

# Jamil M Renno

## List of Publications by Year in descending order

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51  
papers

1,248  
citations

687363

13  
h-index

377865

34  
g-index

51  
all docs

51  
docs citations

51  
times ranked

852  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Piezoelectric Energy Harvesting from an L-shaped Beam-mass Structure with an Application to UAVs. <i>Journal of Intelligent Material Systems and Structures</i> , 2009, 20, 529-544.	2.5	351
2	On the optimal energy harvesting from a vibration source. <i>Journal of Sound and Vibration</i> , 2009, 320, 386-405.	3.9	311
3	On the forced response of waveguides using the wave and finite element method. <i>Journal of Sound and Vibration</i> , 2010, 329, 5474-5488.	3.9	76
4	Calculation of reflection and transmission coefficients of joints using a hybrid finite element/wave and finite element approach. <i>Journal of Sound and Vibration</i> , 2013, 332, 2149-2164.	3.9	72
5	Generalized Design of an Anti-swing Fuzzy Logic Controller for an Overhead Crane with Hoist. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 319-346.	2.6	40
6	Calculating the forced response of cylinders and cylindrical shells using the wave and finite element method. <i>Journal of Sound and Vibration</i> , 2014, 333, 5340-5355.	3.9	34
7	Calculating the forced response of two-dimensional homogeneous media using the wave and finite element method. <i>Journal of Sound and Vibration</i> , 2011, 330, 5913-5927.	3.9	33
8	Wave transmission through two-dimensional structures by the hybrid FE/WFE approach. <i>Journal of Sound and Vibration</i> , 2017, 389, 484-501.	3.9	31
9	Vibration modelling of structural networks using a hybrid finite element/wave and finite element approach. <i>Wave Motion</i> , 2014, 51, 566-580.	2.0	29
10	A hybrid piezoelectric-electromagnetic energy harvester from vortex-induced vibrations in fluid-flow; the influence of boundary condition in tuning the harvester. <i>Energy Conversion and Management</i> , 2022, 256, 115371.	9.2	25
11	Vibration modelling of helical springs with non-uniform ends. <i>Journal of Sound and Vibration</i> , 2012, 331, 2809-2823.	3.9	24
12	Inverse Dynamics Based Tuning of a Fuzzy Logic Controller for a Single-Link Flexible Manipulator. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 1741-1759.	2.6	17
13	A Finite Element Method for Modelling Waves in Laminated Structures. <i>Advances in Structural Engineering</i> , 2013, 16, 61-75.	2.4	16
14	Piezoelectric energy harvesting from an L-shaped beam-mass structure. <i>Proceedings of SPIE</i> , 2008, , .	0.8	13
15	Optimization of Viscoelastic Metamaterials for Vibration Attenuation Properties. <i>International Journal of Applied Mechanics</i> , 2020, 12, 2050116.	2.2	13
16	An enhanced hybrid piezoelectric-electromagnetic energy harvester using dual-mass system for vortex-induced vibrations. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 2848-2861.	2.6	13
17	Modeling and Control of a Membrane Strip Using a Single Piezoelectric Bimorph. <i>JVC/Journal of Vibration and Control</i> , 2009, 15, 391-414.	2.6	12
18	Experimental investigation of the crashworthiness performance of fiber and fiber steel-reinforced composites tubes. <i>Composite Structures</i> , 2020, 251, 112655.	5.8	12

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19	Nonlinear Control of a Membrane Mirror Strip Actuated Axially and in Bending. AIAA Journal, 2009, 47, 484-493.	2.6	11
20	Anti-Swing Adaptive Fuzzy Controller for an Overhead Crane With Hoisting. , 2004, , 589.		9
21	Dynamic Modeling of Segmented Ionic Polymer Metal Composite (IPMC) Actuator. , 2006, , .		9
22	Investigating the characteristics of a magnetorheological fluid damper through CFD modeling. Materials Research Express, 2021, 8, 055701.	1.6	9
23	Experimentally Validated Model of a Membrane Strip with Multiple Actuators. Journal of Spacecraft and Rockets, 2007, 44, 1140-1152.	1.9	8
24	Wave Scattering and Power Flow in Straight-Helical-Straight Waveguide Structure. International Journal of Applied Mechanics, 2019, 11, 1950075.	2.2	8
25	Wave propagation in double helical rods. Wave Motion, 2020, 93, 102446.	2.0	8
26	Effects of System Parameters and Damping on an Optimal Vibration-Based Energy Harvester. , 2007, , .		7
27	Dynamic Response of a Rotating Assembly under the Coupled Effects of Misalignment and Imbalance. Shock and Vibration, 2020, 2020, 1-26.	0.6	6
28	A hybrid piezoelectric-electromagnetic nonlinear vibration energy harvester excited by fluid flow. Comptes Rendus - Mecanique, 2021, 349, 65-81.	0.7	6
29	An Experimentally Verified Model of a Membrane Mirror Strip Actuated Using a Piezoelectric Bimorph. Journal of Vibration and Acoustics, Transactions of the ASME, 2007, 129, 631-640.	1.6	5
30	Using probabilistic neural networks for modeling metal fatigue and random vibration in process pipework. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 1227-1242.	3.4	5
31	Structural response of an aircraft fuselage to hydraulic system - A wave and mobility approach. Noise Control Engineering Journal, 2013, 61, 87-99.	0.3	4
32	Modeling of a Membrane Mirror Strip Actuated Using a Piezoelectric Bimorph. , 2006, , .		4
33	Switching sliding mode control for a membrane strip with MFC actuators. Proceedings of SPIE, 2008, , .	0.8	3
34	Calculating the response of waveguides to base excitation using the wave and finite element method. JVC/Journal of Vibration and Control, 0, , 107754632098131.	2.6	3
35	Broadband vibration energy harvesting from a non-deterministic system: Performance of different piezoelectric patch shapes. Materials Research Express, 2021, 8, 025702.	1.6	3
36	Investigation of the Effect of the Force-Frequency on the Behaviour of a New Viscous Damper for Railway Applications. , 2020, , .		3

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37	Parameter Optimization of a Vibration-Based Energy Harvester With an RL Electric Circuit. , 2007, , 787.		2
38	Time-Domain Based Quantification of Surface Degradation for Better Monitoring of the Health Condition of Ball Bearings. Vibration, 2018, 1, 172-191.	1.9	2
39	Experimental Investigation of the Vibration Control of Nonrotating Periodic Drill Strings. Journal of Vibration and Acoustics, Transactions of the ASME, 2021, 143, .	1.6	2
40	Experimental and numerical investigation of damping in a hybrid automotive damper combining viscous and multiple-impact mechanisms. JVC/Journal of Vibration and Control, 2022, 28, 3676-3687.	2.6	2
41	Modelling fatigue uncertainty by means of nonconstant variance neural networks. Fatigue and Fracture of Engineering Materials and Structures, 0, , .	3.4	2
42	End Point Position Control of Multi-Link Flexible Manipulators Using SDRE Method. , 2004, , .		1
43	A Single Phase Anti-Swing Fuzzy Logic Controller for an Overhead Crane With Hoisting. , 2006, , .		1
44	Sliding Mode Control for a Membrane Mirror Strip Actuated Using Multiple Smart Actuators. , 2007, , .		1
45	Geometrical Investigation of Piezoelectric Patches for Broadband Energy Harvesting in Non-Deterministic Composite Plates. Materials, 2021, 14, 7370.	2.9	1
46	Energy harvesting from railway slab-tracks with continuous slabs. JVC/Journal of Vibration and Control, 0, , 107754632110542.	2.6	1
47	Inverse Dynamics Based Fuzzy Logic Controller for a Single-Link Flexible Manipulator. , 2005, , 841.		0
48	A New Approach for Changing Structural Properties of a Membrane Mirror Strip for Adaptive Optics Applications. , 2007, , 1809.		0
49	Modelling Wave Behaviour of Elastic Helical Waveguides. Lecture Notes in Mechanical Engineering, 2021, , 925-940.	0.4	0
50	On the Optimal Energy Harvesting from a Vibration Source Using a Piezoelectric Stack. , 2009, , 165-194.		0
51	On the Suitability of Vibration Acceptance Criteria of Process Pipework. Advances in Materials Science and Engineering, 2022, 2022, 1-9.	1.8	0