

# Mark A Battley

## List of Publications by Year in descending order

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34  
papers

691  
citations

687363

13  
h-index

580821

25  
g-index

34  
all docs

34  
docs citations

34  
times ranked

671  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of cell size and cell wall thickness variations on the stiffness of closed-cell foams. International Journal of Solids and Structures, 2015, 52, 150-164.	2.7	122
2	Experimental hydroelastic characterization of slamming loaded marine panels. Ocean Engineering, 2013, 74, 1-15.	4.3	69
3	Effects of cell size and cell wall thickness variations on the strength of closed-cell foams. International Journal of Engineering Science, 2017, 120, 220-240.	5.0	67
4	Wrinkling of sandwich wide panels/beams based on the extended high-order sandwich panel theory: formulation, comparison with elasticity and experiments. Archive of Applied Mechanics, 2012, 82, 1585-1599.	2.2	50
5	Servo-hydraulic System for Controlled Velocity Water Impact of Marine Sandwich Panels. Experimental Mechanics, 2012, 52, 95-106.	2.0	44
6	Experimental drop test investigation into wetdeck slamming loads on a generic catamaran hullform. Ocean Engineering, 2016, 117, 143-153.	4.3	40
7	Finite element analysis of the compressive and shear responses of structural foams using computed tomography. Composite Structures, 2017, 159, 784-799.	5.8	38
8	Failure mechanisms in composites reinforced with unidirectional Phormium leaf fibre. Composites Part A: Applied Science and Manufacturing, 2010, 41, 353-359.	7.6	31
9	Strength Variability of Inserts in Sandwich Panels. Journal of Sandwich Structures and Materials, 2009, 11, 501-517.	3.5	27
10	Quantification of hydroelasticity in water impacts of flexible composite hull panels. Ocean Engineering, 2015, 100, 117-125.	4.3	23
11	Human-inspired robotic exoskeleton (HuREx) for lower limb rehabilitation. , 2013, , .		22
12	Quantifying variability within glass fibre reinforcements using an automated optical method. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1169-1176.	7.6	19
13	Validation of an efficient method of assigning material properties in finite element analysis of pelvic bone. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1495-1499.	1.6	18
14	Wetdeck slamming loads on a developed catamaran hullform " experimental investigation. Ships and Offshore Structures, 2017, 12, 653-661.	1.9	16
15	Compressive and shear strengths of the ductile closed-cell Kelvin and Weaire-Phelan foams along the lattice direction [100]. Thin-Walled Structures, 2018, 132, 237-249.	5.3	14
16	Energy loss in a unidirectional flax-polyester composite subjected to multiple tensile load"unload cycles. Journal of Materials Science, 2012, 47, 1164-1170.	3.7	12
17	Response of Honeycombs Subjected to In-Plane Shear. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	2.2	10
18	A comparison of mechanical properties and X-ray tomography analysis of different out-of-autoclave manufactured thermoplastic composites. Journal of Reinforced Plastics and Composites, 2020, 39, 703-720.	3.1	10

#	ARTICLE	IF	CITATIONS
19	Estimation of random field material properties for chopped fibre composites and application to vibration modelling. <i>Composite Structures</i> , 2015, 125, 1-12.	5.8	8
20	Estimation of transverse shear force during slamming impacts on a simply supported composite panel using a strain derivative method. <i>Composite Structures</i> , 2016, 153, 42-49.	5.8	8
21	Characterization of Ductile Core Materials. <i>Journal of Sandwich Structures and Materials</i> , 2010, 12, 237-252.	3.5	7
22	Shear strength of sandwich core materials subjected to loading rates relevant to water slamming. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 506-513.	3.1	7
23	Experimental method for dynamic residual strength characterisation of aircraft sandwich structures. <i>International Journal of Crashworthiness</i> , 2013, 18, 64-81.	1.9	6
24	Acoustic Emission Monitoring of Foam Core Sandwich Composites. <i>Journal of Sandwich Structures and Materials</i> , 1999, 1, 147-175.	3.5	5
25	Influence of dissolved gasses in epoxy resin on resin infusion part quality. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105818.	7.6	5
26	Core failure in sandwich structures subjected to water slamming loads. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 1751-1772.	3.5	3
27	Moisture sensitivity and compressive performance of 3D-printed cellulose-biopolyester foam lattices. <i>Additive Manufacturing</i> , 2021, 40, 101918.	3.0	3
28	Measurement and Analysis System for Bicycle Field Test Studies. <i>Procedia Engineering</i> , 2014, 72, 350-355.	1.2	2
29	Characterisation of fluid-structure interaction for water impact of composite panels. <i>International Journal of Multiphysics</i> , 2012, 6, 283-304.	0.1	2
30	Structural Responses on a BMX Racing Bicycle. <i>Procedia Engineering</i> , 2014, 72, 618-623.	1.2	1
31	Experimental study on in-plane compressive response of irregular honeycombs. <i>Journal of Composite Materials</i> , 2018, 52, 1121-1135.	2.4	1
32	Characterization of microstructures of SAN foam core using micro-computed tomography. <i>Frontiers in Forests and Global Change</i> , 2021, 40, 143-164.	1.1	1
33	Dynamic Damage Tolerance for Aircraft Sandwich Structures: Experiments and Modeling. , 2011, , .		0
34	Damage assessment of carbon-epoxy composites with and without resin flow channels. <i>Composite Structures</i> , 2019, 211, 213-220.	5.8	0