

Mehdi Raessi

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

592
citations

687363

13
h-index

677142

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all docs

24
docs citations

24
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	High-speed impact of micron-sized diesel drop trainsâ€”Splashing dynamics, secondary droplet formation, and effects of pre-existing film thickness. <i>Physics of Fluids</i> , 2021, 33, 102120.	4.0	11
2	Impact of high-speed diesel drop trains: Pursuing cleaner diesel engines. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	1
3	Toward predictive and computationally affordable Lagrangianâ€”Eulerian modeling of sprayâ€”wall interaction. <i>International Journal of Engine Research</i> , 2020, 21, 263-280.	2.3	15
4	Computational characterization of the secondary droplets formed during the impingement of a train of ethanol drops. <i>International Journal of Engine Research</i> , 2020, 21, 248-262.	2.3	8
5	An implicit, sharp numerical treatment of viscous terms at arbitrarily shaped liquid-gas interfaces in evaporative flows. <i>Journal of Computational Physics</i> , 2020, 418, 109625.	3.8	1
6	Enhancing power extraction in bottom-hinged flap-type wave energy converters through advanced power take-off techniques. <i>Ocean Engineering</i> , 2019, 182, 248-258.	4.3	11
7	Advanced Computational Simulations of Surface Impingement of a Train of Ethanol Drops: A Pathway to Developing Spray-Wall Interaction Submodels. <i>Computing in Science and Engineering</i> , 2018, 20, 56-65.	1.2	6
8	A computational framework for the analysis of rain-induced erosion in wind turbine blades, part II: Drop impact-induced stresses and blade coating fatigue life. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 163, 44-54.	3.9	44
9	A computational framework for the analysis of rain-induced erosion in wind turbine blades, part I: Stochastic rain texture model and drop impact simulations. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 163, 33-43.	3.9	75
10	Advanced computational simulations of water waves interacting with wave energy converters. <i>European Journal of Computational Mechanics</i> , 2017, 26, 172-204.	0.6	11
11	The Feasibility of Amazon's Cloud Computing Platform for Parallel, GPU-Accelerated, Multiphase-Flow Simulations. <i>Computing in Science and Engineering</i> , 2016, 18, 68-77.	1.2	15
12	A three-dimensional volume-of-fluid method for reconstructing and advecting three-material interfaces forming contact lines. <i>Journal of Computational Physics</i> , 2016, 307, 550-573.	3.8	30
13	A 3D, fully Eulerian, VOF-based solver to study the interaction between two fluids and moving rigid bodies using the fictitious domain method. <i>Journal of Computational Physics</i> , 2016, 311, 87-113.	3.8	37
14	Computational simulation of the interactions between moving rigid bodies and incompressible two-fluid flows. <i>Computers and Fluids</i> , 2014, 94, 1-13.	2.5	39
15	Producing molten metal droplets smaller than the nozzle diameter using a pneumatic drop-on-demand generator. <i>Experimental Thermal and Fluid Science</i> , 2013, 47, 26-33.	2.7	37
16	Using Graphics Processing Units to Accelerate Numerical Simulations of Interfacial Incompressible Flows. , 2012, , .		6
17	Consistent mass and momentum transport for simulating incompressible interfacial flows with large density ratios using the level set method. <i>Computers and Fluids</i> , 2012, 63, 70-81.	2.5	64
18	A volume-of-fluid interfacial flow solver with advected normals. <i>Computers and Fluids</i> , 2010, 39, 1401-1410.	2.5	39

#	ARTICLE	IF	CITATIONS
19	A semi-implicit finite volume implementation of the CSF method for treating surface tension in interfacial flows. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 59, 1093-1110.	1.6	36
20	Effect of Substrate Concave Pattern on Splat Formation of Yttria-Stabilized Zirconia in Atmospheric Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2009, 18, 609-618.	3.1	12
21	Study of solidification behavior and splat morphology of vacuum plasma sprayed Ti alloy by computational modeling and experimental results. <i>Surface and Coatings Technology</i> , 2007, 201, 7924-7931.	4.8	20
22	Advecting normal vectors: A new method for calculating interface normals and curvatures when modeling two-phase flows. <i>Journal of Computational Physics</i> , 2007, 226, 774-797.	3.8	38
23	Three-Dimensional Modelling of Density Variation Due to Phase Change in Complex Free Surface Flows. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2005, 47, 507-531.	0.9	30
24	Using a DNS Framework to Test a Splashed Mass Sub-Model for Lagrangian Spray Simulations. , 0, , .		6