

# Joachim Demuynck

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Measuring Emissions from a Demonstrator Heavy-Duty Diesel Vehicle under Real-World Conditions Moving Forward to Euro VII. <i>Catalysts</i> , <b>2022</b> , 12, 184	4	3
31	Advanced Emission Controls and Sustainable Renewable Fuels for Low Pollutant and CO2 Emissions on a Diesel Passenger Car. <i>Sustainability</i> , <b>2021</b> , 13, 12711	3.6	0
30	Improving Air Quality and Climate through Modern Diesel Vehicles. <i>MTZ Worldwide</i> , <b>2020</b> , 81, 52-59	0.3	2
29	Real-World Emissions Measurements of a Gasoline Direct Injection Vehicle without and with a Gasoline Particulate Filter <b>2017</b> ,		29
28	Heat transfer in premixed spark ignition engines part II: Systematic analysis of the heat transfer phenomena. <i>Energy</i> , <b>2016</b> , 116, 851-860	7.9	17
27	Heat transfer in premixed spark ignition engines part I: Identification of the factors influencing heat transfer. <i>Energy</i> , <b>2016</b> , 116, 380-391	7.9	22
26	Applying Design of Experiments to Develop a Fuel Independent Heat Transfer Model for Spark Ignition Engines. <i>Lecture Notes in Electrical Engineering</i> , <b>2013</b> , 1165-1177	0.2	
25	Update on the Progress of Hydrogen-Fueled Internal Combustion Engines <b>2013</b> , 381-400		9
24	The potential of methanol as a fuel for flex-fuel and dedicated spark-ignition engines. <i>Applied Energy</i> , <b>2013</b> , 102, 140-149	10.7	117
23	Evaluation of a Flow-Field-Based Heat Transfer Model for Premixed Spark-Ignition Engines on Hydrogen <b>2013</b> ,		5
22	Development and Validation of a Quasi-Dimensional Model for (M)Ethanol-Fuelled SI Engines. <i>Lecture Notes in Electrical Engineering</i> , <b>2013</b> , 977-994	0.2	
21	Comparison of the renewable transportation fuels, hydrogen and methanol formed from hydrogen, with gasoline Engine efficiency study. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9914-9924	6.7	76
20	Recommendations for the new WLTP cycle based on an analysis of vehicle emission measurements on NEDC and CADC. <i>Energy Policy</i> , <b>2012</b> , 49, 234-242	7.2	60
19	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. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 10917-10934	6.7	46
18	Alternative Fuels for Spark-Ignition Engines: Mixing Rules for the Laminar Burning Velocity of Gasoline-Alcohol Blends. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 4721-4727	4.1	35
17	Heat Loss Comparison Between Hydrogen, Methane, Gasoline and Methanol in a Spark-Ignition Internal Combustion Engine. <i>Energy Procedia</i> , <b>2012</b> , 29, 138-146	2.3	10
16	Spray Parameter Comparison between Diesel and Vegetable Oils for Non-Evaporating Conditions <b>2012</b> ,		8

15	Applying Design of Experiments to Determine the Effect of Gas Properties on In-Cylinder Heat Flux in a Motored SI Engine. <i>SAE International Journal of Engines</i> , <b>2012</b> , 5, 1286-1299	2.4	8
14	Experimental Evaluation of Lean-burn and EGR as Load Control Strategies for Methanol Engines <b>2012</b> ,		17
13	A laminar burning velocity and flame thickness correlation for ethanol-Air mixtures valid at spark-ignition engine conditions. <i>Fuel</i> , <b>2012</b> , 102, 460-469	7.1	23
12	Numerical Study of Flow Deflection and Horseshoe Vortices in a Louvered Fin Round Tube Heat Exchanger. <i>Journal of Heat Transfer</i> , <b>2012</b> , 134,	1.8	7
11	Laminar Burning Velocity Correlations for Methanol-Air and Ethanol-Air Mixtures Valid at SI Engine Conditions <b>2011</b> ,		24
10	Investigation of the influence of engine settings on the heat flux in a hydrogen- and methane-fueled spark ignition engine. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 1220-1228	5.8	30
9	A correlation for the laminar burning velocity for use in hydrogen spark ignition engine simulation. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 957-974	6.7	39
8	On the applicability of empirical heat transfer models for hydrogen combustion engines. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 975-984	6.7	41
7	A combined experimental and numerical study of thermal processes, performance and nitric oxide emissions in a hydrogen-fueled spark-ignition engine. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5163-5180	6.7	38
6	Investigation of Supercharging Strategies for PFI Hydrogen Engines <b>2010</b> ,		2
5	Evaluation of Heat Transfer Models With Measurements in a Hydrogen-Fuelled Spark Ignition Engine <b>2010</b> ,		1
4	Impact of variable valve timing on power, emissions and backfire of a bi-fuel hydrogen/gasoline engine. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 4399-4408	6.7	49
3	Local heat flux measurements in a hydrogen and methane spark ignition engine with a thermopile sensor. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9857-9868	6.7	53
2	Diesel Vehicle with Ultra-Low NOx Emissions on the Road		6
1	Real-World Emissions of Euro VI Heavy-Duty Vehicles		1