

# Dario Maggiolo

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

230  
citations

1040056

9  
h-index

1058476

14  
g-index

29  
all docs

29  
docs citations

29  
times ranked

208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle based method and X-ray computed tomography for pore-scale flow characterization in VRFB electrodes. <i>Energy Storage Materials</i> , 2019, 16, 91-96.	18.0	39
2	Flow and dispersion in anisotropic porous media: A lattice-Boltzmann study. <i>Physics of Fluids</i> , 2016, 28, 102001.	4.0	24
3	Calibration Optimization Methodology for Lithium-Ion Battery Pack Model for Electric Vehicles in Mining Applications. <i>Energies</i> , 2020, 13, 3532.	3.1	16
4	Solute transport and reaction in porous electrodes at high Schmidt numbers. <i>Journal of Fluid Mechanics</i> , 2020, 896, .	3.4	16
5	Respiratory droplets interception in fibrous porous media. <i>Physics of Fluids</i> , 2021, 33, 083305.	4.0	15
6	Investigation of steam regeneration strategies for industrial-scale temperature-swing adsorption of benzene on activated carbon. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 167, 108546.	3.6	14
7	On the impact of porous media microstructure on rainfall infiltration of thin homogeneous green roof growth substrates. <i>Journal of Hydrology</i> , 2020, 582, 124286.	5.4	12
8	Self-Cleaning Surfaces for Heat Recovery During Industrial Hydrocarbon-Rich Gas Cooling: An Experimental and Numerical Study. <i>AIChE Journal</i> , 2019, 65, 317-325.	3.6	10
9	Finite-volume method for industrial-scale temperature-swing adsorption simulations. <i>Computers and Chemical Engineering</i> , 2020, 138, 106852.	3.8	10
10	CFD study on electrolyte distribution in redox flow batteries. <i>Journal of Physics: Conference Series</i> , 2015, 655, 012049.	0.4	9
11	Water transport and absorption in pharmaceutical tablets – a numerical study. <i>Meccanica</i> , 2020, 55, 421-433.	2.0	8
12	Pore-Scale Transport and Two-Phase Fluid Structures in Fibrous Porous Layers: Application to Fuel Cells and Beyond. <i>Transport in Porous Media</i> , 2021, 136, 245-270.	2.6	8
13	Industrial-Scale Benzene Adsorption: Assessment of a Baseline One-Dimensional Temperature Swing Model against Online Industrial Data. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 12239-12249.	3.7	7
14	Numerical Frameworks for Laser-Induced Cavitation: Is Interface Supersaturation a Plausible Primary Nucleation Mechanism?. <i>Crystal Growth and Design</i> , 2020, 20, 7276-7290.	3.0	7
15	A continuum-based multiphase DNS method for studying the Brownian dynamics of soot particles in a rarefied gas. <i>Chemical Engineering Science</i> , 2019, 210, 115229.	3.8	6
16	Self-cleaning compact heat exchangers: The role of two-phase flow patterns in design and optimization. <i>International Journal of Multiphase Flow</i> , 2019, 112, 1-12.	3.4	6
17	Effects of bed aging on temperature signals from fixed-bed adsorbers during industrial operation. <i>Results in Engineering</i> , 2020, 8, 100156.	5.1	4
18	The Knudsen Paradox in Micro-Channel Poiseuille Flows with a Symmetric Particle. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 351.	2.5	4

#	ARTICLE	IF	CITATIONS
19	Finite-size effects on heat and mass transfer in porous electrodes. International Journal of Thermal Sciences, 2022, 179, 107610.	4.9	4
20	Momentum transport and laminar friction in rough-wall duct flows. Physics of Fluids, 2013, 25, .	4.0	3
21	Laser-induced vapour bubble as a means for crystal nucleation in supersaturated solutions – Formulation of a numerical framework. Experimental and Computational Multiphase Flow, 2019, 1, 242-254.	3.9	3
22	Assessment of hindered diffusion in arbitrary geometries using a multiphase DNS framework. Chemical Engineering Science, 2021, 230, 116074.	3.8	2
23	A hydrodynamic basis for off-axis Brownian diffusion under intermediate confinements in micro-channels. International Journal of Multiphase Flow, 2021, 143, 103772.	3.4	2
24	Lattice Boltzmann Modeling of Water Cumulation at the Gas Channel-Gas Diffusion Layer Interface in Polymer Electrolyte Membrane Fuel Cells. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	1
25	Lattice Boltzmann Modeling of Water Cumulation at the Gas Channel-Gas Diffusion Layer Interface in PEM Fuel Cells. , 2014, , .		0
26	Contribution of dynamic capillary pressure to rainfall infiltration in thin homogeneous growth substrates. Journal of Hydrology, 2021, 603, 126851.	5.4	0
27	Asymmetric invasion in anisotropic porous media. Physical Review E, 2021, 104, 045103.	2.1	0
28	Reactant Flow in Flow Batteries. , 2021, , .		0
29	On the roles of interstitial liquid and particle shape in modulating microstructural effects in packed-bed adsorbers. Chemical Engineering Research and Design, 2022, 177, 682-693.	5.6	0