

Breno Jacob

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

808
citations

471371

17
h-index

552653

26
g-index

76
all docs

76
docs citations

76
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	ANN-based surrogate models for the analysis of mooring lines and risers. Applied Ocean Research, 2013, 41, 76-86.	1.8	64
2	A rank-based constraint handling technique for engineering design optimization problems solved by genetic algorithms. Computers and Structures, 2017, 187, 77-87.	2.4	54
3	Optimal design of submarine pipeline routes by genetic algorithm with different constraint handling techniques. Advances in Engineering Software, 2014, 76, 110-124.	1.8	53
4	Tailoring the particle swarm optimization algorithm for the design of offshore oil production risers. Optimization and Engineering, 2011, 12, 215-235.	1.3	39
5	A hybrid fuzzy/genetic algorithm for the design of offshore oil production risers. International Journal for Numerical Methods in Engineering, 2005, 64, 1459-1482.	1.5	38
6	An integrated methodology for the design of mooring systems and risers. Marine Structures, 2014, 39, 395-423.	1.6	37
7	An optimized implementation of the Newmark/Newton-Raphson algorithm for the time integration of non-linear problems. Communications in Numerical Methods in Engineering, 1994, 10, 983-992.	1.3	36
8	Procedures for the strain based assessment of pipeline dents. International Journal of Pressure Vessels and Piping, 2010, 87, 254-265.	1.2	36
9	Parallel implementations of coupled formulations for the analysis of floating production systems, part I: Coupling formulations. Ocean Engineering, 2012, 55, 206-218.	1.9	34
10	Adaptive reduced integration method for nonlinear structural dynamic analysis. Computers and Structures, 1992, 45, 333-347.	2.4	28
11	Finite Element Modeling of the Failure Behavior of Pipelines Containing Interacting Corrosion Defects. , 2006, , 315.		27
12	Bio-inspired algorithms for the optimization of offshore oil production systems. International Journal for Numerical Methods in Engineering, 2012, 91, 1023-1044.	1.5	26
13	Implicit domain decomposition methods for coupled analysis of offshore platforms. Communications in Numerical Methods in Engineering, 2006, 23, 599-621.	1.3	23
14	Wavelet network meta-models for the analysis of slender offshore structures. Engineering Structures, 2014, 68, 71-84.	2.6	23
15	Formulation of an efficient hybrid time-frequency domain solution procedure for linear structural dynamic problems. Computers and Structures, 2010, 88, 331-346.	2.4	21
16	Parallel implementations of coupled formulations for the analysis of floating production systems, Part II: Domain decomposition strategies. Ocean Engineering, 2012, 55, 219-234.	1.9	21
17	ANN and wavelet network meta-models for the coupled analysis of floating production systems. Applied Ocean Research, 2014, 48, 21-32.	1.8	20
18	Artificial Neural Networks for the analysis of spreader mooring configurations for floating production systems. Applied Ocean Research, 2016, 59, 254-264.	1.8	20

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19	Towards an adaptive "semi-implicit" solution scheme for nonlinear structural dynamic problems. Computers and Structures, 1994, 52, 495-504.	2.4	17
20	Collapse analysis of steel jacket structures for offshore oil exploitation. Journal of Constructional Steel Research, 2005, 61, 1147-1171.	1.7	13
21	Toward a methodology for the optimal design of mooring systems for floating offshore platforms using evolutionary algorithms. Marine Systems and Ocean Technology, 2016, 11, 55-67.	0.5	13
22	Optimal Design of Submarine Pipelines by a Genetic Algorithm with Embedded On-Bottom Stability Criteria. Mathematical Problems in Engineering, 2018, 2018, 1-21.	0.6	13
23	Numerical evaluation of a subsea equipment installation method designed to avoid resonant responses. Applied Ocean Research, 2019, 88, 288-305.	1.8	13
24	Optimization of mooring systems in the context of an integrated design methodology. Marine Structures, 2021, 75, 102874.	1.6	10
25	Towards the Integration of Analysis and Design of Mooring Systems and Risers: Part II " Studies on a DICAS System. , 2002, , 291.		9
26	Towards the Integration of Analysis and Design of Mooring Systems and Risers: Part I " Studies on a Semisubmersible Platform. , 2002, , 41.		8
27	Application of Genetic Algorithms to the Synthesis of Riser Configurations. , 2003, , .		8
28	Numerical Offshore Tank: Development of Numerical Offshore Tank for Ultra Deep Water Oil Production Systems. , 2003, , 575.		7
29	Synthesis and Optimization of Submarine Pipeline Routes Considering On-Bottom Stability Criteria. , 2011, , .		7
30	Incorporating Engineering Criteria to the Synthesis and Optimization of Submarine Pipeline Routes: On-Bottom Stability, VIV-Induced Fatigue and Multiphase Flow. , 2014, , .		7
31	A reduced integration method for the coupled analysis of floating production systems. Ocean Engineering, 2015, 104, 422-436.	1.9	7
32	Optimization of Submarine Pipeline Routes Considering Slope Stability. , 2015, , .		6
33	Alternative Design of Flexible Jumpers for Deepwater Hybrid Riser Configurations. Journal of Offshore Mechanics and Arctic Engineering, 2001, 123, 57-64.	0.6	5
34	Structural design of process decks for floating production, storage and offloading units. Marine Structures, 1998, 11, 403-412.	1.6	4
35	Failure Behavior of Colonies of Corrosion Defects Composed of Symmetrically Arranged Defects. , 2006, , 417.		4
36	Probabilistic and Fuzzy Arithmetic Approaches for the Treatment of Uncertainties in the Installation of Torpedo Piles. Mathematical Problems in Engineering, 2008, 2008, 1-26.	0.6	4

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37	Multi-Objective Optimization of Subsea Pipeline Routes in Shallow Waters. , 2017, , .		4
38	Numerical Simulation of the Mooring Procedures of the BGL-1 Pipeline Launching Barge. , 2004, , .		4
39	Some Remarks on the Strain Based Assessment of Pipeline Dents. , 2008, , .		3
40	Synthesis and Optimization of Submarine Pipeline Routes Considering VIV-Induced Fatigue on Free Spans. , 2013, , .		3
41	OTIMROTA-Multiline: Computational Tool for the Conceptual Design of Subsea Production Systems. , 2017, , .		3
42	An Integrated Methodology for the Design of Mooring Systems and Risers of Floating Production Platforms. , 2012, , .		3
43	Evaluation of Safe and Failure Zones of Risers and Mooring Lines of Floating Production Systems. , 2013, , .		3
44	Implicit and Explicit Implementation of the Dynamic Relaxation Method for the Definition of Initial Equilibrium Configurations of Flexible Lines. , 2006, , 131.		2
45	Risers Clashing Induced by the Wake Interference. , 2008, , .		2
46	Semi-Coupled Scheme for the Analysis of Floating Production Systems. , 2013, , .		2
47	A semi-coupled methodology for the motion analysis of floating production systems. Ships and Offshore Structures, 2019, 14, 363-370.	0.9	2
48	An Enhanced Semi-Coupled Methodology for the Analysis and Design of Floating Production Systems. Journal of Offshore Mechanics and Arctic Engineering, 2021, 143, .	0.6	2
49	A Generalized Contact Model for Nonlinear Dynamic Analysis of Floating Offshore Systems. , 2006, , .		2
50	Numerical Simulation of Offshore Pipeline Installation by Lateral Deflection Procedure. , 2007, , .		2
51	Comparison of Coupled and Uncoupled Analysis Methodologies in Towing Pipeline Installation Modeling. , 2007, , .		2
52	Portable FORTRAN programming tools in the development of a structural analysis program. Computers and Structures, 1995, 57, 1109-1125.	2.4	1
53	Numerical Simulation of the "Floating Spiral"™ Pipeline Installation Procedure: First Stage, Spiral Assembly. , 2008, , .		1
54	Numerical Simulation of the "Floating Spiral"™ Pipeline Installation Procedure: Second Stage, Spiral Transportation, Behavior Under Waves. , 2008, , .		1

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55	Numerical Tool for Automatic Identification of Free Spans on Submarine Pipelines. , 2013, , .		1
56	Development of Operational Limit Diagrams for Offshore Lifting Procedures. , 2015, , .		1
57	Sub-Surface Buoy Hybrid Riser System for Deepwater Application. , 2003, , .		1
58	Coupled Motion Analysis of a Semisubmersible Platform in Campos Basin. , 2004, , .		1
59	An Evaluation of the Semi-Coupled Scheme for the Analysis of Floating Production Systems. , 2014, , .		1
60	Investigation of roll damping effects on deep water FPSOs with riser balcony through global coupled analysis. Ships and Offshore Structures, 0, , 1-8.	0.9	1
61	Computation of crack-growth in axisymmetric shells with local irregularities. Advances in Engineering Software, 1992, 14, 47-54.	1.8	0
62	Numerical simulation of the "pull-in"™ operation in submarine pipelines. Engineering Structures, 1997, 19, 868-876.	2.6	0
63	Application of a Modified Truss Element to the Analysis of Flexible Risers. , 2002, , 49.		0
64	Studies on VIV Fatigue Behavior in SCRS of Hybrid Riser Systems. , 2002, , 33.		0
65	Pipeline-Laybarge Interaction Model for the Simulation of S-Lay Installation Procedures. , 2008, , .		0
66	Subsea Pipelaying Simulation by the "Situa-Petropipe" Software: A User Friendly Alternative. , 2008, , .		0
67	Numerical Simulation of a Pipeline Installation Procedure at the Negro River. , 2008, , .		0
68	An Efficient Time-Frequency Domain Solution Procedure for the Analysis of Offshore System. , 2011, , .		0
69	Mooring Optimization of Offshore Floating Systems Using an Improved Particle Swarm Optimization Method. , 2013, , .		0
70	Optimization of Mooring Systems for Floating Offshore Platforms Considering Seabed Obstacles. , 2017, , .		0
71	Studies on Meta-Modeling for Lazy-Wave Steel Catenary Risers. , 2018, , .		0
72	Computational Systems for Offshore Pipeline Launching Simulations. , 2003, , .		0

#	ARTICLE	IF	CITATIONS
73	An Analytical/Numerical Procedure for Structural Analysis of Hybrid Riser Systems. , 2005, , .		0
74	Implementation and Application of Modal Analysis During Time Domain Dynamic Simulation of Floating Offshore Systems. , 2006, , .		0
75	Application of Parametric Surfaces in Contact Assessment Between Two Floaters in Side by Side Operations. , 2012, , .		0