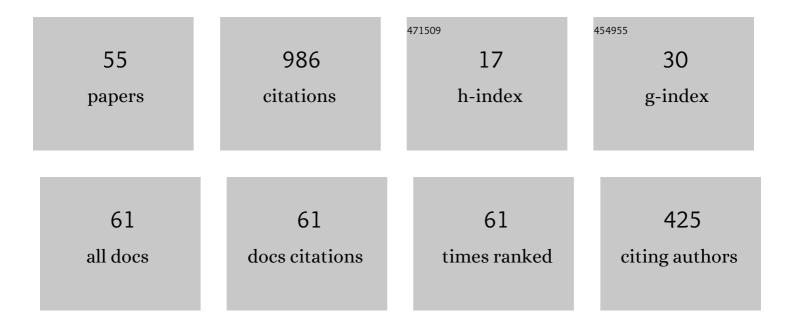
Guillaume Ducrozet

List of Publications by Year in descending order

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#	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	3-D HOS simulations of extreme waves in open seas. Natural Hazards and Earth System Sciences, 2007, 7, 109-122.	3.6	91
4	Nonlinear Spectral Synthesis of Soliton Gas in Deep-Water Surface Gravity Waves. Physical Review Letters, 2020, 125, 264101.	7.8	50
5	Development and validation of a non-linear spectral model for water waves over variable depth. European Journal of Mechanics, B/Fluids, 2016, 57, 115-128.	2.5	38
6	A non-linear wave decomposition model for efficient wave–structure interaction. Part A: Formulation, validations and analysis. Journal of Computational Physics, 2014, 257, 863-883.	3.8	37
7	Simulation of breaking waves using the high-order spectral method with laboratory experiments: wave-breaking energy dissipation. Ocean Dynamics, 2018, 68, 65-89.	2.2	35
8	Applicability and limitations of highly non-linear potential flow solvers in the context of water waves. Ocean Engineering, 2017, 142, 233-244.	4.3	32
9	Simulation of breaking waves using the high-order spectral method with laboratory experiments: Wave-breaking onset. Ocean Modelling, 2017, 119, 94-104.	2.4	30
10	A comparative study of two fast nonlinear freeâ€surface water wave models. International Journal for Numerical Methods in Fluids, 2012, 69, 1818-1834.	1.6	28
11	From modulational instability to focusing dam breaks in water waves. Physical Review Fluids, 2020, 5, .	2.5	28
12	TIME DOMAIN SIMULATION OF NONLINEAR WATER WAVES USING SPECTRAL METHODS. Series on Quality, Reliability and Engineering Statistics, 2010, , 129-164.	0.2	27
13	Influence of varying bathymetry in rogue wave occurrence within unidirectional and directional sea-states. Journal of Ocean Engineering and Marine Energy, 2017, 3, 309-324.	1.7	21
14	Experimental and numerical assessment of deterministic nonlinear ocean waves prediction algorithms using non-uniformly sampled wave gauges. Ocean Engineering, 2020, 212, 107659.	4.3	21
15	Weakly nonlinear modeling of submerged wave energy converters. Applied Ocean Research, 2018, 75, 201-222.	4.1	20
16	Comparison of wave modeling methods in CFD solvers for ocean engineering applications. Ocean Engineering, 2019, 188, 106237.	4.3	19
17	High-order finite difference solution for 3D nonlinear wave-structure interaction. Journal of Hydrodynamics, 2010, 22, 225-230.	3.2	18
18	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

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#	Article	IF	CITATIONS
19	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
20	Propagation of 3D nonlinear waves over an elliptical mound with a High-Order Spectral method. European Journal of Mechanics, B/Fluids, 2017, 63, 9-24.	2.5	16
21	Focused wave interactions with floating structures: a blind comparative study. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2021, 174, 46-61.	0.4	16
22	Time-reversal of nonlinear waves: Applicability and limitations. Physical Review Fluids, 2016, 1, .	2.5	15
23	Emergence of Peregrine solitons in integrable turbulence of deep water gravity waves. Physical Review Fluids, 2020, 5, .	2.5	15
24	An improved Lagrangian model for the time evolution of nonlinear surface waves. Journal of Fluid Mechanics, 2019, 876, 527-552.	3.4	13
25	Prediction and manipulation of hydrodynamic rogue waves via nonlinear spectral engineering. Physical Review Fluids, 2022, 7, .	2.5	13
26	A Non-Linear Potential Model to Predict Large-Amplitudes-Motions: Application to the SEAREV Wave Energy Converter. , 2007, , 529.		12
27	Statistics of long-crested extreme waves in single and mixed sea states. Ocean Dynamics, 2021, 71, 21-42.	2.2	12
28	Varying ocean wave statistics emerging from a single energy spectrum in an experimental wave tank. Ocean Engineering, 2022, 246, 110375.	4.3	12
29	Experimental reconstruction of extreme sea waves by time reversal principle. Journal of Fluid Mechanics, 2020, 884, .	3.4	11
30	Nonlinear deterministic sea wave prediction using instantaneous velocity profiles. Ocean Engineering, 2021, 220, 108492.	4.3	11
31	Transformation of envelope solitons on a bottom step. Physics of Fluids, 2021, 33, .	4.0	9
32	Proof of the equivalence of Tanizawa–Berkvens' and Cointe–van Daalen's formulations for the time derivative of the velocity potential for non-linear potential flow solvers. Applied Ocean Research, 2017, 63, 184-199.	4.1	7
33	An experimental and numerical study on breather solutions for surface waves in the intermediate water depth. Ocean Engineering, 2017, 133, 262-270.	4.3	7
34	Predicting the occurrence of rogue waves in the presence of opposing currents with a high-order spectral method. Physical Review Fluids, 2021, 6, .	2.5	7
35	Generation of Regular and Irregular Waves in Navier-Stokes CFD Solvers by Matching With the Nonlinear Potential Wave Solution at the Boundaries. , 2018, , .		6
36	Relation between occurrence probability of freak waves and kurtosis/skewness in unidirectional wave trains under single-peak spectra. Ocean Engineering, 2022, 248, 110813.	4.3	6

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#	Article	IF	CITATIONS
37	Deterministic Reconstruction and Prediction of a Non-Linear Wave Field Using Probe Data. , 2008, , .		5
38	Comparison of Fully Nonlinear and Weakly Nonlinear Potential Flow Solvers for the Study of Wave Energy Converters Undergoing Large Amplitude Motions. , 2014, , .		5
39	Efficient Hybrid-Spectral Model for Fully Nonlinear Numerical Wave Tank. , 2013, , .		4
40	A Coupled SPH-Spectral Method for the Simulation of Wave Train Impacts on a FPSO. , 2014, , .		4
41	Progress in Coupling Potential Wave Models and Two-Phase Solvers With the SWENSE Methodology. , 2018, , .		4
42	Phase-Resolved Reconstruction Algorithm and Deterministic Prediction of Nonlinear Ocean Waves From Spatio-Temporal Optical Measurements. , 2018, , .		3
43	Statistics of rogue waves in isotropic wave fields. Journal of Fluid Mechanics, 2022, 943, .	3.4	3
44	Nonlinear dispersion relation in integrable turbulence. Scientific Reports, 2022, 12, .	3.3	3
45	Galilean-transformed solitons and supercontinuum generation in dispersive media. Physica D: Nonlinear Phenomena, 2022, 439, 133342.	2.8	2
46	Progresses in the Development of a Weakly-Nonlinear Wave Body Interaction Model Based on the Weak-Scatterer Approximation. , 2015, , .		1
47	A Comparative Study of Wave Breaking Models in a High-Order Spectral Model. , 2017, , .		1
48	Development and Validation of a Highly Nonlinear Model for Wave Propagation Over a Variable Bathymetry. , 2015, , .		1
49	Experimental reproduction of an extreme sea state in two wave tanks at various generation scales. , 2022, , .		1
50	Experimental and Numerical Comparative Investigation of Pressure Fields Under Steep 2D Waves. , 2006, , 579.		0
51	Fully Nonlinear Potential/RANSE Simulation of Wave Interaction With Ships and Marine Structures. , 2008, , .		0
52	Non-Linear Initialization in Three-Dimensional High Order Spectra Deterministic Sea State Modeling. , 2010, , .		0
53	An Integrated Approach for the Representation of Concrete Gravity Based Foundations for Offshore Wind Turbines. , 2013, , .		0
54	Modelisation non-lineaire de propagation de houle sur un fond variable tridimensionnel. Houille Blanche, 2017, 103, 42-48.	0.3	0

#	Article	IF	CITATIONS
55	Breaking focused wave interaction with cylinder using HOS-OpenFOAM coupling. , 2022, , .		0