

Ioannis K Karathanassis

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

502
citations

840776

11
h-index

794594

19
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25
all docs

25
docs citations

25
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning and transcritical sprays: A demonstration study of their potential in ECN Spray-A. International Journal of Engine Research, 2022, 23, 1556-1572.	2.3	16
2	Flow visualisation in real-size optical injectors of conventional, additised, and renewable gasoline blends. Energy Conversion and Management, 2022, 252, 115109.	9.2	9
3	Soot and PAH formation in high pressure spray pyrolysis of gasoline and diesel fuels. Combustion and Flame, 2022, 241, 112084.	5.2	11
4	10.1063/5.0038475.3., 2021, , .		0
5	X-ray phase contrast and absorption imaging for the quantification of transient cavitation in high-speed nozzle flows. Physics of Fluids, 2021, 33, .	4.0	11
6	10.1063/5.0038475.4., 2021, , .		0
7	10.1063/5.0038475.2., 2021, , .		0
8	10.1063/5.0038475.1., 2021, , .		0
9	Machine-learning enabled prediction of 3D spray under engine combustion network spray G conditions. Fuel, 2021, 293, 120444.	6.4	19
10	X-ray Measurement Techniques Used for Wall-Bounded Cavitating Flows. , 2021, , 211-248.		0
11	Combined visualisation of cavitation and vortical structures in a real-size optical diesel injector. Experiments in Fluids, 2021, 62, 1.	2.4	10
12	Spatio-temporal identification of plume dynamics by 3D computed tomography using engine combustion network spray G injector and various fuels. Fuel, 2020, 280, 118359.	6.4	46
13	Investigation of cavitation and vapor shedding mechanisms in a Venturi nozzle. Physics of Fluids, 2020, 32, .	4.0	51
14	Multiphase Phenomena in Diesel Fuel Injection Systems. Energy, Environment, and Sustainability, 2020, , 95-126.	1.0	3
15	Numerical simulation of three-phase flow in an external gear pump using immersed boundary approach. Applied Mathematical Modelling, 2019, 72, 682-699.	4.2	35
16	Dynamic simulation and exergetic optimization of a Concentrating Photovoltaic/ Thermal (CPVT) system. Renewable Energy, 2019, 135, 1035-1047.	8.9	25
17	High-speed visualization of vortical cavitation using synchrotron radiation. Journal of Fluid Mechanics, 2018, 838, 148-164.	3.4	37
18	Prediction of cavitation and induced erosion inside a high-pressure fuel pump. International Journal of Engine Research, 2018, 19, 360-373.	2.3	14

#	ARTICLE	IF	CITATIONS
19	Experimental Study of Diesel-Fuel Droplet Impact on a Similarly Sized Polished Spherical Heated Solid Particle. <i>Langmuir</i> , 2018, 34, 36-49.	3.5	29
20	Illustrating the effect of viscoelastic additives on cavitation and turbulence with X-ray imaging. <i>Scientific Reports</i> , 2018, 8, 14968.	3.3	24
21	Turbulence and Cavitation Suppression by Quaternary Ammonium Salt Additives. <i>Scientific Reports</i> , 2018, 8, 7636.	3.3	18
22	Cloud cavitation vortex shedding inside an injector nozzle. <i>Experimental Thermal and Fluid Science</i> , 2017, 84, 179-189.	2.7	32
23	Comparative evaluation of phase-change mechanisms for the prediction of flashing flows. <i>International Journal of Multiphase Flow</i> , 2017, 95, 257-270.	3.4	33
24	Multi-objective design optimization of a micro heat sink for Concentrating Photovoltaic/Thermal (CPVT) systems using a genetic algorithm. <i>Applied Thermal Engineering</i> , 2013, 59, 733-744.	6.0	78
25	High-speed X-Ray Phase Contrast Imaging of String Cavitation in a Diesel Injector Orifice. , 0, , .		1