

Michael Wensing

List of Publications by Citations

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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.

63 papers	701 citations	15 h-index	23 g-index
71 ext. papers	839 ext. citations	3.7 avg, IF	4.16 L-index

#	Paper	IF	Citations
63	Structure of evaporating single- and multicomponent fuel sprays for 2nd generation gasoline direct injection. <i>Fuel</i> , 2011 , 90, 348-363	7.1	58
62	The effect of ethanol blending on mixture formation, combustion and soot emission studied in an optical DISI engine. <i>Applied Energy</i> , 2015 , 156, 783-792	10.7	51
61	Flashboiling-induced targeting changes in gasoline direct injection sprays. <i>International Journal of Engine Research</i> , 2016 , 17, 97-107	2.7	39
60	Effect of Fuel Properties on Spray Breakup and Evaporation Studied for a Multihole Direct Injection Spark Ignition Injector. <i>Energy & Fuels</i> , 2010 , 24, 4341-4350	4.1	33
59	Low-pressure twin-fluid atomization: Effect of mixing process on spray formation. <i>International Journal of Multiphase Flow</i> , 2017 , 89, 277-289	3.6	31
58	Comparison of Different Gasoline Alternative Fuels in Terms of Laminar Burning Velocity at Increased Gas Temperatures and Exhaust Gas Recirculation Rates. <i>Energy & Fuels</i> , 2014 , 28, 1446-1452	4.1	30
57	Spray Formation of High Pressure Swirl Gasoline Injectors Investigated by Two-Dimensional Mie and LIEF Techniques 1999 ,		26
56	Transition of diesel spray to a supercritical state under engine conditions. <i>International Journal of Engine Research</i> , 2016 , 17, 108-119	2.7	25
55	On the role of physiochemical properties on evaporation behavior of DISI biofuel sprays. <i>Experiments in Fluids</i> , 2013 , 54, 1	2.5	25
54	A quasi-dimensional model of turbulence and global charge motion for spark ignition engines with fully variable valvetrains. <i>International Journal of Engine Research</i> , 2014 , 15, 805-816	2.7	23
53	Investigation of compression temperature in highly charged spark-ignition engines. <i>International Journal of Engine Research</i> , 2011 , 12, 282-292	2.7	19
52	Fuel property and fuel temperature effects on internal nozzle flow, atomization and cyclic spray fluctuations of a direct injection spark ignition injector. <i>International Journal of Engine Research</i> , 2013 , 14, 543-556	2.7	18
51	Experimental and numerical analysis of iso-octane/ethanol sprays under gasoline engine conditions. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 84, 497-510	4.9	16
50	Model-based virtual engine calibration with the help of phenomenological methods for spark-ignited engines. <i>Applied Thermal Engineering</i> , 2017 , 121, 190-199	5.8	15
49	Quantification of mixture composition, liquid-phase fraction and - temperature in transcritical sprays. <i>Journal of Supercritical Fluids</i> , 2020 , 159, 104777	4.2	14
48	Multi-hole gasoline direct injection: In-nozzle flow and primary breakup investigated in transparent nozzles and with X-ray. <i>International Journal of Engine Research</i> , 2018 , 19, 67-77	2.7	13
47	Derivation and validation of a heat transfer model in a hydrogen combustion engine. <i>Applied Thermal Engineering</i> , 2016 , 98, 502-512	5.8	13

46	Fuel Distribution and Mixture Formation Inside a Direct Injection SI Engine Investigated by 2D Mie and LIEF Techniques 1999 ,		13
45	Characterization of Internal flow and Spray of Multihole DI Gasoline Spray using X-ray Imaging and CFD 2011 ,		12
44	Effects of Exhaust Gas Dilution on the Laminar Burning Velocity of Real-World Gasoline Fuel Flame in Air. <i>Energy & Fuels</i> , 2015 , 29, 6768-6779	4.1	11
43	Investigation of Jet-to-Jet Interaction in Sprays for DISI Engines 2015 ,		11
42	Systematic Investigation of the Influence of Ethanol Blending on Sooting Combustion in DISI Engines Using High-Speed Imaging and LII 2014 ,		11
41	Investigation of Fuel Atomization and Evaporation of a DISI Injector Spray Under Homogeneous Charge Conditions. <i>SAE International Journal of Engines</i> , 2013 , 6, 1213-1221	2.4	11
40	A Gasoline Fuelled Pre-Chamber Ignition System for Homogeneous Lean Combustion Processes 2016 ,		11
39	A Quasi-dimensional Model of the Ignition Delay for Combustion Modeling in Spark-Ignition Engines. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015 , 137,	1.7	10
38	Light sheet fluorescence microscopic imaging for the primary breakup of diesel and gasoline sprays with real-world fuels. <i>Applied Optics</i> , 2018 , 57, 2704-2714	1.7	9
37	Laminar burning velocity and ignition delay time for premixed isooctane-air flames with syngas addition. <i>Combustion Theory and Modelling</i> , 2017 , 21, 228-247	1.5	9
36	A novel heat flux burner system to determine the laminar flame velocity of liquid fuels. <i>Fuel Processing Technology</i> , 2013 , 107, 119-125	7.2	9
35	Mixture Formation in a CNG-DI Engine in Stratified Operation 2015 ,		8
34	Investigation of Fuel Effects on Spray Atomization and Evaporation Studied for a Multi-hole DISI Injector with a Late Injection Timing. <i>SAE International Journal of Fuels and Lubricants</i> , 2011 , 5, 254-264	1.8	8
33	A simplified model for a diesel spray. <i>Fuel</i> , 2018 , 222, 485-495	7.1	7
32	The Effect of Ethanol Blending on Combustion and Soot Formation in an Optical DISI Engine Using High-speed Imaging. <i>Energy Procedia</i> , 2015 , 66, 77-80	2.3	7
31	Characterizing Spray Propagation of GDI Injectors under Crossflow Conditions 2018 ,		7
30	Investigations on Gasoline Spray Propagation Behaviour Characteristic for Multihole Injectors 2014 ,		6
29	Air entrainment and mixture distribution in Diesel sprays investigated by optical measurement techniques. <i>International Journal of Engine Research</i> , 2018 , 19, 120-133	2.7	6

28	Experimental investigation of flow field and string cavitation inside a transparent real-size GDI nozzle. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	5
27	Comparison of Shadowgraph Imaging, Laser-Doppler Anemometry and X-Ray Imaging for the Analysis of Near Nozzle Velocities of GDI Fuel Injectors 2017 ,		5
26	Quantitative DISI Spray Vapor Temperature Study for Different Biofuels by Two-Line Excitation Laser-Induced Fluorescence 2012 ,		5
25	Investigation of the Interaction of Charge Motion and Residual Gas Concentration in an Optically Accessible SI Engine 2013 ,		5
24	Development of limited-view tomography for measurement of Spray G plume direction and liquid volume fraction. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	4
23	Influence of the fuel quantity on the spray formation and ignition under current engine relevant conditions 2011 ,		4
22	Modeling the Pilot Injection and the Ignition Process of a Dual Fuel Injector with Experimental Data from a Combustion Chamber Using Detailed Reaction Kinetics		4
21	Characteristics and Application of Gasoline Injectors to SI Engines by Means of Measured Liquid Fuel Distributions 1997 ,		3
20	An Impulse Charging System for SI and Diesel Engines 2002 ,		3
19	Gasoline: Influence of Fuel-Oxygen on NOx-Emissions 1998 ,		3
18	Active Fuelling of a Passenger Car Sized Pre-Chamber Ignition System with Gaseous Components of Gasoline		3
17	GE2-2 Laser-Induced Fluorescence to Visualize Gas Mixture Formation in an Optically Accessible Hydrogen Engine(GE: Gas Engine,General Session Papers). <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2012 , 2012.8, 374-379		3
16	Modelling and understanding deposit formation and reduction in combustion engines Application to the concrete case of internal GDI injector deposit. <i>Fuel</i> , 2019 , 236, 284-296	7.1	3
15	The influence of superheated injection on liquid and gaseous flow field of an experimental single-hole gasoline direct injection injector. <i>International Journal of Engine Research</i> , 2021 , 22, 592-605	2.7	3
14	Phase change in fuel sprays at diesel engine ambient conditions: Impact of fuel physical properties. <i>Journal of Supercritical Fluids</i> , 2021 , 170, 105130	4.2	2
13	The effect of transient needle lift on the internal flow and near-nozzle spray characteristics for modern GDI systems investigated by high-speed X-ray imaging. <i>International Journal of Engine Research</i> ,146808742098675	2.7	2
12	The influence of differential evaporation on the structure of a three-component biofuel spray. <i>International Journal of Engine Research</i> , 2015 , 16, 610-626	2.7	1
11	Time and Spatially Resolved Measurements of the Interaction of Combusting Diesel Spray and Walls with Elevated Temperatures. <i>SAE International Journal of Engines</i> , 2012 , 5, 1709-1716	2.4	1

10	Investigations on a New Engine Concept for Small Hydrogen Power Generation Units Using LOHCs 2013 ,		1
9	Calculation and Measurements of Self-Ignition Nuclei in Diesel Combustion. <i>Energy & Fuels</i> , 2010 , 24, 811-820	4.1	1
8	Optical Investigations on Partially Premixed Diesel Combustion for Different Operating Parameters 2008 ,		1
7	Investigation of Mixture Formation and Flammability of Natural Gas and Diesel under Dual Fuel Operating Conditions in the Limits of Flame-quenching and Knocking. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2017 , 2017.9, B109		1
6	Correlating gasoline spray propagation in Constant Volume Chamber and optically accessible engines. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2017 , 2017.9, B109		1
5	FL1-4 Effects of fuel composition on spray ignition under engine relevant conditions(FL: Fuels,General Session Papers). <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2012 , 2012.8, 317-322		0
4	Phase change in fuel sprays at diesel engine ambient conditions: Modeling and experimental validation. <i>Journal of Supercritical Fluids</i> , 2021 , 173, 105224	4.2	0
3	3D simulation of a ballistic direct injection cycle for the assessment of fuel property effects on cavitating injector internal flow dynamics and primary breakup. <i>Fuel</i> , 2022 , 308, 121775	7.1	0
2	Zweidimensionale quantitative Bestimmung der Tropfengröße in Sprays. <i>Chemie-Ingenieur-Technik</i> , 1998 , 70, 405-408	0.8	
1	Experimental Diagnostics and Investigations on Cavitation in Engine Injector Nozzles 2021 , 265-302		