

Spyros A Karamanos

List of Publications by Year in descending order

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139
papers

2,758
citations

186209

28
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197736

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143
all docs

143
docs citations

143
times ranked

1147
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite element analysis of buried steel pipelines under strike-slip fault displacements. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 1361-1376.	1.9	253
2	Mechanical behavior of buried steel pipes crossing active strike-slip faults. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 41, 164-180.	1.9	187
3	Pipe-soil interaction and pipeline performance under strike-slip fault movements. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 72, 48-65.	1.9	150
4	Finite element modeling to expand the UMCCA model to describe biofilm mechanical behavior. <i>Water Science and Technology</i> , 2005, 52, 161-166.	1.2	126
5	Bending instabilities of elastic tubes. <i>International Journal of Solids and Structures</i> , 2002, 39, 2059-2085.	1.3	99
6	Stress concentrations in tubular gap K-joints: mechanics and fatigue design. <i>Engineering Structures</i> , 2000, 22, 4-14.	2.6	81
7	Stability of confined thin-walled steel cylinders under external pressure. <i>International Journal of Mechanical Sciences</i> , 2009, 51, 21-32.	3.6	75
8	Buckling and post-buckling of long pressurized elastic thin-walled tubes under in-plane bending. <i>International Journal of Non-Linear Mechanics</i> , 2006, 41, 491-511.	1.4	65
9	Permanent earthquake-induced actions in buried pipelines: Numerical modeling and experimental verification. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 966-987.	2.5	63
10	Sloshing Effects on the Seismic Design of Horizontal-Cylindrical and Spherical Industrial Vessels. <i>Journal of Pressure Vessel Technology</i> , Transactions of the ASME, 2006, 128, 328-340.	0.4	62
11	Analytical model for the strain analysis of continuous buried pipelines in geohazard areas. <i>Engineering Structures</i> , 2017, 152, 57-69.	2.6	58
12	Mechanical behavior and wrinkling of lined pipes. <i>International Journal of Solids and Structures</i> , 2012, 49, 3432-3446.	1.3	56
13	SCF equations in multi-planar welded tubular DT-joints including bending effects. <i>Marine Structures</i> , 2002, 15, 157-173.	1.6	52
14	Response of half-full horizontal cylinders under transverse excitation. <i>Journal of Fluids and Structures</i> , 2004, 19, 985-1003.	1.5	52
15	Stress concentrations in multi-planar welded CHS XX-connections. <i>Journal of Constructional Steel Research</i> , 1999, 50, 259-282.	1.7	51
16	Denting of internally pressurized tubes under lateral loads. <i>International Journal of Mechanical Sciences</i> , 2006, 48, 1080-1094.	3.6	50
17	Variational Solutions for Externally Induced Sloshing in Horizontal-Cylindrical and Spherical Vessels. <i>Journal of Engineering Mechanics - ASCE</i> , 2007, 133, 641-655.	1.6	45
18	Collapse of pressurized elastoplastic tubular members under lateral loads. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 35-56.	3.6	44

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19	Performance Criteria for Liquid Storage Tanks and Piping Systems Subjected to Seismic Loading. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.4	44
20	Pipe Elbows Under Strong Cyclic Loading. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.4	42
21	Ultimate bending capacity of spiral-welded steel tubes “ Part I: Experiments. Thin-Walled Structures, 2016, 102, 286-304.	2.7	40
22	Mechanical Behavior of Steel Pipe Bends: An Overview. Journal of Pressure Vessel Technology, Transactions of the ASME, 2016, 138, .	0.4	39
23	Ultimate bending capacity of spiral-welded steel tubes “ Part II: Predictions. Thin-Walled Structures, 2016, 102, 305-319.	2.7	37
24	Failure analysis of a welded steel pipe at Kullar fault crossing. Engineering Failure Analysis, 2017, 71, 43-62.	1.8	37
25	Tubular Members. I: Stability Analysis and Preliminary Results. Journal of Engineering Mechanics - ASCE, 1996, 122, 64-71.	1.6	36
26	Structural behavior of buried pipe bends and their effect on pipeline response in fault crossing areas. Bulletin of Earthquake Engineering, 2017, 15, 4999-5024.	2.3	33
27	Stability of long transversely-isotropic elastic cylindrical shells under bending. International Journal of Solids and Structures, 2010, 47, 10-24.	1.3	32
28	Uplift mechanics of unanchored liquid storage tanks subjected to lateral earthquake loading. Thin-Walled Structures, 2021, 158, 107145.	2.7	31
29	Bending and buckling of internally-pressurized steel lined pipes. Ocean Engineering, 2019, 171, 540-553.	1.9	29
30	Tubular Members. II: Local Buckling and Experimental Verification. Journal of Engineering Mechanics - ASCE, 1996, 122, 72-78.	1.6	28
31	Stability of Inelastic Tubes under External Pressure and Bending. Journal of Engineering Mechanics - ASCE, 1991, 117, 2845-2861.	1.6	27
32	Finite element analysis of UOE manufacturing process and its effect on mechanical behavior of offshore pipes. International Journal of Solids and Structures, 2016, 83, 13-27.	1.3	27
33	Analysis and Design of Buried Steel Water Pipelines in Seismic Areas. Journal of Pipeline Systems Engineering and Practice, 2017, 8, .	0.9	27
34	A simple and efficient model for seismic response and low-cycle fatigue assessment of uplifting liquid storage tanks. Journal of Loss Prevention in the Process Industries, 2018, 53, 29-44.	1.7	27
35	Low-Cycle Fatigue of Pressurized Steel Elbows Under In-Plane Bending. Journal of Pressure Vessel Technology, Transactions of the ASME, 2015, 137, .	0.4	26
36	Finite Element Analysis of Externally-Induced Sloshing in Horizontal-Cylindrical and Axisymmetric Liquid Vessels. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.4	25

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37	Mechanics of Confined Thin-Walled Cylinders Subjected to External Pressure. Applied Mechanics Reviews, 2014, 66, .	4.5	25
38	Lateral Loading of Internally Pressurized Steel Pipes. Journal of Pressure Vessel Technology, Transactions of the ASME, 2007, 129, 630-638.	0.4	23
39	Refined Solutions of Externally Induced Sloshing in Half-Full Spherical Containers. Journal of Engineering Mechanics - ASCE, 2003, 129, 1369-1379.	1.6	21
40	Efficiency of Eurocode 8 design rules for steel and steel-concrete composite structures. Journal of Constructional Steel Research, 2015, 112, 108-129.	1.7	21
41	Structural behavior and design of high-strength steel welded tubular connections under extreme loading. Marine Structures, 2020, 71, 102701.	1.6	21
42	Structural resistance of high-strength steel CHS members. Journal of Constructional Steel Research, 2017, 128, 152-165.	1.7	20
43	Buckling of Thin-Walled Long Steel Cylinders Subjected to Bending. Journal of Pressure Vessel Technology, Transactions of the ASME, 2011, 133, .	0.4	19
44	Ultra low-cycle fatigue performance of S420 and S700 steel welded tubular X-joints. International Journal of Fatigue, 2019, 129, 105221.	2.8	18
45	Finite element analysis of cyclically-loaded steel pipes during deep water reeling installation. Ocean Engineering, 2016, 124, 113-124.	1.9	17
46	Influence of variability of material mechanical properties on seismic performance of steel and steel-concrete composite structures. Bulletin of Earthquake Engineering, 2017, 15, 1559-1607.	2.3	17
47	Buckling Design of Confined Steel Cylinders Under External Pressure. Journal of Pressure Vessel Technology, Transactions of the ASME, 2011, 133, .	0.4	16
48	Simplified Model for the Seismic Performance of Unanchored Liquid Storage Tanks. , 2015, , .		16
49	Performance Criteria for Liquid Storage Tanks and Piping Systems Subjected to Seismic Loading. , 2015, , .		16
50	Seismic Design of Buried Steel Water Pipelines. , 2014, , .		14
51	Experimental Results of Steel Lap Welded Pipe Joints in Seismic Conditions. , 2018, , .		13
52	Fatigue resistance of welded steel tubular X-joints. Marine Structures, 2020, 74, 102809.	1.6	12
53	Liner wrinkling in offshore steel lined pipes during reeling installation. Thin-Walled Structures, 2021, 166, 108114.	2.7	12
54	Stress Concentrations in Tubular DT-Joints for Fatigue Design. Journal of Structural Engineering, 2000, 126, 1320-1330.	1.7	11

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55	Axial Compression Capacity of Welded-Slip Pipeline Joints. Journal of Transportation Engineering, 2007, 133, 335-340.	0.9	11
56	Mechanical Behavior of Dented Steel Pipes Subjected to Bending and Pressure Loading. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	10
57	Numerical simulation of the mechanical behaviour of steel pipe bends under strong cyclic loading. International Journal of Pressure Vessels and Piping, 2020, 188, 104239.	1.2	10
58	Numerical Simulation of Steel Lap Welded Pipe Joint Behavior in Seismic Conditions. , 2018, , .		9
59	Numerical Simulation of JCO-E Pipe Manufacturing Process and Its Effect on the External Pressure Capacity of the Pipe1. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	9
60	Effect of Manufacturing Process on Lined Pipe Bending Response1. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	0.6	9
61	Stability of Deepwater Pipelines Under Combined Loading. , 1991, , .		8
62	Seismic Response of Unanchored Liquid Storage Tanks. , 2013, , .		8
63	Buckling of internally-pressurized spiral-welded steel pipes under bending. International Journal of Pressure Vessels and Piping, 2018, 165, 270-285.	1.2	8
64	Experimental Investigation of Steel Lap Welded Pipe Joint Performance under Severe Axial Loading Conditions in Seismic or Geohazard Areas. , 2020, , .		8
65	Finite element analysis of tube stability in deep water. Computers and Structures, 1997, 64, 791-807.	2.4	7
66	Analysis and Behavior of Steel Pipe Welded Lap Joints in Geohazard Areas. , 2015, , .		7
67	Finite Element Analysis of Steel Lap Welded Joint Behavior under Severe Seismic Loading Conditions. , 2019, , .		7
68	Low-cycle fatigue of fillet-welded steel plate connections. Journal of Constructional Steel Research, 2021, 176, 106379.	1.7	7
69	Pressure effects on the static response of offshore tubular connections. Marine Structures, 2004, 17, 455-474.	1.6	6
70	Finite Element Analysis of Industrial Steel Elbows Under Strong Cyclic Loading. , 2011, , .		6
71	Experimental and Numerical Investigation of Pressurized Pipe Elbows Under Strong Cyclic Loading. , 2013, , .		6
72	Buckling of High-Strength Steel Cylinders Under Cyclic Bending in the Inelastic Range1. Journal of Pressure Vessel Technology, Transactions of the ASME, 2014, 136, .	0.4	6

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73	Bending Deformation Capacity of Large-Diameter Spiral-Welded Tubes. , 2014, , .		6
74	A refined analytical model for earthquake-induced sloshing in halfâ€‘full deformable horizontal cylindrical liquid containers. Soil Dynamics and Earthquake Engineering, 2016, 85, 191-201.	1.9	6
75	Soilâ€‘Structure Interaction Effects in Offshore Wind Support Structures Under Seismic Loading. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	6
76	Coupled numerical simulation of low-cycle fatigue damage in metal components. Engineering Structures, 2021, 229, 111536.	2.6	6
77	A simple and efficient solution method for the limit elasto-plastic analysis of plane frames. Computational Mechanics, 1991, 8, 235-248.	2.2	5
78	Buckling of Clad Pipes Under Bending and External Pressure. , 2011, , .		5
79	Influence of plastic prestraining on the fatigue crack propagation rate of S355MC and S460MC structural steels. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1391-1405.	1.7	5
80	Simulation of Cyclic Loading on Pipe Elbows Using Advanced Plane-Stress Elastoplasticity Models1. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.4	5
81	Sloshing Effects on the Seismic Design of Horizontal-Cylindrical and Spherical Vessels. , 2004, , 225.		4
82	Ultimate Capacity of Pipe Bends Under Bending and Pressure. , 2008, , .		4
83	Experimental and Numerical Investigation of Pipe T-Junctions Under Strong Cyclic Loading. , 2013, , .		4
84	Structural Performance of Buried Steel Pipelines Crossing Strike-Slip Faults. , 2014, , .		4
85	Response of steel tubes under concentrated lateral loads. Steel Construction, 2014, 7, 133-140.	0.4	4
86	Analytical Methodologies for Buried Pipeline Design in Geohazard Areas. , 2016, , .		4
87	Improving the Performance of Steel Pipe Welded Lap Joints in Geohazard Areas. , 2016, , .		4
88	The OECD-NEA Programme on Metallic Component Margins Under High Seismic Loads (MECOS). , 2016, , .		4
89	Soil-Pipe Interaction Models for the Simulation of Buried Steel Pipeline Behaviour Against Geohazards. , 2017, , .		4
90	Bending response of lap welded steel pipeline joints. Thin-Walled Structures, 2020, 157, 107065.	2.7	4

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91	An implicit numerical scheme for cyclic elastoplasticity and ratcheting under plane stress conditions. Computers and Structures, 2021, 249, 106509.	2.4	4
92	Wrinkling of Lined Steel Pipes Under Bending. , 2013, , .		3
93	Effects of UOE Manufacturing Process on Pressurized Bending Response of Offshore Pipes. , 2014, , .		3
94	Finite Element Analysis of the Mechanical Behavior of Mitered Steel Pipe Elbows under Bending and Pressure. , 2016, , .		3
95	Non-associative plasticity model for finite element buckling analysis of shells in the inelastic range. Computer Methods in Applied Mechanics and Engineering, 2016, 300, 689-715.		3
96	CFRP Reinforcement and Repair of Steel Pipe Elbows Subjected to Severe Cyclic Loading. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.4	3
97	Mechanical Response of Steel Pipe Welded Lap Joints in Seismic Areas. , 2017, , .		3
98	The effect of spiral cold-bending manufacturing process on pipeline mechanical behavior. International Journal of Solids and Structures, 2019, 166, 167-182.	1.3	3
99	Numerical implementation of bounding-surface model for simulating cyclic inelastic response of metal piping components. Finite Elements in Analysis and Design, 2021, 185, 103493.	1.7	3
100	Safeguarding the Integrity of Large-Diameter Steel Pipelines Subjected to Differential Ground Settlements. , 2021, , .		3
101	A new concept for improving the structural resilience of lap-welded steel pipeline joints. Thin-Walled Structures, 2022, 171, 108676.	2.7	3
102	Tension Effects on Pressure Capacity of Tubular Members. Journal of Structural Engineering, 1995, 121, 955-963.	1.7	2
103	Pipe Elbows Under Strong Cyclic Loading. , 2012, , .		2
104	Closure to "Discussion of "Mechanics of Confined Thin-Walled Cylinders Subjected to External Pressure," (Vasilikis, D., and Karamanos, S., 2014, Appl. Mech. Rev., 66(1), p. 010801). Applied Mechanics Reviews, 2014, 66, .	4.5	2
105	Structural Integrity of Buckled Steel Pipes. , 2015, , .		2
106	Newly Developed Seismic Resilient Steel Pipe Joint Safeguards: Pipeline Structural Integrity during Severe Geohazard Events. , 2020, , .		2
107	Structural response of steel lined pipes under cyclic bending. International Journal of Solids and Structures, 2022, 234-235, 111245.	1.3	2
108	Influence of Lined Pipe Fabrication on Liner Wrinkling. , 2019, , .		2

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109	A framework for formulating and implementing non-associative plasticity models for shell buckling computations. International Journal of Solids and Structures, 2022, 257, 111508.	1.3	2
110	Numerical Simulation of Buried Steel Pipelines under Strike-Slip Fault Displacements. , 2011, , .		1
111	Effects of Base Uplifting on the Seismic Response of Unanchored Liquid Storage Tanks. , 2012, , .		1
112	Buckling of High-Strength Steel Cylinders Under Cyclic Bending in the Inelastic Range. , 2013, , .		1
113	Low Cycle Fatigue Tests and Simulations on Steel Elbows. , 2013, , .		1
114	Finite Element Analysis of Cyclically-Loaded Steel Pipes During Deep Water Reeling Installation. , 2015, , .		1
115	The Effect of Spiral Cold-Bending Manufacturing Process on Pipeline Mechanical Behavior. , 2016, , .		1
116	Strain-Based Design of a Large-Diameter Steel Water Pipeline Crossing Ground Settlement Areas. , 2021, , .		1
117	Numerical Analysis of Externally-Induced Sloshing in Spherical Liquid Containers. Computational Methods in Applied Sciences (Springer), 2011, , 489-513.	0.1	1
118	Fatigue of Welded Tubular X-Joints in Offshore Wind Platforms. , 2019, , .		1
119	Mechanical Behavior of Buried Steel Pipelines Crossing Strike-Slip Seismic Faults. , 2011, , .		1
120	Effects of External Pressure on Capacity of Tubular Beam-Columns. Journal of Structural Engineering, 1995, 121, 1620-1628.	1.7	0
121	Pipe Response Under Concentrated Lateral Loads and External Pressure. , 2005, , 479.		0
122	Ultimate Capacity of Welded-Slip Joints under Axial Compression. , 2006, , 1.		0
123	Pipe Response Under Concentrated Lateral Loads and External Pressure. , 2006, , 137.		0
124	STABILITY OF TUBES AND PIPELINES. Computational and Experimental Methods in Structures, 2008, , 259-307.	0.2	0
125	Buckling of Thin-Walled Long Steel Cylinders Under Bending. , 2009, , .		0
126	Buckling Design of Confined Steel Cylinders Under External Pressure. , 2009, , .		0

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127	Mechanical Behavior of Steel Pipes With Local Wall Distortions Under Cyclic Loading. , 2012, , .		0
128	Structural Performance of Steel Pipe Tee-Junctions. , 2014, , .		0
129	Numerical Simulation of CFRP Reinforced Steel Pipe Elbows Subjected to Cyclic Loading. , 2016, , .		0
130	09.08: Structural behaviour of steel seismic links under strong cyclic loading. Ce/Papers, 2017, 1, 2414-2423.	0.1	0
131	Joint Strength or "Efficiency" Factors of Steel Lap Welded Joints for Use in Water Conveyance. , 2019, , .		0
132	Longitudinal sloshing effects in half full horizontal cylindrical vessels. , 2003, , 1078-1082.		0
133	Liquid Storage Tanks: Seismic Analysis. , 2015, , 1339-1359.		0
134	Dented Externally-Pressurised Pipes Subjected to Cyclic Axial Loading. , 2019, , .		0
135	Simulation of Piping Ratcheting Experiments Using Advanced Plane-Stress Cyclic Elastoplasticity Models. , 2019, , .		0
136	Low-Cycle Fatigue of Base-Plate-to-Shell Connection in Uplifting Liquid Storage Tanks Under Seismic Loading. , 2019, , .		0
137	Experimental Testing Conducted in the Course of the GIPIPE Project and Their Numerical Simulation. , 2021, , 51-87.		0
138	Pipeline Response in Strike-Slip (Horizontal) Fault Crossings. , 2021, , 89-106.		0
139	Simplified Analytical Models for Pipeline Deformation Analyses Due to Permanent Ground Deformation. , 2021, , 183-204.		0