

# Marco Klein

## List of Publications by Year in descending order

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36  
papers

586  
citations

949033

11  
h-index

759306

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36  
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36  
docs citations

36  
times ranked

369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamic pressure beneath waves in water of intermediate depth: Theory and experiment. European Journal of Mechanics, B/Fluids, 2022, 94, 155-170.	1.2	1
2	The Influence of Characteristic Sea State Parameters on the Accuracy of Irregular Wave Field Simulations of Different Complexity. Fluids, 2022, 7, 243.	0.8	3
3	Hydroelastic potential flow solver suited for nonlinear wave dynamics in ice-covered waters. Ocean Engineering, 2022, 259, 111756.	1.9	2
4	Note on the Application of Transient Wave Packets for Wave-Ice Interaction Experiments. Water (Switzerland), 2021, 13, 1699.	1.2	6
5	Introducing envelope soliton solutions for wave-structure investigations. Ocean Engineering, 2021, 234, 109271.	1.9	4
6	A New Model Ice for Wave-Ice Interaction. Water (Switzerland), 2021, 13, 3397.	1.2	6
7	On the Deterministic Prediction of Water Waves. Fluids, 2020, 5, 9.	0.8	32
8	Case Based Scaling: Recent Developments in Ice Model Testing Technology. , 2020, , .		2
9	Wave Propagation in Continuous Sea Ice: An Experimental Perspective. , 2020, , .		2
10	Investigation of Nonlinear Wave-Ice Interaction Using Parameter Study and Numerical Simulation. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	0.6	3
11	Phase-suppressed hydrodynamics of solitons on constant-background plane wave. Physical Review Fluids, 2020, 5, .	1.0	3
12	State of the Art and Knowledge Gaps on Modelling Structures in Cold Regions. , 2019, , .		7
13	Nonlinear real time prediction of ocean surface waves. Ocean Engineering, 2018, 157, 387-400.	1.9	30
14	Laboratory and numerical study of intense envelope solitons of water waves: Generation, reflection from a wall, and collisions. Physics of Fluids, 2017, 29, .	1.6	33
15	An experimental and numerical study on breather solutions for surface waves in the intermediate water depth. Ocean Engineering, 2017, 133, 262-270.	1.9	7
16	Experimental investigation on the vertical bending moment in extreme sea states for different hulls. Ocean Engineering, 2016, 119, 181-192.	1.9	8
17	Experimental Observation and Theoretical Description of Multisoliton Fission in Shallow Water. Physical Review Letters, 2016, 117, 144102.	2.9	51
18	Peregrine breathers as design waves for wave-structure interaction. Ocean Engineering, 2016, 128, 199-212.	1.9	27

#	ARTICLE	IF	CITATIONS
19	Observation of dispersive shock waves developing from initial depressions in shallow water. <i>Physica D: Nonlinear Phenomena</i> , 2016, 333, 276-284.	1.3	44
20	Application of Higher Order Spectral Method for Deterministic Wave Forecast. , 2014, , .		3
21	How safe is "safe"? Ship dynamics in critical sea states. <i>Ocean Engineering</i> , 2013, 72, 87-97.	1.9	3
22	Response Based Identification of Critical Wave Scenarios. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2013, 135, .	0.6	5
23	Simulations and experiments of short intense envelope solitons of surface water waves. <i>Physics of Fluids</i> , 2013, 25, .	1.6	50
24	Rogue Waves: From Nonlinear Schrödinger Breather Solutions to Sea-Keeping Test. <i>PLoS ONE</i> , 2013, 8, e54629.	1.1	110
25	Application of Breather Solutions for the Investigation of Wave/Structure Interaction in High Steep Waves. , 2012, , .		7
26	Response Based Identification of Critical Wave Scenarios. , 2012, , .		1
27	Influence of Wave Group Characteristics on Loads in Severe Seas. , 2011, , .		12
28	Time Domain Comparison With Experiments for Ship Motions and Structural Loads on a Container Ship in Abnormal Waves. , 2011, , .		12
29	The New Year Wave in a seakeeping basin: Generation, propagation, kinematics and dynamics. <i>Ocean Engineering</i> , 2011, 38, 1624-1639.	1.9	35
30	Formation of Extraordinarily High Waves in Space and Time. , 2011, , .		15
31	Influence of the Bow Shape on Loads in High and Steep Waves. , 2010, , .		17
32	Evaluation of Critical Conditions in Offshore Vessel Operation by Response Based Optimization Procedures. , 2010, , .		3
33	The New Year Wave: Spatial Evolution of an Extreme Sea State. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2009, 131, .	0.6	14
34	Water depth influence on wave-structure-interaction. <i>Ocean Engineering</i> , 2009, 36, 1396-1403.	1.9	15
35	Spatial Evolution of an Extreme Sea State With an Embedded Rogue Wave. , 2008, , .		4
36	Generation of Rogue Waves With Predefined Steepness. , 2006, , 319.		9