Georgios C Mavropoulos

List of Publications by Year
in descending order

26	955	623734 14	794594 19
papers	citations	h-index	g-index

26	26	26	697
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exergy evaluation of equivalence ratio, compression ratio and residual gas effects in variable compression ratio spark-ignition engine using quasi-dimensional combustion modeling. Energy, 2022, 244, 123080.	8.8	10
2	Investigating the EGR rate and temperature impact on diesel engine combustion and emissions under various injection timings and loads by comprehensive two-zone modeling. Energy, 2018, 157, 990-1014.	8.8	95
3	Potential for efficiency improvement of four-stroke marine diesel gensets by utilisation of exhaust gas energy. International Journal of Global Warming, 2016, 10, 133.	0.5	4
4	Development and validation of a new turbocharger simulation methodology for marine two stroke diesel engine modelling and diagnostic applications. Energy, 2015, 91, 952-966.	8.8	29
5	Efficiency Improvement of Large Scale 2-Stroke Diesel Engines Through the Recovery of Exhaust Gas Using a Rankine Cycle. Procedia, Social and Behavioral Sciences, 2012, 48, 1444-1453.	0.5	17
6	Improvement of bottoming cycle efficiency and heat rejection for HD truck applications by utilization of EGR and CAC heat. Energy Conversion and Management, 2012, 53, 19-32.	9.2	55
7	Experimental study of the interactions between long and short-term unsteady heat transfer responses on the in-cylinder and exhaust manifold diesel engine surfaces. Applied Energy, 2011, 88, 867-881.	10.1	24
8	Analysis and evaluation of the thermal shock phenomena in the in-cylinder surfaces of a DI diesel engine during its transient operation. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011, 225, 1265-1289.	1.9	2
9	Comparative design study of a diesel exhaust gas heat exchanger for truck applications with conventional and state of the art heat transfer enhancements. Applied Thermal Engineering, 2010, 30, 935-947.	6.0	71
10	Effects of transient diesel engine operation on its cyclic heat transfer: an experimental assessment. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2009, 223, 1373-1394.	1.9	8
11	Effect of exhaust gas recirculation (EGR) temperature for various EGR rates on heavy duty DI diesel engine performance and emissions. Energy, 2008, 33, 272-283.	8.8	221
12	Experimental evaluation of local instantaneous heat transfer characteristics in the combustion chamber of air-cooled direct injection diesel engine. Energy, 2008, 33, 1084-1099.	8.8	19
13	Experimental investigation to develop a methodology for estimating the compression condition of DI Diesel engines. Energy Conversion and Management, 2006, 47, 1-18.	9.2	14
14	Experimental and theoretical study of the short term response temperature transients in the cylinder walls of a diesel engine at various operating conditions. Applied Thermal Engineering, 2004, 24, 679-702.	6.0	75
15	Measurements and analysis of load and speed effects on the instantaneous wall heat fluxes in a direct injection air-cooled diesel engine. International Journal of Energy Research, 2000, 24, 587-604.	4.5	19
16	Experimental instantaneous heat fluxes in the cylinder head and exhaust manifold of an air-cooled diesel engine. Energy Conversion and Management, 2000, 41, 1265-1281.	9.2	65
17	Modelling the transient heat transfer in the ceramic combustion chamber walls of a low heat rejection diesel engine. International Journal of Vehicle Design, 1999, 22, 195.	0.3	20
18	Components heat transfer studies in a low heat rejection DI diesel engine using a hybrid thermostructural finite element model. Applied Thermal Engineering, 1998, 18, 301-316.	6.0	32

#	Article	IF	Citations
19	Study of the steady and transient temperature field and heat flow in the combustion chamber components of a medium speed diesel engine using finite element analyses. International Journal of Energy Research, 1996, 20, 437-464.	4.5	31
20	An Integrated Transient Analysis Simulation Model Applied in Thermal Loading Calculations of an Air-Cooled Diesel Engine Under Variable Speed and Load Conditions. , 0, , .		16
21	Potential Benefits in Heavy Duty Diesel Engine Performance and Emissions from the Use of Variable Compression Ratio. , 0, , .		12
22	Use of Water Emulsion and Intake Water Injection as NOx Reduction Techniques for Heavy Duty Diesel Engines. , 0, , .		57
23	Comparative Evaluation of EGR, Intake Water Injection and Fuel/Water Emulsion as NOx Reduction Techniques for Heavy Duty Diesel Engines. , 0, , .		41
24	Experimental Assessment of Instantaneous Heat Transfer in the Combustion Chamber and Exhaust Manifold Walls of Air-Cooled Direct Injection Diesel Engine. SAE International Journal of Engines, 0, 1, 888-912.	0.4	8
25	Experimental Investigation of Instantaneous Cyclic Heat Transfer in the Combustion Chamber and Exhaust Manifold of a DI Diesel Engine under Transient Operating Conditions. , 0, , .		10
26	Exhaust Phases in a DI Diesel Engine Based on Instantaneous Cyclic Heat Transfer Experimental Data. , 0, , .		0