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	On the piston and sloshing modes in moonpools. Journal of Fluid Mechanics, 2001, 430, 27-50.	3.4	273
2	Second-order diffraction loads upon three-dimensional bodies. Applied Ocean Research, 1979, 1, 197-202.	4.1	207
3	Third-harmonic wave diffraction by a vertical cylinder. Journal of Fluid Mechanics, 1995, 302, 203-229.	3.4	151
4	Hydrodynamic modeling of perforated structures. Applied Ocean Research, 2011, 33, 1-11.	4.1	127
5	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
6	Spacing effects on hydrodynamics of heave plates on offshore structures. Journal of Fluids and Structures, 2007, 23, 1119-1136.	3.4	75
7	On natural modes in moonpools and gaps in finite depth. Journal of Fluid Mechanics, 2018, 840, 530-554.	3.4	62
8	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
9	Inertia effects in TLD sloshing with perforated screens. Journal of Fluids and Structures, 2015, 59, 165-177.	3.4	52
10	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
11	Wave and current forces on a vertical cylinder free to surge and sway. Applied Ocean Research, 1995, 17, 79-90.	4.1	35
12	On natural modes in moonpools with recesses. Applied Ocean Research, 2017, 67, 1-8.	4.1	31
13	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
14	An heuristic approach to wave drift damping. Applied Ocean Research, 1993, 15, 53-55.	4.1	29
15	A numerical study of nonlinear wave run-up on a vertical plate. Coastal Engineering, 2006, 53, 929-945.	4.0	28
16	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
17	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
18	Group dynamics and wave resonances in a narrow gap: modes and reduced group velocity. Journal of Fluid Mechanics, 2020, 883, .	3.4	25

#	Article	IF	Citations
19	Coupled vessel and moonpool responses in regular and irregular waves. Applied Ocean Research, 2020, 96, 102010.	4.1	25
20	The role of tertiary wave interactions in waveâ€“body problems. Journal of Fluid Mechanics, 2005, 528, 323-354.	3.4	24
21	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
22	Numerical evaluation of the springing loads on tension leg platforms. Marine Structures, 1995, 8, 501-524.	3.8	19
23	On energy arguments applied to the hydrodynamic impact force. Journal of Engineering Mathematics, 2004, 48, 305-319.	1.2	14
24	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
25	A Potential Flow Model for the Drag of Shrouded Cylinders. Journal of Fluids and Structures, 1993, 7, 29-38.	3.4	13
26	Experimental and numerical study of the wave run-up along a vertical plate. Journal of Fluid Mechanics, 2010, 654, 363-386.	3.4	12
27	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
28	An experimental and numerical study of the resonant flow between a hull and a wall. Journal of Fluid Mechanics, 2022, 930, .	3.4	10
29	Second-order wave interaction with a vertical plate. Journal of Engineering Mathematics, 2007, 58, 109-119.	1.2	7
30	Effect of wave-directionality on second-order loads induced by the set-down. Applied Ocean Research, 1984, 6, 66-72.	4.1	6
31	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
32	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
33	An upright bottomless vertical cylinder with baffles floating in waves. Applied Ocean Research, 2022, 119, 102934.	4.1	3
34	Hydrodynamique des plates-formes semi-submersibles. Oil & Gas Science & Technology, 1988, 43, 217-244.	0.2	1
35	Further discussion on Rahman's paper, as before. Applied Ocean Research, 1985, 7, 63.	4.1	0