

# Tobias Martin

## List of Publications by Year in descending order

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17  
papers

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citations

1040056

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h-index

1058476

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17  
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docs citations

17  
times ranked

57  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Lagrangian approach for the coupled simulation of fixed net structures in a Eulerian fluid model. Journal of Fluids and Structures, 2020, 94, 102962.	3.4	39
2	A numerical framework for modelling the dynamics of open ocean aquaculture structures in viscous fluids. Applied Ocean Research, 2021, 106, 102410.	4.1	39
3	A non-linear implicit approach for modelling the dynamics of porous tensile structures interacting with fluids. Journal of Fluids and Structures, 2021, 100, 103168.	3.4	23
4	A Comparison of Different Wave Modelling Techniques in An Open-Source Hydrodynamic Framework. Journal of Marine Science and Engineering, 2020, 8, 526.	2.6	17
5	Numerical investigation of the hydrodynamics of a submersible steel-frame offshore fish farm in regular waves using CFD. Ocean Engineering, 2022, 256, 111528.	4.3	16
6	An improved depth-averaged nonhydrostatic shallow water model with quadratic pressure approximation. International Journal for Numerical Methods in Fluids, 2020, 92, 803-824.	1.6	15
7	An improved screen force model based on CFD simulations of the hydrodynamic loads on knotless net panels. Applied Ocean Research, 2022, 118, 102965.	4.1	14
8	Efficient implementation of a numerical model for flexible net structures. Ocean Engineering, 2018, 150, 272-279.	4.3	13
9	Implementation and Validation of Semi-Implicit WENO Schemes Using OpenFOAM®. Computation, 2018, 6, 6.	2.0	10
10	A Numerical Solution for Modelling Mooring Dynamics, Including Bending and Shearing Effects, Using a Geometrically Exact Beam Model. Journal of Marine Science and Engineering, 2021, 9, 486.	2.6	8
11	Modelling the flow around and wake behind net panels using large eddy simulations. Ocean Engineering, 2021, 239, 109846.	4.3	7
12	Accurate modeling of the interaction of constrained floating structures and complex free surfaces using a new quasistatic mooring model. International Journal for Numerical Methods in Fluids, 2021, 93, 504-526.	1.6	6
13	A Numerical Study of the Hydrodynamics of an Offshore Fish Farm Using REEF3D. Journal of Offshore Mechanics and Arctic Engineering, 2022, 144, .	1.2	3
14	Modeling the Flow Around and the Hydrodynamic Drag on Net Meshes Using reef3d. Journal of Offshore Mechanics and Arctic Engineering, 2022, 144, .	1.2	2
15	Modelling Open Ocean Aquaculture Structures Using CFD and a Simulation-Based Screen Force Model. Journal of Marine Science and Engineering, 2022, 10, 332.	2.6	1
16	Numerical Modeling of the Interaction of Moving Fish Nets and Fluid. Journal of Offshore Mechanics and Arctic Engineering, 2022, 144, .	1.2	0
17	A Computational Fluid Dynamics Approach for Modeling the Fluid-Structure Interaction of Offshore Aquaculture Cages and Waves. Journal of Offshore Mechanics and Arctic Engineering, 2022, 144, .	1.2	0