

# Jayantha A Epaarachchi

## List of Publications by Year in descending order

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Version: 2024-02-01

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	An empirical model for fatigue behavior prediction of glass fibre-reinforced plastic composites for various stress ratios and test frequencies. <i>Composites Part A: Applied Science and Manufacturing</i> , 2003, 34, 313-326.	7.6	168
2	Light activated shape memory polymers and composites: A review. <i>European Polymer Journal</i> , 2020, 136, 109912.	5.4	89
3	A new cumulative fatigue damage model for glass fibre reinforced plastic composites under step/discrete loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 1236-1245.	7.6	45
4	The development of a fatigue loading spectrum for small wind turbine blades. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2006, 94, 207-223.	3.9	45
5	Use of Savitzky-Golay Filter for Performances Improvement of SHM Systems Based on Neural Networks and Distributed PZT Sensors. <i>Sensors</i> , 2018, 18, 152.	3.8	27
6	A study on estimation of damage accumulation of glass fibre reinforce plastic (GFRP) composites under a block loading situation. <i>Composite Structures</i> , 2006, 75, 88-92.	5.8	23
7	Effects of static-fatigue (tension) on the tension-tension fatigue life of glass fibre reinforced plastic composites. <i>Composite Structures</i> , 2006, 74, 419-425.	5.8	22
8	Extraction and processing of real time strain of embedded FBG sensors using a fixed filter FBG circuit and an artificial neural network. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 4045-4051.	5.0	21
9	Effects of selectively triggered photothermal particles on shape memory polymer composites: An investigation on structural performance, thermomechanical characteristics and photothermal behaviour. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 3124-3135.	2.5	15
10	Quantitative and qualitative analyses of mechanical behavior and dimensional stability of styrene-based shape memory composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 3115-3126.	2.5	14
11	Remote actuation of light activated shape memory polymers via D-shaped optical fibres. <i>Smart Materials and Structures</i> , 2020, 29, 047001.	3.5	14
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. <i>Structural Health Monitoring</i> , 2018, 17, 363-378.	7.5	13
13	Experimental and theoretical analysis of a smart transmission mechanism system. <i>Smart Materials and Structures</i> , 2018, 27, 095022.	3.5	10
14	The Response of Embedded NIR (830 nm) Fiber Bragg Grating Sensors in Glass Fiber Composites under Fatigue Loading. <i>Journal of Composite Materials</i> , 2010, 44, 809-819.	2.4	8
15	An experimental investigation of the properties of cross-ply laminate used for manufacturing of small aircraft components. <i>Composite Structures</i> , 2006, 75, 93-99.	5.8	6
16	Development and validation of a thorax surrogate FE model for assessment of trauma due to high speed blunt impacts. <i>Journal of Biomechanical Science and Engineering</i> , 2014, 9, JBSE0008-JBSE0008.	0.3	6
17	Manufacture of luminescent shape-memory polymer composites using rare earth organic complex and commercial carboxylated nitrile rubber. <i>Polymer Composites</i> , 2020, 41, 3732-3747.	4.6	5
18	Distributed sensing based real-time process monitoring of shape memory polymer components. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	5

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19	Preface: Special Issue of Materials and Manufacturing Processes: "Sensors, Actuators, and Intelligent Processing" Materials and Manufacturing Processes, 2010, 25, 211-211.	4.7	4
20	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
21	Development of high temperature electrical conductive polymeric nanocomposite films for aerospace applications. Materials Research Express, 2019, 6, 026422.	1.6	4
22	Shape memory polymer composites and their smart structural applications. , 2021, , 581-610.		4
23	Cyanate esters as a high performing shape memory polymer: A review. Materials Today: Proceedings, 2022, 57, 693-700.	1.8	4
24	Estimation of strain of distorted FBG sensor spectra using a fixed FBG filter circuit and an artificial neural network. , 2013, , .		3
25	In-situ Performance Evaluation of Large Shape Memory Polymer Components via Distributed Optical Fibre Sensors. , 2021, , .		3
26	CAE Simulation Based Methodology for Airbag Compliant Vehicle Front Protection System Development. International Journal of Vehicle Structures and Systems, 2014, 5, .	0.2	2
27	Use of FBG sensors in SHM of aerospace structures. Proceedings of SPIE, 2012, , .	0.8	1
28	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
29	Effects of Ligands in Rare Earth Complex on Properties, Functions, and Intelligent Behaviors of Polyurethane Urethane Composites. Polymers, 2022, 14, 2098.	4.5	1
30	Investigation of embedded near infrared fibre Bragg grating (FBG) sensors (830 nm) in structural health monitoring of glass fibre composite structures. , 2008, , .		0
31	Indexing damage using distortion of embedded FBG sensor response spectra. , 2013, , .		0