

# Segen F Estefen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119  
papers

1,550  
citations

20  
h-index

36  
g-index

135  
ext. papers

1,870  
ext. citations

3.5  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
119	Ram Performance and Hydraulic Modeling of Subsea Blowout Preventer Control System. <i>SPE Drilling and Completion</i> , <b>2022</b> , 1-15	1.4	
118	A simplified equation for the collapse pressure of sandwich pipes with different core materials. <i>Ocean Engineering</i> , <b>2022</b> , 254, 111292	3.9	1
117	The effect of eccentricity on the collapse behaviour of sandwich pipes. <i>Applied Ocean Research</i> , <b>2022</b> , 124, 103190	3.4	1
116	Application of the Latching Control System on the Power Performance of a Wave Energy Converter Characterized by Gearbox, Flywheel, and Electrical Generator. <i>Journal of Marine Science and Application</i> , <b>2021</b> , 20, 767	1.2	0
115	Steady-State Analysis of Heavy Oil Transportation <b>2021</b> , 191-196		
114	Analysis of Direct Electrical Heating <b>2021</b> , 197-204		
113	Transient Analysis of Multilayer Composite Pipelines with Active Heating <b>2021</b> , 205-220		
112	Sandwich Pipes <b>2021</b> , 7-13		
111	Sandwich Pipes Filled with Steel Fiber Reinforced Concrete <b>2021</b> , 15-34		
110	Sandwich Pipes Filled with PVA Fiber Reinforced Cementitious Composites <b>2021</b> , 35-58		
109	Buckle Propagation of Sandwich Pipes <b>2021</b> , 59-71		
108	Sandwich Pipe: Reel-Lay Installation Effects <b>2021</b> , 73-86		
107	Pipes Conveying Gas/Liquid Two-Phase Flow <b>2021</b> , 109-124		
106	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. <i>Energy</i> , <b>2021</b> , 240, 122767	7.9	1
105	Redistribution of Grain Boundary Misorientation and Residual Stresses of Thermomechanically Simulated Welding in an Intercritically Reheated Coarse Grained Heat Affected Zone. <i>Metals</i> , <b>2021</b> , 11, 1850	2.3	
104	Ultimate bending strength of sandwich pipes with actual interlayer behavior. <i>Thin-Walled Structures</i> , <b>2021</b> , 161, 107476	4.7	6
103	Evaluation of the Double Snap-Through Mechanism on the Wave Energy Converter's Performance. <i>Journal of Marine Science and Application</i> , <b>2021</b> , 20, 268-283	1.2	0

102	On the power performance of a wave energy converter with a direct mechanical drive power take-off system controlled by latching. <i>Renewable Energy</i> , <b>2021</b> , 169, 157-177	8.1	6
101	Buckle propagation of damaged SHCC sandwich pipes: Experimental tests and numerical simulation. <i>Marine Structures</i> , <b>2021</b> , 77, 102976	3.8	5
100	Improved bistable mechanism for wave energy harvesting. <i>Ocean Engineering</i> , <b>2021</b> , 232, 109139	3.9	4
99	Environmental impacts of offshore wind installation, operation and maintenance, and decommissioning activities: A case study of Brazil. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 144, 110994	16.2	7
98	Structural and Thermal Analyses of Deepwater Pipes <b>2021</b> ,		1
97	The motion response and hydrodynamic performance comparisons of the new subsea suspended manifold with two mooring scenarios. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2021</b> , 43, 1	2	3
96	Mixed-integer nonlinear programming model for layout design of subsea satellite well system in deep water oil field. <i>Automation in Construction</i> , <b>2021</b> , 123, 103524	9.6	1
95	Viscous effect for heaving cylindrical point absorbers controlled by a latching control system and a novel approach to viscous force. <i>Journal of Ocean Engineering and Marine Energy</i> , <b>2021</b> , 7, 363-378	1.5	1
94	Indentation parameters influence on the ultimate strength of panels for different stiffeners. <i>Journal of Constructional Steel Research</i> , <b>2020</b> , 170, 106097	3.8	2
93	Experimental-based methodology for the double ellipsoidal heat source parameters in welding simulations. <i>Marine Systems and Ocean Technology</i> , <b>2020</b> , 15, 110-123	1.3	4
92	Experimentally based parameters applied to concrete damage plasticity model for strain hardening cementitious composite in sandwich pipes. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2020</b> , 53, 1	3.4	3
91	Collapse pressure of sandwich pipes with strain-hardening cementitious composite - Part 2: A suitable prediction equation. <i>Thin-Walled Structures</i> , <b>2020</b> , 148, 106606	4.7	7
90	Collapse pressure of sandwich pipes with strain-hardening cementitious composite - Part 1: Experiments and parametric study. <i>Thin-Walled Structures</i> , <b>2020</b> , 148, 106605	4.7	9
89	Assessment of the offshore wind technical potential for the Brazilian Southeast and South regions. <i>Energy</i> , <b>2020</b> , 196, 117097	7.9	21
88	Optimization of Pipe Insulation Volume for a Subsea Production System. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , <b>2020</b> , 142,	1.5	3
87	Fracture criteria applied to numerical simulation of blowout preventer ram shearing. <i>Engineering Failure Analysis</i> , <b>2020</b> , 114, 104596	3.2	4
86	Repair welding in pipes: experimental study of residual welding stresses <b>2020</b> , 20, 174-175	0	
85	URANS simulations of a horizontal axis wind turbine under stall condition using Reynolds stress turbulence models. <i>Energy</i> , <b>2020</b> , 213, 118766	7.9	3

84	Structural behavior of threaded connections for sandwich pipes under make-up torque, external pressure, and axial load. <i>International Journal of Pressure Vessels and Piping</i> , <b>2020</b> , 186, 104156	2.4	6
83	Ocean Renewable Energy Potential, Technology, and Deployments: A Case Study of Brazil. <i>Energies</i> , <b>2019</b> , 12, 3658	3.1	22
82	Practical considerations on nonlinear stiffness system for wave energy converter. <i>Applied Ocean Research</i> , <b>2019</b> , 92, 101935	3.4	7
81	A nonlinear constrained optimization model for subsea pipe route selection on an undulating seabed with multiple obstacles. <i>Ocean Engineering</i> , <b>2019</b> , 186, 106088	3.9	3
80	Misorientation Changes and Residual Stresses Redistribution after Welding. A Physical Simulation. <i>Materials Research</i> , <b>2019</b> , 22,	1.5	1
79	Optimal design and scheduling for offshore oil-field development. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 123, 300-316	4	14
78	Semi-analytical solution for soil-constrained vibration of subsea free-spanning pipelines. <i>Ships and Offshore Structures</i> , <b>2018</b> , 13, 666-676	1.4	7
77	Wave energy harvesting using nonlinear stiffness system. <i>Applied Ocean Research</i> , <b>2018</b> , 74, 102-116	3.4	15
76	Effect of material model on residual stress and distortion in T-joint welding. <i>Ships and Offshore Structures</i> , <b>2018</b> , 13, 56-64	1.4	7
75	A geometrical optimization method applied to a heaving point absorber wave energy converter. <i>Renewable Energy</i> , <b>2018</b> , 115, 533-546	8.1	66
74	Experimental and numerical analysis of small-scale panels with indented stiffeners. <i>Journal of Constructional Steel Research</i> , <b>2018</b> , 150, 7-22	3.8	3
73	Subsea Water Separation: A Promising Strategy for Offshore Field Development <b>2018</b> , 537-543		
72	Internal Corrosion Simulation of Long Distance Sandwich Pipe <b>2018</b> , 447-452		
71	Pipelines, risers and umbilicals failures: A literature review. <i>Ocean Engineering</i> , <b>2018</b> , 148, 412-425	3.9	72
70	Numerical Simulation of Shear Ram Performance <b>2018</b> ,		2
69	Thermal insulation of subsea pipelines for different materials. <i>International Journal of Pressure Vessels and Piping</i> , <b>2018</b> , 168, 100-109	2.4	10
68	Insulation Performance of Sandwich Pipe <b>2018</b> ,		1
67	An integrated optimization model for the layout design of a subsea production system. <i>Applied Ocean Research</i> , <b>2018</b> , 77, 1-13	3.4	26

66	Perturbation analysis for upheaval buckling of imperfect buried pipelines based on nonlinear pipe-soil interaction. <i>Ocean Engineering</i> , <b>2017</b> , 132, 92-100	3.9	13
65	Time-dependent redistribution behavior of residual stress after repair welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2017</b> , 61, 507-515	1.9	9
64	Theoretical investigation of the compression limits of sealing structures in complex load transferring between subsea connector components. <i>Journal of Natural Gas Science and Engineering</i> , <b>2017</b> , 44, 202-213	4.6	17
63	Subsea Production Layout: Design and Cost <b>2017</b> ,		1
62	A new partition model for the optimization of subsea cluster manifolds based on the new definition of layout cost. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , <b>2016</b> , 230, 3-12	0.4	3
61	Sandwich Pipe for Long Distance Pipelines: Flow Assurance and Costs <b>2016</b> ,		3
60	Influence of the welding sequence on residual stress and distortion of fillet welded structures. <i>Marine Structures</i> , <b>2016</b> , 46, 30-55	3.8	79
59	Influence of geometric imperfections on the ultimate strength of the double bottom of a Suezmax tanker. <i>Engineering Structures</i> , <b>2016</b> , 127, 287-303	4.7	18
58	Under What Conditions SAR Along-Track Interferometry is Suitable for Assessment of Tidal Energy Resource. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2016</b> , 9, 5011-5022	1.7	5
57	Parameter determination of double-ellipsoidal heat source model and its application in the multi-pass welding process. <i>Ships and Offshore Structures</i> , <b>2015</b> , 10, 204-217	1.4	37
56	Numerical and Experimental Studies of Residual Stresses in Multipass Welding of High Strength Shipbuilding Steel. <i>Journal of Ship Research</i> , <b>2015</b> , 59, 133-144	0.9	6
55	Experimental and Numerical Analyses of Dented Stiffened Panels. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , <b>2015</b> , 137,	1.5	3
54	Sandwich Pipe: Reel-Lay Installation Effects <b>2015</b> ,		3
53	Welding residual stresses: a daily history. <i>Science and Technology of Welding and Joining</i> , <b>2015</b> , 20, 616-631	3.7	8
52	Modeling for the optimization of layout scenarios of cluster manifolds with pipeline end manifolds. <i>Applied Ocean Research</i> , <b>2014</b> , 46, 94-103	3.4	29
51	Effect of boundary conditions on residual stress and distortion in T-joint welds. <i>Journal of Constructional Steel Research</i> , <b>2014</b> , 102, 121-135	3.8	57
50	Wave-to-Wire Model and Energy Storage Analysis of an Ocean Wave Energy Hyperbaric Converter. <i>IEEE Journal of Oceanic Engineering</i> , <b>2014</b> , 39, 386-397	3.3	33
49	Modeling for the Optimization Evaluation of Layout Scenarios of Subsea Cluster Manifolds Considering Three Connection Types. <i>Marine Technology Society Journal</i> , <b>2014</b> , 48, 98-111	0.5	4

48	Residual Compressive Strength of Dented FPSO Side Shell Panel <b>2014</b> ,			1
47	Sandwich Pipes With Strain Hardening Cementitious Composites (SHCC): Numerical Analyses <b>2014</b> ,			4
46	A mathematical solution of optimal partition of production loops for subsea wells in the layout of daisy chains. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , <b>2014</b> , 228, 211-219		0.4	
45	Collapse of sandwich pipes with PVA fiber reinforced cementitious composites core under external pressure. <i>Ocean Engineering</i> , <b>2014</b> , 82, 1-13	3.9		46
44	Collapse and Buckle Propagation of Sandwich Pipes: A Review <b>2013</b> ,			6
43	Residual Strength of Dented Stiffened Panels <b>2013</b> ,			1
42	Redistribution of the residual welding stresses. <i>Marine Systems and Ocean Technology</i> , <b>2013</b> , 8, 95-100	1.3		5
41	Buckling propagation failure in semi-submersible platform columns. <i>Marine Structures</i> , <b>2012</b> , 28, 2-24	3.8		10
40	Welding stress relaxation effect in butt-jointed steel plates. <i>Marine Structures</i> , <b>2012</b> , 29, 211-225	3.8		19
39	Ultimate strength behaviour of sandwich pipes filled with steel fiber reinforced concrete. <i>Ocean Engineering</i> , <b>2012</b> , 55, 125-135	3.9		51
38	Optimization of the wave energy absorption in oscillating-body systems using extremum seeking approach <b>2012</b> ,			5
37	Wave Energy Hyperbaric Converter: Small Scale Models, Prototype and Control Strategies <b>2012</b> ,			2
36	Limit Strength of New Sandwich Pipes With Strain Hardening Cementitious Composites (SHCC) Core: Finite Element Modelling <b>2012</b> ,			4
35	Floating protection system for FPSO. <i>International Journal of Computer Applications in Technology</i> , <b>2012</b> , 43, 199		0.7	5
34	An installation system of deepwater risers by an S-lay vessel. <i>China Ocean Engineering</i> , <b>2011</b> , 25, 139-148	1.1		11
33	A seismic design method for subsea pipelines against earthquake fault movement. <i>China Ocean Engineering</i> , <b>2011</b> , 25, 179-188	1.1		8
32	Dynamics of risers for earthquake resistant designs. <i>Petroleum Science</i> , <b>2010</b> , 7, 273-282	4.4		7
31	Surface residual stress evaluation in double-electrode butt welded steel plates. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 1622-1627			7

30	Phase control strategy for a wave energy hyperbaric converter. <i>Ocean Engineering</i> , <b>2010</b> , 37, 1483-1490	3.9	19
29	Design Aspects and Benefits of Sandwich Pipes for Ultra Deepwaters <b>2009</b> ,		7
28	Alternative concept for tidal power plant with reservoir restrictions. <i>Renewable Energy</i> , <b>2009</b> , 34, 1151-1157	1.7	22
27	Efficiency optimization in a wave energy hyperbaric converter <b>2009</b> ,		10
26	Experimental and Numerical Studies of the Wave Energy Hyperbaric Device for Electricity Production <b>2008</b> ,		3
25	Sandwich Pipes for Ultra Deepwater Applications <b>2008</b> ,		13
24	Scenario Evaluation for Subsea Production System. <i>Marine Systems and Ocean Technology</i> , <b>2008</b> , 4, 73-87	1.3	
23	Reliability of pipelines with corrosion defects. <i>International Journal of Pressure Vessels and Piping</i> , <b>2008</b> , 85, 228-237	2.4	158
22	Limit strength and reeling effects of sandwich pipes with bonded layers. <i>International Journal of Mechanical Sciences</i> , <b>2007</b> , 49, 577-588	5.5	51
21	Wave Climate Analysis for a Wave Energy Conversion Application in Brazil <b>2007</b> , 897		3
20	Wave Energy Hyperbaric Device for Electricity Production <b>2007</b> , 627		9
19	Influence of the Geometric Imperfection on the Buckling Behavior of Floating Platform Column Under Axial Load <b>2007</b> , 489		
18	Adhesion Effect on the Ultimate Strength of Sandwich Pipes <b>2006</b> , 261		5
17	Strength Analyses of Sandwich Pipes for Ultra Deepwaters. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2005</b> , 72, 599-608	2.7	54
16	Simulation of Transient Heat Transfer of Sandwich Pipes With Active Electrical Heating. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , <b>2005</b> , 127, 366-370	1.5	13
15	Reeling Effect on the Ultimate Strength of Sandwich Pipes <b>2005</b> , 489		5
14	The effect of corrosion defects on the burst pressure of pipelines. <i>Journal of Constructional Steel Research</i> , <b>2005</b> , 61, 1185-1204	3.8	165
13	Thermal-Hydraulic Analysis of Heavy Oil Transportation in Heated Sandwich Pipelines <b>2005</b> , 457		

12	Simulation of Transient Heat Transfer of Sandwich Pipes With Active Electrical Heating <b>2004</b> , 105		1
11	The Effect of the Reeling Laying Method on the Collapse Pressure of Steel Pipes for Deepwater <b>2004</b> , 247		4
10	Thermal Analysis of Sandwich Pipes With Active Electrical Heating <b>2003</b> , 809		1
9	Sensitivity analysis on ultimate strength of aluminium stiffened panels. <i>Marine Structures</i> , <b>2003</b> , 16, 437-468	3.6	43
8	A nonlinear analysis of the buckle propagation problem in deepwater pipelines. <i>International Journal of Solids and Structures</i> , <b>2001</b> , 38, 8481-8502	3.1	34
7	Collapse behaviour of intact and damaged deepwater pipelines and the influence of the reeling method of installation. <i>Journal of Constructional Steel Research</i> , <b>1999</b> , 50, 99-114	3.8	13
6	Buckle arrestors for deepwater pipelines. <i>Marine Structures</i> , <b>1996</b> , 9, 873-883	3.8	21
5	Limit state formulations for TLP tendon and steel riser bodies. <i>Journal of Constructional Steel Research</i> , <b>1995</b> , 32, 107-121	3.8	4
4	Ultimate strength behaviour of submarine pipelines under external pressure and bending. <i>Journal of Constructional Steel Research</i> , <b>1994</b> , 28, 137-151	3.8	6
3	Limit states for the ultimate strength of tubulars subjected to pressure, bending and tension loads. <i>Marine Structures</i> , <b>1994</b> , 7, 323-344	3.8	5
2	RING STIFFENER BEHAVIOUR AND ITS INTERACTION WITH CYLINDRICAL PANEL BU -CKLING.. <i>Proceedings of the Institution of Civil Engineers</i> , <b>1983</b> , 75, 243-264		3
1	Hardware-in-the-loop development of a heaving point absorber wave energy converter using inertia emulation. <i>Electrical Engineering</i> , 1	1.5	1