

# Lucien Baldas

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

493  
citations

623734

14  
h-index

677142

22  
g-index

47  
all docs

47  
docs citations

47  
times ranked

390  
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel experimental setup for gas microflows. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 57-72.	2.2	99
2	Self-ordered particle trains in inertial microchannel flows. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	35
3	Analysis of flow induced by temperature fields in ratchet-like microchannels by Direct Simulation Monte Carlo. <i>International Journal of Heat and Mass Transfer</i> , 2016, 99, 672-680.	4.8	34
4	Miniaturization of fluorescence sensing in optofluidic devices. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	31
5	On the modelling of the switching mechanisms of a Coanda fluidic oscillator. <i>Sensors and Actuators A: Physical</i> , 2019, 299, 111618.	4.1	30
6	Inertial lateral migration and self-assembly of particles in bidisperse suspensions in microchannel flows. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	25
7	Numerical and Experimental Analysis of Monostable Mini- and Micro-Oscillators. <i>Heat Transfer Engineering</i> , 2009, 30, 121-129.	1.9	23
8	Sub-ppb Level Detection of BTEX Gaseous Mixtures with a Compact Prototype GC Equipped with a Preconcentration Unit. <i>Micromachines</i> , 2019, 10, 187.	2.9	20
9	Liquid bridge instability applied to microfluidics. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 336-345.	2.2	18
10	Numerical design of a Knudsen pump with curved channels operating in the slip flow regime. <i>Heat and Mass Transfer</i> , 2014, 50, 1065-1080.	2.1	18
11	Numerical study of thermal creep flow between two ratchet surfaces. <i>Vacuum</i> , 2014, 109, 294-301.	3.5	17
12	Transport of Non-Spherical Particles in Square Microchannel Flows: A Review. <i>Micromachines</i> , 2021, 12, 277.	2.9	17
13	Computational investigation and parametrization of the pumping effect in temperature-driven flows through long tapered channels. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	15
14	Micro molecular tagging velocimetry for analysis of gas flows in mini and micro systems. <i>Microsystem Technologies</i> , 2015, 21, 527-537.	2.0	14
15	Design Guidelines for Thermally Driven Micropumps of Different Architectures Based on Target Applications via Kinetic Modeling and Simulations. <i>Micromachines</i> , 2019, 10, 249.	2.9	13
16	A time-dependent method for the measurement of mass flow rate of gases in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 422-434.	4.8	11
17	Inertial Migration of Neutrally Buoyant Spherical Particles in Square Channels at Moderate and High Reynolds Numbers. <i>Micromachines</i> , 2021, 12, 198.	2.9	9
18	Molecular tagging velocimetry for confined rarefied gas flows: Phosphorescence emission measurements at low pressure. <i>Experimental Thermal and Fluid Science</i> , 2018, 99, 510-524.	2.7	8

#	ARTICLE	IF	CITATIONS
19	Optofluidic Formaldehyde Sensing: Towards On-Chip Integration. <i>Micromachines</i> , 2020, 11, 673.	2.9	6
20	Velocity Measurements in Channel Gas Flows in the Slip Regime by means of Molecular Tagging Velocimetry. <i>Micromachines</i> , 2020, 11, 374.	2.9	6
21	Experimental and Numerical Study of the Frequency Response of a Fluidic Oscillator for Active Flow Control. , 2016, , .		5
22	Thermally driven pumps and diodes in multistage assemblies consisting of microchannels with converging, diverging and uniform rectangular cross sections. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	5
23	Prototyping a Microfluidic Sensor for Real-Time Detection of Airborne Formaldehyde. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , 2020, 11, 23-28.	0.3	5
24	Experimental Characterization of Sub-Millimetric Fluidic Actuators: Application to Boundary Layer Separation Control. <i>Experimental Heat Transfer</i> , 2009, 23, 4-26.	3.2	4
25	Numerical and Experimental Analysis of Monostable Mini- and Micro-Oscillators. , 2007, , 717.		3
26	Numerical analysis of thermal creep flow in curved channels for designing a prototype of Knudsen micropump. <i>Journal of Physics: Conference Series</i> , 2012, 362, 012004.	0.4	3
27	Analysis of Gaseous Flows in Minichannels by Molecular Tagging Velocimetry. , 2012, , .		3
28	Convection forcÃ©e de liquides en rÃ©gime laminaire dans des micro-canaux en silicium. <i>Houille Blanche</i> , 2006, 92, 20-25.	0.3	2
29	Behavior of a Mini Synthetic Jet in a Transverse Wall Flow: Experimental and Numerical Study. , 2007, , .		1
30	Quantitative measurement of gas pressure drop along T-shaped micro channels by interferometry. <i>Journal of Physics: Conference Series</i> , 2012, 362, 012032.	0.4	1
31	Analyse d'Ã©coulements liquides ou gazeux en micro-conduites : dÃ©couplage des incertitudes expÃ©rimentales. <i>Houille Blanche</i> , 2003, 89, 104-110.	0.3	1
32	Influence of Concentration and Number of Image Pairs in $\hat{1}/4$ -PIV Experiments. , 2007, , .		1
33	Jet impingement cooling using fluidic oscillators: an experimental study. <i>Journal of Physics: Conference Series</i> , 2021, 2116, 012028.	0.4	1
34	ContrÃªle actif en aÃ©rodynamique au moyen de micro actionneurs fluidiques. <i>Houille Blanche</i> , 2007, 93, 110-116.	0.3	0
35	Coalescence instable lors du mÃ©lange de microgouttes aqueuses suspendues dans de lâ€™huile silicone. <i>Houille Blanche</i> , 2007, 93, 104-109.	0.3	0
36	Gas Mass Flow Rate Measurement in T-Shaped Microchannels in Slip Flow Regime. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Numerical Simulation of Thermal Transpiration in the Slip Flow Regime With Curved Walls. , 2012, , .		0
38	1st European Conference on Gas Micro Flows (GasMems 2012). Journal of Physics: Conference Series, 2012, 362, 011001.	0.4	0
39	Editorial for the Special Issue on Gas Flows in Microsystems. Micromachines, 2019, 10, 494.	2.9	0
40	Editorial for the Special Issue "Selected Papers from the ISTEGIM 2019" Thermal Effects in Gas Flow in Microscale. Micromachines, 2020, 11, 879.	2.9	0
41	Etude numérique de microdiodes de type convergent/divergent. Houille Blanche, 2003, 89, 43-48.	0.3	0
42	Effets de la double couche électrique sur un écoulement de Poiseuille. Houille Blanche, 2006, 92, 47-52.	0.3	0
43	Wind-tunnel experiments and separation control of a NACA4412 with 25° sweep at high Reynolds numbers. , 2022, , .		0