

Fabien Evrard

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/948850/publications.pdf>

Version: 2024-02-01

21
papers

224
citations

1163117

8
h-index

996975

15
g-index

21
all docs

21
docs citations

21
times ranked

182
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Reducing volume and shape errors in front tracking by divergence-preserving velocity interpolation and parabolic fit vertex positioning. <i>Journal of Computational Physics</i> , 2022, 457, 111072. | 3.8 | 1 |
| 4 | 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 |
| 5 | Characterizing Lagrangian particle dynamics in decaying homogeneous isotropic turbulence using proper orthogonal decomposition. <i>Physics of Fluids</i> , 2022, 34, . | 4.0 | 7 |
| 6 | 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 |
| 7 | Predicting laser-induced cavitation near a solid substrate. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000007. | 0.2 | 4 |
| 8 | Strong shear flows release gaseous nuclei from surface micro- and nanobubbles. <i>Physical Review Fluids</i> , 2021, 6, . | 2.5 | 2 |
| 9 | 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 |
| 10 | Performance evaluation of standard second-order finite volume method for DNS solution of turbulent channel flow. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1. | 1.6 | 1 |
| 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 | 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 |
| 13 | 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 |
| 14 | Modeling Acoustic Cavitation Using a Pressure-Based Algorithm for Polytropic Fluids. <i>Fluids</i> , 2020, 5, 69. | 1.7 | 14 |
| 15 | A multi-scale approach to simulate atomisation processes. <i>International Journal of Multiphase Flow</i> , 2019, 119, 194-216. | 3.4 | 19 |
| 16 | An immersed boundary method for incompressible flows in complex domains. <i>Journal of Computational Physics</i> , 2019, 378, 770-795. | 3.8 | 22 |
| 17 | An immersed boundary method for flows with dense particle suspensions. <i>Acta Mechanica</i> , 2019, 230, 485-515. | 2.1 | 9 |
| 18 | Surface Reconstruction from Discrete Indicator Functions. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2019, 25, 1629-1635. | 4.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Artificial viscosity model to mitigate numerical artefacts at fluid interfaces with surface tension. Computers and Fluids, 2017, 143, 59-72. | 2.5 | 26 |
| 20 | Estimation of curvature from volume fractions using parabolic reconstruction on two-dimensional unstructured meshes. Journal of Computational Physics, 2017, 351, 271-294. | 3.8 | 23 |
| 21 | Reversal and Inversion of Capillary Jet Breakup at Large Excitation Amplitudes. Flow, Turbulence and Combustion, 0, , 1. | 2.6 | 0 |