

Donato Fontanarosa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Characterization of unsteady cavitating flow regimes around a hydrofoil, based on an extended Schnerr-Sauer model coupled with a nucleation model. International Journal of Multiphase Flow, 2019, 115, 158-180.	3.4	30
2	Effects on performance, combustion and pollutants of water emulsified fuel in an aeroengine combustor. Applied Energy, 2020, 260, 114263.	10.1	23
3	A novel quasi-one-dimensional model for performance estimation of a Vaporizing Liquid Microthruster. Aerospace Science and Technology, 2019, 84, 1020-1034.	4.8	20
4	Implementation and validation of an extended Schnerr-Sauer cavitation model for non-isothermal flows in OpenFOAM. Energy Procedia, 2017, 126, 58-65.	1.8	17
5	Characterization of cavitating flow regimes in an internal sharp-edged orifice by means of Proper Orthogonal Decomposition. Experimental Thermal and Fluid Science, 2018, 93, 242-256.	2.7	17
6	Numerical Investigation of Nonisothermal Cavitating Flows on Hydrofoils by Means of an Extended Schnerr-Sauer Model Coupled With a Nucleation Model. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	14
7	CFD data of unsteady cavitation around a hydrofoil, based on an extended Schnerr-Sauer model coupled with a nucleation model. Data in Brief, 2019, 25, 104226.	1.0	9
8	Mode characterization and damping measurement of liquid sloshing in cylindrical containers by means of Reference Image Topography. Experimental Thermal and Fluid Science, 2021, 120, 110232.	2.7	9
9	Investigation of the Effects of Plasma Discharges on Methane Decomposition for Combustion Enhancement of a Lean Flame. Energies, 2020, 13, 1452.	3.1	8
10	Optical Diagnostics for Solid Rocket Plumes Characterization: A Review. Energies, 2022, 15, 1470.	3.1	8
11	Numerical investigation of the performance of Contra-Rotating Propellers for a Remotely Piloted Aerial Vehicle. Energy Procedia, 2017, 126, 1011-1018.	1.8	7
12	Modeling viscous effects on boundary layer of rarefied gas flows inside micronozzles in the slip regime condition. Energy Procedia, 2018, 148, 838-845.	1.8	7
13	Fabrication and embedded sensors characterization of a micromachined water-propellant vaporizing liquid microthruster. Applied Thermal Engineering, 2021, 188, 116625.	6.0	7
14	Assessment of the impact of nanosecond plasma discharge on the combustion of methane air flames. E3S Web of Conferences, 2020, 197, 10001.	0.5	6
15	Ignition thresholds and flame propagation of methane-air mixture: detailed kinetic study coupled with electrical measurements of the nanosecond repetitively pulsed plasma discharges. Journal Physics D: Applied Physics, 2022, 55, 315202.	2.8	6
16	Combustion performance of a low NOx gas turbine combustor using urea addition into liquid fuel. Fuel, 2021, 288, 119701.	6.4	5
17	Impact of Population Balance Modeling on the Prediction of Cryogenic Cavitation in Aerospace Propulsion Systems. , 2018, , .		4
18	MEMS Vaporizing Liquid Microthruster: A Comprehensive Review. Applied Sciences (Switzerland), 2021, 11, 8954.	2.5	4

#	ARTICLE	IF	CITATIONS
19	Effects of Emulsified Fuel on the Performance and Emission Characteristics of Aeroengine Combustors. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	4
20	Flow regime characterization of a silicon-based vaporizing liquid microthruster. Acta Astronautica, 2022, 193, 691-703.	3.2	3
21	Active Control of Unsteady Cavitating Flows Over Hydrofoil. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	1.5	3
22	Effect of jet-A1 emulsified fuel on aero-engine performance and emissions. AIP Conference Proceedings, 2019, , .	0.4	2
23	Numerical data concerning the performance estimation of a Vaporizing Liquid Microthruster. Data in Brief, 2019, 22, 307-311.	1.0	2
24	Active Control of Unsteady Cavitating Flows in Turbomachinery. , 2019, , .		2
25	Comparison of numerical predictions of the supersonic expansion inside micronozzles of microâ€resistojets. MATEC Web of Conferences, 2019, 304, 02012.	0.2	1
26	Liquid dynamics sloshing in cylindrical containers: A 3D free-surface reconstruction dataset. Data in Brief, 2020, 33, 106546.	1.0	1
27	Mode decomposition methods for the analysis of cavitating flows in turbomachinery. Energy Procedia, 2018, 148, 924-931.	1.8	0
28	Numerical Investigation of Non-Isothermal Cavitating Flows on Hydrofoils by Means of an Extended Schnerr-Sauer Model Coupled With a Nucleation Model. , 2018, , .		0
29	Impact of plasma actuation on the stability of a co-flow premixed methane-air flame under lean conditions. AIP Conference Proceedings, 2019, , .	0.4	0
30	Experimental data regarding the effects of urea addition into liquid fuel to combustion enhancement of a low NOx gas turbine combustor. Data in Brief, 2021, 34, 106702.	1.0	0
31	Thrust Augmentation of Micro-Resistojets by Steady Micro-Jet Blowing into Planar Micro-Nozzle. Applied Sciences (Switzerland), 2021, 11, 5821.	2.5	0
32	Effects of Emulsified Fuel on the Performance and Emission Characteristics of Aeroengine Combustors. , 2019, , .		0
33	Effects of plasma kinetic modeling on performance characterization of plasma actuators for active flow control. E3S Web of Conferences, 2020, 197, 10004.	0.5	0