

Fabien Evrard

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

224
citations

1163117

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996975

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docs citations

21
times ranked

182
citing authors

#	ARTICLE	IF	CITATIONS
1	Conservative finite-volume framework and pressure-based algorithm for flows of incompressible, ideal-gas and real-gas fluids at all speeds. <i>Journal of Computational Physics</i> , 2020, 409, 109348.	3.8	39
2	Artificial viscosity model to mitigate numerical artefacts at fluid interfaces with surface tension. <i>Computers and Fluids</i> , 2017, 143, 59-72.	2.5	26
3	Estimation of curvature from volume fractions using parabolic reconstruction on two-dimensional unstructured meshes. <i>Journal of Computational Physics</i> , 2017, 351, 271-294.	3.8	23
4	An immersed boundary method for incompressible flows in complex domains. <i>Journal of Computational Physics</i> , 2019, 378, 770-795.	3.8	22
5	A multi-scale approach to simulate atomisation processes. <i>International Journal of Multiphase Flow</i> , 2019, 119, 194-216.	3.4	19
6	Multiscale modeling and validation of the flow around Taylor bubbles surrounded with small dispersed bubbles using a coupled VOF-DBM approach. <i>International Journal of Multiphase Flow</i> , 2021, 141, 103673.	3.4	17
7	Modeling Acoustic Cavitation Using a Pressure-Based Algorithm for Polytopic Fluids. <i>Fluids</i> , 2020, 5, 69.	1.7	14
8	An immersed boundary method for flows with dense particle suspensions. <i>Acta Mechanica</i> , 2019, 230, 485-515.	2.1	9
9	Modeling of interfacial mass transfer based on a single-field formulation and an algebraic VOF method considering non-isothermal systems and large volume changes. <i>Chemical Engineering Science</i> , 2022, 247, 116855.	3.8	9
10	Surface Reconstruction from Discrete Indicator Functions. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2019, 25, 1629-1635.	4.4	8
11	Euler-Lagrange modelling of dilute particle-laden flows with arbitrary particle-size to mesh-spacing ratio. <i>Journal of Computational Physics: X</i> , 2020, 8, 100078.	0.7	7
12	Quantifying the errors of the particle-source-in-cell Euler-Lagrange method. <i>International Journal of Multiphase Flow</i> , 2021, 135, 103535.	3.4	7
13	Characterizing Lagrangian particle dynamics in decaying homogeneous isotropic turbulence using proper orthogonal decomposition. <i>Physics of Fluids</i> , 2022, 34, .	4.0	7
14	Breaching the capillary time-step constraint using a coupled VOF method with implicit surface tension. <i>Journal of Computational Physics</i> , 2022, 459, 111128.	3.8	5
15	Predicting laser-induced cavitation near a solid substrate. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000007.	0.2	4
16	Modeling interfacial mass transfer of highly non-ideal mixtures using an algebraic VOF method. <i>Chemical Engineering Science</i> , 2022, 251, 117458.	3.8	3
17	Strong shear flows release gaseous nuclei from surface micro- and nanobubbles. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	2
18	Height-function curvature estimation with arbitrary order on non-uniform Cartesian grids. <i>Journal of Computational Physics: X</i> , 2020, 7, 100060.	0.7	1

#	ARTICLE	IF	CITATIONS
19	Performance evaluation of standard second-order finite volume method for DNS solution of turbulent channel flow. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	1.6	1
20	Reducing volume and shape errors in front tracking by divergence-preserving velocity interpolation and parabolic fit vertex positioning. Journal of Computational Physics, 2022, 457, 111072.	3.8	1
21	Reversal and Inversion of Capillary Jet Breakup at Large Excitation Amplitudes. Flow, Turbulence and Combustion, 0, , 1.	2.6	0