

Leo Dostal

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

123
citations

1478280

6
h-index

1372474

10
g-index

27
all docs

27
docs citations

27
times ranked

80
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical determination of asymmetric rolling amplitude in irregular beam seas. Journal of Marine Science and Technology, 2022, 27, 40-51.	1.3	3
2	Improved stochastic averaging method using Hamiltonian for parametric rolling in irregular longitudinal waves. Journal of Marine Science and Technology, 2022, 27, 186-202.	1.3	4
3	Localized stationary seismic waves predicted using a nonlinear gradient elasticity model. Nonlinear Dynamics, 2022, 107, 1107.	2.7	0
4	Theoretical estimation of joint probability density function of roll angle and angular acceleration in beam seas using PDF line integral method. Journal of Marine Science and Technology, 2022, 27, 814.	1.3	2
5	Performance increase of wave energy harvesting of a guided point absorber. European Physical Journal: Special Topics, 2022, 231, 1465-1473.	1.2	5
6	The applicability of stochastic averaging method to solve the ship rolling response excited by narrow-band waves. Ocean Engineering, 2022, 251, 111109.	1.9	5
7	Design and optimization of a wave energy converter for drifting sensor platforms in realistic ocean waves. Applied Energy, 2022, 321, 119303.	5.1	11
8	Theoretical estimation of roll acceleration in beam seas using PDF line integral method. Journal of Marine Science and Technology, 2021, 26, 828-834.	1.3	7
9	Study on the Interaction of Nonlinear Water Waves considering Random Seas. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000307.	0.2	3
10	Study on the behavior of weakly nonlinear water waves in the presence of random wind forcing. Nonlinear Dynamics, 2020, 99, 2319-2338.	2.7	12
11	Predictability of Vibration Loads From Experimental Data by Means of Reduced Vehicle Models and Machine Learning. IEEE Access, 2020, 8, 177180-177194.	2.6	6
12	First passage time of nonlinear diffusion processes with singular boundary behavior. Journal of Sound and Vibration, 2020, 476, 115284.	2.1	3
13	The Effect of Random Wind Forcing in the Nonlinear Schrödinger Equation. Fluids, 2019, 4, 121.	0.8	3
14	Towards Reinforcement Learning-based Control of an Energy Harvesting Pendulum. , 2019, , .		1
15	Reduction of nonlinear dynamical systems excited by random loads. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900496.	0.2	0
16	Theoretical and experimental study of a pendulum excited by random loads. European Journal of Applied Mathematics, 2019, 30, 912-927.	1.4	7
17	A comparative study of the stochastic averaging method and the path integration method for nonlinear ship roll motion in random beam seas. Journal of Marine Science and Technology, 2018, 23, 854-865.	1.3	9
18	Pendulum energy converter excited by random loads. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 349-366.	0.9	18

#	ARTICLE	IF	CITATIONS
19	Nonlinear model parameter identification for ice-induced vibrations. Procedia Engineering, 2017, 199, 583-588.	1.2	2
20	Analytical and Semi-analytical Solutions of Some Fundamental Nonlinear Stochastic Differential Equations. Procedia IUTAM, 2016, 19, 178-186.	1.2	12
21	Stochastic Averaging of Roll-Pitch and Roll-Heave Motion in Random Seas. Procedia IUTAM, 2013, 6, 132-140.	1.2	6
22	Surf-Riding Threshold of Ships in Random Seas. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 383-384.	0.2	2
23	Almost Sure Stability Analysis of Parametric Roll in Random Seas Based on Top Lyapunov Exponent. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 607-608.	0.2	0
24	Analysis of Nonlinear Stochastic Ship Dynamics Under Extended Wave Modeling. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 527-528.	0.2	0
25	Numerical Computation of Parametric Induced Roll Motions in Random Seas. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 555-556.	0.2	0
26	Theoretical determination of roll angular jerk of ships in irregular beam seas using PDF line integral method. Journal of Marine Science and Technology, 0, , 1.	1.3	2