

# Omar I Awad

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,168  
citations

279701

23  
h-index

233338

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1879  
citing authors

#	ARTICLE	IF	CITATIONS
1	Alcohol and ether as alternative fuels in spark ignition engine: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2586-2605.	8.2	215
2	Alcohol based automotive fuels from first four alcohol family in compression and spark ignition engine: A review on engine performance and exhaust emissions. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 169-181.	8.2	187
3	A review on the application of response surface method and artificial neural network in engine performance and exhaust emissions characteristics in alternative fuel. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 665-686.	8.2	143
4	An Overview of Recent Advances in State-of-the-Art Techniques in the Demulsification of Crude Oil Emulsions. <i>Processes</i> , 2019, 7, 470.	1.3	112
5	Thermal performance of gas turbine power plant based on exergy analysis. <i>Applied Thermal Engineering</i> , 2017, 115, 977-985.	3.0	104
6	Overview of the oxygenated fuels in spark ignition engine: Environmental and performance. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 394-408.	8.2	102
7	Modeling of PV system and parameter extraction based on experimental data: Review and investigation. <i>Solar Energy</i> , 2020, 199, 742-760.	2.9	102
8	Response surface methodology (RSM) based multi-objective optimization of fusel oil -gasoline blends at different water content in SI engine. <i>Energy Conversion and Management</i> , 2017, 150, 222-241.	4.4	97
9	A comprehensive review on the exergy analysis of combined cycle power plants. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 835-850.	8.2	91
10	The optimum performance of the combined cycle power plant: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 459-474.	8.2	83
11	Application of response surface methodology in optimization of performance and exhaust emissions of secondary butyl alcohol-gasoline blends in SI engine. <i>Energy Conversion and Management</i> , 2017, 133, 178-195.	4.4	77
12	Particulate emissions from gasoline direct injection engines: A review of how current emission regulations are being met by automobile manufacturers. <i>Science of the Total Environment</i> , 2020, 718, 137302.	3.9	74
13	Using fusel oil as a blend in gasoline to improve SI engine efficiencies: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 1232-1242.	8.2	68
14	Overview of polyoxymethylene dimethyl ether additive as an eco-friendly fuel for an internal combustion engine: Current application and environmental impacts. <i>Science of the Total Environment</i> , 2020, 715, 136849.	3.9	68
15	NOx emissions prediction based on mutual information and back propagation neural network using correlation quantitative analysis. <i>Energy</i> , 2020, 198, 117286.	4.5	62
16	Experimental investigation of combustion, emissions and thermal balance of secondary butyl alcohol-gasoline blends in a spark ignition engine. <i>Energy Conversion and Management</i> , 2016, 123, 1-14.	4.4	50
17	The effect of adding fusel oil to diesel on the performance and the emissions characteristics in a single cylinder CI engine. <i>Journal of the Energy Institute</i> , 2017, 90, 382-396.	2.7	50
18	Prediction of emissions and performance of a gasoline engine running with fusel oil-gasoline blends using response surface methodology. <i>Fuel</i> , 2019, 253, 1-14.	3.4	45

#	ARTICLE	IF	CITATIONS
19	Environmental impacts of biodiesel production from waste spent coffee grounds and its implementation in a compression ignition engine. <i>Science of the Total Environment</i> , 2019, 675, 13-30.	3.9	45
20	Calorific value enhancement of fusel oil by moisture removal and its effect on the performance and combustion of a spark ignition engine. <i>Energy Conversion and Management</i> , 2017, 137, 86-96.	4.4	43
21	A Review of Optimization Algorithms in Solving Hydro Generation Scheduling Problems. <i>Energies</i> , 2020, 13, 2787.	1.6	32
22	Economic, technical, and environmental viability of biodiesel blends derived from coffee waste. <i>Renewable Energy</i> , 2020, 147, 1880-1894.	4.3	26
23	Effects of fusel oil water content reduction on fuel properties, performance and emissions of SI engine fueled with gasoline -fusel oil blends. <i>Renewable Energy</i> , 2018, 118, 858-869.	4.3	25
24	Performance and combustion characteristics of an SI engine fueled with fusel oil-gasoline at different water content. <i>Applied Thermal Engineering</i> , 2017, 123, 1374-1385.	3.0	24
25	Wavelet analysis of an SI engine cycle-to-cycle variations fuelled with the blending of gasoline -fusel oil at a various water content. <i>Energy Conversion and Management</i> , 2019, 183, 746-752.	4.4	24
26	Impact of fusel oil moisture reduction on the fuel properties and combustion characteristics of SI engine fueled with gasoline-fusel oil blends. <i>Renewable Energy</i> , 2018, 123, 79-91.	4.3	23
27	Impact of injector tip deposits on gasoline direct injection engine combustion, fuel economy and emissions. <i>Applied Energy</i> , 2020, 262, 114538.	5.1	23
28	The impacts of compression ratio on the performance and emissions of ice powered by oxygenated fuels: A review. <i>Journal of the Energy Institute</i> , 2018, 91, 19-32.	2.7	22
29	Combustion, performances and emissions characteristics of black soldier fly larvae oil and diesel blends in compression ignition engine. <i>Renewable Energy</i> , 2019, 142, 569-580.	4.3	18
30	A robust firefly algorithm with backpropagation neural networks for solving hydrogeneration prediction. <i>Electrical Engineering</i> , 2018, 100, 2617-2633.	1.2	17
31	Comprehensive evaluation of the life cycle of liquid and solid fuels derived from recycled coffee waste. <i>Resources, Conservation and Recycling</i> , 2019, 150, 104446.	5.3	16
32	Impact of Remote Ischemic Postconditioning during Primary Percutaneous Coronary Intervention on Left Ventricular Remodeling after Anterior Wall ST-Segment Elevation Myocardial Infarction: A Single-Center Experience. <i>International Journal of Angiology</i> , 2017, 26, 241-248.	0.2	12
33	Performance and emissions of gasoline blended with fusel oil that a potential using as an octane enhancer. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 931-947.	1.2	12
34	Improved HRTEM image processing methods and the application on soot nanostructure analysis for GDI engine. <i>Fuel</i> , 2020, 267, 116974.	3.4	12
35	Comprehensive review of principle factors for thermal conductivity and dynamic viscosity enhancement in thermal transport applications: An analytical tool approach. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 13-21.	2.9	10
36	Experimental Study of Performance and Emissions of Fusel Oil-Diesel Blend in a Single Cylinder Diesel Engine. <i>International Journal of Engineering and Technology</i> , 2017, 9, 138-142.	0.1	10

#	ARTICLE	IF	CITATIONS
37	Experimental investigation of the impact of using alcohol- biodiesel-diesel blending fuel on combustion of single cylinder CI engine. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012038.	0.3	8
38	The study of stability, combustion characteristics and performance of water in diesel emulsion fuel. MATEC Web of Conferences, 2017, 90, 01022.	0.1	8
39	Effects of GDI injector deposits on spray and combustion characteristics under different injection conditions. Fuel, 2020, 278, 118094.	3.4	8
40	Thermal and Economic Analysis of Gas Turbine Using Inlet Air Cooling System. MATEC Web of Conferences, 2018, 225, 01020.	0.1	5
41	Experimental and Numerical investigation of Heat transfer enhancement using Al <sub>2</sub> O <sub>3</sub> -Ethylene Glycol/Water nanofluids in straight channel. MATEC Web of Conferences, 2018, 225, 01019.	0.1	3
42	Wavelet Analysis of the Effect of Injection Strategies on Cycle to Cycle Variation GDI Optical Engine under Clean and Fouled Injector. Processes, 2019, 7, 817.	1.3	3
43	Salp swarm algorithm to solve Short-Term hydrothermal scheduling problem. Materials Today: Proceedings, 2023, 80, 3660-3662.	0.9	2
44	An Overview of Reforming Technologies and the Effect of Parameters on the Catalytic Performance of Mesoporous Silica/Alumina Supported Nickel Catalysts for Syngas Production by Methane Dry Reforming. Recent Innovations in Chemical Engineering, 2020, 13, 303-322.	0.2	2
45	Utilization of additive from waste products with gasoline fuel to operate spark ignition engine. Scientific Reports, 2022, 12, 7714.	1.6	2
46	Investigation of emissions characteristics of secondary butyl alcohol-gasoline blends in a port fuel injection spark ignition engine. MATEC Web of Conferences, 2017, 90, 01036.	0.1	1
47	Investigation of Influences of Secondary Butyl-alcohol Blends on Performance and Cycle-to-cycle Variations in a Spark Ignition Engines. Energy Procedia, 2017, 110, 310-315.	1.8	1
48	Effect of water injection into the intake manifold on combustion and NOx emissions of CHP engine fuelled with natural gas. Clean Technologies and Environmental Policy, 2019, 21, 167-178.	2.1	1
49	Experimental investigation of butanol gasoline blends effect on the mass fraction burned in a spark ignition engine. International Journal of Engineering and Technology, 2016, 8, 2571-2577.	0.1	0
50	Comparison of Spray Collapses from Multi-Hole and Single-Hole Injectors Using High-Speed Photography. , 0, , .		0