

# Donato Fontanarosa

## List of Publications by Year in descending order

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docs citations

33  
times ranked

137  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow regime characterization of a silicon-based vaporizing liquid microthruster. Acta Astronautica, 2022, 193, 691-703.	3.2	3
2	Optical Diagnostics for Solid Rocket Plumes Characterization: A Review. Energies, 2022, 15, 1470.	3.1	8
3	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
4	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
5	Combustion performance of a low NOx gas turbine combustor using urea addition into liquid fuel. Fuel, 2021, 288, 119701.	6.4	5
6	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
7	Fabrication and embedded sensors characterization of a micromachined water-propellant vaporizing liquid microthruster. Applied Thermal Engineering, 2021, 188, 116625.	6.0	7
8	Thrust Augmentation of Micro-Resistojets by Steady Micro-Jet Blowing into Planar Micro-Nozzle. Applied Sciences (Switzerland), 2021, 11, 5821.	2.5	0
9	MEMS Vaporizing Liquid Microthruster: A Comprehensive Review. Applied Sciences (Switzerland), 2021, 11, 8954.	2.5	4
10	Effects on performance, combustion and pollutants of water emulsified fuel in an aeroengine combustor. Applied Energy, 2020, 260, 114263.	10.1	23
11	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
12	Investigation of the Effects of Plasma Discharges on Methane Decomposition for Combustion Enhancement of a Lean Flame. Energies, 2020, 13, 1452.	3.1	8
13	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
14	Active Control of Unsteady Cavitating Flows Over Hydrofoil. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	1.5	3
15	Liquid dynamics sloshing in cylindrical containers: A 3D free-surface reconstruction dataset. Data in Brief, 2020, 33, 106546.	1.0	1
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Comparison of numerical predictions of the supersonic expansion inside micronozzles of microresistojets. MATEC Web of Conferences, 2019, 304, 02012.	0.2	1
20	Effect of jet-A1 emulsified fuel on aero-engine performance and emissions. AIP Conference Proceedings, 2019, , .	0.4	2
21	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
22	Numerical data concerning the performance estimation of a Vaporizing Liquid Microthruster. Data in Brief, 2019, 22, 307-311.	1.0	2
23	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
24	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
25	Active Control of Unsteady Cavitating Flows in Turbomachinery. , 2019, , .		2
26	Effects of Emulsified Fuel on the Performance and Emission Characteristics of Aeroengine Combustors. , 2019, , .		0
27	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
28	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
29	Mode decomposition methods for the analysis of cavitating flows in turbomachinery. Energy Procedia, 2018, 148, 924-931.	1.8	0
30	Numerical Investigation of Non-Isothermal Cavitating Flows on Hydrofoils by Means of an Extended Schnerr-Sauer Model Coupled With a Nucleation Model. , 2018, , .		0
31	Impact of Population Balance Modeling on the Prediction of Cryogenic Cavitation in Aerospace Propulsion Systems. , 2018, , .		4
32	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
33	Numerical investigation of the performance of Contra-Rotating Propellers for a Remotely Piloted Aerial Vehicle. Energy Procedia, 2017, 126, 1011-1018.	1.8	7