Carlos Jr De Marqui

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	On the energy harvesting potential of piezoaeroelastic systems. Applied Physics Letters, 2010, 96, .	3.3	323
2	An electromechanical finite element model for piezoelectric energy harvester plates. Journal of Sound and Vibration, 2009, 327, 9-25.	3.9	271
3	Piezoaeroelastic Modeling and Analysis of a Generator Wing with Continuous and Segmented Electrodes. Journal of Intelligent Material Systems and Structures, 2010, 21, 983-993.	2.5	130
4	Enhanced aeroelastic energy harvesting by exploiting combined nonlinearities: theory and experiment. Smart Materials and Structures, 2011, 20, 094007.	3.5	109
5	Modeling and Analysis of Piezoelectric Energy Harvesting From Aeroelastic Vibrations Using the Doublet-Lattice Method. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.6	85
6	Electroaeroelastic analysis of airfoil-based wind energy harvesting using piezoelectric transduction and electromagnetic induction. Journal of Intelligent Material Systems and Structures, 2013, 24, 846-854.	2.5	78
7	Hybrid piezoelectric-inductive flow energy harvesting and dimensionless electroaeroelastic analysis for scaling. Applied Physics Letters, 2013, 102, .	3.3	78
8	Tunable metamaterial beam with shape memory alloy resonators: Theory and experiment. Applied Physics Letters, 2018, 113, .	3.3	58
9	Three-Degree-of-Freedom Hybrid Piezoelectric-Inductive Aeroelastic Energy Harvester Exploiting a Control Surface. AIAA Journal, 2015, 53, 394-404.	2.6	48
10	Adaptive locally resonant metamaterials leveraging shape memory alloys. Journal of Applied Physics, 2018, 124, .	2.5	36
11	Modeling and Analysis of a Piezoelectric Energy Harvester with Varying Cross-Sectional Area. Shock and Vibration, 2014, 2014, 1-9.	0.6	35
12	An experimentally validated piezoelectric nonlinear energy sink for wideband vibration attenuation. Journal of Sound and Vibration, 2018, 437, 68-78.	3.9	34
13	Macro-Fiber Composite Actuators for Flow Control of a Variable Camber Airfoil. Journal of Intelligent Material Systems and Structures, 2011, 22, 81-91.	2.5	27
14	On the electrode segmentation for piezoelectric energy harvesting from nonlinear limit cycle oscillations in axial flow. Journal of Fluids and Structures, 2018, 82, 492-504.	3.4	22
15	Bandgap widening by optimized disorder in one-dimensional locally resonant piezoelectric metamaterials. Journal of Sound and Vibration, 2021, 512, 116369.	3.9	20
16	Space–time wave localization in electromechanical metamaterial beams with programmable defects. Mechanical Systems and Signal Processing, 2022, 167, 108550.	8.0	20
17	An Experimental Study of a Piezoelectric Metastructure With Adaptive Resonant Shunt Circuits. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1076-1083.	5.8	18
18	Aeroelastic flutter enhancement by exploiting the combined use of shape memory alloys and nonlinear piezoelectric circuits. Journal of Sound and Vibration, 2017, 407, 46-62.	3.9	17

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19	Effect of pseudoelastic hysteresis of shape memory alloy springs on the aeroelastic behavior of a typical airfoil section. Journal of Intelligent Material Systems and Structures, 2016, 27, 117-133.	2.5	16
20	Equivalent electrical circuit framework for nonlinear and high quality factor piezoelectric structures. Mechatronics, 2018, 54, 133-143.	3.3	15
21	Dynamics and wave propagation in nonlinear piezoelectric metastructures. Nonlinear Dynamics, 2021, 105, 2995-3023.	5.2	15
22	Airfoil-based piezoelectric energy harvesting by exploiting the pseudoelastic hysteresis of shape memory alloy springs. Smart Materials and Structures, 2015, 24, 125014.	3.5	14
23	A flutter suppression active controller. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2005, 219, 19-33.	1.3	12
24	Piezoceramic Composite Actuators for Flow Control in Low Reynolds Number Airflow. Journal of Intelligent Material Systems and Structures, 2010, 21, 1201-1212.	2.5	12
25	Membrane smart metamaterials for unidirectional wave propagation problems. Journal of Sound and Vibration, 2021, 512, 116374.	3.9	12
26	Identification of flutter parameters for a wing model. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2006, 28, 339.	1.6	11
27	Active angular control of a sectioned airfoil using shape memory alloys and fuzzy controller. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 1555-1567.	1.6	11
28	Vibration attenuation in a nonlinear flexible structure via nonlinear switching circuits and energy harvesting implications. Journal of Intelligent Material Systems and Structures, 2019, 30, 965-976.	2.5	11
29	Applied self-powered semi-passive control for a 2-degree-of-freedom aeroelastic typical section using shunted piezoelectric materials. Journal of Intelligent Material Systems and Structures, 2015, 26, 373-385.	2.5	10
30	Energy analysis of semi-passive control for an aeroelastic plate-like wing using shunted piezoelectric materials. Journal of Intelligent Material Systems and Structures, 2016, 27, 2599-2615.	2.5	10
31	Self-powered active control of elastic and aeroelastic oscillations using piezoelectric material. Journal of Intelligent Material Systems and Structures, 2017, 28, 2023-2035.	2.5	10
32	Aeroelastic control of non-rotating and rotating wings using the dynamic stiffness modulation principle via piezoelectric actuators. Journal of Intelligent Material Systems and Structures, 2015, 26, 1656-1668.	2.5	9
33	Aeroelastic behavior of a typical section with shape memory alloy springs: Modeling nonhomogeneous distribution of state variables. Applied Mathematical Modelling, 2017, 52, 404-416.	4.2	9
34	Mechanics and dynamics of two-dimensional quasicrystalline composites. Extreme Mechanics Letters, 2021, 44, 101220.	4.1	9
35	Nonlinear piezoelectric plate framework for aeroelastic energy harvesting and actuation applications. Smart Materials and Structures, 2020, 29, 105006.	3.5	8
36	Effect of constitutive model parameters on the aeroelastic behavior of an airfoil with shape memory alloy springs. JVC/Journal of Vibration and Control, 2018, 24, 1065-1085.	2.6	7

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37	Bridging-Coupling Phenomenon in Linear Elastic Metamaterials by Exploiting Locally Resonant Metachain Isomers. Physical Review Applied, 2020, 14, .	3.8	7
38	Design of an experimental flutter mount system. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2007, 29, .	1.6	6
39	Experimental study on the aeroelastic behavior of a typical airfoil section with superelastic shape memory alloy springs. Journal of Intelligent Material Systems and Structures, 2018, 29, 623-635.	2.5	6
40	Effect of Segmented Electrodes on Piezo-Elastic and Piezo-Aero-Elastic Responses of Generator Plates. , 2009, , .		4
41	Nonlinear Dynamic Model and Simulation of Morphing Wing Profile Actuated by Shape Memory Alloys. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 21-28.	0.5	4
42	Numerical and Experimental Investigation and Optimization of a Morphing Airfoil. , 2010, , .		3
43	Piezoelectric Energy Harvesting. , 2016, , 267-288.		3
44	Effect of negative capacitance circuits on the performance of the piezoelectric nonlinear energy sink. , 2020, , .		3
45	Linear and Nonlinear Aeroelastic Energy Harvesting Using Electromagnetic Induction. , 2011, , .		2
46	Modeling and Analysis of Piezoelectric Energy Harvesting from Helicopter Blades. , 2012, , .		2
47	Electroaeroelastic modeling and analysis of a hybrid piezoelectric-inductive flow energy harvester. , 2013, , .		2
48	Experimental Verification of a Semi-Active Piezoelectric Pitch Link for Helicopter Vibration Attenuation. , 2017, , .		2
49	Wind-Tunnel Model and a Controller for Flutter Suppression. , 2004, , .		1
50	Linear and Nonlinear Modeling and Experiments of a Piezoaeroelastic Energy Harvester. , 2010, , .		1
51	Non-Linear Modeling and Analysis of Composite Helicopter Blade for Piezoelectric Energy Harvesting. , 2012, , .		1
52	Airfoil-Based Linear and Nonlinear Electroaeroelastic Energy Harvesting. , 2013, , 269-294.		1
53	Vibration Suppression of a Plate-Like Wing Under Atmospheric Turbulence Using Passive And Hybrid Piezoelectric Circuits. , 2013, , .		1
54	Passive and hybrid piezoelectric circuits to reduce induced-atmospheric turbulence vibration of a plate-like wing. Proceedings of SPIE, 2013, , .	0.8	1

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55	Self-Powered Active Control for an Aeroelastic Plate-Like Wing Using Piezoelectric Material. , 2014, , .		1
56	The Use of Damping Based Semi-Active Control Algorithms in the Mechanical Smart-Spring System. Journal of Vibration and Acoustics, Transactions of the ASME, 2018, 140, .	1.6	1
57	Essentially Nonlinear Piezoelectric Attachment for Aeroelastic Flutter Suppression. , 2018, , .		1
58	An investigation of optimal non-uniform locally resonant piezoelectric metamaterials. , 2020, , .		1
59	Analysis and Chaos Prediction of a Nonlinear Aeroelastic System via Lyapunov Exponents. , 2008, , .		Ο
60	Finite Element Analysis of a UAV Wing Spar with Piezoceramics for Vibration Energy Harvesting. , 2009, , .		0
61	Frequency Domain Solution of a Piezo-aero-elastic Wing for Energy Harvesting. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 247-259.	0.5	0
62	Piezoaeroelastic Typical Section for Wind Energy Harvesting. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 53-61.	0.5	0
63	An Experimental Investigation Into the Performance of a T-Shaped Piezoelectric Flow Energy Harvester. , 2013, , .		Ο
64	Piezoelectric Energy Harvesting From Nonlinear Aeroelastic Vibrations. , 2013, , .		0
65	Dimensionless analysis and scaling of a hybrid 3DOF airfoil-based piezoelectric-inductive aeroelastic energy harvester. , 2013, , .		Ο
66	Mathematical Insights of Mode Localization in Nearly Cyclic Symmetric Rotors With Mistune. , 2013, , .		0
67	On the Optimal Piezoelectric Material Distribution in Energy Harvesting From a Nonlinear Beam Under Axial Flow. , 2016, , .		0
68	Suppression of Nonlinear Bifurcations in Flexible Structures Using Nonlinear Switching Shunt Damping Circuits. , 2016, , .		0
69	Novel Equivalent Electrical Circuits for Linear and Nonlinear Electromechanically Coupled Systems. , 2017, , .		0
70	Modeling and Experimental Verification of the Aeroelastic Behavior of a Typical Airfoil Section With Shape Memory Alloy Springs. , 2017, , .		0
71	An Investigation of the Electroaeroelastic Behavior of a Locally Resonant Piezoelectric Metastructure. , 2018, , .		0
72	Effects of Bandgap Formation on the Aeroelastic Behavior of a Plate-Like Wing. , 2018, , .		0

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73	A Numerical Study of a Rotor Induced Flow Based on a Finite-State Dynamic Wake Model Trends in Computational and Applied Mathematics, 2021, 22, 307-324.	0.2	0
74	Effects of a piezoelectric based nonlinear energy sink on the behavior of an electromechanically coupled beam. , 2018, , .		0
75	Locally resonant metamaterials with shape-memory alloy springs. , 2018, , .		0
76	Effects of negative capacitance circuits on the vibration attenuation performance of a nonlinear piezoelectric metastructure. , 2022, , .		0