

Gonçalves, R T

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Experimental study on vortex-induced motions of a semi-submersible platform with four square columns, Part I: Effects of current incidence angle and hull appendages. <i>Ocean Engineering</i> , 2012, 54, 150-169.	4.3	74
2	Flow around circular cylinders with very low aspect ratio. <i>Journal of Fluids and Structures</i> , 2015, 54, 122-141.	3.4	70
3	One and two degrees-of-freedom Vortex-Induced Vibration experiments with yawed cylinders. <i>Journal of Fluids and Structures</i> , 2013, 42, 401-420.	3.4	65
4	Experimental study on vortex-induced motions of a semi-submersible platform with four square columns, Part II: Effects of surface waves, external damping and draft condition. <i>Ocean Engineering</i> , 2013, 62, 10-24.	4.3	50
5	Two-degree-of-freedom vortex-induced vibration of circular cylinders with very low aspect ratio and small mass ratio. <i>Journal of Fluids and Structures</i> , 2013, 39, 237-257.	3.4	40
6	Mitigation of Vortex-Induced Motion (VIM) on a Monocolumn Platform: Forces and Movements. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2010, 132, .	1.2	30
7	An experimental investigation on concomitant Vortex-Induced Vibration and axial top-motion excitation with a long flexible cylinder in vertical configuration. <i>Ocean Engineering</i> , 2018, 156, 596-612.	4.3	27
8	Vortex-induced vibration of floating circular cylinders with very low aspect ratio. <i>Ocean Engineering</i> , 2018, 154, 234-251.	4.3	24
9	Experimental Analysis of a Vertical and Flexible Cylinder in Water: Response to Top Motion Excitation and Parametric Resonance. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.6	23
10	Experimental study of the column shape and the roughness effects on the vortex-induced motions of deep-draft semi-submersible platforms. <i>Ocean Engineering</i> , 2018, 149, 127-141.	4.3	20
11	Experimental Comparison of Two Degrees-of-Freedom Vortex-Induced Vibration on High and Low Aspect Ratio Cylinders with Small Mass Ratio. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2012, 134, .	1.6	19
12	State-of-Art on Vortex-Induced Motion: A Comprehensive Survey After More Than One Decade of Experimental Investigation. , 2012, , .		18
13	Elastic response of a light-weight floating support structure of FOWT with guywire supported tower. <i>Journal of Marine Science and Technology</i> , 2019, 24, 1015-1028.	2.9	14
14	Wave and Wind Responses of a Very-Light FOWT with Guy-Wired-Supported Tower: Numerical and Experimental Studies. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 841.	2.6	14
15	Evolution of the MPSO (monocolumn production, storage and offloading system). <i>Marine Systems and Ocean Technology</i> , 2009, 5, 45-53.	1.0	13
16	Spoiler plate effects on the suppression of vortex-induced motions of a single circular cylinder. <i>Ocean Engineering</i> , 2020, 210, 107569.	4.3	12
17	Seakeeping Tests of a FOWT in Wind and Waves: An Analysis of Dynamic Coupling Effects and Their Impact on the Predictions of Pitch Motion Response. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 179.	2.6	12
18	An Overview of Relevant Aspects on VIM of Spar and Monocolumn Platforms. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2012, 134, .	1.2	11

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19	Analysis Methodology for Vortex-Induced Motion (VIM) of a Monocolumn Platform Applying the Hilbert–Huang Transform Method. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2012, 134, .	1.2	11
20	Influence of heave plates on the dynamics of a floating offshore wind turbine in waves. <i>Journal of Marine Science and Technology</i> , 2021, 26, 190-200.	2.9	11
21	Vortex-induced vibration experiments with a long semi-immersed flexible cylinder under tension modulation: Fourier transform and Hilbert–Huang spectral analyses. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2015, 37, 589-599.	1.6	10
22	Damping Coefficient Analyses for Floating Offshore Structures. , 2010, , .		9
23	FIM - flow-induced motions of four-column platforms. <i>Applied Ocean Research</i> , 2020, 95, 102019.	4.1	9
24	Experimental Flow-Induced Motions of a FOWT Semi-Submersible Type (OC4 Phase II Floater). <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2021, 143, .	1.2	9
25	Concomitant vortex-induced vibration experiments: a cantilevered flexible cylinder and a rigid cylinder mounted on a leaf-spring apparatus. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2014, 36, 547-558.	1.6	8
26	Dynamic Behavior of a Flexible Multi-Column FOWT in Regular Waves. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 124.	2.6	8
27	A Phenomenological Model for Vortex-Induced Motions of the Monocolumn Platform and Comparison With Experiments. , 2009, , .		7
28	Experimental Study on Vortex-Induced Motions (VIM) of a Large-Volume Semi-Submersible Platform. , 2011, , .		7
29	Non-Linear Motion Characteristics of a Shallow Draft Cylindrical Barge Type Floater for a FOWT in Waves. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 56.	2.6	7
30	Experimental study on vortex-induced motions of a semi-submersible platform with four square columns, part III: Effects of the collinear irregular and regular wave incidence and current. <i>Ocean Engineering</i> , 2020, 217, 107585.	4.3	7
31	Parametric analysis of a phenomenological model for vortex-induced motions of monocolumn platforms. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2011, 33, 139-146.	1.6	7
32	Numerical Moonpool Modeling. , 2006, , 493.		6
33	Experimental Comparisons to Assure the Similarity Between VIM (Vortex-Induced Motion) and VIV (Vortex-Induced Vibration) Phenomena. , 2011, , .		6
34	CFD Calculations for Free-Surface-Piercing Low Aspect Ratio Circular Cylinder With Solution Verification and Comparison With Experiments. , 2013, , .		6
35	Conceptual Design of Monocolumn Production and Storage With Dry Tree Capability. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2010, 132, .	1.2	5
36	Experimental Study on the Vortex-Induced Motions (VIM) of a Semi-Submersible Floater in Waves. , 2017, , .		5

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37	FIM “ Flow-Induced Motion of Three-Column Platforms. International Journal of Offshore and Polar Engineering, 2020, 30, 177-185.	0.8	5
38	The Influence at Vertical First Order Motions Using Appendages in a Monocolumn Platform. , 2008, , .		4
39	Experimental Comparative Study on Vortex-Induced Motion (VIM) of a Monocolumn Platform. Journal of Offshore Mechanics and Arctic Engineering, 2012, 134, .	1.2	4
40	A Model Scale Experimental Investigation on Vortex-Self Induced Vibrations (VSIV) of Catenary Risers. , 2013, , .		4
41	Experimental Study on Vortex-Induced Vibration of Floating Circular Cylinders With Low Aspect Ratio. , 2014, , .		4
42	CFD Calculations of the Vortex-Induced Motions of a Circular-Column Semi-Submersible. , 2016, , .		4
43	CFD evaluation and experimental comparison on the flow around fixed multi-column configurations. Marine Systems and Ocean Technology, 2019, 14, 166-191.	1.0	4
44	Nonlinear Analysis of a Heaving Point Absorber in Frequency Domain via Statistical Linearization. , 2019, , .		4
45	Mitigation of Vortex-Induced Motions in a Monocolumn Platform. , 2009, , .		3
46	Vortex-Induced Motion of a Monocolumn Platform: New Analysis and Comparative Study. , 2009, , .		3
47	Experimental Study on Flow-Induced Vibration of Floating Squared Section Cylinders With Low Aspect Ratio: Part I “ Effects of Incidence Angle. , 2015, , .		3
48	Experimental Study on Flow-Induced Vibration of Floating Squared Section Cylinders With Low Aspect Ratio: Part II “ Effects of Rounded Edges. , 2016, , .		3
49	Experimental Study on Flow-Induced Motion of an Array of Four Cylinders with Different Spacing Ratio. , 2018, , .		3
50	Effects of the position of pipe-type appendages on the flow induced motions, energy transformation, and drag force of a TLP. Applied Ocean Research, 2021, 106, 102464.	4.1	3
51	Effect of initial roll or pitch angles on the vortex-induced motions (VIM) of floating circular cylinders with a low aspect ratio. Ocean Engineering, 2022, 257, 111574.	4.3	3
52	Analysis Methodology of Vortex-Induced Motions (VIM) on a Monocolumn Platform Applying the Hilbert-Huang Transform Method. , 2010, , .		2
53	Wave Effects on Vortex-Induced Motion (VIM) of a Large-Volume Semi-Submersible Platform. , 2012, , .		2
54	A Nonlinear Analytical Model for Flexible Pipe Crushing Analysis. , 2012, , .		2

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55	Experimental Study on Flow Around Circular Cylinders With Low Aspect Ratio. , 2013, , .		2
56	Experimental study on flow around an array of four circular cylinders. , 2016, , .		2
57	Further Experimental Investigations on Vortex Self-Induced Vibrations (VSIV) With a Small-Scale Catenary Riser Model. , 2017, , .		2
58	Experimental Study on Flow Around an Array of Four Cylinders With Different Section Geometries. , 2017, , .		2
59	Experimental Study on Vortex-Induced Vibration of Floating Circular Cylinders With Low Aspect Ratio and Different Free-End Corner Shapes. , 2018, , .		2
60	Force Measurements of the Flow Around Arrays of Three and Four Columns With Different Geometry Sections, Spacing Ratios, and Incidence Angles. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	1.2	2
61	Force Measurements and Stationarity Analysis on the Flow Around a Single Square Column With Rounded Edges. , 2019, , .		2
62	Experimental Study on Flow-Induced Motions (FIM) of a Floating Offshore Wind Turbine Semi-Submersible Type (OC4 Phase II Floater). , 2019, , .		2
63	Crushing of Flexible Pipes Under Traction: A Theoretical-Experimental Assessment. , 2011, , .		1
64	An Experimental Assessment of the Hysteresis Behavior of Umbilical Cables Under Cyclic Traction. , 2017, , .		1
65	Experimental and Numerical Comparison of the Wave Dynamics and Guy Wire Forces of a Very Light FOWT Considering Hydroelastic Behavior. , 2018, , .		1
66	CFD STUDY ON THE INFLUENCE OF FREE SURFACE AND TURBULENCE MODELING ON THE FLOW AROUND A FIXED CIRCULAR CYLINDER WITH LOW ASPECT RATIO. , 2017, , .		1
67	FREE-SURFACE EFFECTS ON HYDRODYNAMIC FORCES FOR HALF-SUBMERGED CIRCULAR CYLINDERS WITH LOW ASPECT RATIO. , 2019, , .		1
68	Experimental Study of the Effect of the Pontoon Presence on the Flow-Induced Motion of a Semi-Submersible Platform With Four Square Columns. , 2019, , .		1
69	Nonlinear Analysis of an Oscillating Water Column Wave Energy Device in Frequency Domain via Statistical Linearization. , 2019, , .		1
70	Conceptual Design of Floating Production and Storage With Dry Tree Capability. , 2008, , .		0
71	Crushing Tests of Flowlines Internal Layers: An Experimental Approach via Optical Motion Capture and Image Processing. , 2010, , .		0
72	MPSO Design: Part 1 – Wave Excitation Forces and Moments. , 2012, , .		0

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73	Experimental Analysis of a Vertical and Flexible Cylinder in Water: Response to Top Motion Excitation and Parametric Resonance. , 2014, , .		0
74	2D CFD on flow-induced forces of three circular, square and diamond columns in equilateral arrangements at low Reynolds number. Journal of Marine Science and Technology, 2021, 26, 1153-1169.	2.9	0
75	Experimental Study About the Influence of the Free End Effects on Vortex-Induced Vibration of Floating Cylinder With Low Aspect of Ratio. , 2016, , .		0
76	Influence of Stiffness Ratio on Vortex-Induced Vibration of Cylinder With Low Aspect Ratio. , 2018, , .		0
77	Analysis of Wake Interaction of Oscillating Platform With Four Columns. , 2019, , .		0