2.8	38
12	Effect of cultivation parameters and heat management on the algae species growth conditions and biomass production in a continuous feedstock photobioreactor. <i>Renewable Energy</i> , 2020, 148, 807-815.	8.9	37
13	Kinetic modeling and experimental study on the combustion, performance and emission characteristics of a PCCI engine fueled with ethanol-diesel blends. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 927-937.	2.6	36
14	Study of performance, combustion, and emissions parameters of DI-diesel engine fueled with algae biodiesel/diesel/n-pentane blends. <i>Energy Conversion and Management: X</i> , 2021, 10, 100058.	1.6	35
15	WCO biodiesel production by heterogeneous catalyst and using cadmium (II)-based supramolecular coordination polymer additives to improve diesel/biodiesel fueled engine performance and emissions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6375-6391.	3.6	34
16	Investigation and performance analysis of water-diesel emulsion for improvement of performance and emission characteristics of partially premixed charge compression ignition (PPCCI) diesel engines. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 36, 100546.	2.7	33
17	Experimental investigation on the influences of acetone organic compound additives into the diesel/biodiesel mixture in CI engine. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 37, 100614.	2.7	31
18	Numerical and Experimental Investigation of Ethyl Alcohol as Oxygenator on the Combustion, Performance, and Emission Characteristics of Diesel/Cotton Seed Oil Blends in Homogenous Charge Compression Ignition Engine. , 0, , .		27

#	ARTICLE	IF	CITATIONS
19	A use of various phase change materials on the performance of solar still: a review. International Journal of Ambient Energy, 2021, 42, 1575-1580.	2.5	26
20	A comprehensive Modeling Study of Natural Gas (HCCI) Engine Combustion Enhancement by Using Hydrogen Addition. , 0, , .		21
21	A comprehensive review on the effects of diesel/biofuel blends with nanofluid additives on compression ignition engine by response surface methodology. Energy Conversion and Management: X, 2022, 14, 100177.	1.6	16
22	Influence of lean premixed ratio of PCCI-DI engine fueled by diesel/biodiesel blends on combustion, performance, and emission attributes; a comparison study. Energy Conversion and Management: X, 2021, 10, 100066.	1.6	14
23	HCCI Engines Combustion of CNG Fuel with DME and H ₂ Additives. , 0, , .		12
24	Experimental performance investigations on various orientations of evacuated double absorber tube for solar parabolic trough concentrator. International Journal of Ambient Energy, 2022, 43, 492-499.	2.5	12
25	Comparative analysis of the use of flash evaporator and solar still with a solar desalination system. International Journal of Ambient Energy, 2020, , 1-8.	2.5	9
26	The influences of loading ratios and conveying velocity on gas-solid two phase flow characteristics: a comprehensive experimental CFD-DEM study. International Journal of Ambient Energy, 2022, 43, 2714-2726.	2.5	8
27	Impacts of using EGR and different DI-fuels on RCCI engine emissions, performance, and combustion characteristics. Energy Conversion and Management: X, 2022, 15, 100236.	1.6	8
28	A Computational Study of Cavitation Model Validity Using a New Quantitative Criterion. Chinese Physics Letters, 2012, 29, 064703.	3.3	6
29	Study of combustion behaviors for dimethyl ether as an alternative fuel using CFD with detailed chemical kinetics. AEJ - Alexandria Engineering Journal, 2017, 56, 709-719.	6.4	6
30	Experimental investigations on spray flames and emissions analysis of diesel and diesel/biodiesel blends for combustion in oxy-fuel burner. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2375.	1.5	6
31	Industrial wastewater treatment by electrocoagulation powered by a solar photovoltaic system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-12.	2.3	6
32	Computational Evaluation of Nozzle Flow and Cavitation Characteristics in a Diesel Injector. SAE International Journal of Engines, 0, 5, 1605-1616.	0.4	5
33	An experimental and theoretical study on particles-in-air behavior characterization at different particles loading and turbulence modulation. AEJ - Alexandria Engineering Journal, 2019, 58, 451-465.	6.4	5
34	Fuel reactivity controlled compression ignition engine and potential strategies to extend the engine operating range: A comprehensive review. Energy Conversion and Management: X, 2022, 13, 100133.	1.6	4
35	Detailed Simulation of Liquid DME Homogenization and Combustion Behaviors in HCCI Engines. , 0, , .		3
36	Solid Particles Injection in Gas Turbulent Channel Flow. Energy and Power Engineering, 2016, 08, 367-388.	0.8	3

#	ARTICLE	IF	CITATIONS
37	Detailed 3D-CFD/Chemistry of CNG-Hydrogen Blend in HCCI Engine. , 2010, , .		2
38	Effect of nanocomposite SCP1 additive to waste cooking oil biodiesel as fuel enhancer on diesel engine performance and emission characteristics. Sustainable Energy Technologies and Assessments, 2022, 52, 102291.	2.7	2
39	COMPUTATIONAL STUDY OF DIFFERENT TURBULENCE MODELS FOR AIR IMPINGEMENT JET INTO MAIN AIR CROSS STREAM. , 2019, 46, 459-475.		1
40	Numerical Investigation of Combustion in HCCI Diesel Engine Fuelled with Biodiesel Blends. Journal of Engineering Research, 2019, 3, 1-10.	0.1	0