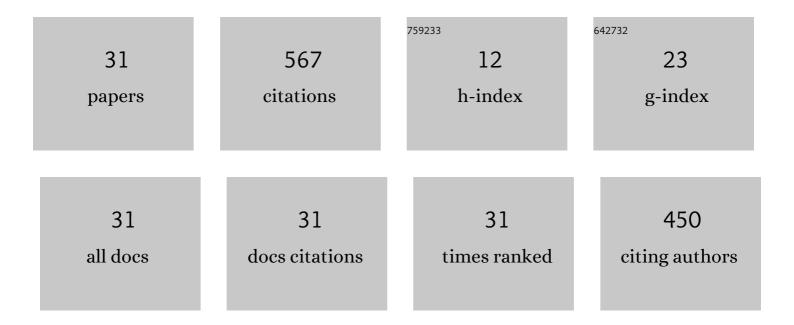
Jayantha A Epaarachchi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Light activated shape memory polymers and composites: A review. European Polymer Journal, 2020, 136, 109912.	5.4	89
3	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
4	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
5	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
6	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
7	Effects of static–fatigue (tension) on the tension–tension fatigue life of glass fibre reinforced plastic composites. Composite Structures, 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. Measurement: Journal of the International Measurement Confederation, 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. Journal of Intelligent Material Systems and Structures, 2019, 30, 3124-3135.	2.5	15
10	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
11	Remote actuation of light activated shape memory polymers via D-shaped optical fibres. Smart Materials and Structures, 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. 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	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
15	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
16	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
17	Manufacture of luminescent shapeâ€memory polymer composites using rare earth organic complex and commercial carboxylated nitrile rubber. Polymer Composites, 2020, 41, 3732-3747.	4.6	5
18	Distributed sensing based realâ€ŧime process monitoring of shape memory polymer components. Journal of Applied Polymer Science, 2022, 139, .	2.6	5

#	Article	IF	CITATIONS
19	Preface: Special Issue ofMaterials and Manufacturing Processes: "Sensors, Actuators, and Intelligent Processingâ€: 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 FBGfilter 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 Polyurea–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