

# Benedetta Franzelli

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,010  
citations

623188

14  
h-index

713013

21  
g-index

24  
all docs

24  
docs citations

24  
times ranked

668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Eddy Simulation of combustion instabilities in a lean partially premixed swirled flame. <i>Combustion and Flame</i> , 2012, 159, 621-637.	2.8	274
2	A two-step chemical scheme for kerosene-air premixed flames. <i>Combustion and Flame</i> , 2010, 157, 1364-1373.	2.8	246
3	A tabulated chemistry method for spray combustion. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 1659-1666.	2.4	90
4	Coupling an LES approach and a soot sectional model for the study of sooting turbulent non-premixed flames. <i>Combustion and Flame</i> , 2018, 190, 477-499.	2.8	65
5	Analysis of segregation and bifurcation in turbulent spray flames: A 3D counterflow configuration. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1675-1683.	2.4	57
6	Impact of the chemical description on a Large Eddy Simulation of a lean partially premixed swirled flame. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 247-256.	2.1	32
7	On the generalisation of the mixture fraction to a monotonic mixing-describing variable for the flamelet formulation of spray flames. <i>Combustion Theory and Modelling</i> , 2015, 19, 773-806.	1.0	28
8	Time-resolved spatial patterns and interactions of soot, PAH and OH in a turbulent diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1921-1929.	2.4	28
9	Large Eddy Simulation of Swirled Spray Flame Using Detailed and Tabulated Chemical Descriptions. <i>Flow, Turbulence and Combustion</i> , 2017, 98, 633-661.	1.4	27
10	A three-equation model for the prediction of soot emissions in LES of gas turbines. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5411-5419.	2.4	25
11	Unsteady dynamics of PAH and soot particles in laminar counterflow diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 927-934.	2.4	23
12	A moment method for low speed microflows. <i>Continuum Mechanics and Thermodynamics</i> , 2009, 21, 495-509.	1.4	19
13	Multi-diagnostic soot measurements in a laminar diffusion flame to assess the ISF database consistency. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1355-1363.	2.4	18
14	Analysis of radiative transfer in a turbulent sooting jet flame using a Monte Carlo method coupled to large eddy simulation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 235, 187-203.	1.1	15
15	Experimental investigation of soot production in a confined swirled flame operating under perfectly premixed rich conditions. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 893-901.	2.4	13
16	A post processing technique to predict primary particle size of sooting flames based on a chemical discrete sectional model: Application to diluted coflow flames. <i>Combustion and Flame</i> , 2019, 208, 122-138.	2.8	11
17	Numerical Modeling of Soot Production in Aero-Engine Combustors Using Large Eddy Simulations. , , .		10
18	Numerical investigation of soot-flame-vortex interaction. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 753-761.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Characterizing spray flame–vortex interaction: A spray spectral diagram for extinction. <i>Combustion and Flame</i> , 2016, 163, 100-114.	2.8	9
20	Large Eddy Simulation of Swirling Kerosene/Air Spray Flame Using Tabulated Chemistry. , 2013, , .		3
21	A forward approach for the validation of soot sizing models using laser-induced incandescence (LII). <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	1.1	3
22	Importance of mass and enthalpy conservation in the modelling of titania nanoparticles flame synthesis. <i>Combustion Theory and Modelling</i> , 2021, 25, 389-412.	1.0	2
23	Using In Situ Measurements to Experimentally Characterize TiO <sub>2</sub> Nanoparticle Synthesis in a Turbulent Isopropyl Alcohol Flame. <i>Materials</i> , 2021, 14, 7083.	1.3	2
24	A New Experimental Database for the Investigation of Soot in a Model Scale Swirled Combustor Under Perfectly Premixed Rich Conditions. , 2018, , .		0