

FÃ©licien Bonnefoy

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,048
citations

361413

20
h-index

414414

32
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42
all docs

42
docs citations

42
times ranked

532
citing authors

#	ARTICLE	IF	CITATIONS
1	A modified High-Order Spectral method for wavemaker modeling in a numerical wave tank. <i>European Journal of Mechanics, B/Fluids</i> , 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. <i>Computer Physics Communications</i> , 2016, 203, 245-254.	7.5	110
3	3-D HOS simulations of extreme waves in open seas. <i>Natural Hazards and Earth System Sciences</i> , 2007, 7, 109-122.	3.6	91
4	Hydroelastic response of floating elastic discs to regular waves. Part 1. Wave basin experiments. <i>Journal of Fluid Mechanics</i> , 2013, 723, 604-628.	3.4	51
5	Nonlinear Spectral Synthesis of Soliton Gas in Deep-Water Surface Gravity Waves. <i>Physical Review Letters</i> , 2020, 125, 264101.	7.8	50
6	Hydroelastic response of floating elastic discs to regular waves. Part 2. Modal analysis. <i>Journal of Fluid Mechanics</i> , 2013, 723, 629-652.	3.4	49
7	Effect of non-ideal power take-off on the energy absorption of a reactively controlled one degree of freedom wave energy converter. <i>Applied Ocean Research</i> , 2014, 48, 236-243.	4.1	46
8	Deterministic non-linear wave prediction using probe data. <i>Ocean Engineering</i> , 2010, 37, 913-926.	4.3	44
9	Nonlinear higher-order spectral solution for a two-dimensional moving load on ice. <i>Journal of Fluid Mechanics</i> , 2009, 621, 215-242.	3.4	39
10	Role of the basin boundary conditions in gravity wave turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 781, 196-225.	3.4	36
11	Applicability and limitations of highly non-linear potential flow solvers in the context of water waves. <i>Ocean Engineering</i> , 2017, 142, 233-244.	4.3	32
12	A fully-spectral 3D time-domain model for second-order simulation of wavetank experiments. Part A: Formulation, implementation and numerical properties. <i>Applied Ocean Research</i> , 2006, 28, 33-43.	4.1	30
13	Simulation of breaking waves using the high-order spectral method with laboratory experiments: Wave-breaking onset. <i>Ocean Modelling</i> , 2017, 119, 94-104.	2.4	30
14	Observation of resonant interactions among surface gravity waves. <i>Journal of Fluid Mechanics</i> , 2016, 805, .	3.4	29
15	A comparative study of two fast nonlinear free-surface water wave models. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 69, 1818-1834.	1.6	28
16	From modulational instability to focusing dam breaks in water waves. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	28
17	TIME DOMAIN SIMULATION OF NONLINEAR WATER WAVES USING SPECTRAL METHODS. <i>Series on Quality, Reliability and Engineering Statistics</i> , 2010, , 129-164.	0.2	27
18	Experimental validation of non-linear deterministic prediction schemes for long-crested waves. <i>Ocean Engineering</i> , 2013, 58, 284-292.	4.3	27

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19	Coexistence of solitons and extreme events in deep water surface waves. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	24
20	A fully-spectral 3D time-domain model for second-order simulation of wavetank experiments. Part B: Validation, calibration versus experiments and sample applications. <i>Applied Ocean Research</i> , 2006, 28, 121-132.	4.1	22
21	Experimental and numerical assessment of deterministic nonlinear ocean waves prediction algorithms using non-uniformly sampled wave gauges. <i>Ocean Engineering</i> , 2020, 212, 107659.	4.3	21
22	On the equivalence of unidirectional rogue waves detected in periodic simulations and reproduced in numerical wave tanks. <i>Ocean Engineering</i> , 2016, 117, 346-358.	4.3	17
23	Emergence of Peregrine solitons in integrable turbulence of deep water gravity waves. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	15
24	Prediction and manipulation of hydrodynamic rogue waves via nonlinear spectral engineering. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	13
25	Experimental reconstruction of extreme sea waves by time reversal principle. <i>Journal of Fluid Mechanics</i> , 2020, 884, .	3.4	11
26	Improved transient water wave technique for the experimental estimation of ship responses. <i>Journal of Fluids and Structures</i> , 2011, 27, 456-466.	3.4	10
27	Saturation of the Inverse Cascade in Surface Gravity-Wave Turbulence. <i>Physical Review Letters</i> , 2020, 125, 134501.	7.8	10
28	In-vitro validation of 4D flow MRI measurements with an experimental pulsatile flow model. <i>Diagnostic and Interventional Imaging</i> , 2019, 100, 17-23.	3.2	9
29	Self-similar gravity wave spectra resulting from the modulation of bound waves. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	8
30	Comparison of Simulation and Tank Test Results of a Semi-Submersible Floating Wind Turbine Under Wind and Wave Loads. , 2013, , .		7
31	Deterministic Reconstruction and Prediction of a Non-Linear Wave Field Using Probe Data. , 2008, , .		5
32	Towards quantitative evaluation of wall shear stress from 4D flow imaging. <i>Magnetic Resonance Imaging</i> , 2020, 74, 232-243.	1.8	4
33	Observation expÃ©rimentale en bassin Ã vagues des interactions rÃ©sonantes Ã quatre ondes. <i>Houille Blanche</i> , 2017, 103, 56-63.	0.3	3
34	Statistics of rogue waves in isotropic wave fields. <i>Journal of Fluid Mechanics</i> , 2022, 943, .	3.4	3
35	Nonlinear dispersion relation in integrable turbulence. <i>Scientific Reports</i> , 2022, 12, .	3.3	3
36	Generation of Large Angle Bimodal Sea States Using One-Side Segmented Wavemaker. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2008, 130, .	1.2	2

#	ARTICLE	IF	CITATIONS
37	Experimental and Numerical Comparative Investigation of Pressure Fields Under Steep 2D Waves. , 2006, , 579.		0
38	G�n�ration de houles multidirectionnelles complexes dans le bassin de Centrale Nantes. European Journal of Environmental and Civil Engineering, 2008, 12, 601-614.	2.1	0
39	Non-Linear Initialization in Three-Dimensional High Order Spectra Deterministic Sea State Modeling. , 2010, , .		0
40	Microwave scattering experiment on a wave tank: Bistatic setup. , 2012, , .		0
41	Using a Nonlinear Spectral Model for Preparing Three-Dimensional Wave Experiments. , 2004, , .		0
42	Generation of Large Angle Bimodal Sea States Using a Single Segmented Wavemaker. , 2007, , .		0