

S Olutunde Oyadiji

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5179024/publications.pdf>

Version: 2024-02-01

80
papers

1,270
citations

411340

20
h-index

425179

34
g-index

81
all docs

81
docs citations

81
times ranked

1093
citing authors

#	ARTICLE	IF	CITATIONS
1	Accounting for shape factor effects in Ogden-Hill elastomeric foam model. <i>Polymer</i> , 2022, , 125139.	1.8	0
2	Study of failure symptoms of a single-tube MR damper using an FEA-CFD approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 1391-1419.	1.4	7
3	A new delamination making technique for cured glass/epoxy samples and validation using vibration characteristics. <i>Composite Structures</i> , 2021, 257, 113019.	3.1	0
4	A one-way coupled numerical magnetic field and CFD simulation of viscoplastic compressible fluids in MR dampers. <i>International Journal of Mechanical Sciences</i> , 2020, 167, 105265.	3.6	39
5	Evaluation of nonlinear dynamic phenomena in the hysteretic behaviour of magnetorheological dampers. <i>Applications in Engineering Science</i> , 2020, 3, 100019.	0.5	5
6	Magnetic Circuit Analysis and Fluid Flow Modeling of an MR Damper With Enhanced Magnetic Characteristics. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-20.	1.2	14
7	A review on multi-physics numerical modelling in different applications of magnetorheological fluids. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 1855-1897.	1.4	29
8	Simulation and detection of blockage in a pipe under mean fluid flow using acoustic wave propagation technique. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2449.	1.9	5
9	Acoustic Wave Propagation in Air-Filled Pipes Using Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1318.	1.3	8
10	Design and experimental study of a multi-modal piezoelectric energy harvester. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 5-15.	0.7	15
11	Finite element analysis and experimental measurement of acoustic wave propagation for leakage detection in an air-filled pipe. <i>International Journal of Structural Integrity</i> , 2017, 8, 452-467.	1.8	6
12	Delamination detection in composite laminate plates using 2D wavelet analysis of modal frequency surface. <i>Computers and Structures</i> , 2017, 179, 109-126.	2.4	40
13	Damage detection using modal frequency curve and squared residual wavelet coefficients-based damage indicator. <i>Mechanical Systems and Signal Processing</i> , 2017, 83, 385-405.	4.4	50
14	Development of two-layer multiple transmitter fibre optic bundle displacement sensor and application in structural health monitoring. <i>Sensors and Actuators A: Physical</i> , 2016, 244, 1-14.	2.0	17
15	Simulation and detection of small crack-like surface flaws and slots in simply-supported beams using curvature analysis of analytical and numerical modal displacement data. <i>Engineering Computations</i> , 2016, 33, 1969-2006.	0.7	9
16	Clamping of fine Kirschner wires in external fixators. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 1036-1042.	1.0	1
17	Detection of delamination in composite beams using frequency deviations due to concentrated mass loading. <i>Composite Structures</i> , 2016, 146, 1-13.	3.1	12
18	Tapered Two-Layer Broadband Vibration Energy Harvesters. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.0	7

#	ARTICLE	IF	CITATIONS
19	Theoretical and experimental study of self-reference intensity-modulated plastic fibre optic linear array displacement sensor. <i>Sensors and Actuators A: Physical</i> , 2015, 222, 67-79.	2.0	14
20	Modal optimization of doubly clamped base-excited multilayer broadband vibration energy harvesters. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 2216-2241.	1.4	14
21	Modal Approach for Optimal Design of Two-Layer Piezoelectric Vibration Energy Harvesters. <i>Mechanisms and Machine Science</i> , 2015, , 277-288.	0.3	1
22	Single and Multiple Crack Detection in Simply-Supported Beams Using SWT. <i>Mechanisms and Machine Science</i> , 2015, , 265-275.	0.3	1
23	Optimal design of two-layer vibration energy harvesters using a modal approach. <i>Smart Materials and Structures</i> , 2014, 23, 035005.	1.8	3
24	A general modal approach for the development of optimal multi-layer stacked vibration energy harvesters. <i>Journal of Sound and Vibration</i> , 2014, 333, 5386-5411.	2.1	8
25	Analysis of the Effect of Ring Stiffness on the Mechanical Performance of a Two-Ring Ilizarov Fixator. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.4	0
26	Effect of Asymmetrical Configuration of Pins in the TSF External Fixator Used for Tibial Lengthening in a Pediatric Population. <i>Journal of Pediatric Orthopaedics</i> , 2014, 34, 618-624.	0.6	5
27	Theoretical and Experimental Investigation of Magneto-Rheological Damper based Semi-Active Suspension Systems. <i>International Journal of Vehicle Structures and Systems</i> , 2014, 5, .	0.1	8
28	Energy awareness workflow model for wireless sensor nodes. <i>Wireless Communications and Mobile Computing</i> , 2014, 14, 1583-1600.	0.8	3
29	The use of roving discs and orthogonal natural frequencies for crack identification and location in rotors. <i>Journal of Sound and Vibration</i> , 2014, 333, 6237-6257.	2.1	14
30	Modal electromechanical optimization of cantilevered piezoelectric vibration energy harvesters by geometric variation. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1177-1195.	1.4	17
31	Sampling interval sensitivity analysis for crack detection by stationary wavelet transform. <i>Structural Control and Health Monitoring</i> , 2013, 20, 45-69.	1.9	9
32	Bi-material V-notch stress intensity factors by the fractal-like finite element method. <i>Engineering Fracture Mechanics</i> , 2013, 105, 221-237.	2.0	16
33	Strain energy approach to compute stress intensity factors for isotropic homogeneous and bi-material V-notches. <i>International Journal of Solids and Structures</i> , 2013, 50, 2196-2212.	1.3	42
34	Evaluation of mode III stress intensity factors for bi-material notched bodies using the fractal-like finite element method. <i>Computers and Structures</i> , 2013, 129, 99-110.	2.4	22
35	Comparisons Between Dynamic Characteristics of Pneumatic, Magnetorheological, and Hydraulic Shock Absorbers. , 2012, , .		0
36	Structure Design of Energy Harvester for Supporting Paroxysmal Energy Collection. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Identification of Blockage in a Pipe Using Modal Analysis. , 2011, , .		2
38	Detection of cracks in simply-supported beams by continuous wavelet transform of reconstructed modal data. Computers and Structures, 2011, 89, 127-148.	2.4	74
39	Crack detection in simply supported beams using stationary wavelet transform of modal data. Structural Control and Health Monitoring, 2011, 18, 169-190.	1.9	47
40	Design of a multiresonant beam for broadband piezoelectric energy harvesting. Smart Materials and Structures, 2010, 19, 094009.	1.8	75
41	The in vivo mechanical properties of muscular bulk tissue. , 2009, 2009, 5259-62.		5
42	Response-Only Frequency-Domain Method for Structural Damage Detection. , 2009, , .		0
43	Experimental Testing and Validation of a Magnetorheological (MR) Damper Model. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.0	9
44	Multiple Resonances Piezoelectric Energy Harvesting Generator. , 2009, , .		4
45	Free Vibration Analysis of Rotating Tapered Bresse-Rayleigh Beams Using the Differential Transformation Method. , 2009, , .		1
46	Computation of the stress intensity factors of sharp notched plates by the fractal-like finite element method. International Journal for Numerical Methods in Engineering, 2009, 77, 558-580.	1.5	22
47	Characterising Mechanical Properties of Braided and Woven Textile Composite Beams. Applied Composite Materials, 2009, 16, 15-31.	1.3	36
48	Computations of the stress intensity factors of double-edge and centre V-notched plates under tension and anti-plane shear by the fractal-like finite element method. Engineering Fracture Mechanics, 2009, 76, 2091-2108.	2.0	32
49	Mathematical Modeling, Analysis, and Design of Magnetorheological (MR) Dampers. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.0	22
50	Dynamic Stiffness Matrix Method for the Free Vibration Analysis of Rotating Uniform Shear Beams. , 2009, , .		0
51	Concealed Weapon Detection Using Acoustic Spectral Characterisation. , 2009, , .		0
52	Middleware Design for Energy Harvester of Wireless Sensor Nodes. , 2009, , .		1
53	Computations of SIFs for Non-Symmetric V-Notched Plates by the FFEM. , 2009, , .		3
54	Finite Element Determination of Beam Surface Stresses Due to Multiple Delamination. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	A mechanical model representation of the in vivo creep behaviour of muscular bulk tissue. Journal of Biomechanics, 2008, 41, 2760-2765.	0.9	20
56	Analytical predictions of natural frequencies of cracked simply supported beams with a stationary roving mass. Journal of Sound and Vibration, 2008, 311, 328-352.	2.1	58
57	Response-only method for damage detection of beam-like structures using high accuracy frequencies with auxiliary mass spatial probing. Journal of Sound and Vibration, 2008, 311, 1075-1099.	2.1	60
58	Design, modelling and testing of magnetorheological (MR) dampers using analytical flow solutions. Computers and Structures, 2008, 86, 473-482.	2.4	94
59	Transmissibility characteristics of stiffened profiles for designed-in viscoelastic damping pockets in beams. Computers and Structures, 2008, 86, 437-446.	2.4	7
60	Application of MR damper in structural control using ANFIS method. Computers and Structures, 2008, 86, 427-436.	2.4	66
61	Computations of modes I and II stress intensity factors of sharp notched plates under in-plane shear and bending loading by the fractal-like finite element method. International Journal of Solids and Structures, 2008, 45, 6468-6484.	1.3	28
62	Identification of Cracks in Beams With Auxiliary Mass Spatial Probing by Stationary Wavelet Transform. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.0	31
63	In Vivo Mechanical Properties of Muscular Bulk Tissue: Mechanical Model Representation of Stress-Relaxation Behavior. , 2008, , .		0
64	Dynamic Properties of Delaminated Braided Textile Composite Beams. , 2008, , .		0
65	Application of MR Damper in Structural Control Using Genetic Algorithm and Fuzzy Logic PID Tuning Methods. , 2007, , 231.		0
66	Predicting the Traction Force Requirements of Wheeled Mobile Robots Traversing Obstacles. , 2007, , 905.		0
67	Applications of the Fractal-Like Finite Element Method to Sharp Notched Plates. , 2007, , 399.		4
68	Wavelet-Based Structural Damage Detection. , 2007, , 461.		5
69	Crack detection in simply supported beams without baseline modal parameters by stationary wavelet transform. Mechanical Systems and Signal Processing, 2007, 21, 1853-1884.	4.4	97
70	Analyses of the multiple cracking behaviour of brittle hollow cylinders under internal pressure. International Journal of Impact Engineering, 2006, 32, 905-927.	2.4	5
71	Dynamics and generation of stress waves in cracked graphite moderator bricks. Nuclear Engineering and Design, 2005, 235, 557-573.	0.8	3
72	Applications of neuro PID adaptive controller based on RBF neural networks identifier for structural control. , 2005, , .		1

#	ARTICLE	IF	CITATIONS
73	Mathematical Modelling and Design and of MR Dampers. , 2004, , 171.		1
74	<title>Time domain characterization of the dynamic properties of viscoelastic materials</title>. , 1997, 3045, 204.		0
75	<title>Selective modal sensing of vibrating beams using piezoelectric films</title>. , 1997, 3042, 24.		2
76	<title>Use of PZT sensors for wave propagation studies</title>. , 1996, , .		1
77	<title>Design of polymer-based mechanical filters for shock-measurement accelerometers</title>. , 1996, 2720, 305.		5
78	<title>Damping of vibrations of hollow beams using viscoelastic spheres</title>. , 1996, , .		2
79	<title>Predicting the vibration characteristics of elements incorporating incompressible and compressible viscoelastic materials</title>. , 1995, 2445, 293.		3
80	<title>Relating the complex moduli of viscoelastic materials to the complex stiffness of antivibration mounts</title>. , 1994, 2193, 226.		1