

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
g-index

49
all docs

49
docs citations

49
times ranked

468
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Simplified analytical solution for the optimal design of Tuned Mass Damper Inerter for base isolated structures. Mechanical Systems and Signal Processing, 2019, 134, 106337.	8.0	68
3	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
4	Galerkin Scheme-Based Determination of Survival Probability of Oscillators With Fractional Derivative Elements. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	55
5	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
6	Optimal design of tuned liquid column dampers for seismic response control of base-isolated structures. Acta Mechanica, 2018, 229, 437-454.	2.1	52
7	Approximate survival probability determination of hysteretic systems with fractional derivative elements. Probabilistic Engineering Mechanics, 2018, 54, 138-146.	2.7	47
8	Innovative modeling of Tuned Liquid Column Damper motion. Communications in Nonlinear Science and Numerical Simulation, 2015, 23, 229-244.	3.3	45
9	Base-isolated structure equipped with tuned liquid column damper: An experimental study. Mechanical Systems and Signal Processing, 2019, 116, 816-831.	8.0	38
10	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
11	First-passage problem for nonlinear systems under Lévy white noise through path integral method. Nonlinear Dynamics, 2016, 85, 1445-1456.	5.2	33
12	Smart structures through nontraditional design of Tuned Mass Damper Inerter for higher control of base isolated systems. Mechanics Research Communications, 2020, 105, 103513.	1.8	33
13	Experimental validation of a direct pre-design formula for TLCD. Engineering Structures, 2014, 75, 528-538.	5.3	32
14	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
15	Optimal design of tuned liquid column damper inerter for vibration control. Mechanical Systems and Signal Processing, 2022, 167, 108553.	8.0	27
16	Fractional viscoelastic Timoshenko beam deflection via single equation. International Journal for Numerical Methods in Engineering, 2015, 104, 869-886.	2.8	26
17	Path integral solution for nonlinear systems under parametric Poissonian white noise input. Probabilistic Engineering Mechanics, 2016, 44, 89-98.	2.7	26
18	Innovative modeling of tuned liquid column damper controlled structures. Smart Structures and Systems, 2016, 18, 117-138.	1.9	26

#	ARTICLE	IF	CITATIONS
19	Probabilistic characterization of nonlinear systems under Poisson white noise via complex fractional moments. <i>Nonlinear Dynamics</i> , 2014, 77, 729-738.	5.2	24
20	Steady-state dynamic response of various hysteretic systems endowed with fractional derivative elements. <i>Nonlinear Dynamics</i> , 2019, 98, 3113-3124.	5.2	21
21	Rocking of rigid block on nonlinear flexible foundation. <i>International Journal of Non-Linear Mechanics</i> , 2017, 94, 362-374.	2.6	20
22	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
23	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
24	Earthquake Excited Base-Isolated Structures Protected by Tuned Liquid Column Dampers: Design Approach and Experimental Verification. <i>Procedia Engineering</i> , 2017, 199, 1574-1579.	1.2	17
25	Vibration-based identification of mechanical properties of orthotropic arbitrarily shaped plates: Numerical and experimental assessment. <i>Composites Part B: Engineering</i> , 2018, 150, 212-225.	12.0	17
26	Combining TMD and TLCD: analytical and experimental studies. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 167, 101-113.	3.9	13
27	Fractional viscoelastic behaviour under stochastic temperature process. <i>Probabilistic Engineering Mechanics</i> , 2018, 54, 37-43.	2.7	13
28	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
29	The TLCD Passive Control: Numerical Investigations vs. Experimental Results. , 2012, , .		11
30	Poisson white noise parametric input and response by using complex fractional moments. <i>Probabilistic Engineering Mechanics</i> , 2014, 38, 119-126.	2.7	11
31	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
32	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
33	Nonlinear rocking of rigid blocks on flexible foundation: analysis and experiments. <i>Procedia Engineering</i> , 2017, 199, 284-289.	1.2	8
34	Arbitrarily shaped plates analysis via Line Element-Less Method (LEM). <i>Thin-Walled Structures</i> , 2018, 133, 235-248.	5.3	7
35	A Novel Mathematical Model for TLCD: Theoretical and Experimental Investigations. , 2014, , .		6
36	Analysis of block random rocking on nonlinear flexible foundation. <i>Probabilistic Engineering Mechanics</i> , 2020, 59, 103017.	2.7	6

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37	A novel identification procedure from ambient vibration data. <i>Meccanica</i> , 2021, 56, 797-812.	2.0	6
38	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
39	Path Integral Method for Nonlinear Systems Under Levy White Noise. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2017, 3, .	1.1	4
40	Dynamic response of equivalent orthotropic plate model for stiffened plate: numerical-experimental assessment. <i>Procedia Engineering</i> , 2017, 199, 1423-1428.	1.2	4
41	Numerical and experimental validation of a simplified formulation for the design of TLCD. , 2014, , 1061-1068.		4
42	An Innovative Structural Dynamic Identification Procedure Combining Time Domain OMA Technique and GA. <i>Buildings</i> , 2022, 12, 963.	3.1	3
43	Direct evaluation of jumps for nonlinear systems under external and multiplicative impulses. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 1753-1767.	2.6	2
44	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
45	A Wiener Path Integral Technique for Non-Stationary Response Determination of Nonlinear Oscillators with Fractional Derivative Elements. , 2014, , .		0
46	Probabilistic characterization of nonlinear systems under Poisson white noise parametric input via complex fractional moments. , 2014, , .		0
47	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
48	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
49	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