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List of Publications by Year in descending order

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23
papers

192
citations

1163117

8
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1125743

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23
all docs

23
docs citations

23
times ranked

190
citing authors

#	ARTICLE	IF	CITATIONS
1	An extended mixture model for the simultaneous treatment of small-scale and large-scale interfaces. International Journal for Numerical Methods in Fluids, 2014, 75, 547-574.	1.6	37
2	Conservative handling of arbitrary non-conformal interfaces using an efficient supermesh. Journal of Computational Physics, 2017, 335, 21-49.	3.8	24
3	Numerical aspects of Eulerian gas-particles flow formulations. Computers and Fluids, 2016, 133, 151-169.	2.5	13
4	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
5	Open-source toolbox for electromigrative separations. Computer Physics Communications, 2019, 237, 244-252.	7.5	11
6	An oscillation-free flow solver based on flux reconstruction. Journal of Computational Physics, 2018, 365, 135-148.	3.8	10
7	gdbOF: A debugging tool for OpenFOAM®. Advances in Engineering Software, 2012, 47, 17-23.	3.8	9
8	Assessment of gas-particle flow models for pseudo-2D fluidized bed applications. Chemical Engineering Communications, 2018, 205, 456-478.	2.6	9
9	A SIMPLE-based algorithm with enhanced velocity corrections: The COMPLEX method. Computers and Fluids, 2020, 198, 104396.	2.5	9
10	MESH RESOLUTION EFFECTS ON PRIMARY ATOMIZATION SIMULATIONS. Atomization and Sprays, 2020, 30, 913-935.	0.8	8
11	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
12	On the stability analysis of the PISO algorithm on collocated grids. Computers and Fluids, 2017, 147, 25-40.	2.5	7
13	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
14	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
15	Numerical simulations of paper-based electrophoretic separations with open-source tools. Electrophoresis, 2021, 42, 1543-1551.	2.4	5
16	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
17	Development of a parallelised fluid solver for problems with mesh interfaces and deforming domains. Computers and Fluids, 2018, 168, 110-129.	2.5	4
18	Discrete and Continuum Approaches for Modeling Solids Motion Inside a Rotating Drum at Different Regimes. Applied Sciences (Switzerland), 2021, 11, 10090.	2.5	4

#	ARTICLE	IF	CITATIONS
19	A central scheme for advecting scalars by velocity fields obtained from Finite Volume multiphase incompressible solvers. <i>Applied Mathematical Modelling</i> , 2016, 40, 6934-6955.	4.2	3
20	Detailed experimental and numerical characterization of turbulent flow in components of a water treatment plant. <i>Water Science and Technology</i> , 2019, 80, 2117-2130.	2.5	3
21	electroMicroTransport v2107: Open-source toolbox for paper-based electromigrative separations. <i>Computer Physics Communications</i> , 2021, 269, 108143.	7.5	1
22	Detailed experimental and numerical analysis of hydrodynamics in the outflow measurement channel of a sewage treatment plant. <i>Journal of Hydroinformatics</i> , 2022, 24, 798-817.	2.4	1
23	Conservative interpolation on surface interfaces for transport problems in the Finite Volume Method. <i>Journal of Computational Physics</i> , 2019, 395, 144-165.	3.8	0