

Alberto Di Matteo

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,058
citations

361413

20
h-index

434195

31
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all docs

49
docs citations

49
times ranked

468
citing authors

#	ARTICLE	IF	CITATIONS
1	Exact and approximate analytical solutions for nonlocal nanoplates of arbitrary shapes in bending using the line element-less method. <i>Meccanica</i> , 2022, 57, 923-941.	2.0	6
2	Optimal design of tuned liquid column damper inerter for vibration control. <i>Mechanical Systems and Signal Processing</i> , 2022, 167, 108553.	8.0	27
3	Smartphone-based bridge monitoring through vehicle-bridge interaction: analysis and experimental assessment. <i>Journal of Civil Structural Health Monitoring</i> , 2022, 12, 1329-1342.	3.9	10
4	An Innovative Structural Dynamic Identification Procedure Combining Time Domain OMA Technique and GA. <i>Buildings</i> , 2022, 12, 963.	3.1	3
5	Assessment of the tuned mass damper inerter for seismic response control of base-isolated structures. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2665.	4.0	20
6	A novel identification procedure from ambient vibration data. <i>Meccanica</i> , 2021, 56, 797-812.	2.0	6
7	Analysis of Rectangular Orthotropic Membranes for Mechanical Properties Identification through Load-Displacement Data. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, 04021028.	2.9	1
8	Deterministic and Random Vibration of Linear Systems with Singular Parameter Matrices and Fractional Derivative Terms. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	18
9	A Novel Solution to Find the Dynamic Response of an Euler-Bernoulli Beam Fitted with Intraspan TMDs under Poisson Type Loading. <i>Infrastructures</i> , 2020, 5, 40.	2.8	0
10	Smart structures through nontraditional design of Tuned Mass Damper Inerter for higher control of base isolated systems. <i>Mechanics Research Communications</i> , 2020, 105, 103513.	1.8	33
11	Analysis of block random rocking on nonlinear flexible foundation. <i>Probabilistic Engineering Mechanics</i> , 2020, 59, 103017.	2.7	6
12	Laplace's Method of Integration in the Path Integral Approach for the Probabilistic Response of Nonlinear Systems. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 1687-1695.	0.4	0
13	Base-isolated structure equipped with tuned liquid column damper: An experimental study. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 816-831.	8.0	38
14	Complex Fractional Moments for the Characterization of the Probabilistic Response of Non-linear Systems Subjected to White Noises. <i>Springer Proceedings in Physics</i> , 2019, , 203-227.	0.2	0
15	Path Integral approach via Laplace's method of integration for nonstationary response of nonlinear systems. <i>Meccanica</i> , 2019, 54, 1351-1363.	2.0	12
16	Steady-state dynamic response of various hysteretic systems endowed with fractional derivative elements. <i>Nonlinear Dynamics</i> , 2019, 98, 3113-3124.	5.2	21
17	Hybrid Passive Control Strategies for Reducing the Displacements at the Base of Seismic Isolated Structures. <i>Frontiers in Built Environment</i> , 2019, 5, .	2.3	10
18	Simplified analytical solution for the optimal design of Tuned Mass Damper Inerter for base isolated structures. <i>Mechanical Systems and Signal Processing</i> , 2019, 134, 106337.	8.0	68

#	ARTICLE	IF	CITATIONS
19	Fractional viscoelastic behaviour under stochastic temperature process. Probabilistic Engineering Mechanics, 2018, 54, 37-43.	2.7	13
20	Approximate survival probability determination of hysteretic systems with fractional derivative elements. Probabilistic Engineering Mechanics, 2018, 54, 138-146.	2.7	47
21	Optimal design of tuned liquid column dampers for seismic response control of base-isolated structures. Acta Mechanica, 2018, 229, 437-454.	2.1	52
22	Arbitrarily shaped plates analysis via Line Element-Less Method (LEM). Thin-Walled Structures, 2018, 133, 235-248.	5.3	7
23	Vibration-based identification of mechanical properties of orthotropic arbitrarily shaped plates: Numerical and experimental assessment. Composites Part B: Engineering, 2018, 150, 212-225.	12.0	17
24	Direct evaluation of jumps for nonlinear systems under external and multiplicative impulses. JVC/Journal of Vibration and Control, 2017, 23, 1753-1767.	2.6	2
25	Path Integral Method for Nonlinear Systems Under Levy White Noise. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	1.1	4
26	Combining TMD and TLCD: analytical and experimental studies. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 167, 101-113.	3.9	13
27	Rocking of rigid block on nonlinear flexible foundation. International Journal of Non-Linear Mechanics, 2017, 94, 362-374.	2.6	20
28	Earthquake Excited Base-Isolated Structures Protected by Tuned Liquid Column Dampers: Design Approach and Experimental Verification. Procedia Engineering, 2017, 199, 1574-1579.	1.2	17
29	Nonlinear rocking of rigid blocks on flexible foundation: analysis and experiments. Procedia Engineering, 2017, 199, 284-289.	1.2	8
30	Dynamic response of equivalent orthotropic plate model for stiffened plate: numerical-experimental assessment. Procedia Engineering, 2017, 199, 1423-1428.	1.2	4
31	Galerkin Scheme-Based Determination of Survival Probability of Oscillators With Fractional Derivative Elements. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	55
32	First-passage problem for nonlinear systems under Lévy white noise through path integral method. Nonlinear Dynamics, 2016, 85, 1445-1456.	5.2	33
33	Path integral solution for nonlinear systems under parametric Poissonian white noise input. Probabilistic Engineering Mechanics, 2016, 44, 89-98.	2.7	26
34	Innovative modeling of tuned liquid column damper controlled structures. Smart Structures and Systems, 2016, 18, 117-138.	1.9	26
35	An Efficient Wiener Path Integral Technique Formulation for Stochastic Response Determination of Nonlinear MDOF Systems. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	2.2	62
36	Fractional viscoelastic Timoshenko beam deflection via single equation. International Journal for Numerical Methods in Engineering, 2015, 104, 869-886.	2.8	26

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37	Generalized differential transform method for nonlinear boundary value problem of fractional order. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 88-101.	3.3	33
38	Innovative modeling of Tuned Liquid Column Damper motion. Communications in Nonlinear Science and Numerical Simulation, 2015, 23, 229-244.	3.3	45
39	Optimal tuning of tuned liquid column damper systems in random vibration by means of an approximate formulation. Meccanica, 2015, 50, 795-808.	2.0	31
40	A Wiener Path Integral Technique for Non-Stationary Response Determination of Nonlinear Oscillators with Fractional Derivative Elements. , 2014, , .		0
41	Probabilistic characterization of nonlinear systems under Poisson white noise parametric input via complex fractional moments. , 2014, , .		0
42	Direct evaluation of the equivalent linear damping for TLCD systems in random vibration for pre-design purposes. International Journal of Non-Linear Mechanics, 2014, 63, 19-30.	2.6	53
43	Poisson white noise parametric input and response by using complex fractional moments. Probabilistic Engineering Mechanics, 2014, 38, 119-126.	2.7	11
44	Stochastic response determination of nonlinear oscillators with fractional derivatives elements via the Wiener path integral. Probabilistic Engineering Mechanics, 2014, 38, 127-135.	2.7	97
45	A Novel Mathematical Model for TLCD: Theoretical and Experimental Investigations. , 2014, , .		6
46	Experimental validation of a direct pre-design formula for TLCD. Engineering Structures, 2014, 75, 528-538.	5.3	32
47	Probabilistic characterization of nonlinear systems under Poisson white noise via complex fractional moments. Nonlinear Dynamics, 2014, 77, 729-738.	5.2	24
48	Numerical and experimental validation of a simplified formulation for the design of TLCD. , 2014, , 1061-1068.		4
49	The TLCD Passive Control: Numerical Investigations vs. Experimental Results. , 2012, , .		11