Segen F Estefen

List of Publications by Year
in descending order

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132	2,299	257101 24	243296 44
papers	citations	h-index	g-index

135	135	135	1287
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of corrosion defects on the burst pressure of pipelines. Journal of Constructional Steel Research, 2005, 61, 1185-1204.	1.7	213
2	Reliability of pipelines with corrosion defects. International Journal of Pressure Vessels and Piping, 2008, 85, 228-237.	1.2	208
3	Pipelines, risers and umbilicals failures: A literature review. Ocean Engineering, 2018, 148, 412-425.	1.9	124
4	Influence of the welding sequence on residual stress and distortion of fillet welded structures. Marine Structures, 2016, 46, 30-55.	1.6	107
5	A geometrical optimization method applied to a heaving point absorber wave energy converter. Renewable Energy, 2018, 115, 533-546.	4.3	100
6	Effect of boundary conditions on residual stress and distortion in T-joint welds. Journal of Constructional Steel Research, 2014, 102, 121-135.	1.7	75
7	Strength Analyses of Sandwich Pipes for Ultra Deepwaters. Journal of Applied Mechanics, Transactions ASME, 2005, 72, 599-608.	1.1	67
8	Collapse of sandwich pipes with PVA fiber reinforced cementitious composites core under external pressure. Ocean Engineering, 2014, 82, 1-13.	1.9	65
9	Ultimate strength behaviour of sandwich pipes filled with steel fiber reinforced concrete. Ocean Engineering, 2012, 55, 125-135.	1.9	59
10	Limit strength and reeling effects of sandwich pipes with bonded layers. International Journal of Mechanical Sciences, 2007, 49, 577-588.	3.6	58
11	Assessment of the offshore wind technical potential for the Brazilian Southeast and South regions. Energy, 2020, 196, 117097.	4.5	51
12	Parameter determination of double-ellipsoidal heat source model and its application in the multi-pass welding process. Ships and Offshore Structures, 2015, 10, 204-217.	0.9	50
13	Sensitivity analysis on ultimate strength of aluminium stiffened panels. Marine Structures, 2003, 16, 437-468.	1.6	49
14	A nonlinear analysis of the buckle propagation problem in deepwater pipelines. International Journal of Solids and Structures, 2001, 38, 8481-8502.	1.3	46
15	An integrated optimization model for the layout design of a subsea production system. Applied Ocean Research, 2018, 77, 1-13.	1.8	44
16	Wave-to-Wire Model and Energy Storage Analysis of an Ocean Wave Energy Hyperbaric Converter. IEEE Journal of Oceanic Engineering, 2014, 39, 386-397.	2.1	43
17	Ocean Renewable Energy Potential, Technology, and Deployments: A Case Study of Brazil. Energies, 2019, 12, 3658.	1.6	39
18	Modeling for the optimization of layout scenarios of cluster manifolds with pipeline end manifolds. Applied Ocean Research, 2014, 46, 94-103.	1.8	38

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19	Buckle arrestors for deepwater pipelines. Marine Structures, 1996, 9, 873-883.	1.6	31
20	Phase control strategy for a wave energy hyperbaric converter. Ocean Engineering, 2010, 37, 1483-1490.	1.9	29
21	Theoretical investigation of the compression limits of sealing structures in complex load transferring between subsea connectorÂcomponents. Journal of Natural Gas Science and Engineering, 2017, 44, 202-213.	2.1	29
22	Alternative concept for tidal power plant with reservoir restrictions. Renewable Energy, 2009, 34, 1151-1157.	4.3	28
23	Influence of geometric imperfections on the ultimate strength of the double bottom of a Suezmax tanker. Engineering Structures, 2016, 127, 287-303.	2.6	27
24	Wave energy harvesting using nonlinear stiffness system. Applied Ocean Research, 2018, 74, 102-116.	1.8	27
25	Optimal design and scheduling for offshore oil-field development. Computers and Chemical Engineering, 2019, 123, 300-316.	2.0	26
26	Environmental impacts of offshore wind installation, operation and maintenance, and decommissioning activities: A case study of Brazil. Renewable and Sustainable Energy Reviews, 2021, 144, 110994.	8.2	26
27	Simulation of Transient Heat Transfer of Sandwich Pipes With Active Electrical Heating. Journal of Offshore Mechanics and Arctic Engineering, 2005, 127, 366-370.	0.6	23
28	Welding stress relaxation effect in butt-jointed steel plates. Marine Structures, 2012, 29, 211-225.	1.6	23
29	Thermal insulation of subsea pipelines for different materials. International Journal of Pressure Vessels and Piping, 2018, 168, 100-109.	1.2	22
30	Improved bistable mechanism for wave energy harvesting. Ocean Engineering, 2021, 232, 109139.	1.9	20
31	Perturbation analysis for upheaval buckling of imperfect buried pipelines based on nonlinear pipe-soil interaction. Ocean Engineering, 2017, 132, 92-100.	1.9	19
32	On the power performance of a wave energy converter with a direct mechanical drive power take-off system controlled by latching. Renewable Energy, 2021, 169, 157-177.	4.3	19
33	Buckle propagation of damaged SHCC sandwich pipes: Experimental tests and numerical simulation. Marine Structures, 2021, 77, 102976.	1.6	18
34	Collapse behaviour of intact and damaged deepwater pipelines and the influence of the reeling method of installation. Journal of Constructional Steel Research, 1999, 50, 99-114.	1.7	15
35	Sandwich Pipes for Ultra Deepwater Applications. , 2008, , .		15
36	A seismic design method for subsea pipelines against earthquake fault movement. China Ocean Engineering, 2011, 25, 179-188.	0.6	15

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37	Structural behavior of threaded connections for sandwich pipes under make-up torque, external pressure, and axial load. International Journal of Pressure Vessels and Piping, 2020, 186, 104156.	1.2	15
38	An installation system of deepwater risers by an S-lay vessel. China Ocean Engineering, 2011, 25, 139-148.	0.6	14
39	Experimental-based methodology for the double ellipsoidal heat source parameters in welding simulations. Marine Systems and Ocean Technology, 2020, 15, 110-123.	0.5	14
40	Buckling propagation failure in semi-submersible platform columns. Marine Structures, 2012, 28, 2-24.	1.6	13
41	Experimentally based parameters applied to concrete damage plasticity model for strain hardening cementitious composite in sandwich pipes. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	1.3	13
42	Efficiency optimization in a wave energy hyperbaric converter. , 2009, , .		12
43	Practical considerations on nonlinear stiffness system for wave energy converter. Applied Ocean Research, 2019, 92, 101935.	1.8	12
44	Influence of the WRF model and atmospheric reanalysis on the offshore wind resource potential and cost estimation: A case study for Rio de Janeiro State. Energy, 2022, 240, 122767.	4.5	12
45	Collapse pressure of sandwich pipes with strain-hardening cementitious composite - Part 1: Experiments and parametric study. Thin-Walled Structures, 2020, 148, 106605.	2.7	11
46	Mixed-integer nonlinear programming model for layout design of subsea satellite well system in deep water oil field. Automation in Construction, 2021, 123, 103524.	4.8	11
47	Ultimate strength behaviour of submarine pipelines under external pressure and bending. Journal of Constructional Steel Research, 1994, 28, 137-151.	1.7	10
48	Wave Energy Hyperbaric Device for Electricity Production. , 2007, , 627.		10
49	Design Aspects and Benefits of Sandwich Pipes for Ultra Deepwaters. , 2009, , .		10
50	Semi-analytical solution for soil-constrained vibration of subsea free-spanning pipelines. Ships and Offshore Structures, 2018, 13, 666-676.	0.9	10
51	Ultimate bending strength of sandwich pipes with actual interlayer behavior. Thin-Walled Structures, 2021, 161, 107476.	2.7	10
52	Surface residual stress evaluation in double-electrode butt welded steel plates. Materials & Design, 2010, 31, 1622-1627.	5.1	9
53	Under What Conditions SAR Along-Track Interferometry is Suitable for Assessment of Tidal Energy Resource. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5011-5022.	2.3	9
54	Time-dependent redistribution behavior of residual stress after repair welding. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 507-515.	1.3	9

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55	A nonlinear constrained optimization model for subsea pipe route selection on an undulating seabed with multiple obstacles. Ocean Engineering, 2019, 186, 106088.	1.9	9
56	Collapse pressure of sandwich pipes with strain-hardening cementitious composite - Part 2: A suitable prediction equation. Thin-Walled Structures, 2020, 148, 106606.	2.7	9
57	URANS simulations of a horizontal axis wind turbine under stall condition using Reynolds stress turbulence models. Energy, 2020, 213, 118766.	4.5	9
58	Fracture criteria applied to numerical simulation of blowout preventer ram shearing. Engineering Failure Analysis, 2020, 114, 104596.	1.8	9
59	A simplified equation for the collapse pressure of sandwich pipes with different core materials. Ocean Engineering, 2022, 254, 111292.	1.9	9
60	Adhesion Effect on the Ultimate Strength of Sandwich Pipes. , 2006, , 261.		8
61	Dynamics of risers for earthquake resistant designs. Petroleum Science, 2010, 7, 273-282.	2.4	8
62	Welding residual stresses: a daily history. Science and Technology of Welding and Joining, 2015, 20, 616-621.	1.5	8
63	Effect of material model on residual stress and distortion in T-joint welding. Ships and Offshore Structures, 2018, 13, 56-64.	0.9	8
64	Application of the Latching Control System on the Power Performance of a Wave Energy Converter Characterized by Gearbox, Flywheel, and Electrical Generator. Journal of Marine Science and Application, 2021, 20, 767-786.	0.7	8
65	Reeling Effect on the Ultimate Strength of Sandwich Pipes. , 2005, , 489.		7
66	Floating protection system for FPSO. International Journal of Computer Applications in Technology, 2012, 43, 199.	0.3	7
67	The Effect of the Reeling Laying Method on the Collapse Pressure of Steel Pipes for Deepwater. , 2004, , 247.		6
68	Optimization of the wave energy absorption in oscillating-body systems using extremum seeking approach. , 2012, , .		6
69	Collapse and Buckle Propagation of Sandwich Pipes: A Review. , 2013, , .		6
70	Redistribution of the residual welding stresses. Marine Systems and Ocean Technology, 2013, 8, 95-100.	0.5	6
71	Numerical and Experimental Studies of Residual Stresses in Multipass Welding of High Strength Shipbuilding Steel. Journal of Ship Research, 2015, 59, 133-144.	0.5	6
72	Optimization of Pipe Insulation Volume for a Subsea Production System. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	0.6	6

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73	Limit states for the ultimate strength of tubulars subjected to pressure, bending and tension loads. Marine Structures, 1994, 7, 323-344.	1.6	5
74	Simulation of Transient Heat Transfer of Sandwich Pipes With Active Electrical Heating. , 2004, , 105.		5
75	Sandwich Pipes With Strain Hardening Cementitious Composites (SHCC): Numerical Analyses. , 2014, , .		5
76	Modeling for the Optimization Evaluation of Layout Scenarios of Subsea Cluster Manifolds Considering Three Connection Types. Marine Technology Society Journal, 2014, 48, 98-111.	0.3	5
77	Experimental and numerical analysis of small-scale panels with indented stiffeners. Journal of Constructional Steel Research, 2018, 150, 7-22.	1.7	5
78	Limit state formulations for TLP tendon and steel riser bodies. Journal of Constructional Steel Research, 1995, 32, 107-121.	1.7	4
79	Thermal Analysis of Sandwich Pipes With Active Electrical Heating. , 2003, , 809.		4
80	Experimental and Numerical Studies of the Wave Energy Hyberbaric Device for Electricity Production. , 2008, , .		4
81	Limit Strength of New Sandwich Pipes With Strain Hardening Cementitious Composites (SHCC) Core: Finite Element Modelling. , 2012, , .		4
82	Experimental and Numerical Analyses of Dented Stiffened Panels. Journal of Offshore Mechanics and Arctic Engineering, 2015, 137, .	0.6	4
83	Sandwich Pipe for Long Distance Pipelines: Flow Assurance and Costs. , 2016, , .		4
84	Indentation parameters influence on the ultimate strength of panels for different stiffeners. Journal of Constructional Steel Research, 2020, 170, 106097.	1.7	4
85	The motion response and hydrodynamic performance comparisons of the new subsea suspended manifold with two mooring scenarios. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	4
86	Hardware-in-the-loop development of a heaving point absorber wave energy converter using inertia emulation. Electrical Engineering, 2021, 103, 2675-2684.	1.2	4
87	Misorientation Changes and Residual Stresses Redistribution after Welding. A Physical Simulation. Materials Research, 2019, 22, .	0.6	4
88	The effect of eccentricity on the collapse behaviour of sandwich pipes. Applied Ocean Research, 2022, 124, 103190.	1.8	4
89	RING STIFFENER BEHAVIOUR AND ITS INTERACTION WITH CYLINDRICAL PANEL BU -CKLING.. Proceedings of the Institution of Civil Engineers, 1983, 75, 243-264.	0.1	3
90	Thermal-Hydraulic Analysis of Heavy Oil Transportation in Heated Sandwich Pipelines. , 2005, , 457.		3

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91	Wave Climate Analysis for a Wave Energy Conversion Application in Brazil. , 2007, , 897.		3
92	Residual Strength Assessment of Semi-Submersible Platform Column Due to Supply Vessel Collision. , 2008, , .		3
93	Wave Energy Hyperbaric Converter: Small Scale Models, Prototype and Control Strategies. , 2012, , .		3
94	Sandwich Pipe: Reel-Lay Installation Effects. , 2015, , .		3
95	A new partition model for the optimization of subsea cluster manifolds based on the new definition of layout cost. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2016, 230, 3-12.	0.3	3
96	Evaluation of the Double Snap-Through Mechanism on the Wave Energy Converterâ€™s Performance. Journal of Marine Science and Application, 2021, 20, 268-283.	0.7	3
97	Influence of the Geometric Imperfection on the Buckling Behavior of Floating Platform Column Under Axial Load. , 2007, , 489.		2
98	Subsea Production Layout: Design and Cost. , 2017, , .		2
99	Numerical Simulation of Shear Ram Performance. , 2018, , .		2
100	Viscous effect for heaving cylindrical point absorbers controlled by a latching control system and a novel approach to viscous force. Journal of Ocean Engineering and Marine Energy, 2021, 7, 363-378.	0.9	2
101	Redistribution of Grain Boundary Misorientation and Residual Stresses of Thermomechanically Simulated Welding in an Intercritically Reheated Coarse Grained Heat Affected Zone. Metals, 2021, 11, 1850.	1.0	2
102	Residual Strength of Dented Stiffened Panels. , 2013, , .		1
103	Residual Compressive Strength of Dented FPSO Side Shell Panel. , 2014, , .		1
104	Ultimate Shear Strength of Stiffened Panels for Offshore Structures. , 2014, , .		1
105	Hydraulic Analytical Model of the BOP Control System to Estimate Related Response Times. , 2018, , .		1
106	Insulation Performance of Sandwich Pipe. , 2018, , .		1
107	Buckling Strength of Damaged Stiffened Panels. , 2011, , .		1
108	Transient Analysis of Multilayer Composite Pipelines with Active Heating. , 2021, , 205-220.		1

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109	Ram Performance and Hydraulic Modeling of Subsea Blowout Preventer Control System. SPE Drilling and Completion, 2022, 37, 267-281.	0.9	1
110	New Algorithm for Full Hexahedral Finite Element Mesh Generation of Pipe Models With Multiple Corrosion Defects. , 2008, , .		0
111	Scenario Evaluation for Subsea Production System. Marine Systems and Ocean Technology, 2008, 4, 73-87.	0.5	0
112	Strength Loss of SS Platform Column Due to Ship Collision. , 2010, , .		0
113	Finite Element Modeling of Transient Temperature and Residual Stress Distribution Analysis in Multi-Pass Welding Process. , 2012, , .		0
114	Influência das Imperfeições de Fabricação na Propagação do Colapso em Coluna de Plataforma Semi-submersível. , 2012, , .		0
115	Redistribuição das Tensões Residuais de Soldagem. , 2012, , .		0
116	Effects of Preheat and Interpass Temperature on the Residual Stress and Distortion on the T-Joint Weld. , 2014, , .		0
117	A mathematical solution of optimal partition of production loops for subsea wells in the layout of daisy chains. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2014, 228, 211-219.	0.3	0
118	Preliminary Design of Floating Point Absorber Offshore Rio de Janeiro. , 2015, , .		0
119	Hull Girder Ultimate Strength of Intact and Damaged Double Hull Tankers. , 2016, , .		0
120	Ultimate Compressive Strength Assessment of Damaged Plates. , 2017, , .		0
121	Optimization of Pipe Insulation Volume for a Subsea Production System. , 2018, , .		0
122	Collisions Between Ships and Platforms in Brazilian Waters. , 2018, , .		0
123	Subsea Water Separation: A Promising Strategy for Offshore Field Development. , 2018, , 537-543.		0
124	Internal Corrosion Simulation of Long Distance Sandwich Pipe. , 2018, , 447-452.		0
125	Computational Simulation of the Drilling Vessel Motion and its Effects on the Riser/BOP Connection. , 2019, , .		0
126	Repair welding in pipes: experimental study of residual welding stresses. Technical Papers ... Rio Oil & Gas, 2020, 20, 174-175.	0.0	0

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127	Steady-State Analysis of Heavy Oil Transportation. , 2021, , 191-196.		0
128	Sandwich Pipes. , 2021, , 7-13.		0
129	Sandwich Pipes Filled with Steel Fiber Reinforced Concrete. , 2021, , 15-34.		0
130	Sandwich Pipes Filled with PVA Fiber Reinforced Cementitious Composites. , 2021, , 35-58.		0
131	Buckle Propagation of Sandwich Pipes. , 2021, , 59-71.		0
132	Pipes Conveying Gasâ€“Liquid Two-Phase Flow. , 2021, , 109-124.		0