

Venu Gopal Madhav Annamdas

List of Publications by Year in descending order

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46
papers

1,187
citations

430754

18
h-index

377752

34
g-index

48
all docs

48
docs citations

48
times ranked

792
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Electromechanical Impedance Technique for Engineering Structures: Review and Future Issues. Journal of Intelligent Material Systems and Structures, 2010, 21, 41-59.	1.4	170
2	Electromechanical impedance of piezoelectric transducers for monitoring metallic and non-metallic structures: A review of wired, wireless and energy-harvesting methods. Journal of Intelligent Material Systems and Structures, 2013, 24, 1021-1042.	1.4	141
3	Applications of structural health monitoring technology in Asia. Structural Health Monitoring, 2017, 16, 324-346.	4.3	90
4	Influence of loading on the electromechanical admittance of piezoceramic transducers. Smart Materials and Structures, 2007, 16, 1888-1897.	1.8	81
5	Application of Multiplexed FBG and PZT Impedance Sensors for Health Monitoring of Rocks. Sensors, 2008, 8, 271-289.	2.1	79
6	Three-Dimensional Electromechanical Impedance Model. I: Formulation of Directional Sum Impedance. Journal of Aerospace Engineering, 2007, 20, 53-62.	0.8	70
7	An electromechanical impedance model of a piezoceramic transducer-structure in the presence of thick adhesive bonding. Smart Materials and Structures, 2007, 16, 673-686.	1.8	52
8	Monitoring damage propagation using PZT impedance transducers. Smart Materials and Structures, 2009, 18, 045003.	1.8	51
9	Three-Dimensional Electromechanical Impedance Model for Multiple Piezoceramic Transducersâ€™ Structure Interaction. Journal of Aerospace Engineering, 2008, 21, 35-44.	0.8	49
10	Practical implementation of piezo-impedance sensors in monitoring of excavation support structures. Structural Control and Health Monitoring, 2012, 19, 231-245.	1.9	47
11	Embedded piezoelectric ceramic transducers in sandwiched beams. Smart Materials and Structures, 2006, 15, 538-549.	1.8	46
12	Three-Dimensional Electromechanical Impedance Model. II: Damage Analysis and PZT Characterization. Journal of Aerospace Engineering, 2007, 20, 63-71.	0.8	36
13	Load monitoring using a calibrated piezo diaphragm based impedance strain sensor and wireless sensor network in real time. Smart Materials and Structures, 2017, 26, 045036.	1.8	25
14	Uniplexing and Multiplexing of PZT Transducers for Structural Health Monitoring. Journal of Intelligent Material Systems and Structures, 2008, 19, 457-467.	1.4	23
15	Efficiency of electromechanical impedance for load and damage assessment along the thickness of lead zirconate titanate transducers in structural monitoring. Journal of Intelligent Material Systems and Structures, 2013, 24, 2008-2022.	1.4	21
16	Crack monitoring using multiple smart materials; fiber-optic sensors & piezo sensors. International Journal of Smart and Nano Materials, 2017, 8, 41-55.	2.0	21
17	Review on Developments in Fiber Optical Sensors and Applications. International Journal of Materials Engineering, 2012, 1, 1-16.	1.0	20
18	Review on developments in fiber optical sensors and applications. Proceedings of SPIE, 2010, , .	0.8	19

#	ARTICLE	IF	CITATIONS
19	Contactless load monitoring in near-field with surface localized spoof plasmonsâ€”A new breed of metamaterials for health of engineering structures. <i>Sensors and Actuators A: Physical</i> , 2016, 244, 156-165.	2.0	17
20	Evaluation of peak-free electromechanical piezo-impedance and electromagnetic contact sensing using metamaterial surface plasmons for load monitoring. <i>Smart Materials and Structures</i> , 2017, 26, 015003.	1.8	14
21	Fatigue Growth Analysis of Pre Induced Surface Defects Using Piezoelectric Wafer Based Impedance Method and Digital Image Correlation System. <i>Journal of Nondestructive Evaluation</i> , 2014, 33, 413-426.	1.1	11
22	Influence of the excitation frequency in the electromechanical impedance method for SHM applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	9
23	Health monitoring of concrete structures using embedded PZT transducers based electromechanical impedance model. , 2009, , .		9
24	Current developments in fiber Bragg grating sensors and their applications. , 2008, , .		8
25	Monitoring concrete by means of embedded sensors and electromechanical impedance technique. <i>Proceedings of SPIE</i> , 2010, , .	0.8	8
26	Monitoring of Fatigue in Welded Beams Using Piezoelectric Wafer Based Impedance Technique. <i>Journal of Nondestructive Evaluation</i> , 2013, 33, 124.	1.1	7
27	Application of Metamaterial Surface Plasmon and Waveguide for Robotic-Arm Based Structural Health Monitoring. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	7
28	Easy installation method of piezoceramic (PZT) transducers for health monitoring of structures using electro-mechanical impedance technique. <i>Proceedings of SPIE</i> , 2009, , .	0.8	5
29	Parallel and Individual Interrogations of Piezo-Impedance Transducers for Damage Detection. <i>Materials and Manufacturing Processes</i> , 2010, 25, 249-254.	2.7	5
30	Structural health monitoring of concrete structures using electromechanical impedance technique. , 2013, , .		5
31	Fatigue Monitoring of Double Surface Defects Using PZT Based Electromechanical Impedance and Digital Image Correlation Methods. <i>Advanced Materials Research</i> , 0, 891-892, 551-556.	0.3	5
32	A Perspective of Non-Fiber-Optical Metamaterial and Piezoelectric Material Sensing in Automated Structural Health Monitoring. <i>Sensors</i> , 2019, 19, 1490.	2.1	5
33	Multiple piezoceramic transducers (PZT)-structure interaction model. , 2006, 6174, 1104.		4
34	Active and passive interaction mechanism of smart materials for health monitoring of engineering structures: a review. <i>Proceedings of SPIE</i> , 2009, , .	0.8	4
35	Piezo impedance sensors to monitor degradation of biological structure. , 2010, , .		3
36	Impedance based sensor technology to monitor stiffness of biological structures. <i>Proceedings of SPIE</i> , 2010, , .	0.8	3

#	ARTICLE	IF	CITATIONS
37	Experimental study on sensing capability of fibre optic and piezoceramic sensors for load monitoring. , 2009, , .		2
38	Different types of piezoceramic-structure interaction models using electro mechanical impedance technique: a review. Proceedings of SPIE, 2009, , .	0.8	2
39	Wireless sensing using piezo-ceramic transducers for structural health monitoring. , 2009, , .		2
40	Fibre optic sensors for load-displacement measurements and comparisons to piezo sensor based electromechanical admittance signatures. Proceedings of SPIE, 2015, , .	0.8	2
41	Application of three dimensional electromechanical impedance model for damage assessment of plate. Proceedings of SPIE, 2012, , .	0.8	1
42	Damage monitoring using fiber optic sensors and by analysing electro-mechanical admittance signatures obtained from piezo sensor. Proceedings of SPIE, 2015, , .	0.8	1
43	Detecting and Monitoring of Stress on Beams Using Lamb Waves. , 2013, , 693-698.		1
44	Influence of loading on structures actuated with piezoceramic transducers. , 2006, 6414, 228.		0
45	Monitoring damage propagation using PZT impedance transducers. , 2008, , .		0
46	Novel non-fiber optical metamaterial waveguide for monitoring canal and pipeline structures. Journal of Civil Structural Health Monitoring, 2019, 9, 369-383.	2.0	0