Bernard Molin

List of Publications by Year
in descending order

35 papers	1,571 citations	331670 21 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	607 citing authors

#	Article	IF	Citations
1	An experimental and numerical study of the resonant flow between a hull and a wall. Journal of Fluid Mechanics, 2022, 930, .	3.4	10
2	CFD analysis of added mass, damping and induced flow of isolated and cylinder-mounted heave plates at various submergence depths using an overset mesh method. Journal of Fluids and Structures, 2022, 109, 103442.	3.4	14
3	An upright bottomless vertical cylinder with baffles floating in waves. Applied Ocean Research, 2022, 119, 102934.	4.1	3
4	Group dynamics and wave resonances in a narrow gap: modes and reduced group velocity. Journal of Fluid Mechanics, 2020, 883, .	3.4	25
5	Coupled vessel and moonpool responses in regular and irregular waves. Applied Ocean Research, 2020, 96, 102010.	4.1	25
6	A two-dimensional numerical and experimental study of piston and sloshing resonance in moonpools with recess. Journal of Fluid Mechanics, 2019, 877, 142-166.	3.4	26
7	On natural modes in moonpools and gaps in finite depth. Journal of Fluid Mechanics, 2018, 840, 530-554.	3.4	62
8	Wave propagation through dense vertical cylinder arrays: Interference process and specific surface effects on damping. Applied Ocean Research, 2017, 65, 229-237.	4.1	25
9	On natural modes in moonpools with recesses. Applied Ocean Research, 2017, 67, 1-8.	4.1	31
10	On the dispersion equation for linear waves traveling through or over dense arrays of vertical cylinders. Applied Ocean Research, 2016, 61, 148-155.	4.1	10
11	Inertia effects in TLD sloshing with perforated screens. Journal of Fluids and Structures, 2015, 59, 165-177.	3.4	52
12	Experimental and numerical study of the sloshing motion in a rectangular tank with a perforated screen. Journal of Fluids and Structures, 2013, 43, 463-480.	3.4	95
13	Third-order interactions, wave run-up and hydrodynamic loading on a vertical plate in an infinite wave field. Applied Ocean Research, 2013, 41, 57-64.	4.1	6
14	Experimental and numerical study of the effect of variable bathymetry on the slow-drift wave response of floating bodies. Applied Ocean Research, 2011, 33, 199-207.	4.1	21
15	Hydrodynamic modeling of perforated structures. Applied Ocean Research, 2011, 33, 1-11.	4.1	127
16	Experimental and numerical study of the wave run-up along a vertical plate. Journal of Fluid Mechanics, 2010, 654, 363-386.	3.4	12
17	A coupling method between extended Boussinesq equations and the integral equation method with application to a two-dimensional numerical wave-tank. Ocean Engineering, 2009, 36, 1377-1385.	4.3	4
18	Spacing effects on hydrodynamics of heave plates on offshore structures. Journal of Fluids and Structures, 2007, 23, 1119-1136.	3.4	75

#	Article	IF	Citations
19	Second-order wave interaction with a vertical plate. Journal of Engineering Mathematics, 2007, 58, 109-119.	1.2	7
20	A numerical study of nonlinear wave run-up on a vertical plate. Coastal Engineering, 2006, 53, 929-945.	4.0	28
21	The role of tertiary wave interactions in waveâ€“body problems. Journal of Fluid Mechanics, 2005, 528, 323-354.	3.4	24
22	On energy arguments applied to the hydrodynamic impact force. Journal of Engineering Mathematics, 2004, 48, 305-319.	1.2	14
23	Experimental and theoretical analysis of the wave decay along a long array of vertical cylinders. Journal of Fluid Mechanics, 2002, 456, 113-135.	3.4	30
24	Experimental study of the wave propagation and decay in a channel through a rigid ice-sheet. Applied Ocean Research, 2002, 24, 247-260.	4.1	50
25	ON THE ADDED MASS AND DAMPING OF PERIODIC ARRAYS OF FULLY OR PARTIALLY POROUS DISKS. Journal of Fluids and Structures, 2001, 15, 275-290.	3.4	61
26	On the piston and sloshing modes in moonpools. Journal of Fluid Mechanics, 2001, 430, 27-50.	3.4	273
27	Numerical evaluation of the springing loads on tension leg platforms. Marine Structures, 1995, 8, 501-524.	3.8	19
28	Wave and current forces on a vertical cylinder free to surge and sway. Applied Ocean Research, 1995, 17, 79-90.	4.1	35
29	Third-harmonic wave diffraction by a vertical cylinder. Journal of Fluid Mechanics, 1995, 302, 203-229.	3.4	151
30	A Potential Flow Model for the Drag of Shrouded Cylinders. Journal of Fluids and Structures, 1993, 7, 29-38.	3.4	13
31	An heuristic approach to wave drift damping. Applied Ocean Research, 1993, 15, 53-55.	4.1	29
32	Hydrodynamique des plates-formes semi-submersibles. Oil & Gas Science & Technology, 1988, 43, 217-244.	0.2	1
33	Further discussion on Rahman's paper, as before. Applied Ocean Research, 1985, 7, 63.	4.1	0
34	Effect of wave-directionality on second-order loads induced by the set-down. Applied Ocean Research, 1984, 6, 66-72.	4.1	6
35	Second-order diffraction loads upon three-dimensional bodies. Applied Ocean Research, 1979, 1, 197-202.	4.1	207