## Stefan Turek

## List of Publications by Year in descending order

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1163117 610901 26 695 8 24 citations h-index g-index papers 27 27 27 954 all docs docs citations times ranked citing authors

#	Article	IF	Citations
1	Very fast finite element Poisson solvers on lower precision accelerator hardware: A proof of concept study for Nvidia Tesla V100. International Journal of High Performance Computing Applications, 2022, 36, 459-474.	3.7	2
2	Flow Map for Hydrodynamics and Suspension Behavior in a Continuous Archimedes Tube Crystallizer. Crystals, 2021, 11, 1466.	2.2	3
3	A Proof of Concept for Very Fast Finite Element Poisson Solvers on Accelerator Hardware. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	O
4	Monolithic Newtonâ€multigrid FEM for the simulation of thixotropic flow problems. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	2
5	The Tensor Diffusion approach for simulating viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2020, 286, 104431.	2.4	3
6	Arduinoâ€based slider setup for gas–liquid mass transfer investigations: Experiments and CFD simulations. AICHE Journal, 2020, 66, e16953.	3.6	15
7	A flux-corrected RBF-FD method for convection dominated problems in domains and on manifolds. Journal of Numerical Mathematics, 2019, 27, 253-269.	3.5	9
8	Analysis of Crystal Size Dispersion Effects in a Continuous Coiled Tubular Crystallizer: Experiments and Modeling. Crystal Growth and Design, 2018, 18, 1459-1473.	3.0	49
9	Reactive Liquidâ€Flow Simulation of Micromixers Based on Grid Deformation Techniques. Chemical Engineering and Technology, 2017, 40, 1408-1417.	1.5	8
10	Energy efficiency of the simulation of three-dimensional coastal ocean circulation on modern commodity and mobile processors. Computer Science - Research and Development, 2016, 31, 225-234.	2.7	3
11	Efficient computations for high density ratio rising bubble flows using a diffused interface, coupled lattice Boltzmann-level set scheme. Computers and Mathematics With Applications, 2015, 70, 1290-1305.	2.7	8
12	Swimming by reciprocal motion at low Reynolds number. Nature Communications, 2014, 5, 5119.	12.8	349
13	Least-squares finite element methods for the Navier-Stokes equations for generalized Newtonian fluids. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 623-624.	0.2	1
14	Rising bubble simulations using lattice Boltzmann method coupled with level set interface capturing. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 675-676.	0.2	5
15	Influence of higher interpolation orders in mixed LSFEM for the incompressible Navier-Stokes equations. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 301-302.	0.2	2
16	Numerical Solutions of Population Balance Equations within Liquid/Gas‣iquid Flow Simulations. Chemie-Ingenieur-Technik, 2013, 85, 1137-1145.	0.8	5
17	Performance aspects of a mixed s-v LSFEM for the incompressible Navier-Stokes equations with improved mass conservation. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 513-514.	0.2	6
18	Simulation of Intra-Aneurysmal Blood Flow by Different Numerical Methods. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-10.	1.3	8

#	Article	lF	CITATION
19	An Alternative Strategy for the Solution of Heat and Incompressible Fluid Flow Problems via the Finite Volume Method. Numerical Heat Transfer; Part A: Applications, 2012, 62, 393-411.	2.1	5
20	Implicit finite element schemes for the stationary compressible Euler equations. International Journal for Numerical Methods in Fluids, 2012, 69, 1-28.	1.6	24
21	Error Analysis of a Projection Method for the Navier–Stokes Equations With Coriolis Force. Journal of Mathematical Fluid Mechanics, 2010, 12, 485-502.	1.0	4
22	Numerical Methods and CFD Techniques for Drug Application in Brain Tumor Treatment. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10195-10196.	0.2	1
23	Modeling of liquid-solid flows with large number of moving particles by multigrid fictitious boundary method. Journal of Hydrodynamics, 2006, 18, 93-100.	3.2	0
24	Numerical Study of a Modified Time-Stepping î,-Scheme for Incompressible Flow Simulations. Journal of Scientific Computing, 2006, 28, 533-547.	2.3	34
25	Direct numerical simulation of particulate flow via multigrid FEM techniques and the fictitious boundary method. International Journal for Numerical Methods in Fluids, 2006, 51, 531-566.	1.6	147
26	Monolithic Finite Element Method for the simulation of thixo-viscoplastic flows. , 0, , .		1