Joachim Demuynck

List of Publications by Citations

32 papers	778 citations	17 h-index	27 g-index
33 ext. papers	912 ext. citations	5 avg, IF	3.73 L-index

#	Paper	IF	Citations
32	The potential of methanol as a fuel for flex-fuel and dedicated spark-ignition engines. *Applied Energy*, **2013**, 102, 140-149	10.7	117
31	Comparison of the renewable transportation fuels, hydrogen and methanol formed from hydrogen, with gasoline Engine efficiency study. *International Journal of Hydrogen Energy*, **2012**, 37, 9914-9924	6.7	76
30	Recommendations for the new WLTP cycle based on an analysis of vehicle emission measurements on NEDC and CADC. *Energy Policy*, **2012**, 49, 234-242	7.2	60
29	Local heat flux measurements in a hydrogen and methane spark ignition engine with a thermopile sensor. *International Journal of Hydrogen Energy*, **2009**, 34, 9857-9868	6.7	53
28	Impact of variable valve timing on power, emissions and backfire of a bi-fuel hydrogen/gasoline engine. *International Journal of Hydrogen Energy*, **2010**, 35, 4399-4408	6.7	49
27	CFD modeling and experimental study of combustion and nitric oxide emissions in hydrogen-fueled spark-ignition engine operating in a very wide range of EGR rates. *International Journal of Hydrogen Energy*, **2012**, 37, 10917-10934	6.7	46
26	On the applicability of empirical heat transfer models for hydrogen combustion engines. *International Journal of Hydrogen Energy*, **2011**, 36, 975-984	6.7	41
25	A correlation for the laminar burning velocity for use in hydrogen spark ignition engine simulation. *International Journal of Hydrogen Energy*, **2011**, 36, 957-974	6.7	39
24	A combined experimental and numerical study of thermal processes, performance and nitric oxide emissions in a hydrogen-fueled spark-ignition engine. *International Journal of Hydrogen Energy*, **2011**, 36, 5163-5180	6.7	38
23	Alternative Fuels for Spark-Ignition Engines: Mixing Rules for the Laminar Burning Velocity of Gasoline Alcohol Blends. *Energy & Fuels*, **2012**, 26, 4721-4727	4.1	35
22	Investigation of the influence of engine settings on the heat flux in a hydrogen- and methane-fueled spark ignition engine. *Applied Thermal Engineering*, **2011**, 31, 1220-1228	5.8	30
21	Real-World Emissions Measurements of a Gasoline Direct Injection Vehicle without and with a Gasoline Particulate Filter **2017**,		29
20	Laminar Burning Velocity Correlations for Methanol-Air and Ethanol-Air Mixtures Valid at SI Engine Conditions **2011**,		24
19	A laminar burning velocity and flame thickness correlation for ethanol air mixtures valid at spark-ignition engine conditions. *Fuel*, **2012**, 102, 460-469	7.1	23
18	Heat transfer in premixed spark ignition engines part I: Identification of the factors influencing heat transfer. *Energy*, **2016**, 116, 380-391	7.9	22
17	Heat transfer in premixed spark ignition engines part II: Systematic analysis of the heat transfer phenomena. *Energy*, **2016**, 116, 851-860	7.9	17
16	Experimental Evaluation of Lean-burn and EGR as Load Control Strategies for Methanol Engines **2012**,		17

List of Publications

15	Heat Loss Comparison Between Hydrogen, Methane, Gasoline and Methanol in a Spark-Ignition Internal Combustion Engine. *Energy Procedia*, **2012**, 29, 138-146	2.3	10
14	Update on the Progress of Hydrogen-Fueled Internal Combustion Engines **2013**, 381-400		9
13	Spray Parameter Comparison between Diesel and Vegetable Oils for Non-Evaporating Conditions **2012**,		8
12	Applying Design of Experiments to Determine the Effect of Gas Properties on In-Cylinder Heat Flux in a Motored SI Engine. *SAE International Journal of Engines*, **2012**, 5, 1286-1299	2.4	8
11	Numerical Study of Flow Deflection and Horseshoe Vortices in a Louvered Fin Round Tube Heat Exchanger. *Journal of Heat Transfer*, **2012**, 134,	1.8	7
10	Diesel Vehicle with Ultra-Low NOx Emissions on the Road		6
9	Evaluation of a Flow-Field-Based Heat Transfer Model for Premixed Spark-Ignition Engines on Hydrogen **2013**,		5
8	Measuring Emissions from a Demonstrator Heavy-Duty Diesel Vehicle under Real-World Conditions—Moving Forward to Euro VII. *Catalysts*, **2022**, 12, 184	4	3
7	Investigation of Supercharging Strategies for PFI Hydrogen Engines **2010**,		2
6	Improving Air Quality and Climate through Modern Diesel Vehicles. *MTZ Worldwide*, **2020**, 81, 52-59	0.3	2
5	Evaluation of Heat Transfer Models With Measurements in a Hydrogen-Fuelled Spark Ignition Engine **2010**,		1
4	Real-World Emissions of Euro VI Heavy-Duty Vehicles		1
3	Advanced Emission Controls and Sustainable Renewable Fuels for Low Pollutant and CO2 Emissions on a Diesel Passenger Car. *Sustainability*, **2021**, 13, 12711	3.6	0
2	Applying Design of Experiments to Develop a Fuel Independent Heat Transfer Model for Spark Ignition Engines. *Lecture Notes in Electrical Engineering*, **2013**, 1165-1177	0.2	
1	Development and Validation of a Quasi-Dimensional Model for (M)Ethanol-Fuelled SI Engines. *Lecture Notes in Electrical Engineering*, **2013**, 977-994	0.2	