Jayantha A Epaarachchi

List of Publications by Year
in descending order

31 papers	567 citations	759233 12 h-index	642732 23 g-index
31 all docs	31 docs citations	31 times ranked	450 citing authors

#	Article	IF	Citations
1	Distributed sensing based real–time process monitoring of shape memory polymer components. Journal of Applied Polymer Science, 2022, 139, .	2.6	5
2	Cyanate esters as a high performing shape memory polymer: A review. Materials Today: Proceedings, 2022, 57, 693-700.	1.8	4
3	Effects of Ligands in Rare Earth Complex on Properties, Functions, and Intelligent Behaviors of Polyurea–Urethane Composites. Polymers, 2022, 14, 2098.	4.5	1
4	Shape memory polymer composites and their smart structural applications. , 2021, , 581-610.		4
5	In-situ Performance Evaluation of Large Shape Memory Polymer Components via Distributed Optical Fibre Sensors. , 2021, , .		3
6	Light activated shape memory polymers and composites: A review. European Polymer Journal, 2020, 136, 109912.	5.4	89
7	Manufacture of luminescent shape–memory polymer composites using rare earth organic complex and commercial carboxylated nitrile rubber. Polymer Composites, 2020, 41, 3732-3747.	4.6	5
8	Remote actuation of light activated shape memory polymers via D-shaped optical fibres. Smart Materials and Structures, 2020, 29, 047001.	3.5	14
9	Effects of selectively triggered photothermal particles on shape memory polymer composites: An investigation on structural performance, thermomechanical characteristics and photothermal behaviour. Journal of Intelligent Material Systems and Structures, 2019, 30, 3124-3135.	2.5	15
10	Development of high temperature electrical conductive polymeric nanocomposite films for aerospace applications. Materials Research Express, 2019, 6, 026422.	1.6	4
11	Use of fiber Bragg grating sensors for monitoring delamination damage propagation in glass-fiber reinforced composite structures. Frontiers of Optoelectronics, 2018, 11, 60-68.	3.7	4
12	Use of an elasto-plastic model and strain measurements of embedded fibre Bragg grating sensors to detect Mode I delamination crack propagation in woven cloth (0/90) composite materials. Structural Health Monitoring, 2018, 17, 363-378.	7.5	13
13	Experimental and theoretical analysis of a smart transmission mechanism system. Smart Materials and Structures, 2018, 27, 095022.	3.5	10
14	Use of Savitzky–Golay Filter for Performances Improvement of SHM Systems Based on Neural Networks and Distributed PZT Sensors. Sensors, 2018, 18, 152.	3.8	27
15	Quantitative and qualitative analyses of mechanical behavior and dimensional stability of styrene-based shape memory composites. Journal of Intelligent Material Systems and Structures, 2017, 28, 3115-3126.	2.5	14
16	Evaluation of the blunt thoracic trauma caused by solid sports ball impacts. Journal of Biomechanical Science and Engineering, 2015, 10, 14-00264-14-00264.	0.3	1
17	CAE Simulation Based Methodology for Airbag Compliant Vehicle Front Protection System Development. International Journal of Vehicle Structures and Systems, 2014, 5, .	0.2	2
18	Development and validation of a thorax surrogate FE model for assessment of trauma due to high speed blunt impacts. Journal of Biomechanical Science and Engineering, 2014, 9, JBSE0008-JBSE0008.	0.3	6

#	Article	IF	Citations
19	Indexing damage using distortion of embedded FBG sensor response spectra. , 2013, , .		0
20	Extraction and processing of real time strain of embedded FBG sensors using a fixed filter FBG circuit and an artificial neural network. Measurement: Journal of the International Measurement Confederation, 2013, 46, 4045-4051.	5.0	21
21	Estimation of strain of distorted FBG sensor spectra using a fixed FBGfilter circuit and an artificial neural network. , 2013, , .		3
22	Use of FBG sensors in SHM of aerospace structures. Proceedings of SPIE, 2012, , .	0.8	1
23	The Response of Embedded NIR (830 nm) Fiber Bragg Grating Sensors in Glass Fiber Composites under Fatigue Loading. Journal of Composite Materials, 2010, 44, 809-819.	2.4	8
24	Preface: Special Issue ofMaterials and Manufacturing Processes: â€œSensors, Actuators, and Intelligent Processingâ€• Materials and Manufacturing Processes, 2010, 25, 211-211.	4.7	4
25	Investigation of embedded near infrared fibre Bragg grating (FBG) sensors (830 nm) in structural health monitoring of glass fibre composite structures. , 2008, , .		0
26	Effects of staticâ€"fatigue (tension) on the tensionâ€"tension fatigue life of glass fibre reinforced plastic composites. Composite Structures, 2006, 74, 419-425.	5.8	22
27	A study on estimation of damage accumulation of glass fibre reinforce plastic (GFRP) composites under a block loading situation. Composite Structures, 2006, 75, 88-92.	5.8	23
28	An experimental investigation of the properties of cross-ply laminate used for manufacturing of small aircraft components. Composite Structures, 2006, 75, 93-99.	5.8	6
29	The development of a fatigue loading spectrum for small wind turbine blades. Journal of Wind Engineering and Industrial Aerodynamics, 2006, 94, 207-223.	3.9	45
30	A new cumulative fatigue damage model for glass fibre reinforced plastic composites under step/discrete loading. Composites Part A: Applied Science and Manufacturing, 2005, 36, 1236-1245.	7.6	45
31	An empirical model for fatigue behavior prediction of glass fibre-reinforced plastic composites for various stress ratios and test frequencies. Composites Part A: Applied Science and Manufacturing, 2003, 34, 313-326.	7.6	168