Santiago Marquez Damian

List of Publications by Year
in descending order

23	192	1163117 8	1125743 13
papers	citations	h-index	g-index

23	23	23	190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detailed experimental and numerical analysis of hydrodynamics in the outflow measurement channel of a sewage treatment plant. Journal of Hydroinformatics, 2022, 24, 798-817.	2.4	1
2	Numerical simulations of paperâ€based electrophoretic separations with openâ€source tools. Electrophoresis, 2021, 42, 1543-1551.	2.4	5
3	electroMicroTransport v2107: Open-source toolbox for paper-based electromigrative separations. Computer Physics Communications, 2021, 269, 108143.	7.5	1
4	Discrete and Continuum Approaches for Modeling Solids Motion Inside a Rotating Drum at Different Regimes. Applied Sciences (Switzerland), 2021, 11, 10090.	2.5	4
5	A SIMPLE-based algorithm with enhanced velocity corrections: The COMPLEX method. Computers and Fluids, 2020, 198, 104396.	2.5	9
6	MESH RESOLUTION EFFECTS ON PRIMARY ATOMIZATION SIMULATIONS. Atomization and Sprays, 2020, 30, 913-935.	0.8	8
7	Conservative interpolation on surface interfaces for transport problems in the Finite Volume Method. Journal of Computational Physics, 2019, 395, 144-165.	3.8	0
8	Detailed experimental and numerical characterization of turbulent flow in components of a water treatment plant. Water Science and Technology, 2019, 80, 2117-2130.	2.5	3
9	Open-source toolbox for electromigrative separations. Computer Physics Communications, 2019, 237, 244-252.	7.5	11
10	Numerical investigation of bund overtopping under storage tank failure events. Journal of Loss Prevention in the Process Industries, 2018, 52, 113-124.	3.3	12
11	Development of a parallelised fluid solver for problems with mesh interfaces and deforming domains. Computers and Fluids, 2018, 168, 110-129.	2.5	4
12	Assessment of gas-particle flow models for pseudo-2D fluidized bed applications. Chemical Engineering Communications, 2018, 205, 456-478.	2.6	9
13	An oscillation-free flow solver based on flux reconstruction. Journal of Computational Physics, 2018, 365, 135-148.	3.8	10
14	Conservative handling of arbitrary non-conformal interfaces using an efficient supermesh. Journal of Computational Physics, 2017, 335, 21-49.	3.8	24
15	On the stability analysis of the PISO algorithm on collocated grids. Computers and Fluids, 2017, 147, 25-40.	2.5	7
16	An assessment of the potential of PFEM-2 for solving long real-time industrial applications. Computational Particle Mechanics, 2017, 4, 251-267.	3.0	6
17	A central scheme for advecting scalars by velocity fields obtained from Finite Volume multiphase incompressible solvers. Applied Mathematical Modelling, 2016, 40, 6934-6955.	4.2	3
18	Numerical aspects of Eulerian gasâ€“particles flow formulations. Computers and Fluids, 2016, 133, 151-169.	2.5	13

#	Article	IF	Citations
19	An extended mixture model for the simultaneous treatment of smallâ€scale and largeâ€scale interfaces. International Journal for Numerical Methods in Fluids, 2014, 75, 547-574.	1.6	37
20	Residence Time Distribution Determination of a Continuous Stirred Tank Reactor using Computational Fluid Dynamics and its Application on the Mathematical Modeling of Styrene Polymerization. International Journal of Chemical Reactor Engineering, 2012, 10, .	1.1	7
21	Stabilized finite element method based on local preconditioning for unsteady compressible flows in deformable domains with emphasis on the low Mach number limit application. International Journal for Numerical Methods in Fluids, 2012, 69, 124-145.	1.6	4
22	gdbOF: A debugging tool for OpenFOAMÂ®. Advances in Engineering Software, 2012, 47, 17-23.	3.8	9
23	Flow Study and Wetting Efficiency of a Perforated-Plate Tray Distributor in a Trickle Bed Reactor. International Journal of Chemical Reactor Engineering, 2010, 8, .	1.1	5