

# Vuko VukÄeviÄ

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

406  
citations

933447

10  
h-index

794594

19  
g-index

22  
all docs

22  
docs citations

22  
times ranked

304  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | CFD validation and grid sensitivity studies of full scale ship self propulsion. International Journal of Naval Architecture and Ocean Engineering, 2019, 11, 33-43.                       | 2.3 | 75        |
| 2  | Implementation of the Ghost Fluid Method for free surface flows in polyhedral Finite Volume framework. Computers and Fluids, 2017, 153, 1-19.   | 2.5 | 72        |
| 3  | Decomposition model for naval hydrodynamic applications, Part I: Computational method. Ocean Engineering, 2016, 121, 37-46.   | 4.3 | 41        |
| 4  | Influences of free surface jump conditions and different $k$ SST turbulence models on breaking wave modelling. Ocean Engineering, 2020, 217, 107746.                                      | 4.3 | 32        |
| 5  | Decomposition model for naval hydrodynamic applications, Part II: Verification and validation. Ocean Engineering, 2016, 121, 76-88.   | 4.3 | 29        |
| 6  | Accurate assessment of ship-propulsion characteristics using CFD. Ocean Engineering, 2019, 175, 149-162.  | 4.3 | 26        |
| 7  | Enhanced coupling of solid body motion and fluid flow in finite volume framework. Ocean Engineering, 2017, 143, 295-304.  | 4.3 | 22        |
| 8  | A framework for efficient irregular wave simulations using Higher Order Spectral method coupled with viscous two phase model. Journal of Ocean Engineering and Science, 2017, 2, 253-267. | 4.3 | 18        |
| 9  | CFD verification and validation of green sea loads. Ocean Engineering, 2018, 148, 500-515.  | 4.3 | 17        |
| 10 | A coupled finite volume flow solver for the solution of incompressible viscoelastic flows. Journal of Non-Newtonian Fluid Mechanics, 2019, 265, 99-115.                                   | 2.4 | 14        |
| 11 | Efficient solution of 3D electromagnetic eddy-current problems within the finite volume framework of OpenFOAM. Journal of Computational Physics, 2017, 344, 623-646.                      | 3.8 | 12        |
| 12 | Finite Volume method for general compressible naval hydrodynamics. Ocean Engineering, 2020, 196, 106773.  | 4.3 | 10        |
| 13 | Numerical Simulation of Wave Loading on Static Offshore Structures. Springer Tracts in Mechanical Engineering, 2015, , 95-105.  | 0.3 | 8         |
| 14 | Implicitly coupled phase fraction equations for the Eulerian multi-fluid model. Computers and Fluids, 2019, 192, 104277.  | 2.5 | 7         |
| 15 | Harmonic Balance developments in OpenFOAM. Computers and Fluids, 2018, 172, 632-643.  | 2.5 | 6         |
| 16 | Launching of ships from horizontal berth by tipping tables – CFD simulation of wave generation. Engineering Structures, 2020, 210, 110343.  | 5.3 | 5         |
| 17 | Optimizing wave-generation and wave-damping in 3D-flow simulations with implicit relaxation-zones. Coastal Engineering, 2021, 171, 104035.  | 4.0 | 5         |
| 18 | Harmonic Balance method for nonlinear and viscous free surface flows. Ocean Engineering, 2018, 157, 164-179.  | 4.3 | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Development of a CFD Solver for Primary Diesel Jet Atomization in FOAM-Extend. , 0, , .  |     | 2         |
| 20 | Monolithic coupling of the pressure and rigid body motion equations in computational marine hydrodynamics. Journal of Marine Science and Application, 2017, 16, 375-381. | 1.7 | 1         |
| 21 | Accurate green water loads calculation using naval hydro pack. IOP Conference Series: Materials Science and Engineering, 2017, 276, 012011.                              | 0.6 | 0         |
| 22 | The Harmonic Balance Method for Temporally Periodic Free Surface Flows. , 2019, , 481-489.   |     | 0         |