

Dimitrios G Pavlou

List of Publications by Year in descending order

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papers

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1040056

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19
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46
all docs

46
docs citations

46
times ranked

233
citing authors

#	ARTICLE	IF	CITATIONS
1	A one-parameter nonlinear fatigue damage accumulation model. International Journal of Fatigue, 2017, 98, 234-246.	5.7	82
2	The theory of the S-N fatigue damage envelope: Generalization of linear, double-linear, and non-linear fatigue damage models. International Journal of Fatigue, 2018, 110, 204-214.	5.7	64
3	A review of fatigue damage detection and measurement techniques. International Journal of Fatigue, 2022, 154, 106556.	5.7	55
4	A deterministic algorithm for nonlinear, fatigue-based structural health monitoring. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 809-831.	9.8	22
5	Nonlinear fatigue life prediction model based on the theory of the S-N fatigue damage envelope. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 1480-1493.	3.4	18
6	Dynamic response of a multi-layered FRP cylindrical shell under unsteady loading conditions. Engineering Structures, 2016, 112, 256-264.	5.3	16
7	Suitability Analysis of Implementing a Fuel Cell on a Multicopter Drone. Journal of Aerospace Technology and Management, 2020, , .	0.3	15
8	Mixed-mode I and II fatigue crack growth retardation due to overload: An experimental study. International Journal of Fatigue, 2019, 129, 105227.	5.7	14
9	Boundary-integral equation analysis of twisted internally cracked axisymmetric bimaterial elastic solids. Computational Mechanics, 2002, 29, 254-264.	4.0	10
10	Mode I+II Fatigue Crack Growth Delay by Stop-Holes. Journal of Aerospace Technology and Management, 0, 10, .	0.3	10
11	Stress intensity factors for circumferential through-wall cracks in thin-walled cylindrical shells subjected to tension and torsion. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1062-1074.	3.4	10
12	Inner Flow-Induced Buckling of Fiber-Reinforced Polymeric Catenary Risers. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	1.2	10
13	Undamped Vibration of Laminated Fiber-Reinforced Polymer Pipes in Water Hammer Conditions. Journal of Offshore Mechanics and Arctic Engineering, 2015, 137, .	1.2	9
14	Effect of stop holes on structural integrity of offshore structures: a numerical model. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 3-14.	0.2	9
15	Dynamic response of pipelines under impact and harmonic loading. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 15-22.	0.2	8
16	Longitudinal-Flexural-Torsional Dynamic Behavior of Liquid-Filled Pipelines: An Analytic Solution. Journal of Offshore Mechanics and Arctic Engineering, 2020, 142, .	1.2	8
17	Soil-Structure-Wave Interaction of Gravity-Based Offshore Wind Turbines: An Analytical Model. Journal of Offshore Mechanics and Arctic Engineering, 2021, 143, .	1.2	8
18	Editorial: Renewable Energy and Oceanic Structures: Part II. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 71-72.	0.2	7

#	ARTICLE	IF	CITATIONS
19	Curved fibre-reinforced-polymer risers: inner-flow-induced dynamic instability analysis. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 133-147.	0.2	7
20	Damping Effect on the Wave Propagation in Carbon Steel Pipelines Under Fluid Hammer Conditions. Journal of Offshore Mechanics and Arctic Engineering, 2017, 139, .	1.2	6
21	Environment-assisted corrosion damage of steel bridges: a conceptual framework for structural integrity. Corrosion Reviews, 2020, 38, 49-65.	2.0	6
22	Sensitivity Study of Design Parameters for a Fuel Cell Powered Multirotor Drone. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	6
23	Seabed Dynamic Response of Offshore Wind Turbine Foundation under Vertical Harmonic Loading: An Analytic Solution. Mathematical Problems in Engineering, 2018, 2018, 1-9.	1.1	5
24	Fatigue Strength Curve for Tubular Joints of Offshore Structures under Dynamic Loading. Dynamics, 2021, 1, 125-133.	1.2	5
25	Fatigue Crack Deflection-Induced Retardation Based on the Principle of the Minimum Potential Energy. International Review of Mechanical Engineering, 2015, 9, 324.	0.2	5
26	Loading Sequence Effects on Fatigue Damage Accumulation of Offshore Structures: A Deterministic Approach. , 2017, , .		4
27	Unsteady flow modelling of a pressure wave supercharger. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 209-218.	1.9	3
28	Implementation of linear, double-linear, and nonlinear fatigue damage accumulation rules for fatigue life prediction of offshore drilling top-drive tie-rods. IOP Conference Series: Materials Science and Engineering, 2019, 700, 012025.	0.6	3
29	Flow-Riser Interaction in Deep-Sea Mining: An Analytic Approach for Multi-Layered FRP Risers. , 2018, , .		2
30	Fatigue design challenges: Recent linear and nonlinear models. IOP Conference Series: Materials Science and Engineering, 2019, 700, 012028.	0.6	2
31	Vibration of pipelines under flexural dynamic loads. Pipeline Science and Technology, 2018, 1, 143-151.	0.4	2
32	Boundary element analysis of a plate on an elastic foundation loaded by a twisted annular rigid stamp. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2004, 218, 549-556.	1.8	1
33	Finite element analysis of FRP pipelinesâ€™ dynamic stability. , 2015, , .		1
34	Dynamic Response of a Plate on Elastic Foundation Under Moving Vertical and In-Plane Loads. International Review of Mechanical Engineering, 2015, 9, 548.	0.2	1
35	Transfer Matrices Analysis of FRP Pipelines Stability. International Review of Mechanical Engineering, 2016, 10, 165.	0.2	1
36	Subsea FRP pipeline performance in external pressure: Failure and external pressure-induced buckling. IOP Conference Series: Materials Science and Engineering, 2021, 1201, 012040.	0.6	1

#	ARTICLE	IF	CITATIONS
37	Hardness measurements as a technique for measuring accumulated fatigue damage. <i>International Journal of Structural Integrity</i> , 2022, 13, 699.	3.3	1
38	A journal of outstanding scientific excellence in the era of digital revolution. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 914-915.	9.8	0
39	An Approximate Method for Stress Analysis in Butt Joints of FRP Pipelines. <i>International Review of Mechanical Engineering</i> , 2017, 11, 108.	0.2	0
40	Design challenges of steel pipelines in unsteady flow conditions. <i>Pipeline Science and Technology</i> , 2017, 1, 41-47.	0.4	0
41	Anisotropic pipelines in deep-sea mining: an approximate model for stability analysis. <i>Science and Technologies: Oil and Oil Products Pipeline Transportation</i> , 2017, 7, 36-43.	0.2	0
42	Anisotropic pipelines in deep-sea mining: an approximate model for stability analysis. <i>Pipeline Science and Technology</i> , 2017, 1, 209-218.	0.4	0
43	Mechanical Behavior of Sandwich Materials Under Concentrated Loads. <i>International Review of Mechanical Engineering</i> , 2018, 12, 121.	0.2	0
44	Flexural dynamic response of monopile foundations under linear wave loads. <i>Pipeline Science and Technology</i> , 2020, 4, 44-50.	0.4	0