Pierre Ferrant

List of Publications by Year
in descending order

13 papers	407 citations	840776 11 h-index	1281871 11 g-index
13 all docs	13 docs citations	13 times ranked	233 citing authors

#	Article	IF	Citations
1	A modified High-Order Spectral method for wavemaker modeling in a numerical wave tank. European Journal of Mechanics, B/Fluids, 2012, 34, 19-34.	2.5	114
2	HOS-ocean: Open-source solver for nonlinear waves in open ocean based on High-Order Spectral method. Computer Physics Communications, 2016, 203, 245-254.	7.5	110
3	A fully-spectral 3D time-domain model for second-order simulation of wavetank experiments. Part A: Formulation, implementation and numerical properties. Applied Ocean Research, 2006, 28, 33-43.	4.1	30
4	A comparative study of two fast nonlinear free-surface water wave models. International Journal for Numerical Methods in Fluids, 2012, 69, 1818-1834.	1.6	28
5	A fully-spectral 3D time-domain model for second-order simulation of wavetank experiments. Part B: Validation, calibration versus experiments and sample applications. Applied Ocean Research, 2006, 28, 121-132.	4.1	22
6	Weakly nonlinear modeling of submerged wave energy converters. Applied Ocean Research, 2018, 75, 201-222.	4.1	20
7	Comparison of wave modeling methods in CFD solvers for ocean engineering applications. Ocean Engineering, 2019, 188, 106237.	4.3	19
8	On the equivalence of unidirectional rogue waves detected in periodic simulations and reproduced in numerical wave tanks. Ocean Engineering, 2016, 117, 346-358.	4.3	17
9	Spectral Wave Explicit Navier-Stokes Equations for wave-structure interactions using two-phase Computational Fluid Dynamics solvers. Ocean Engineering, 2021, 221, 108513.	4.3	17
10	An improved Lagrangian model for the time evolution of nonlinear surface waves. Journal of Fluid Mechanics, 2019, 876, 527-552.	3.4	13
11	Nonlinear deterministic sea wave prediction using instantaneous velocity profiles. Ocean Engineering, 2021, 220, 108492.	4.3	11
12	Generation of Regular and Irregular Waves in Navier-Stokes CFD Solvers by Matching With the Nonlinear Potential Wave Solution at the Boundaries. , 2018, , .		6
13	Génération de houles multidirectionnelles complexes dans le bassin de Centrale Nantes. European Journal of Environmental and Civil Engineering, 2008, 12, 601-614.	2.1	0