

# Boris I Krasnopolsky

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

75  
citations

1684188

5  
h-index

1588992

8  
g-index

23  
all docs

23  
docs citations

23  
times ranked

41  
citing authors

#	ARTICLE	IF	CITATIONS
1	An approach for accelerating incompressible turbulent flow simulations based on simultaneous modelling of multiple ensembles. <i>Computer Physics Communications</i> , 2018, 229, 8-19.	7.5	13
2	The reordered BiCGStab method for distributed memory computer systems. <i>Procedia Computer Science</i> , 2010, 1, 213-218.	2.0	12
3	Unified graph-based multi-fluid model for gas-liquid pipeline flows. <i>Computers and Mathematics With Applications</i> , 2016, 72, 1244-1262.	2.7	10
4	XAMG: A library for solving linear systems with multiple right-hand side vectors. <i>SoftwareX</i> , 2021, 14, 100695.	2.6	8
5	A conservative fully implicit algorithm for predicting slug flows. <i>Journal of Computational Physics</i> , 2018, 355, 597-619.	3.8	7
6	Revisiting performance of BiCGStab methods for solving systems with multiple right-hand sides. <i>Computers and Mathematics With Applications</i> , 2020, 79, 2574-2597.	2.7	5
7	Heat transfer in a three-dimensional rectangular cavity oriented at an angle to the free-stream. <i>Fluid Dynamics</i> , 2012, 47, 311-319.	0.9	4
8	Effect of the disturbance frequency and the boundary layer thickness on heat transfer in a flow over a cubic cavity. <i>Fluid Dynamics</i> , 2010, 45, 27-33.	0.9	3
9	Multi-fluid pipe flow model for analysis of wellbore dynamics. , 2012, , .		3
10	Modelling Multiphase Flows in a Wellbore Using Multi-Fluid Approach. , 2012, , .		2
11	Combined multi-fluid and drift-flux approaches for analysis of pipe flows. , 2013, , .		2
12	Optimal Strategy for Modelling Turbulent Flows with Ensemble Averaging on High Performance Computing Systems. <i>Lobachevskii Journal of Mathematics</i> , 2018, 39, 533-542.	0.9	2
13	Evaluating Performance of Mixed Precision Linear Solvers with Iterative Refinement. <i>Supercomputing Frontiers and Innovations</i> , 2021, 8, .	0.4	2
14	Optimizing generation of multiple turbulent flow states. <i>Journal of Physics: Conference Series</i> , 2018, 1129, 012020.	0.4	1
15	Turbulent flows along a streamwise external corner. <i>Journal of Fluid Mechanics</i> , 2022, 940, .	3.4	1
16	Numerical modeling and analysis of strength properties in glass. <i>Glass and Ceramics (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	0.6	0
17	Spatial structure of unstable flow in a three-dimensional cavity. <i>Doklady Physics</i> , 2008, 53, 447-449.	0.7	0
18	Application of the Jacobian-Free Newton-Krylov method for multiphase pipe flows. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0

#	ARTICLE	IF	CITATIONS
19	Direct numerical simulation of turbulent flow and heat transfer in a hexagonal rod bundle. Journal of Physics: Conference Series, 2019, 1369, 012045.	0.4	0
20	Generation of Multiple Turbulent Flow States for the Simulations with Ensemble Averaging. Supercomputing Frontiers and Innovations, 2018, 5, .	0.4	0
21	Predicting Performance of Classical and Modified BiCGStab Iterative Methods. Advances in Parallel Computing, 2020, , .	0.3	0