

Hamit Solmaz

List of Publications by Year in descending order

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65
papers

1,983
citations

172457

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265206

42
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docs citations

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times ranked

1165
citing authors

#	ARTICLE	IF	CITATIONS
1	Control and Optimization of Pre-Transmission Parallel Hybrid Vehicle with Fuzzy Logic Method and Comparison with Conventional Rule Based Control Strategy. <i>Journal of Polytechnic</i> , 2023, 26, 1035-1047.	0.7	1
2	Multi objective optimization of HCCI combustion fuelled with fusel oil and n-heptane blends. <i>Renewable Energy</i> , 2022, 182, 827-841.	8.9	39
3	Experimental and statistical investigation of different valve lifts on HCCI combustion, performance and exhaust emissions using response surface method. <i>Energy</i> , 2022, 244, 123184.	8.8	11
4	Exergy analysis in a HCCI engine operated with diethyl ether-fusel oil blends. <i>Case Studies in Thermal Engineering</i> , 2022, 32, 101899.	5.7	12
5	Investigation of the Effects of Intake Manifold Pressure on Performance and Combustion Characteristics in an HCCI Engine. <i>Journal of the Faculty of Engineering and Architecture of Gazi University</i> , 2022, 37, 1735-1750.	0.8	1
6	Testing sodium borohydride as a fuel additive in internal combustion gasoline engine. <i>Energy</i> , 2022, 254, 124300.	8.8	7
7	Numerical Study of the Effects of Lambda and Injection Timing on RCCI Combustion Mode. <i>International Journal of Automotive Science and Technology</i> , 2022, 6, 120-126.	1.0	4
8	Operating range, combustion, performance and emissions of an HCCI engine fueled with naphtha. <i>Fuel</i> , 2021, 283, 118828.	6.4	41
9	A comparative analysis of the engine performance and exhaust emissions characteristics of a diesel engine fueled with Mono ethylene glycol supported emulsion. <i>Fuel</i> , 2021, 288, 119723.	6.4	17
10	Modeling of an Electric Bus Using MATLAB/Simulink and Determining Cost Saving for a Realistic City Bus Line Driving Cycle. <i>Journal of Educational Studies and Multidisciplinary Approaches</i> , 2021, 2, 52-62.	0.5	1
11	Determination and utilization of optimal diesel/n-butanol/biogas derivation for small utility dual fuel diesel engine. <i>Fuel</i> , 2021, 289, 119913.	6.4	50
12	Modelling of performance, emission, and combustion of an HCCI engine fueled with fusel oil-diethylether fuel blends as a renewable fuel. <i>Fuel</i> , 2021, 290, 120017.	6.4	30
13	Effect of nitrogen and hydrogen addition on performance and emissions in reactivity controlled compression ignition. <i>Fuel</i> , 2021, 292, 120330.	6.4	23
14	Prediction of performance and exhaust emissions of a CI engine fueled with multi-wall carbon nanotube doped biodiesel-diesel blends using response surface method. <i>Energy</i> , 2021, 227, 120518.	8.8	48
15	Combustion, performance and emission analyses of organic Manganese-Added <i>crambe abyssinica</i> biodiesel in a direct injection diesel engine. <i>Fuel</i> , 2021, 297, 120770.	6.4	14
16	Investigation of important semi-empirical heat transfer models for a natural gas-fueled HCCI engine. <i>Energy Reports</i> , 2021, 7, 8652-8666.	5.1	7
17	Mapping of an HCCI engine using negative valve overlap strategy. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 1140-1154.	2.3	34
18	Experimental investigation on the combustion, performance and exhaust emission characteristics of poppy oil biodiesel-diesel dual fuel combustion in a CI engine. <i>Fuel</i> , 2020, 280, 118588.	6.4	64

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19	Performance Enhancement of a Beta Type Rhombic Drive Stirling engine. International Journal of Green Energy, 2020, 17, 884-893.	3.8	9
20	Optimization of the operating conditions of a beta-type rhombic drive stirling engine by using response surface method. Energy, 2020, 198, 117377.	8.8	38
21	A review on higher alcohol of fusel oil as a renewable fuel for internal combustion engines: Applications, challenges, and global potential. Fuel, 2020, 279, 118516.	6.4	66
22	The effect of nano-biochar on the performance and emissions of a diesel engine fueled with fusel oil-diesel fuel. Fuel, 2020, 268, 117356.	6.4	43
23	A comparative study on the usage of fusel oil and reference fuels in an HCCI engine at different compression ratios. Fuel, 2020, 273, 117775.	6.4	50
24	An Experimental Research on the Effects of Negative Valve Overlap on Performance and Operating Range in a Homogeneous Charge Compression Ignition Engine With RON40 and RON60 Fuels. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	15
25	Control of pre and post transmission parallel hybrid vehicles with fuzzy logic method and comparison with other power systems. Journal of the Faculty of Engineering and Architecture of Gazi University, 2020, 35, 2269-2286.	0.8	9
26	HCCI MENZÄ°L ARTTIRICI MOTOR KULLANILAN SERÄ° HÄ°BRÄ°T BÄ°R ARACIN MODELLENMESÄ°. Gazi Ä°niversitesi Fen Bilimleri Dergisi, 2020, 8, 279-292.	0.6	12
27	Determination of Lithium Ion Battery Characteristics for Hybrid Vehicle Models. International Journal of Automotive Science and Technology, 2020, 4, 264-271.	1.0	6
28	CONTROL OF COMBUSTION PHASE WITH DIRECT INJECTION TIMING FOR DIFFERENT INLET TEMPERATURES IN AN RCCI ENGINE. Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, 2020, 40, 267-279.	0.6	5
29	Exploration of a Stirling engine and generator combination for air and helium media. Applied Thermal Engineering, 2019, 150, 738-749.	6.0	16
30	Production of waste tyre oil and experimental investigation on combustion, engine performance and exhaust emissions. Journal of the Energy Institute, 2019, 92, 1406-1418.	5.3	60
31	Investigation of effect of compression ratio on combustion and exhaust emissions in A HCCI engine. Energy, 2019, 168, 1208-1216.	8.8	107
32	Optimization of fusel oil â€“ Gasoline blend ratio to enhance the performance and reduce emissions. Applied Thermal Engineering, 2019, 148, 1334-1345.	6.0	40
33	An Experimental Investigation on The Effects of Waste Olive Oil Biodiesel on Combustion, Engine Performance and Exhaust Emissions. International Journal of Automotive Engineering and Technologies, 2019, 8, 103-116.	0.5	4
34	Thermodynamic comparison of crank-drive and rhombic-drive mechanisms for a single cylinder spark ignition engine. Journal of the Faculty of Engineering and Architecture of Gazi University, 2019, 35, 595-606.	0.8	4
35	Manufacturing and testing of an Î±-type Stirling engine. Applied Thermal Engineering, 2018, 130, 1373-1379.	6.0	30
36	Modeling of an Electric Vehicle with MATLAB/Simulink. International Journal of Automotive Science and Technology, 2018, 2, 9-15.	1.0	47

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37	1.2â€kW beta type Stirling engine with rhombic drive mechanism. International Journal of Energy Research, 2017, 41, 1310-1321.	4.5	20
38	A coupled thermodynamic and dynamic model of a three cylinder diesel engine: A novel approach for gas exchange process. Applied Thermal Engineering, 2017, 121, 750-760.	6.0	13
39	A NUMERICAL STUDY FOR STIRLING ENGINE HEATER DEVELOPMENT. Heat Transfer Research, 2017, 48, 477-498.	1.6	1
40	The Effects of Lambda on Combustion Characteristics in a Reactive Controlled Compression Ignition (RCCI) Engine. Afyon Kocatepe University Journal of Sciences and Engineering, 2017, 17, 1146-1156.	0.2	5
41	Combustion and performance characteristics of an HCCI engine utilizing trapped residual gas via reduced valve lift. Applied Thermal Engineering, 2016, 100, 586-594.	6.0	42
42	A numerical study on the effects of EGR and spark timing to combustion characteristics and NO _x emission of a GDI engine. International Journal of Green Energy, 2016, 13, 63-70.	3.8	31
43	A thermodynamic approach to compare the performance of rhombic-drive and crank-drive mechanisms for a beta-type Stirling engine. Applied Thermal Engineering, 2016, 93, 359-367.	6.0	44
44	Combined effects of soybean biodiesel fuel addition and EGR application on the combustion and exhaust emissions in a diesel engine. Applied Thermal Engineering, 2016, 95, 115-124.	6.0	125
45	BETA TÄ°PÄ° RHOMBÄ°C HAREKET MEKANÄ°ZMALI BÄ°R STÄ°RLÄ°NG MOTORUNUN TASARIMI VE PERFORMANS TESTLERÄ° Journal of the Faculty of Engineering and Architecture of Gazi University, 2016, .	0.8	2
46	Thermal performance of a Stirling engine powered by a solar simulator. Applied Thermal Engineering, 2015, 86, 161-167.	6.0	36
47	Effects of valve lift on the combustion and emissions of a HCCI gasoline engine. Energy Conversion and Management, 2015, 94, 159-168.	9.2	64
48	Combustion, performance and emission characteristics of fusel oil in a spark ignition engine. Fuel Processing Technology, 2015, 133, 20-28.	7.2	74
49	A Comparison of Engine Performance and the Emission of Fusel Oil and Gasoline Mixtures at Different Ignition Timings. International Journal of Green Energy, 2015, 12, 767-772.	3.8	56
50	A mathematical model to investigate the effects of misfire and cyclic variations on crankshaft speed fluctuations in internal combustion engines. Journal of Mechanical Science and Technology, 2015, 29, 1493-1500.	1.5	13
51	Experimental investigation of the effects of direct water injection parameters on engine performance in a six-stroke engine. Energy Conversion and Management, 2015, 98, 89-97.	9.2	52
52	Examination of the effects of organic based manganese fuel additive on combustion and engine performance. Fuel Processing Technology, 2015, 139, 100-107.	7.2	43
53	Investigation of usability of the fusel oil in a single cylinder spark ignition engine. Journal of the Energy Institute, 2015, 88, 258-265.	5.3	46
54	Effects of intake air temperature on combustion, performance and emission characteristics of a HCCI engine fueled with the blends of 20% n-heptane and 80% isoctane fuels. Fuel Processing Technology, 2015, 130, 275-281.	7.2	92

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55	PAMUK METÄ°L ESTERÄ°NE N-HEPTAN KATKISININ MOTOR PERFORMANSI VE YANMA KARAKTERÄ°STÄ°KLERÄ°NE ETKÄ°LERÄ°NÄ°N Ä°NCELENMESÄ°. Journal of the Faculty of Engineering and Architecture of Gazi University, 2015p.8 30, .		6
56	Drag Coefficient Determination Of A Bus Model Using Reynolds Number Independence. International Journal of Automotive Engineering and Technologies, 2015, 4, 146.	0.5	6
57	Performance comparison of a novel configuration of beta-type Stirling engines with rhombic drive engine. Energy Conversion and Management, 2014, 78, 627-633.	9.2	44
58	Preparation of diesel emulsion using auxiliary emulsifier mono ethylene glycol and utilization in a turbocharged diesel engine. Energy Conversion and Management, 2014, 86, 973-980.	9.2	32
59	Experimental examination of the effects of military aviation fuel JP-8 and biodiesel fuel blends on the engine performance, exhaust emissions and combustion in a direct injection engine. Fuel Processing Technology, 2014, 128, 158-165.	7.2	69
60	Variation of performance and emission characteristics of a diesel engine fueled with diesel, rapeseed oil and hazelnut oil methyl ester blends. Renewable Energy, 2012, 48, 122-126.	8.9	73
61	Fuel Economy Benefits of Integrating a Multi-Mode Low Temperature Combustion (LTC) Engine in a Series Extended Range Electric Powertrain. , 0, , .		18
62	Effects of the regenerator on engine performance of a rhombic drive beta type stirling engine. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-9.	2.3	2
63	Modeling and validation of crankshaft speed fluctuations of a single-cylinder four-stroke diesel engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702110262.	1.9	1
64	Estimation of the COVIMEP Variation in a HCCI Engine. Journal of Polytechnic, 0, , .	0.7	6
65	Emme HavasÄ± GiriÅŸ SÄ±caklÄ±ÄŸÄ± ve Ä±n KarÄ±ÅŸÄ±mlÄ± YakÄ±t OranÄ±nÄ±n RCCI Yanma Karakteristiklerine ve Motor PerformansÄ±na Etkileri. Journal of Polytechnic, 0, , .	0.7	2