

Manolis Gavaises

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7599985/publications.pdf>

Version: 2024-02-01

191
papers

5,890
citations

94381

37
h-index

123376

61
g-index

192
all docs

192
docs citations

192
times ranked

3049
citing authors

#	ARTICLE	IF	CITATIONS
1	An analytical model of diesel injector's needle valve eccentric motion. International Journal of Engine Research, 2022, 23, 469-481.	1.4	5
2	Machine Learning and transcritical sprays: A demonstration study of their potential in ECN Spray-A. International Journal of Engine Research, 2022, 23, 1556-1572.	1.4	16
3	Numerical simulation of fuel dribbling and nozzle wall wetting. International Journal of Engine Research, 2022, 23, 132-149.	1.4	13
4	Flow visualisation in real-size optical injectors of conventional, additised, and renewable gasoline blends. Energy Conversion and Management, 2022, 252, 115109.	4.4	9
5	The role of hydrogen for future internal combustion engines. International Journal of Engine Research, 2022, 23, 529-540.	1.4	95
6	Droplet nuclei caustic formations in exhaled vortex rings. Scientific Reports, 2022, 12, 3892.	1.6	2
7	Hole-to-hole variations in coupled flow and spray simulation of a double-layer multi-holes diesel nozzle. International Journal of Engine Research, 2021, 22, 3233-3246.	1.4	7
8	Preferential cavitation and friction-induced heating of multi-component Diesel fuel surrogates up to 450MPa. International Journal of Heat and Mass Transfer, 2021, 166, 120744.	2.5	22
9	A simple model for breakup time prediction of water-heavy fuel oil emulsion droplets. International Journal of Heat and Mass Transfer, 2021, 164, 120581.	2.5	21
10	Entropy-scaling based pseudo-component viscosity and thermal conductivity models for hydrocarbon mixtures and fuels containing iso-alkanes and two-ring saturates. Fuel, 2021, 283, 118877.	3.4	5
11	Numerical Investigation of the Aerodynamic Droplet Breakup at Mach Numbers Greater Than 1. Journal of Energy Engineering - ASCE, 2021, 147, .	1.0	14
12	Atomization Mechanism of Internally Mixing Twin-Fluid Y-Jet Atomizer. Journal of Energy Engineering - ASCE, 2021, 147, 04020075.	1.0	14
13	10.1063/5.0038475.3. , 2021, , .		0
14	X-ray phase contrast and absorption imaging for the quantification of transient cavitation in high-speed nozzle flows. Physics of Fluids, 2021, 33, .	1.6	11
15	10.1063/5.0038475.4. , 2021, , .		0
16	10.1063/5.0038475.2. , 2021, , .		0
17	10.1063/5.0038475.1. , 2021, , .		0
18	Modelling and prediction of cavitation erosion in GDI injectors operated with E100 fuel. Fuel, 2021, 289, 119923.	3.4	10

#	ARTICLE	IF	CITATIONS
19	Transient Cavitation and Friction-Induced Heating Effects of Diesel Fuel during the Needle Valve Early Opening Stages for Discharge Pressures up to 450 MPa. <i>Energies</i> , 2021, 14, 2923.	1.6	11
20	Machine-learning enabled prediction of 3D spray under engine combustion network spray G conditions. <i>Fuel</i> , 2021, 293, 120444.	3.4	19
21	A direct forcing immersed boundary method for cavitating flows. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 3092-3130.	0.9	4
22	Micro-pillar sensor based wall-shear mapping in pulsating flows: In-situ calibration and measurements in an aortic heart-valve tester. <i>Journal of Fluids and Structures</i> , 2021, 105, 103346.	1.5	2
23	Droplet aerobreakup under the shear-induced entrainment regime using a multiscale two-fluid approach. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	13
24	Simulation of transient effects in a fuel injector nozzle using real-fluid thermodynamic closure. <i>Applications in Energy and Combustion Science</i> , 2021, 7, 100037.	0.9	7
25	Modelling of liquid oxygen nozzle flows under subcritical and supercritical pressure conditions. <i>International Journal of Heat and Mass Transfer</i> , 2021, 177, 121559.	2.5	8
26	Cavitation in Positive Displacement Pumps. , 2021, , 303-329.		1
27	X-ray Measurement Techniques Used for Wall-Bounded Cavitating Flows. , 2021, , 211-248.		0
28	Review of Numerical Methodologies for Modeling Cavitation. , 2021, , 1-35.		2
29	Combined visualisation of cavitation and vortical structures in a real-size optical diesel injector. <i>Experiments in Fluids</i> , 2021, 62, 1.	1.1	10
30	Modelling of Diesel fuel properties through its surrogates using Perturbed-Chain, Statistical Associating Fluid Theory. <i>International Journal of Engine Research</i> , 2020, 21, 1118-1133.	1.4	16
31	A numerical study on the effect of cavitation erosion in a diesel injector. <i>Applied Mathematical Modelling</i> , 2020, 78, 200-216.	2.2	46
32	IJER editorial: The future of the internal combustion engine. <i>International Journal of Engine Research</i> , 2020, 21, 3-10.	1.4	457
33	Cavitation erosion risk indicators for a thin gap within a diesel fuel pump. <i>Wear</i> , 2020, 442-443, 203024.	1.5	15
34	Vapor-liquid equilibria and mixture densities for 2,2,4,4,6,8,8-heptamethylnonane + N ₂ and n-hexadecane + N ₂ binary mixtures up to 535 K and 135 MPa. <i>Fluid Phase Equilibria</i> , 2020, 506, 112378.	1.4	8
35	Investigation of cavitation and air entrainment during pilot injection in real-size multi-hole diesel nozzles. <i>Fuel</i> , 2020, 263, 116746.	3.4	36
36	Non-Newtonian flow of highly-viscous oils in hydraulic components. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 275, 104221.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Experimental and modeling investigations of the interfacial tension of three different diesel+Nitrogen mixtures at high pressures and temperatures. Fuel, 2020, 280, 118543.	3.4	8
38	Investigation of cavitation and vapor shedding mechanisms in a Venturi nozzle. Physics of Fluids, 2020, 32, .	1.6	51
39	Vapor-liquid equilibrium calculations at specified composition, density and temperature with the perturbed chain statistical associating fluid theory (PC-SAFT) equation of state. Fluid Phase Equilibria, 2020, 521, 112661.	1.4	8
40	Bioinspired snapping-claw apparatus to study hydrodynamic cavitation effects on the corrosion of metallic samples. Review of Scientific Instruments, 2020, 91, 066101.	0.6	8
41	Numerical investigation of heavy fuel oil droplet breakup enhancement with water emulsions. Fuel, 2020, 278, 118381.	3.4	35
42	Solution of cavitating compressible flows using Discontinuous Galerkin discretisation. Journal of Computational Physics, 2020, 410, 109377.	1.9	8
43	Experimental and modeling investigations of the phase behavior and densities of diesel+Nitrogen mixtures. Fuel, 2020, 265, 117027.	3.4	8
44	A two-fluid model with dynamic local topology detection: Application to high-speed droplet impact. Journal of Computational Physics, 2020, 408, 109225.	1.9	11
45	A model for the investigation of the second-order structure of caustic formations in dispersed flows. Journal of Fluid Mechanics, 2020, 892, .	1.4	3
46	High pressure/high temperature multiphase simulations of dodecane injection to nitrogen: Application on ECN Spray-A. Fuel, 2020, 275, 117871.	3.4	44
47	Interfacial Tension of Isomers n-Hexadecane and 2,2,4,4,6,8,8-Heptamethylnonane with Nitrogen at High Pressures and Temperatures. Industrial & Engineering Chemistry Research, 2020, 59, 9293-9299.	1.8	8
48	Influence of Diesel Fuel Viscosity on Cavitating Throttle Flow Simulations under Erosive Operation Conditions. ACS Omega, 2020, 5, 7182-7192.	1.6	13
49	Multiphase Phenomena in Diesel Fuel Injection Systems. Energy, Environment, and Sustainability, 2020, , 95-126.	0.6	3
50	Numerical investigation of the aerodynamic breakup of a parallel moving droplet cluster. International Journal of Multiphase Flow, 2019, 121, 103123.	1.6	11
51	Effect of Composition, Temperature, and Pressure on the Viscosities and Densities of Three Diesel Fuels. Journal of Chemical & Engineering Data, 2019, 64, 5529-5547.	1.0	26
52	Complex multicomponent real-fluid thermodynamic model for high-pressure Diesel fuel injection. Fuel, 2019, 257, 115888.	3.4	20
53	Cavitation induction by projectile impacting on a water jet. International Journal of Multiphase Flow, 2019, 114, 128-139.	1.6	23
54	High-Temperature, High-Pressure Viscosities and Densities of n-Hexadecane, 2,2,4,4,6,8,8-Heptamethylnonane, and Squalane Measured Using a Universal Calibration for a Rolling-Ball Viscometer/Densimeter. Industrial & Engineering Chemistry Research, 2019, 58, 4303-4316.	1.8	15

#	ARTICLE	IF	CITATIONS
55	General method for prediction of thermal conductivity for well-characterized hydrocarbon mixtures and fuels up to extreme conditions using entropy scaling. <i>Fuel</i> , 2019, 245, 594-604.	3.4	22
56	Improved droplet breakup models for spray applications. <i>International Journal of Heat and Fluid Flow</i> , 2019, 76, 274-286.	1.1	26
57	Numerical investigations on bubble-induced jetting and shock wave focusing: application on a needle-free injection. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180548.	1.0	7
58	Numerical simulation of three-phase flow in an external gear pump using immersed boundary approach. <i>Applied Mathematical Modelling</i> , 2019, 72, 682-699.	2.2	35
59	Entropy scaling based viscosity predictions for hydrocarbon mixtures and diesel fuels up to extreme conditions. <i>Fuel</i> , 2019, 241, 1203-1213.	3.4	56
60	Implementation of the Semi Empirical Kinetic Soot Model Within Chemistry Tabulation Framework for Efficient Emissions Predictions in Diesel Engines. <i>Open Physics</i> , 2019, 17, 905-915.	0.8	3
61	THE INFLUENCE OF GEOMETRICAL AND OPERATIONAL PARAMETERS ON INTERNAL FLOW CHARACTERISTICS OF INTERNALLY MIXING TWIN-FLUID Y-JET ATOMIZERS. <i>Atomization and Sprays</i> , 2019, 29, 403-428.	0.3	6
62	Simulation of supercritical diesel jets using the PC-SAFT EoS. <i>Journal of Supercritical Fluids</i> , 2019, 145, 48-65.	1.6	20
63	Numerical investigation of the aerodynamic breakup of droplets in tandem. <i>International Journal of Multiphase Flow</i> , 2019, 113, 289-303.	1.6	19
64	Purely predictive method for density, compressibility, and expansivity for hydrocarbon mixtures and diesel and jet fuels up to high temperatures and pressures. <i>Fuel</i> , 2019, 236, 1377-1390.	3.4	46
65	Determination of the aerodynamic droplet breakup boundaries based on a total force approach. <i>International Journal of Heat and Fluid Flow</i> , 2018, 69, 164-173.	1.1	13
66	High-speed visualization of vortical cavitation using synchrotron radiation. <i>Journal of Fluid Mechanics</i> , 2018, 838, 148-164.	1.4	37
67	Simulation of micro-flow dynamics at low capillary numbers using adaptive interface compression. <i>Computers and Fluids</i> , 2018, 165, 13-32.	1.3	22
68	On viscoelastic cavitating flows: A numerical study. <i>Physics of Fluids</i> , 2018, 30, .	1.6	15
69	Prediction of cavitation and induced erosion inside a high-pressure fuel pump. <i>International Journal of Engine Research</i> , 2018, 19, 360-373.	1.4	14
70	Experimental Study of Diesel-Fuel Droplet Impact on a Similarly Sized Polished Spherical Heated Solid Particle. <i>Langmuir</i> , 2018, 34, 36-49.	1.6	29
71	Smoothed particle hydrodynamics simulation of a laser pulse impact onto a liquid metal droplet. <i>PLoS ONE</i> , 2018, 13, e0204125.	1.1	9
72	Illustrating the effect of viscoelastic additives on cavitation and turbulence with X-ray imaging. <i>Scientific Reports</i> , 2018, 8, 14968.	1.6	24

#	ARTICLE	IF	CITATIONS
73	Turbulence and Cavitation Suppression by Quaternary Ammonium Salt Additives. Scientific Reports, 2018, 8, 7636.	1.6	18
74	We -T classification of diesel fuel droplet impact regimes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170759.	1.0	12
75	Simulation of transcritical fluid jets using the PC-SAFT EoS. Journal of Computational Physics, 2018, 374, 444-468.	1.9	23
76	Wall shear stress from jetting cavitation bubbles. Journal of Fluid Mechanics, 2018, 846, 341-355.	1.4	97
77	Parametric Investigations of the Induced Shear Stress by a Laser-Generated Bubble. Langmuir, 2018, 34, 6428-6442.	1.6	31
78	Modelling cavitation during drop impact on solid surfaces. Advances in Colloid and Interface Science, 2018, 260, 46-64.	7.0	29
79	Numerical simulation of cavitation and atomization using a fully compressible three-phase model. Physical Review Fluids, 2018, 3, .	1.0	45
80	Cloud cavitation vortex shedding inside an injector nozzle. Experimental Thermal and Fluid Science, 2017, 84, 179-189.	1.5	32
81	Numerical investigation of bubble dynamics using tabulated data. International Journal of Multiphase Flow, 2017, 93, 158-177.	1.6	39
82	Quantitative predictions of cavitation presence and erosion-prone locations in a high-pressure cavitation test rig. Journal of Fluid Mechanics, 2017, 819, 21-57.	1.4	33
83	Comparative evaluation of phase-change mechanisms for the prediction of flashing flows. International Journal of Multiphase Flow, 2017, 95, 257-270.	1.6	33
84	Novel experimental technique for 3D investigation of high-speed cavitating diesel fuel flows by X-ray micro computed tomography. Review of Scientific Instruments, 2017, 88, 033706.	0.6	16
85	Unveiling the physical mechanism behind pistol shrimp cavitation. Scientific Reports, 2017, 7, 13994.	1.6	42
86	Modelling of thrombin generation under flow in realistic left anterior descending geometries. Medical Engineering and Physics, 2017, 50, 50-58.	0.8	1
87	Numerical investigation of the aerodynamic breakup of Diesel and heavy fuel oil droplets. International Journal of Heat and Fluid Flow, 2017, 68, 203-215.	1.1	26
88	Numerical investigation of heavy fuel droplet-particle collisions in the injection zone of a Fluid Catalytic Cracking reactor, part II: 3D simulations. Fuel Processing Technology, 2017, 156, 43-53.	3.7	28
89	Numerical investigation of heavy fuel droplet-particle collisions in the injection zone of a Fluid Catalytic Cracking reactor, Part I: Numerical model and 2D simulations. Fuel Processing Technology, 2017, 156, 317-330.	3.7	35
90	Performance of turbulence and cavitation models in prediction of incipient and developed cavitation. International Journal of Engine Research, 2017, 18, 333-350.	1.4	68

#	ARTICLE	IF	CITATIONS
91	A numerical study on droplet-particle collision dynamics. International Journal of Heat and Fluid Flow, 2016, 61, 499-509.	1.1	54
92	Derivation of flow related risk indices for stenosed left anterior descending coronary arteries with the use of computer simulations. Medical Engineering and Physics, 2016, 38, 929-939.	0.8	18
93	Application of X-ray micro-computed tomography on high-speed cavitating diesel fuel flows. Experiments in Fluids, 2016, 57, 1.	1.1	32
94	Numerical simulation of a collapsing bubble subject to gravity. Physics of Fluids, 2016, 28, .	1.6	71
95	Simulation of bubble expansion and collapse in the vicinity of a free surface. Physics of Fluids, 2016, 28, .	1.6	119
96	Compressible simulations of bubble dynamics with central-upwind schemes. International Journal of Computational Fluid Dynamics, 2016, 30, 129-140.	0.5	12
97	Numerical investigation of aerodynamic droplet breakup in a high temperature gas environment. Fuel, 2016, 181, 450-462.	3.4	38
98	Aerodynamic breakup of an n -decane droplet in a high temperature gas environment. Fuel, 2016, 185, 370-380.	3.4	21
99	Predicting the evaporation rate of stationary droplets with the VOF methodology for a wide range of ambient temperature conditions. International Journal of Thermal Sciences, 2016, 109, 253-262.	2.6	49
100	Predicting droplet deformation and breakup for moderate Weber numbers. International Journal of Multiphase Flow, 2016, 85, 96-109.	1.6	53
101	Large Eddy Simulation of Diesel injector including cavitation effects and correlation to erosion damage. Fuel, 2016, 175, 26-39.	3.4	79
102	TOPOLOGY AND DISTINCT FEATURES OF FLASHING FLOW IN AN INJECTOR NOZZLE. Atomization and Sprays, 2016, 26, 1307-1336.	0.3	2
103	Application of cone-beam micro-CT on high-speed Diesel flows and quantitative cavitation measurements. Journal of Physics: Conference Series, 2015, 656, 012094.	0.3	2
104	Evaluation of friction heating in cavitating high pressure Diesel injector nozzles. Journal of Physics: Conference Series, 2015, 656, 012083.	0.3	6
105	String cavitation formation inside fuel injectors. Journal of Physics: Conference Series, 2015, 656, 012099.	0.3	1
106	Modelling of single bubble-dynamics and thermal effects. Journal of Physics: Conference Series, 2015, 656, 012098.	0.3	1
107	Simulation of throttle flow with two phase and single phase homogenous equilibrium model. Journal of Physics: Conference Series, 2015, 656, 012086.	0.3	14
108	Compressible bubble dynamic simulations with central-upwind schemes. Journal of Physics: Conference Series, 2015, 656, 012087.	0.3	0

#	ARTICLE	IF	CITATIONS
109	Large Eddy Simulation of diesel injector opening with a two phase cavitation model. Journal of Physics: Conference Series, 2015, 656, 012088.	0.3	1
110	Evaluation of Turbulence Models Performance in Predicting Incipient Cavitation in an Enlarged Step-Nozzle. Journal of Physics: Conference Series, 2015, 656, 012095.	0.3	1
111	Numerical investigation of quasi-static bubble growth and detachment from submerged orifices in isothermal liquid pools: The effect of varying fluid properties and gravity levels. International Journal of Multiphase Flow, 2015, 74, 59-78.	1.6	57
112	Coupling a local adaptive grid refinement technique with an interface sharpening scheme for the simulation of two-phase flow and free-surface flows using VOF methodology. Journal of Computational Physics, 2015, 300, 732-753.	1.9	36
113	A cavitation aggressiveness index within the Reynolds averaged Navier Stokes methodology for cavitating flows. Journal of Hydrodynamics, 2015, 27, 579-586.	1.3	19
114	Transient heating effects in high pressure Diesel injector nozzles. International Journal of Heat and Fluid Flow, 2015, 51, 257-267.	1.1	53
115	Visualisation and les simulation of cavitation cloud formation and collapse in an axisymmetric geometry. International Journal of Multiphase Flow, 2015, 68, 14-26.	1.6	70
116	A simplified mathematical model for thrombin generation. Medical Engineering and Physics, 2014, 36, 196-204.	0.8	17
117	Friction-induced heating in nozzle hole micro-channels under extreme fuel pressurisation. Fuel, 2014, 123, 143-150.	3.4	41
118	Instantaneous and ensemble average cavitation structures in Diesel micro-channel flow orifices. Fuel, 2014, 116, 736-742.	3.4	77
119	On the formation of string cavitation inside fuel injectors. Experiments in Fluids, 2014, 55, 1.	1.1	31
120	VOF simulations of the contact angle dynamics during the drop spreading: Standard models and a new wetting force model. Advances in Colloid and Interface Science, 2014, 212, 1-20.	7.0	158
121	Editorial: Special Issue on Cavitation in Engine Systems. International Journal of Engine Research, 2013, 14, 541-542.	1.4	2
122	Mapping of cavitating flow regimes in injectors for medium-/heavy-duty diesel engines. International Journal of Engine Research, 2013, 14, 590-605.	1.4	20
123	Flow Patterns at Stented Coronary Bifurcations. Circulation: Cardiovascular Interventions, 2012, 5, 530-539.	1.4	55
124	Spray stability from VCO and a new Diesel nozzle design concept. , 2012, , 279-290.		6
125	Simulation of Heating Effects Caused by Extreme Fuel Pressurisation in Cavitating Flows through Diesel Fuel Injectors. , 2012, , .		9
126	Modelling of Transport Phenomena in Diesel Sprays at Late-Cycle Post-Injection Conditions. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
127	Pore scale 3D modelling of heat and mass transfer in the gas diffusion layer and cathode channel of a PEM fuel cell. <i>International Journal of Thermal Sciences</i> , 2011, 50, 456-467.	2.6	27
128	Non-dimensionalisation parameters for predicting the cooling effectiveness of droplets impinging on moderate temperature solid surfaces. <i>International Journal of Thermal Sciences</i> , 2011, 50, 698-711.	2.6	32
129	Numerical investigation of the evaporation of two-component droplets. <i>Fuel</i> , 2011, 90, 1492-1507.	3.4	70
130	Numerical investigation of a multiple injection strategy on the development of high-pressure diesel sprays. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2010, 224, 125-141.	1.1	9
131	Vortex formation and recirculation zones in left anterior descending artery stenoses: computational fluid dynamics analysis. <i>Physics in Medicine and Biology</i> , 2010, 55, 1395-1411.	1.6	36
132	SINGLE DROPLET IMPACTS ONTO DEPOSITED DROPS. NUMERICAL ANALYSIS AND COMPARISON. <i>Atomization and Sprays</i> , 2010, 20, 935-953.	0.3	3
133	The role of droplet fragmentation in high-pressure evaporating diesel sprays. <i>International Journal of Thermal Sciences</i> , 2009, 48, 554-572.	2.6	30
134	Characterization of string cavitation in large-scale Diesel nozzles with tapered holes. <i>Physics of Fluids</i> , 2009, 21, .	1.6	79
135	INFLUENCE OF VORTEX FLOW AND CAVITATION ON NEAR-NOZZLE DIESEL SPRAY DISPERSION ANGLE. <i>Small Group Research</i> , 2009, 19, 247-261.	1.8	62
136	FORMATION AND DEVELOPMENT OF WALL LIQUID FILMS DURING IMPACTION OF GASOLINE FUEL SPRAYS. <i>Small Group Research</i> , 2009, 19, 701-726.	1.8	7
137	Modelling of high-pressure dense diesel sprays with adaptive local grid refinement. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 427-448.	1.1	44
138	A new method of three-dimensional coronary artery reconstruction from X-ray angiography: Validation against a virtual phantom and multislice computed tomography. <i>Catheterization and Cardiovascular Interventions</i> , 2008, 71, 28-43.	0.7	33
139	Numerical investigation on the evaporation of droplets depositing on heated surfaces at low Weber numbers. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 1516-1529.	2.5	81
140	Numerical investigation of the cooling effectiveness of a droplet impinging on a heated surface. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 4728-4742.	2.5	60
141	Simulation of cardiac motion on non-Newtonian, pulsating flow development in the human left anterior descending coronary artery. <i>Physics in Medicine and Biology</i> , 2008, 53, 4875-4892.	1.6	57
142	Flow in valve covered orifice nozzles with cylindrical and tapered holes and link to cavitation erosion and engine exhaust emissions. <i>International Journal of Engine Research</i> , 2008, 9, 435-447.	1.4	57
143	Simulation of cavitation in outward-opening piezo-type pintle injector nozzles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2008, 222, 1895-1910.	1.1	11
144	Modelling of cavitation in diesel injector nozzles. <i>Journal of Fluid Mechanics</i> , 2008, 616, 153-193.	1.4	168

#	ARTICLE	IF	CITATIONS
145	Vortex flow and cavitation in diesel injector nozzles. <i>Journal of Fluid Mechanics</i> , 2008, 610, 195-215.	1.4	152
146	EVAPORATION OF A SUSPENDED MULTICOMPONENT DROPLET UNDER CONVECTIVE CONDITIONS. , 2008, , .		5
147	Multi-component fuel vaporization modelling and its effect on spray development in gasoline direct injection engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2007, 221, 1321-1342.	1.1	18
148	Prediction of Liquid and Vapor Penetration of High Pressure Diesel Sprays. , 2006, , .		8
149	Experimental Investigation on the Performance of Proton Exchange Membrane Fuel Cell (PEM) for High Power and Water Management. <i>Journal of Physics: Conference Series</i> , 2006, 45, 214-214.	0.3	0
150	Dynamics of water droplets detached from porous surfaces of relevance to PEM fuel cells. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 673-687.	5.0	237
151	Fabrication Methods and Properties of Open and Closed Cell Foams. <i>Advanced Materials Research</i> , 2006, 15-17, 428-432.	0.3	0
152	Spray Characteristics of a Multi-hole Injector for Direct-Injection Gasoline Engines. <i>International Journal of Engine Research</i> , 2006, 7, 255-270.	1.4	76
153	Modelling of internal and near-nozzle flow of a pintle-type outwards-opening gasoline piezo-injector. <i>International Journal of Engine Research</i> , 2006, 7, 381-397.	1.4	21
154	Effect of piezo-driven and solenoid-driven needle opening of common-rail diesel injectors on internal nozzle flow and spray development. <i>International Journal of Engine Research</i> , 2006, 7, 489-502.	1.4	16
155	Nozzle Flow and Spray Characteristics from VCO Diesel Injector Nozzles. , 2004, , 31-48.		6
156	Nozzle Hole Film Formation and its Link to Spray Characteristics in Swirl-Pressure Atomizers for Direct Injection Gasoline Engines. , 2002, , .		7
157	Modelling of sprays from high-pressure swirl atomizers. <i>International Journal of Engine Research</i> , 2001, 2, 95-117.	1.4	29
158	Visualisation de la cavitation dans les injecteurs de moteurs Diesel. <i>Mecanique Et Industries</i> , 2001, 2, 375-381.	0.2	34
159	Pressure-Swirl Atomizers for DISI Engines: Further Modeling and Experiments. , 2000, , .		14
160	Modeling of Advanced High-Pressure Fuel Injection Systems for Passenger Car Diesel Engines. , 1999, , .		11
161	LINKING NOZZLE FLOW WITH SPRAY CHARACTERISTICS IN A DIESEL FUEL INJECTION SYSTEM. <i>Atomization and Sprays</i> , 1998, 8, 307-347.	0.3	97
162	Modeling wall impaction of diesel sprays. <i>International Journal of Heat and Fluid Flow</i> , 1996, 17, 130-138.	1.1	24

#	ARTICLE	IF	CITATIONS
163	Evaluation of the Effect of Droplet Collisions on Spray Mixing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 1996, 210, 465-475.	1.1	44
164	Evaluation of Pump Design Parameters in Diesel Fuel Injection Systems. , 0, , .		9
165	Effect of Fuel Injection Processes on the Structure of Diesel Sprays. , 0, , .		98
166	Application of a FIE Computer Model to an In-Line Pump-Based Injection System for Diesel Engines. , 0, , .		13
167	Analysis of the Flow in the Nozzle of a Vertical Multi-Hole Diesel Engine Injector. , 0, , .		64
168	Investigation of Cavitation in a Vertical Multi-Hole Injector. , 0, , .		71
169	Modeling of Pressure-Swirl Atomizers for GDI Engines. , 0, , .		24
170	Cavitation in Real-Size Multi-Hole Diesel Injector Nozzles. , 0, , .		124
171	Spray and Combustion Development in a Four-Valve Optical DI Diesel Engine. , 0, , .		8
172	Structure of high-pressure diesel sprays. , 0, , .		4
173	Cavitation Initiation, Its Development and Link with Flow Turbulence in Diesel Injector Nozzles. , 0, , .		66
174	Effect of Multi-Injection Strategy on Cavitation Development in Diesel Injector Nozzle Holes. , 0, , .		31
175	Cavitation Inside Multi-hole Injectors for Large Diesel Engines and Its Effect on the Near-nozzle Spray Structure. , 0, , .		57
176	An Adjoint Method for Hole Cavitating Control Through Inverse Nozzle Design. , 0, , .		1
177	Link Between Cavitation Development and Erosion Damage in Diesel Injector Nozzles. , 0, , .		37
178	Cavitation in Fuel Injection Systems for Spray-Guided Direct Injection Gasoline Engines. , 0, , .		14
179	Spray Structure Generated by Multi-Hole Injectors for Gasoline Direct-Injection Engines. , 0, , .		52
180	Evaluation of the Predictive Capability of Diesel Nozzle Cavitation Models. , 0, , .		47

#	ARTICLE	IF	CITATIONS
181	Influence of the Spatially Resolved Nozzle Hole Exit Flow Distribution on Diesel Spray Development. , 0, , .		3
182	LES Predictions of the Vortical Flow Structures in Diesel Injector Nozzles. , 0, , .		8
183	The Influence of Variable Fuel Properties in High-Pressure Diesel Injectors. , 0, , .		7
184	Prediction of Liquid and Vapour Penetration of Early-Injection Diesel Sprays. , 0, , .		1
185	An Erosion Aggressiveness Index (EAI) Based on Pressure Load Estimation Due to Bubble Collapse in Cavitating Flows Within the RANS Solvers. SAE International Journal of Engines, 0, 8, 2276-2284.	0.4	10
186	Simulation and Measurement of Transient Fluid Phenomena within Diesel Injection. SAE International Journal of Advances and Current Practices in Mobility, 0, 1, 291-305.	2.0	17
187	Numerical simulation of compressible cavitating two-phase flows with a pressure-based solver. , 0, , .		5
188	Numerical investigation of the aerodynamic breakup of diesel droplets under various gas pressures. , 0, , .		1
189	High-speed X-Ray Phase Contrast Imaging of String Cavitation in a Diesel Injector Orifice. , 0, , .		1
190	Supercritical and transcritical real-fluid mixing using the PC-SAFT EOS. , 0, , .		1
191	Numerical Simulation of Multicomponent Diesel Fuel Spray Surrogates Using Real-Fluid Thermodynamic Modelling. , 0, , .		1