

# Steven J Lind

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,521  
citations

516710

16  
h-index

552781

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

749  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modified dynamic boundary conditions (mDBC) for general-purpose smoothed particle hydrodynamics (SPH): application to tank sloshing, dam break and fish pass problems. <i>Computational Particle Mechanics</i> , 2022, 9, 1-15.	3.0	59
2	High-order simulations of isothermal flows using the local anisotropic basis function method (LABFM). <i>Journal of Computational Physics</i> , 2022, 449, 110760.	3.8	1
3	Eulerian incompressible smoothed particle hydrodynamics on multiple GPUs. <i>Computer Physics Communications</i> , 2022, 273, 108263.	7.5	7
4	Focused wave interaction with a partially-immersed rectangular box using 2-D incompressible SPH on a GPU comparing with experiment and linear theory. <i>European Journal of Mechanics, B/Fluids</i> , 2022, 95, 252-275.	2.5	5
5	Grand challenges for Smoothed Particle Hydrodynamics numerical schemes. <i>Computational Particle Mechanics</i> , 2021, 8, 575-588.	3.0	114
6	High-order velocity and pressure wall boundary conditions in Eulerian incompressible SPH. <i>Journal of Computational Physics</i> , 2021, 434, 109793.	3.8	13
7	High Weissenberg number simulations with incompressible Smoothed Particle Hydrodynamics and the log-conformation formulation. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021, 293, 104556.	2.4	9
8	High-order consistent SPH with the pressure projection method in 2-D and 3-D. <i>Journal of Computational Physics</i> , 2021, 444, 110563.	3.8	15
9	An incompressible smoothed particle hydrodynamics scheme for Newtonian/non-Newtonian multiphase flows including semi-analytical solutions for two-phase inelastic Poiseuille flows. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 703-726.	1.6	8
10	High order difference schemes using the local anisotropic basis function method. <i>Journal of Computational Physics</i> , 2020, 415, 109549.	3.8	9
11	Review of smoothed particle hydrodynamics: towards converged Lagrangian flow modelling. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190801.	2.1	76
12	New instability and mixing simulations using SPH and a novel mixing measure. <i>Journal of Hydrodynamics</i> , 2020, 32, 684-698.	3.2	6
13	The Kaye effect: New experiments and a mechanistic explanation. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 273, 104165.	2.4	2
14	Numerical wave basin using incompressible smoothed particle hydrodynamics (ISPH) on a single GPU with vertical cylinder test cases. <i>Computers and Fluids</i> , 2019, 179, 543-562.	2.5	32
15	Eulerian weakly compressible smoothed particle hydrodynamics (SPH) with the immersed boundary method for thin slender bodies. <i>Journal of Fluids and Structures</i> , 2019, 84, 263-282.	3.4	25
16	Incompressible SPH (ISPH) with fast Poisson solver on a GPU. <i>Computer Physics Communications</i> , 2018, 226, 81-103.	7.5	74
17	An Eulerian Lagrangian incompressible SPH formulation (ELI-SPH) connected with a sharp interface. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 329, 532-552.	6.6	44
18	New massively parallel scheme for Incompressible Smoothed Particle Hydrodynamics (ISPH) for highly nonlinear and distorted flow. <i>Computer Physics Communications</i> , 2018, 233, 16-28.	7.5	45

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19	Landslides and tsunamis predicted by incompressible smoothed particle hydrodynamics (SPH) with application to the 1958 Lituya Bay event and idealized experiment. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160674.	2.1	30
20	High-order Eulerian incompressible smoothed particle hydrodynamics with transition to Lagrangian free-surface motion. Journal of Computational Physics, 2016, 326, 290-311.	3.8	60
21	Fixed and moored bodies in steep and breaking waves using SPH with the Froude-Krylov approximation. Journal of Ocean Engineering and Marine Energy, 2016, 2, 331-354.	1.7	23
22	Incompressible-compressible flows with a transient discontinuous interface using smoothed particle hydrodynamics (SPH). Journal of Computational Physics, 2016, 309, 129-147.	3.8	71
23	Numerical predictions of water-air wave slam using incompressible-compressible smoothed particle hydrodynamics. Applied Ocean Research, 2015, 49, 57-71.	4.1	74
24	An incompressible SPH scheme with improved pressure predictions for free-surface generalised Newtonian flows. Journal of Non-Newtonian Fluid Mechanics, 2015, 218, 1-15.	2.4	38
25	Incompressible smoothed particle hydrodynamics (SPH) with reduced temporal noise and generalised Fickian smoothing applied to body-water slam and efficient wave-body interaction. Computer Methods in Applied Mechanics and Engineering, 2013, 265, 163-173.	6.6	185
26	Incompressible smoothed particle hydrodynamics for free-surface flows: A generalised diffusion-based algorithm for stability and validations for impulsive flows and propagating waves. Journal of Computational Physics, 2012, 231, 1499-1523.	3.8	496