Efthimios G Pariotis

List of Publications by Year
in descending order

21 papers	643 citations	840776 11 h-index	888059 17 g-index
21 all docs	21 docs citations	21 times ranked	555 citing authors

#	Article	IF	Citations
1	Critical evaluation of current heat transfer models used in CFD in-cylinder engine simulations and establishment of a comprehensive wall-function formulation. Applied Energy, 2010, 87, 1612-1630.	10.1	134
2	Thermodynamic analysis of a Rankine cycle applied on a diesel truck engine using steam and organic medium. Energy Conversion and Management, 2012, 60, 68-76.	9.2	102
3	Investigation of piston bowl geometry and speed effects in a motored HSDI diesel engine using a CFD against a quasi-dimensional model. Energy Conversion and Management, 2010, 51, 470-484.	9.2	74
4	Investigating the effect of crevice flow on internal combustion engines using a new simple crevice model implemented in a CFD code. Applied Energy, 2011, 88, 111-126.	10.1	73
5	Evaluation of a combustion model for the simulation of hydrogen spark-ignition engines using a CFD code. International Journal of Hydrogen Energy, 2010, 35, 12545-12560.	7.1	55
6	Theoretical study of DI diesel engine performance and pollutant emissions using comparable air-side and fuel-side oxygen addition. Energy Conversion and Management, 2007, 48, 2962-2970.	9.2	46
7	Evaluation of a new computational fluid dynamics model for internal combustion engines using hydrogen under motoring conditions. Energy, 2009, 34, 2158-2166.	8.8	27
8	Heat transfer and crevice flow in a hydrogen-fueled spark-ignition engine: Effect on the engine performance and NO exhaust emissions. International Journal of Hydrogen Energy, 2013, 38, 7477-7489.	7.1	25
9	Comparative analysis of three simulation models applied on a motored internal combustion engine. Energy Conversion and Management, 2012, 60, 45-55.	9.2	23
10	Characteristics of the performance and emissions of a HSDI diesel engine running with cottonseed oil or its methyl ester and their blends with diesel fuel. International Journal of Vehicle Design, 2007, 45, 200.	0.3	22
11	Marine Exhaust Gas Treatment Systems for Compliance with the IMO 2020 Global Sulfur Cap and Tier III NOx Limits: A Review. Energies, 2022, 15, 3638.	3.1	18
12	Integrated Simulation Framework for Assessing Turbocharger Fault Effects on Diesel-Engine Performance and Operability. Journal of Energy Engineering - ASCE, 2020, 146, 04020023.	1.9	13
13	Prediction of a Shipâ€™s Operational Parameters Using Artificial Intelligence Techniques. Journal of Marine Science and Engineering, 2021, 9, 681.	2.6	10
14	An Integrated Approach for the Assessment of Central Cooling Retrofit Using Variable Speed Drive Pump in Marine Applications. Journal of Marine Science and Engineering, 2019, 7, 253.	2.6	5
15	Experimental Study of DI Diesel Engine Operational and Environmental Behavior Using Blends of City Diesel with Glycol Ethers and RME. Energies, 2019, 12, 1547.	3.1	5
16	Comparative Assessment of the Impact of Water Addition either to the Intake Air or in Diesel Emulsion on the Performance and Emissions of a HDDI Diesel Engine. Journal of Energy Engineering - ASCE, 2020, 146, .	1.9	4
17	Effect of Turbocharger Cut Out on Two-Stroke Marine Diesel Engine Performance and NOx Emissions at Part Load Operation. , 2014, , .		3
18	Identification of the Error Introduced in DI Diesel Engine Phenomenological Multi-Zone Models from Assumptions Related to the Initial Conditions at the Nozzle Exit. , 2010, , .		2

#	Article	IF	Citations
19	Thermo-Economic Study of a Regenerative Dual-Loop ORC System Coupled to the Main Diesel Engines of a General Support Vessel. Energies, 2020, 13, 2991.	3.1	2
20	i-ZEN an Intelligent Zero ENergy Flow Meter. , 2018, , .		0
21	Achievement of NO Emissionâ€“Free Operation of a HSDI Diesel Engine Using Nitrogen Enrichment of Intake Air and Implications on Performance and Soot Emissions. Journal of Energy Engineering - ASCE, 2022, 148, .	1.9	0