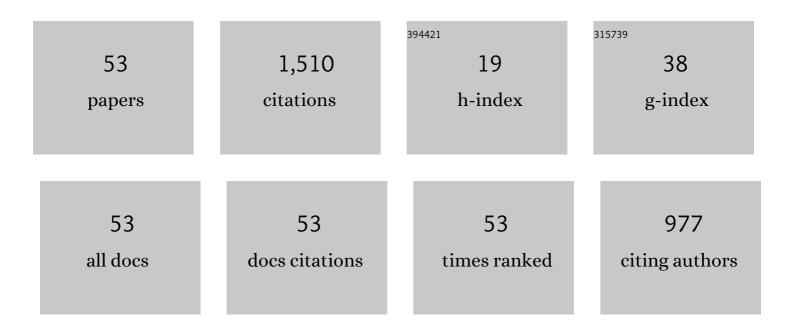
Michael Manhart

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Numerical investigation of semifilled-pipe flow. Journal of Fluid Mechanics, 2022, 932, . | 3.4 | 6 |
| 2 | Onset of nonlinearity in oscillatory flow through a hexagonal sphere pack. Journal of Fluid Mechanics, 2022, 944, . | 3.4 | 4 |
| 3 | The viscous sublayer in front of a wall-mounted cylinder. Journal of Fluid Mechanics, 2021, 919, . | 3.4 | 5 |
| 4 | Flow around a scoured bridge pier: a stereoscopic PIV analysis. Experiments in Fluids, 2020, 61, 1. | 2.4 | 13 |
| 5 | A Simulation–Optimization Technique to Estimate Discharge in Open Channels Based on Water Level Data Alone: Gradually Varied Flow Condition. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 215-229. | 1.9 | 4 |
| 6 | Performance Optimisation of the Parallel CFD Code MGLET across Different HPC Platforms. , 2019, , . | | 2 |
| 7 | A bi-directional coupling of 2D shallow water and 3D Reynolds-averaged Navier–Stokes models. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 771-785. | 1.7 | 13 |
| 8 | The structure and budget of turbulent kinetic energy in front of a wall-mounted cylinder – CORRIGENDUM. Journal of Fluid Mechanics, 2018, 847, 907-911. | 3.4 | 1 |
| 9 | Dissipation of Turbulent Kinetic Energy in a Cylinder Wall Junction Flow. Flow, Turbulence and Combustion, 2018, 101, 499-519. | 2.6 | 9 |
| 10 | Reliability of Wall Shear Stress Estimations in Front of a Wall-Mounted Cylinder. ERCOFTAC Series, 2018, , 71-77. | 0.1 | 0 |
| 11 | The structure and budget of turbulent kinetic energy in front of a wall-mounted cylinder. Journal of Fluid Mechanics, 2017, 827, 285-321. | 3.4 | 43 |
| 12 | Near-Wall Stress Balance in Front of a Wall-Mounted Cylinder. Flow, Turbulence and Combustion, 2017, 99, 665-684. | 2.6 | 16 |
| 13 | Influence of spanwise no-slip boundary conditions on the flow around a cylinder. Computers and Fluids, 2017, 156, 48-57. | 2.5 | 11 |
| 14 | On the pressure-strain correlation in fibrous drag-reduced turbulent channel flow. Physics of Fluids, 2016, 28, . | 4.0 | 7 |
| 15 | Oscillatory Darcy Flow in Porous Media. Transport in Porous Media, 2016, 111, 521-539. | 2.6 | 16 |
| 16 | Lattice Boltzmann methods in porous media simulations: From laminar to turbulent flow. Computers and Fluids, 2016, 140, 247-259. | 2.5 | 48 |
| 17 | Reliability of wall shear stress estimations of the flow around a wall-mounted cylinder. Computers and Fluids, 2016, 128, 16-29. | 2.5 | 19 |
| 18 | An algebraic closure model for the DNS of turbulent drag reduction by Brownian microfiber additives in a channel flow, Journal of Non-Newtonian Fluid Mechanics, 2015, 226, 60-66 | 2.4 | 21 |

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|----|---|-----|-----------|
| 19 | On the structure of vorticity and near-wall partial enstrophy in fibrous drag-reduced turbulent channel flow. Journal of Non-Newtonian Fluid Mechanics, 2015, 223, 249-256. | 2.4 | 8 |
| 20 | A Study of the Time Constant in Unsteady Porous Media Flow Using Direct Numerical Simulation. Transport in Porous Media, 2014, 104, 161-179. | 2.6 | 28 |
| 21 | Direct Monte Carlo simulation of turbulent drag reduction by rigid fibers in a channel flow. Acta Mechanica, 2013, 224, 2385-2413. | 2.1 | 21 |
| 22 | A Direct Numerical Simulation Method for Flow of Brownian Fiber Suspensions in Complex Geometries. Journal of Dispersion Science and Technology, 2013, 34, 427-440. | 2.4 | 5 |
| 23 | Numerical Simulation of Transport in Porous Media: Some Problems from Micro to Macro Scale. Lecture Notes in Computational Science and Engineering, 2013, , 57-80. | 0.3 | 2 |
| 24 | On the numerical solution of a convection–diffusion equation for particle orientation dynamics on geodesic grids. Applied Numerical Mathematics, 2012, 62, 1554-1566. | 2.1 | 11 |
| 25 | Two-phase micro- and macro-time scales in particle-laden turbulent channel flows. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 595-604. | 3.4 | 4 |
| 26 | Analysis of Inertial Particle Drift Dispersion by Direct Numerical Simulation of Two-Phase Wall-Bounded Turbulent Flows. Engineering Applications of Computational Fluid Mechanics, 2011, 5, 341-348. | 3.1 | 4 |
| 27 | Subgrid modelling for particle-LES by Spectrally Optimised Interpolation (SOI). Journal of Computational Physics, 2011, 230, 7796-7820. | 3.8 | 23 |
| 28 | An algebraic closure for the DNS of fiber-induced turbulent drag reduction in a channel flow. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1190-1197. | 2.4 | 16 |
| 29 | A priori analysis of a closure model using the reconstruction of the orientation distribution function in flow of fiber suspensions. Computational Mechanics, 2011, 48, 451-459. | 4.0 | 11 |
| 30 | Assessment of eddy resolving techniques for the flow over periodically arranged hills up to Re=37,000. ERCOFTAC Series, 2011, , 361-370. | 0.1 | 7 |
| 31 | On large eddy simulation of particle laden flow: taking advantage of spectral properties of interpolation schemes for modeling SGS effects. ERCOFTAC Series, 2011, , 183-188. | 0.1 | 0 |
| 32 | Compact fourth-order finite volume method for numerical solutions of Navier–Stokes equations on staggered grids. Journal of Computational Physics, 2010, 229, 7545-7570. | 3.8 | 63 |
| 33 | Numerical simulation of flow-induced fiber orientation using normalization of second moment. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 551-554. | 2.4 | 12 |
| 34 | Discussion of "Coherent Structures in the Flow Field around a Circular Cylinder with Scour Hole―by G. Kirkil, S. G. Constaninescu, and R. Ettema. Journal of Hydraulic Engineering, 2010, 136, 82-84. | 1.5 | 14 |
| 35 | Analysis of the Temporal Evolution of the Sediment Movement in the Vicinity of a Cylindrical Bridge Pier. , 2010, , . | | 5 |
| 36 | Compact Fourth-Order Finite-Volume Method for Numerical Solutions of Navier–Stokes Equations on Staggered Grids. ERCOFTAC Series, 2010, , 125-130. | 0.1 | 8 |

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|----|---|-----|-----------|
| 37 | Development of a DNS-FDF Approach to Inhomogeneous Non-Equilibrium Mixing for High Schmidt Number Flows. ERCOFTAC Series, 2010, , 149-155. | 0.1 | 0 |
| 38 | Wall Scaling and Wall Models for Complex Turbulent Flows. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 283-308. | 0.3 | 1 |
| 39 | Improving spatial resolution characteristics of finite difference and finite volume schemes by approximate deconvolution pre-processing. Computers and Fluids, 2008, 37, 1092-1102. | 2.5 | 6 |
| 40 | Near-wall scaling for turbulent boundary layers with adverse pressure gradient. Theoretical and Computational Fluid Dynamics, 2008, 22, 243-260. | 2.2 | 34 |
| 41 | DNS and LES of Scalar Transport in a Turbulent Plane Channel Flow at Low Reynolds Number. Lecture Notes in Computer Science, 2008, , 251-258. | 1.3 | 2 |
| 42 | The low Reynolds number turbulent flow and mixing in a confined impinging jet reactor. International Journal of Heat and Fluid Flow, 2007, 28, 1429-1442. | 2.4 | 37 |
| 43 | DNS of passive scalar transport in turbulent channel flow at high Schmidt numbers. International Journal of Heat and Fluid Flow, 2007, 28, 1204-1214. | 2.4 | 81 |
| 44 | Predictive simulation of nanoparticle precipitation based on the population balance equation. Chemical Engineering Science, 2006, 61, 167-181. | 3.8 | 98 |
| 45 | Precipitation of nanoparticles in a T-mixer: Coupling the particle population dynamics with hydrodynamics through direct numerical simulation. Chemical Engineering and Processing: Process Intensification, 2006, 45, 908-916. | 3.6 | 120 |
| 46 | High-order stable interpolations for immersed boundary methods. International Journal for Numerical Methods in Fluids, 2006, 52, 1175-1193. | 1.6 | 152 |
| 47 | A zonal grid algorithm for DNS of turbulent boundary layers. Computers and Fluids, 2004, 33, 435-461. | 2.5 | 178 |
| 48 | DNS of turbulent flow in a rod-roughened channel. International Journal of Heat and Fluid Flow, 2004, 25, 373-383. | 2.4 | 110 |
| 49 | Visco-elastic behaviour of suspensions of rigid-rod like particles in turbulent channel flow. European Journal of Mechanics, B/Fluids, 2004, 23, 461-474. | 2.5 | 11 |
| 50 | Analysis and low-order modeling of the inhomogeneous transitional flow inside a T-mixer. Physics of Fluids, 2004, 16, 2717-2731. | 4.0 | 32 |
| 51 | Rheology of suspensions of rigid-rod like particles in turbulent channel flow. Journal of Non-Newtonian Fluid Mechanics, 2003, 112, 269-293. | 2.4 | 56 |
| 52 | DNS of a turbulent boundary layer with separation. International Journal of Heat and Fluid Flow, 2002, 23, 572-581. | 2.4 | 49 |
| 53 | Vortex Shedding from a Hemisphere in a Turbulent Boundary Layer. Theoretical and Computational Fluid Dynamics, 1998, 12, 1-28. | 2.2 | 63 |