

Jozsef Bakosi

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

503
citations

933264

10
h-index

794469

19
g-index

24
all docs

24
docs citations

24
times ranked

648
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of additive manufacturing processes for metals: Challenges and opportunities. <i>Current Opinion in Solid State and Materials Science</i> , 2017, 21, 198-206.	5.6	299
2	Large-eddy simulation, fuel rod vibration and grid-to-rod fretting in pressurized water reactors. <i>Journal of Computational Physics</i> , 2016, 322, 142-161.	1.9	39
3	Large-eddy simulations of turbulent flow for grid-to-rod fretting in nuclear reactors. <i>Nuclear Engineering and Design</i> , 2013, 262, 544-561.	0.8	32
4	A reconstructed discontinuous Galerkin method for multi-material hydrodynamics with sharp interfaces. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 874-898.	0.9	17
5	An enhanced AUSM ⁺ scheme for high-speed compressible two-phase flows on hybrid grids. <i>Shock Waves</i> , 2019, 29, 629-649.	1.0	14
6	Probability density function modeling of scalar mixing from concentrated sources in turbulent channel flow. <i>Physics of Fluids</i> , 2007, 19, 115106.	1.6	13
7	Multi-material hydrodynamics with algebraic sharp interface capturing. <i>Computers and Fluids</i> , 2021, 215, 104804.	1.3	12
8	A non-hybrid method for the PDF equations of turbulent flows on unstructured grids. <i>Journal of Computational Physics</i> , 2008, 227, 5896-5935.	1.9	11
9	Exploring the beta distribution in variable-density turbulent mixing. <i>Journal of Turbulence</i> , 2010, 11, N37.	0.5	11
10	Extending the Langevin model to variable-density pressure-gradient-driven turbulence. <i>Journal of Turbulence</i> , 2011, 12, N19.	0.5	10
11	A coupled ALE-AMR method for shock hydrodynamics. <i>Computers and Fluids</i> , 2018, 167, 359-371.	1.3	10
12	Joint PDF Modelling of Turbulent Flow and Dispersion in an Urban Street Canyon. <i>Boundary-Layer Meteorology</i> , 2009, 131, 245-261.	1.2	9
13	A hybrid incremental projection method for thermal-hydraulics applications. <i>Journal of Computational Physics</i> , 2016, 317, 382-404.	1.9	7
14	Improved ALE mesh velocities for complex flows. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 85, 662-671.	0.9	6
15	A Stochastic Diffusion Process for the Dirichlet Distribution. <i>International Journal of Stochastic Analysis</i> , 2013, 2013, 1-7.	0.3	5
16	Assessment of a hybrid finite element and finite volume code for turbulent incompressible flows. <i>Journal of Computational Physics</i> , 2016, 307, 653-669.	1.9	3
17	Diffusion Processes Satisfying a Conservation Law Constraint. <i>International Journal of Stochastic Analysis</i> , 2014, 2014, 1-9.	0.3	2
18	A stochastic diffusion process for Lochner's generalized Dirichlet distribution. <i>Journal of Mathematical Physics</i> , 2013, 54, 102701.	0.5	1

#	ARTICLE	IF	CITATIONS
19	A Fokker-Planck approach to a moment closure for mixing in variable-density turbulence. Journal of Turbulence, 2019, 20, 393-423.	0.5	1
20	A THINC-DG Method for Multi-Material Fluid Flow. , 2022, , .		1
21	Algebraic sharp interface capturing for non-equilibrium multi-material flows. , 2021, , .		0
22	A Discontinuous Galerkin Method for Multi-Material Hydrodynamics on Unstructured Mesh. , 2021, , .		0
23	A Dynamically Load-balanced Parallel p-adaptive Discontinuous Galerkin Method for the Compressible Euler Equations on Tetrahedral Grids. , 2022, , .		0