

# Ocktaeck Lim

## List of Publications by Year in descending order

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80  
papers

1,006  
citations

516561

16  
h-index

526166

27  
g-index

81  
all docs

81  
docs citations

81  
times ranked

613  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of free-piston linear engines. <i>Applied Energy</i> , 2016, 178, 78-97.	5.1	99
2	A review of history, development, design and research of electric bicycles. <i>Applied Energy</i> , 2020, 260, 114323.	5.1	62
3	Resources, policy, and research activities of biofuel in Indonesia: A review. <i>Energy Reports</i> , 2016, 2, 237-245.	2.5	60
4	A study on combustion and emission of GCI engines fueled with gasoline-biodiesel blends. <i>Fuel</i> , 2017, 189, 141-154.	3.4	55
5	An investigation on the DME HCCI autoignition under EGR and boosted operation. <i>Fuel</i> , 2017, 200, 447-457.	3.4	52
6	Experimental study on non-vaporizing spray characteristics of biodiesel-blended gasoline fuel in a constant volume chamber. <i>Fuel Processing Technology</i> , 2018, 178, 322-335.	3.7	46
7	The effects of key parameters on the transition from SI combustion to HCCI combustion in a two-stroke free piston linear engine. <i>Applied Energy</i> , 2015, 137, 385-401.	5.1	38
8	Complementary effects between NO oxidation of DPF and NO <sub>2</sub> decomposition of SCR in light-duty diesel engine. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 160-170.	2.9	32
9	The effects of combustion duration on residual gas, effective release energy, engine power and engine emissions characteristics of the motorcycle engine. <i>Applied Energy</i> , 2019, 248, 54-63.	5.1	32
10	Dimethyl Ether as the Next Generation Fuel to Control Nitrogen Oxides and Particulate Matter Emissions from Internal Combustion Engines: A Review. <i>ACS Omega</i> , 2022, 7, 32-37.	1.6	32
11	A study of a GCI engine fueled with gasoline-biodiesel blends under pilot and main injection strategies. <i>Fuel</i> , 2018, 221, 269-282.	3.4	29
12	Comparative life cycle assessment of lithium-ion battery electric bus and Diesel bus from well to wheel. <i>Energy Procedia</i> , 2018, 145, 223-227.	1.8	27
13	A study of operating parameters on the linear spark ignition engine. <i>Applied Energy</i> , 2015, 160, 746-760.	5.1	22
14	A study of the effects of input parameters on the dynamics and required power of an electric bicycle. <i>Applied Energy</i> , 2017, 204, 1347-1362.	5.1	21
15	Effects of EGR and boosting on the auto-ignition characteristics of HCCI combustion fueled with natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 1015-1024.	2.1	20
16	A simulation and experimental study of operating performance of an electric bicycle integrated with a semi-automatic transmission. <i>Applied Energy</i> , 2018, 221, 319-333.	5.1	20
17	Improvement of Electromagnetic Force and Dynamic Response of a Solenoid Injector Based on the Effects of Key Parameters. <i>International Journal of Automotive Technology</i> , 2019, 20, 949-960.	0.7	18
18	Estimation of parameters affected in internal exhaust residual gases recirculation and the influence of exhaust residual gas on performance and emission of a spark ignition engine. <i>Applied Energy</i> , 2020, 278, 115699.	5.1	17

#	ARTICLE	IF	CITATIONS
19	A Review of Gasoline Compression Ignition: A Promising Technology Potentially Fueled with Mixtures of Gasoline and Biodiesel to Meet Future Engine Efficiency and Emission Targets. <i>Energies</i> , 2019, 12, 238.	1.6	13
20	A Study for Generating Power on Operating Parameters of Powerpack Utilizing Linear Engine. , 0, , .		12
21	A computational study on the autoignition characteristics of an HCCI engine fueled with natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 29, 469-478.	2.1	12
22	Effects of Structural Parameters on Operating Characteristics of a Solenoid Injector. <i>Energy Procedia</i> , 2017, 105, 1771-1775.	1.8	12
23	Investigation of the combustion characteristics of gasoline compression ignition engine fueled with gasoline-biodiesel blends. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 959-967.	0.7	12
24	Ammonia Uniformity to Predict NOx Reduction Efficiency in an SCR System. <i>International Journal of Automotive Technology</i> , 2019, 20, 313-325.	0.7	12
25	The effects of operating conditions and structural parameters on the dynamic, electric consumption and power generation characteristics of an electric assisted bicycle. <i>Applied Energy</i> , 2019, 247, 285-296.	5.1	11
26	Investigation of Urea Uniformity with Different Types of Urea Injectors in an SCR System. <i>Catalysts</i> , 2020, 10, 1269.	1.6	11
27	An investigation of the spray characteristics of diesel-DME blended fuel with variation of ambient pressure in a constant volume combustion chamber. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 2363-2368.	0.7	10
28	Piston motion control for a dual free piston linear generator: predictive-fuzzy logic control approach. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 4785-4795.	0.7	10
29	Comparative Study of the Effective Release Energy, Residual Gas Fraction, and Emission Characteristics with Various Valve Port Diameter-Bore Ratios (VPD/B) of a Four-Stroke Spark Ignition Engine. <i>Energies</i> , 2020, 13, 1330.	1.6	10
30	Investigation of ammonia homogenization and NOx reduction quantity by remodeling urea injector shapes in heavy-duty diesel engines. <i>Applied Energy</i> , 2022, 323, 119586.	5.1	10
31	A two stroke free piston engine's performance and exhaust emission using artificial neural networks. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 4747-4755.	0.7	9
32	A Simulation and Experimental Study of Operating Characteristics of an Electric Bicycle. <i>Energy Procedia</i> , 2017, 105, 2512-2517.	1.8	9
33	An investigation on the spray characteristics of DME with variation of ambient pressure using the common rail fuel injection system. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 3323-3330.	0.7	8
34	Experimental study and numerical simulation on in-cylinder flow of small motorcycle engine. <i>Applied Energy</i> , 2019, 255, 113863.	5.1	8
35	Influence of EGR and intake boost on GCI engine fueled with gasoline-biodiesel blend using early single injection mode. <i>Energy Procedia</i> , 2019, 158, 565-570.	1.8	8
36	Effects of Urea Injection Timing on Predicting NoX Conversion In SCR Systems. <i>International Journal of Automotive Technology</i> , 2020, 21, 137-145.	0.7	8

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37	Effect of the intake port flow direction on the stability and characteristics of the in-cylinder flow field of a small motorcycle engine. <i>Applied Energy</i> , 2021, 288, 116659.	5.1	8
38	An Investigation on the Effects of Input Parameters on the Dynamic and Electric Consumption of Electric Motorcycles. <i>Sustainability</i> , 2021, 13, 7285.	1.6	8
39	The Internal Residual Gas and Effective Release Energy of a Spark-Ignition Engine with Various Inlet Portâ€™Bore Ratios and Full Load Condition. <i>Energies</i> , 2021, 14, 3773.	1.6	8
40	A Study the Effect of Biodiesel Blends and the Injection Timing on Performance and Emissions of Common Rail Diesel Engines. <i>Energies</i> , 2022, 15, 242.	1.6	8
41	A Study on the Autoignition Characteristics of DMEâ€™LPG Dual Fuel in the HCCI Engine. <i>Heat Transfer Engineering</i> , 2016, 37, 1488-1497.	1.2	7
42	Influence of Biodiesel Blended in Gasoline-Based Fuels on Macroscopic Spray Structure from a Diesel Injector. <i>International Journal of Automotive Technology</i> , 2019, 20, 701-711.	0.7	7
43	Investigation of the Spray Development Process of Gasoline-Biodiesel Blended Fuel Sprays in a Constant Volume Chamber. <i>Energies</i> , 2020, 13, 4819.	1.6	7
44	Macroscopic Spray Behavior of a Single-Hole Common Rail Diesel Injector Using Gasoline-Blended 5% Biodiesel. <i>Energies</i> , 2020, 13, 2276.	1.6	7
45	Simulation Study of SI-HCCI Transition in a Two-Stroke Free Piston Engine Fuelled with Propane. , 2014, , .		6
46	Experimental study on ignition characteristic of gasoline-biodiesel blended fuel in a constant-volume chamber. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 5073-5083.	0.7	6
47	Influence of Combustion Duration on the Performance and Emission Characteristics of a Spark-Ignition Engine Fueled with Pure Methanol and Ethanol. <i>ACS Omega</i> , 2022, 7, 14505-14515.	1.6	6
48	Ignition and combustion characteristics of gasoline-biodiesel blend in a constant volume chamber: Effects of the operation parameters. <i>Fuel</i> , 2019, 255, 115764.	3.4	5
49	Investigation of Solid Deposit Inside L-Type Urea Injector and NOx Conversion in a Heavy-Duty Diesel Engine. <i>Catalysts</i> , 2021, 11, 595.	1.6	5
50	An Investigation on the Spray Characteristics of DME with Variation of Nozzle Holes Diameter using the Common Rail Fuel Injection System. <i>Transactions of the Korean Society of Automotive Engineers</i> , 2013, 21, 1-7.	0.1	5
51	A Power Generation Study of a Power Pack Based on Operating Parameters of the Linear Engine Fuelled with Propane. <i>Energy Procedia</i> , 2014, 61, 1581-1584.	1.8	4
52	A study on in-cylinder flow field of a 125cc motorcycle engine at low engine speeds. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 4477-4494.	0.7	4
53	The effects of combustion duration on residual gas, effective release energy and engine power of motorcycle engine at full load. <i>Energy Procedia</i> , 2019, 158, 1835-1841.	1.8	4
54	The effects of Gasoline-Biodiesel Blended Fuels on Spray Characteristics. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2015, 26, 287-293.	0.1	4

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55	A Review of the External and Internal Residual Exhaust Gas in the Internal Combustion Engine. <i>Energies</i> , 2022, 15, 1208.	1.6	4
56	A computational study of DME-methanol fractions with controlling several factors on HCCI combustion. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 1931-1941.	0.7	3
57	Experimental Study of the Ignition delay of gasoline/biodiesel blends using a Rapid Compression Expansion Machine. <i>Energy Procedia</i> , 2019, 158, 655-660.	1.8	3
58	A Computational Study of the Effects of Initial Conditions on DME Autoignition Characteristics. <i>Energy Procedia</i> , 2014, 61, 1577-1580.	1.8	2
59	A Study of High-Pressure Gasoline Spray Added Biodiesel 5% in a Constant Volume Combustion Chamber. <i>Energy Procedia</i> , 2019, 158, 607-611.	1.8	2
60	Development of a High-Performance Electric Pressure Regulator Applied for Compressed-Natural-Gas-Fueled Vehicles. <i>Sustainability</i> , 2020, 12, 7938.	1.6	2
61	Effects of Design Parameters on Operating Characteristics of an Electric Assisted Bicycle Using Fuel Cell. <i>Sustainability</i> , 2020, 12, 4684.	1.6	2
62	A study on spray characteristic of gasoline-biodiesel blended under gci engines condition performed on constant volume combustion chamber system. <i>Journal of Mechanical Science and Technology</i> , 2022, 36, 2095-2106.	0.7	2
63	Potential of fuel stratification for reducing pressure rise rate in HCCI engines fueled with DME/n-Butane. , 2011, , .		1
64	Study on the Effect of the Intake Port Configuration on the In-cylinder of Small Engine. , 2019, , .		1
65	A Study of Combustion Characteristics of Two Gasolineâ€“Biodiesel Mixtures on RCEM Using Various Fuel Injection Pressures. <i>Energies</i> , 2020, 13, 3265.	1.6	1
66	Comparative Life Cycle Assessment of Liquefied Natural Gas and Marine Fuel for Ship from Well to Hull. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , 2021, 32, 127-133.	0.1	1
67	A Study on the Effect of Ignition Timing on Residual Gas, Effective Release Energy, and Engine Emissions of a V-Twin Engine. <i>Energies</i> , 2021, 14, 4523.	1.6	1
68	A Study to Investigate the Effect of Valve Mechanisms on Exhaust Residual Gas and Effective Release Energy of a Motorcycle Engine. <i>Energies</i> , 2021, 14, 5564.	1.6	1
69	Investigation on pilot injection with various Start of Injection two and fuel injection pressure in common rail direct injection diesel engine. , 2020, , .		1
70	The study of injection pressure on spray characteristic under GCI conditions using Gasoline-Biodiesel Blended. , 2020, , .		1
71	Development of a High-Performance Solenoid Gas Injector Applied for Compressed Natural Gas Fueled Engines. <i>International Journal of Automotive Technology</i> , 2022, 23, 567-576.	0.7	1
72	An investigation about generating electric power on operated parameters of powerpack utilizing linear engine. , 2013, , .		0

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73	Emission Control Strategy on GCI Engines Fueled with Biodiesel Blended in Gasoline. , 2018, , .		0
74	Combustion and Emissions of Gasoline Compression Ignition Engine Fuelled with Gasoline-Biodiesel Blends. , 0, , .		0
75	Effects of Design Parameters on Dynamic Performance of a Solenoid Applied for Gas Injector. Lecture Notes in Mechanical Engineering, 2022, , 362-372.	0.3	0
76	A study of optimization NOx reduction quality with different types of urea injectors in an SCR system. , 2020, , .		0
77	A study on the Spray development under Non- Vaporizing condition using Gasoline-Biodiesel blend in Constant Volume Combustion Chamber. , 2020, , .		0
78	Study on the Effect of Intake Flow by Various Intake Port Design on Small Motorcycles Engine. , 2020, , .		0
79	Comparative Life Cycle Assessment of Liquefied Natural Gas and Marine Fuel for Ship from Well to Hull. , 0, , .		0
80	Effects of working conditions on the operating characteristics of an injection system applied on CNG fueled vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702110694.	1.1	0