

Lluís Jofre

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

577
citations

687363

13
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752698

20
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22
all docs

22
docs citations

22
times ranked

420
citing authors

#	ARTICLE	IF	CITATIONS
1	A coupled volume-of-fluid/level-set method for simulation of two-phase flows on unstructured meshes. <i>Computers and Fluids</i> , 2016, 124, 12-29.	2.5	89
2	A finite-volume/level-set method for simulating two-phase flows on unstructured grids. <i>International Journal of Multiphase Flow</i> , 2014, 64, 55-72.	3.4	85
3	Level-set simulations of buoyancy-driven motion of single and multiple bubbles. <i>International Journal of Heat and Fluid Flow</i> , 2015, 56, 91-107.	2.4	59
4	Conservation Properties of Unstructured Finite-Volume Mesh Schemes for the Navier-Stokes Equations. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2014, 65, 53-79.	0.9	55
5	A 3-D Volume-of-Fluid advection method based on cell-vertex velocities for unstructured meshes. <i>Computers and Fluids</i> , 2014, 94, 14-29.	2.5	53
6	A Framework for Characterizing Structural Uncertainty in Large-Eddy Simulation Closures. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 341-363.	2.6	38
7	Small-scale flow topologies in decaying isotropic turbulence laden with finite-size droplets. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	27
8	Data-driven dimensional analysis of heat transfer in irradiated particle-laden turbulent flow. <i>International Journal of Multiphase Flow</i> , 2020, 125, 103198.	3.4	25
9	Parallel load balancing strategy for Volume-of-Fluid methods on 3-D unstructured meshes. <i>Journal of Computational Physics</i> , 2015, 282, 269-288.	3.8	20
10	Multifidelity prediction in wildfire spread simulation: Modeling, uncertainty quantification and sensitivity analysis. <i>Environmental Modelling and Software</i> , 2021, 141, 105050.	4.5	20
11	A scalable geometric multigrid solver for nonsymmetric elliptic systems with application to variable-density flows. <i>Journal of Computational Physics</i> , 2018, 357, 142-158.	3.8	19
12	Eigensensitivity analysis of subgrid-scale stresses in large-eddy simulation of a turbulent axisymmetric jet. <i>International Journal of Heat and Fluid Flow</i> , 2019, 77, 314-335.	2.4	17
13	Bi-fidelity approximation for uncertainty quantification and sensitivity analysis of irradiated particle-laden turbulence. <i>Journal of Computational Physics</i> , 2020, 402, 108996.	3.8	15
14	Near-interface flow modeling in large-eddy simulation of two-phase turbulence. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103406.	3.4	12
15	Pass-efficient methods for compression of high-dimensional turbulent flow data. <i>Journal of Computational Physics</i> , 2020, 423, 109704.	3.8	9
16	A dynamic load balancing method for the evaluation of chemical reaction rates in parallel combustion simulations. <i>Computers and Fluids</i> , 2019, 190, 308-321.	2.5	8
17	A low-dissipation convection scheme for the stable discretization of turbulent interfacial flow. <i>Computers and Fluids</i> , 2017, 153, 102-117.	2.5	7
18	A level-set aided single-phase model for the numerical simulation of free-surface flow on unstructured meshes. <i>Computers and Fluids</i> , 2016, 140, 97-110.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Versatile sequential sampling algorithm using Kernel Density Estimation. European Journal of Operational Research, 2020, 284, 201-211.	5.7	6
20	Rapid aerodynamic shape optimization under uncertainty using a stochastic gradient approach. Structural and Multidisciplinary Optimization, 2022, 65, .	3.5	4
21	Uncertainty Quantification in Large Eddy Simulations of a Rich-Dome Aviation Gas Turbine. , 2017, , .		3
22	Interface dynamics in the transcritical flow of liquid fuels into high-pressure combustors. , 2017, , .		0