

Grazia Lamanna

List of Publications by Year in descending order

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55
papers

738
citations

471509

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h-index

610901

24
g-index

61
all docs

61
docs citations

61
times ranked

387
citing authors

#	ARTICLE	IF	CITATIONS
1	Celebration of Professor Bernhard Weigand on his 60th birthday. International Journal of Heat and Mass Transfer, 2022, 188, 122626.	4.8	0
2	Drop impact onto wetted walls: an unsteady analytical solution for modelling crown spreading. Journal of Fluid Mechanics, 2022, 938, .	3.4	6
3	High-pressure carbon dioxide-organic solvent mixing layers: Global equilibrium models and the transition to single phase mixing. Journal of Supercritical Fluids, 2021, 169, 105024.	3.2	2
4	On the potential and challenges of laser-induced thermal acoustics for experimental investigation of macroscopic fluid phenomena. Experiments in Fluids, 2021, 62, 1.	2.4	7
5	Fluid injection with supercritical reservoir conditions: Overview on morphology and mixing. Journal of Supercritical Fluids, 2021, 169, 105097.	3.2	22
6	Influence of wetting behavior on the morphology of droplet impacts onto dry smooth surfaces. Physics of Fluids, 2021, 33, .	4.0	12
7	Unpicking the interplay of turbulence, diffusion, and thermophysics in cryogenic jets at supercritical pressures. Physics of Fluids, 2021, 33, .	4.0	7
8	Miscibility and wettability: how interfacial tension influences droplet impact onto thin wall films. Journal of Fluid Mechanics, 2021, 908, .	3.4	8
9	Influence of liquid miscibility and wettability on the structures produced by drop-jet collisions. Journal of Fluid Mechanics, 2020, 885, .	3.4	8
10	Droplet velocity and diameter distributions in flash boiling liquid nitrogen jets by means of phase Doppler diagnostics. Experiments in Fluids, 2020, 61, 1.	2.4	11
11	Non-invasive, spatially averaged temperature measurements of falling acetone droplets in nitrogen atmosphere at elevated pressures and temperatures. Journal of Supercritical Fluids, 2020, 166, 105025.	3.2	6
12	On the crown rim expansion kinematics during droplet impact on wall-films. Experimental Thermal and Fluid Science, 2020, 118, 110168.	2.7	8
13	Numerical and experimental analysis of flashing cryogenic nitrogen. International Journal of Multiphase Flow, 2020, 130, 103360.	3.4	22
14	On the Selection of Boundary Conditions for Droplet Evaporation and Condensation at high Pressure and Temperature Conditions from interfacial Transport Resistivities. International Journal of Heat and Mass Transfer, 2020, 151, 119450.	4.8	26
15	Laboratory Experiments of High-Pressure Fluid Drops. , 2020, , 49-109.		15
16	On the Importance of Kinetic Effects in the Modelling of Droplet Evaporation at High Pressure and Temperature Conditions. Fluid Mechanics and Its Applications, 2020, , 277-286.	0.2	1
17	Analytical Model for Crown Spreading During Drop Impact onto Wetted Walls: Effect of Liquids Viscosity on Momentum Transfer. Fluid Mechanics and Its Applications, 2020, , 177-190.	0.2	1
18	A New Perspective for the Characterization of Crown Rim Kinematics. Fluid Mechanics and Its Applications, 2020, , 163-175.	0.2	2

#	ARTICLE	IF	CITATIONS
19	The Influence of Curvature on the Modelling of Droplet Evaporation at Different Scales. Fluid Mechanics and Its Applications, 2020, , 259-276.	0.2	0
20	Splashing characteristics of diesel exhaust fluid (AdBlue) droplets impacting on urea-water solution films. Experimental Thermal and Fluid Science, 2019, 102, 152-162.	2.7	26
21	Experimental and numerical investigation of phase separation due to multicomponent mixing at high-pressure conditions. Physical Review Fluids, 2019, 4, .	2.5	27
22	A quantitative speed of sound database for multi-component jet mixing at high pressure. Fuel, 2018, 233, 918-925.	6.4	14
23	Mixing characterization of highly underexpanded fluid jets with real gas expansion. Experiments in Fluids, 2018, 59, 1.	2.4	11
24	On the importance of non-equilibrium models for describing the coupling of heat and mass transfer at high pressure. International Communications in Heat and Mass Transfer, 2018, 98, 49-58.	5.6	23
25	Two-phase disintegration of high-pressure retrograde fluid jets at near-critical injection temperature discharged into a subcritical pressure atmosphere. International Journal of Multiphase Flow, 2018, 107, 116-130.	3.4	17
26	Modelling and Simulation of Electrically Controlled Droplet Dynamics. Mathematics in Industry, 2018, , 101-109.	0.3	0
27	Electrohydrodynamic simulation of electrically controlled droplet generation. International Journal of Heat and Fluid Flow, 2017, 64, 120-128.	2.4	27
28	A benchmark study for the crown-type splashing dynamics of one- and two-component droplet wall-film interactions. Experiments in Fluids, 2017, 58, 1.	2.4	32
29	Measurement of species concentration and estimation of temperature in the wake of evaporating n-heptane droplets at trans-critical conditions. Proceedings of the Combustion Institute, 2017, 36, 2433-2440.	3.9	17
30	Cryogenic Flashing Jets: A Review (Invited Paper). , 2016, , .		1
31	Speed of sound measurements and mixing characterization of underexpanded fuel jets with supercritical reservoir condition using laser-induced thermal acoustics. Experiments in Fluids, 2016, 57, 1.	2.4	21
32	CLASSIFICATION OF IMPACT MORPHOLOGY AND SPLASHING/DEPOSITION LIMIT FOR N-HEXADECANE. Atomization and Sprays, 2016, 26, 983-1007.	0.8	22
33	FLASHING BEHAVIOR OF ROCKET ENGINE PROPELLANTS. Atomization and Sprays, 2015, 25, 837-856.	0.8	25
34	Temperature and velocity determination of shock-heated flows with non-resonant heterodyne laser-induced thermal acoustics. Applied Physics B: Lasers and Optics, 2015, 121, 235-248.	2.2	23
35	Towards a unified treatment of fully flashing sprays. International Journal of Multiphase Flow, 2014, 58, 168-184.	3.4	104
36	Differential infrared thermography (DIT) in a flashing jet: a feasibility study. Quantitative InfraRed Thermography Journal, 2013, 10, 112-131.	4.2	9

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37	Experimental investigation of isolated acetone droplets at ambient and near-critical conditions, injected in a nitrogen atmosphere. , 2013, , .		8
38	Measurement Technique and Verification of Accuracy for Particle Sizing by Low Angle Elastic Light Scattering. Zhongguo Jiguang/Chinese Journal of Lasers, 2013, 40, 0308004.	1.2	0
39	Disintegration Regimes Near the Critical Point. , 2012, , .		7
40	Single Acetone Droplets at Supercritical Pressure: Droplet Generation and Characterization of PLIFP. Zeitschrift Fur Physikalische Chemie, 2011, 225, 1417-1431.	2.8	6
41	Fluid disintegration studies in a specialized shock tube. , 2011, , .		2
42	Combustion Experiments Performed Within the LAPCAT I Project - An Overview. , 2009, , .		1
43	Shock Tube Study on Hydrocarbon Free Jets using High-Speed Shadowgraphy. , 2008, , .		2
44	Design of a double diaphragm shock tube for fluid disintegration studies. Review of Scientific Instruments, 2008, 79, 125106.	1.3	23
45	Effects of homogeneous condensation in compressible flows: Ludwig-tube experiments and simulations. Journal of Fluid Mechanics, 2007, 572, 339-366.	3.4	46
46	Comparative Study of Equilibrium and Nonequilibrium Evaporation Models for Vaporizing Droplet Arrays at High-Pressure. NATO Science for Peace and Security Series C: Environmental Security, 2007, , 445-455.	0.2	0
47	A Double-Diaphragm Shock Tube for Hydrocarbon Disintegration Studies. , 2006, , .		1
48	Measurements of droplet vaporisation by means of light scattering. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 261, 153-161.	4.7	4
49	Experimental determination of droplet size and density field in condensing flows. Experiments in Fluids, 2002, 32, 381-395.	2.4	31
50	On the stability of stationary shock waves in nozzle flows with homogeneous condensation. Physics of Fluids, 2001, 13, 2706-2719.	4.0	10
51	Condensing nozzle flows: Ludwig tube experiments and numerical/ theoretical modelling. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2001, 81, 569-572.	1.6	2
52	Experimental and Numerical Investigation of Phase Separation due to Multi-Component Mixing at High-Pressure Conditions. , 0, , .		6
53	Generalized analysis of the deposition/splashing limit for one- and two-component droplet impacts upon thin films. , 0, , .		8
54	Experimental Investigation of Droplet Injections in the Vicinity of the Critical Point: A comparison of different model approaches. , 0, , .		2

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55	Evaluation of Geometry-Dependent Spray Hole Individual Mass Flow Rates of Multi-Hole High-Pressure GDI-Injectors Utilizing a Novel Measurement Setup. , 0, , .		0