

# Michael A Mccarthy

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73 papers	2,986 citations	32 h-index	53 g-index
77 ext. papers	3,285 ext. citations	5 avg, IF	5.18 L-index

#	Paper	IF	Citations
73	PET interleaving veils for improved fracture toughness of glass fibre/low-styrene-emission unsaturated polyester resin composites. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	9
72	Potential routes to stronger carbon nanotube fibres via carbon ion irradiation and deposition. <i>Carbon</i> , <b>2016</b> , 96, 1138-1156	10.4	6
71	A three dimensional implicit finite element damage model and its application to single-lap multi-bolt composite joints with variable clearance. <i>Composite Structures</i> , <b>2015</b> , 131, 1060-1072	5.3	46
70	Finite element analysis of catastrophic failure of dynamically-loaded countersunk composite fuselage joints. <i>Composite Structures</i> , <b>2015</b> , 133, 1198-1208	5.3	6
69	Design and failure analysis of composite bolted joints for aerospace composites <b>2015</b> , 295-334		2
68	Toughening effects of interleaved nylon veils on glass fabric/low-styrene-emission unsaturated polyester resin composites. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	5
67	Mechanical characterisation of carbon fibre/PEEK manufactured by laser-assisted automated-tape-placement and autoclave. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2015</b> , 69, 10-20	8.4	104
66	Nonlocal normal modes in nanoscale dynamical systems. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 60-61, 583-603	7.8	19
65	Modelling bearing failure in countersunk composite joints under quasi-static loading using 3D explicit finite element analysis. <i>Composite Structures</i> , <b>2014</b> , 108, 963-977	5.3	50
64	Pullout of rough multiwall carbon nanotubes: A parametric study. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2014</b> , 56, 93-102	8.4	9
63	Frequency domain analysis of nonlocal rods embedded in an elastic medium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2014</b> , 59, 33-40	3	42
62	A study of intra-laminar damage in double-lap, multi-bolt, composite joints with variable clearance using continuum damage mechanics. <i>Composite Structures</i> , <b>2014</b> , 116, 441-452	5.3	32
61	Fracture toughness of carbon fiber/polyether ether ketone composites manufactured by autoclave and laser-assisted automated tape placement. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 132, n/a-n/a	2.9	10
60	Axial Vibration of Embedded Nanorods Under Transverse Magnetic Field Effects via Nonlocal Elastic Continuum Theory. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2014</b> , 11, 1230-1236	0.3	19
59	Numerical method to control high levels of damage growth using an implicit finite element solver applied to notched cross-ply laminates. <i>Composite Structures</i> , <b>2014</b> , 110, 51-61	5.3	5
58	Improved Mechanical Performance of CNTs and CNT Fibres in Nanocomposites Through Inter-Wall and Inter-Tube Coupling. <i>Springer Series in Materials Science</i> , <b>2014</b> , 1-56	0.9	2
57	A theoretical quantification of the possible improvement in the mechanical properties of carbon nanotube bundles by carbon ion irradiation. <i>Carbon</i> , <b>2013</b> , 53, 346-356	10.4	21

56	Static and high-rate loading of single and multi-bolt carbon/epoxy aircraft fuselage joints. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 53, 97-108	8.4	44
55	Dynamic finite element analysis of axially vibrating nonlocal rods. <i>Finite Elements in Analysis and Design</i> , <b>2013</b> , 63, 42-50	2.2	57
54	Improved inter-tube coupling in CNT bundles through carbon ion irradiation. <i>Carbon</i> , <b>2013</b> , 51, 173-184	10.4	32
53	In-plane magnetic field affected transverse vibration of embedded single-layer graphene sheets using equivalent nonlocal elasticity approach. <i>Composite Structures</i> , <b>2013</b> , 96, 57-63	5.3	96
52	A model of strength. <i>Science</i> , <b>2013</b> , 342, 192-3	33.3	
51	Vibration response of double-walled carbon nanotubes subjected to an externally applied longitudinal magnetic field: A nonlocal elasticity approach. <i>Journal of Sound and Vibration</i> , <b>2012</b> , 331, 5069-5086	3.9	123
50	Nonlocal elasticity based magnetic field affected vibration response of double single-walled carbon nanotube systems. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 113511	2.5	34
49	Modelling a single-bolt countersunk composite joint using implicit and explicit finite element analysis. <i>Computational Materials Science</i> , <b>2012</b> , 64, 203-208	3.2	43
48	Effects of Shear-Transverse Coupling and Plasticity in the Formulation of an Elementary Ply Composites Damage Model, Part I: Model Formulation and Validation. <i>Strain</i> , <b>2012</b> , 48, 49-58	1.7	6
47	Effects of Shear-Transverse Coupling and Plasticity in the Formulation of an Elementary Ply Composites Damage Model, Part II: Material Characterisation. <i>Strain</i> , <b>2012</b> , 48, 59-67	1.7	2
46	Stress analysis of single-bolt, single-lap, countersunk composite joints with variable bolt-hole clearance. <i>Composite Structures</i> , <b>2012</b> , 94, 1038-1051	5.3	79
45	Identification of Damage and Plasticity Parameters for Continuum Damage Mechanics Modelling of Carbon and Glass Fibre-Reinforced Composite Materials. <i>Strain</i> , <b>2011</b> , 47, 105-115	1.7	24
44	Simulating damage and delamination in fibre metal laminate joints using a three-dimensional damage model with cohesive elements and damage regularisation. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 1225-1235	8.6	42
43	Predicting the effects of geometry on the behaviour of fibre metal laminate joints. <i>Composite Structures</i> , <b>2011</b> , 93, 1877-1889	5.3	20
42	Composite joints and connections <b>2011</b> ,		13
41	Optimizing load transfer in multiwall nanotubes through interwall coupling: Theory and simulation. <i>Acta Materialia</i> , <b>2010</b> , 58, 6324-6333	8.4	22
40	Multiwall nanotubes can be stronger than single wall nanotubes and implications for nanocomposite design. <i>Physical Review Letters</i> , <b>2009</b> , 103, 045502	7.4	69
39	Two-dimensional stress analysis of functionally graded solids using the MLPG method with radial basis functions. <i>Computational Materials Science</i> , <b>2008</b> , 41, 467-481	3.2	29

38	Analysis of thick composite laminates using a higher-order shear and normal deformable plate theory (HOSNDPT) and a meshless method. <i>Composites Part B: Engineering</i> , <b>2008</b> , 39, 414-427	10	69
37	Comparison of open hole tension characteristics of high strength glass and carbon fibre-reinforced composite materials. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 2770-2778	8.6	101
36	A comparative study of the pin-bearing responses of two glass-based fibre metal laminates. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 3314-3321	8.6	16
35	An experimental investigation into the progression of damage in pin-loaded fibre metal laminates. <i>Composites Part B: Engineering</i> , <b>2008</b> , 39, 907-925	10	39
34	Analysis of thick plates by using a higher-order shear and normal deformable plate theory and MLPG method with radial basis functions. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2007</b> , 196, 979-987	5.7	28
33	Analysis of thick functionally graded plates by using higher-order shear and normal deformable plate theory and MLPG method with radial basis functions. <i>Composite Structures</i> , <b>2007</b> , 80, 539-552	5.3	106
32	The Development of a Continuum Damage Model for Fibre Metal Laminate Structures <b>2006</b> , 365-365		
31	A simple method for determining the effects of bolt-hole clearance on load distribution in single-column multi-bolt composite joints. <i>Composite Structures</i> , <b>2006</b> , 73, 78-87	5.3	99
30	Modelling bird impacts on an aircraft wing [Part 1: Material modelling of the fibre metal laminate leading edge material with continuum damage mechanics. <i>International Journal of Crashworthiness</i> , <b>2005</b> , 10, 41-49	1	16
29	Experiences with Modeling Friction in Composite Bolted Joints. <i>Journal of Composite Materials</i> , <b>2005</b> , 39, 1881-1908	2.7	60
28	Progressive damage analysis of multi-bolt composite joints with variable bolt-hole clearances. <i>Composites Part B: Engineering</i> , <b>2005</b> , 36, 290-305	10	158
27	Three-dimensional finite element analysis of single-bolt, single-lap composite bolted joints: Part II Effects of bolt-hole clearance. <i>Composite Structures</i> , <b>2005</b> , 71, 159-175	5.3	119
26	Three-dimensional finite element analysis of single-bolt, single-lap composite bolted joints: part I Model development and validation. <i>Composite Structures</i> , <b>2005</b> , 71, 140-158	5.3	162
25	An experimental study of bolt-hole clearance effects in double-lap, multi-bolt composite joints. <i>Composite Structures</i> , <b>2005</b> , 71, 176-190	5.3	82
24	Measurement of Bolt Pre-load in Torqued Composite Joints. <i>Strain</i> , <b>2005</b> , 41, 109-112	1.7	10
23	An Experimental Study of Bolt-Hole Clearance Effects in Single-lap, Multibolt Composite Joints. <i>Journal of Composite Materials</i> , <b>2005</b> , 39, 799-825	2.7	47
22	Predicting Failure in Multi-Bolt Composite Joints Using Finite Element Analysis and Bearing-Bypass Diagrams. <i>Key Engineering Materials</i> , <b>2005</b> , 293-294, 591-598	0.4	11
21	Modelling bird impacts on an aircraft wing [Part 2: Modelling the impact with an SPH bird model. <i>International Journal of Crashworthiness</i> , <b>2005</b> , 10, 51-59	1	32

20	Effects of Variable Clearance in Multi-Bolt Composite Joints. <i>Advanced Composites Letters</i> , <b>2004</b> , 13, 096369350401300	1.2	2
19	Modelling of Bird Strike on an Aircraft Wing Leading Edge Made from Fibre Metal Laminates [Part 1: Material Modelling. <i>Applied Composite Materials</i> , <b>2004</b> , 11, 295-315	2	46
18	Modelling of Bird Strike on an Aircraft Wing Leading Edge Made from Fibre Metal Laminates [Part 2: Modelling of Impact with SPH Bird Model. <i>Applied Composite Materials</i> , <b>2004</b> , 11, 317-340	2	124
17	Experimental and Numerical Study of the Open-Hole Tensile Strength of Carbon/Epoxy Composites. <i>Mechanics of Composite Materials</i> , <b>2004</b> , 40, 269-278	1.1	25
16	The influence of hot deformation on the exfoliation corrosion behaviour of aluminium alloy 2025. <i>Journal of Materials Processing Technology</i> , <b>2004</b> , 153-154, 185-192	5.3	5
15	Finite element analysis of effects of clearance on single shear composite bolted joints. <i>Plastics, Rubber and Composites</i> , <b>2003</b> , 32, 65-70	1.5	37
14	A local Heaviside weighted meshless method for two-dimensional solids using radial basis functions. <i>Computational Mechanics</i> , <b>2003</b> , 31, 301-315	4	39
13	Meshless analysis of Timoshenko beams based on a locking-free formulation and variational approaches. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2003</b> , 192, 4403-4424	5.7	10
12	Meshless analysis of the obstacle problem for beams by the MLPG method and subdomain variational formulations. <i>European Journal of Mechanics, A/Solids</i> , <b>2003</b> , 22, 385-399	3.7	11
11	On the use of radial basis functions in a local weighted meshless method <b>2003</b> , 2182-2185		1
10	Bolt-hole clearance effects and strength criteria in single-bolt, single-lap, composite bolted joints. <i>Composites Science and Technology</i> , <b>2002</b> , 62, 1415-1431	8.6	152
9	The Influence of Processing and Microstructural Parameters on the Exfoliation Corrosion Susceptibility of 2025. <i>Materials Science Forum</i> , <b>2002</b> , 396-402, 1419-1424	0.4	2
8	Characterisation of damage development in single shear bolted composite joints. <i>Plastics, Rubber and Composites</i> , <b>2002</b> , 31, 126-133	1.5	28
7	Experimental study on effects of clearance on single bolt, single shear, composite bolted joints. <i>Plastics, Rubber and Composites</i> , <b>2002</b> , 31, 405-411	1.5	16
6	Measurement of load distribution in multibolt composite joints, in presence of varying clearance. <i>Plastics, Rubber and Composites</i> , <b>2002</b> , 31, 412-418	1.5	17
5	BOLJAT: a tool for designing composite bolted joints using three-dimensional finite element analysis. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2002</b> , 33, 1573-1584	8.4	25
4	Numerical investigation of a crash test of a composite helicopter subfloor structure. <i>Composite Structures</i> , <b>2001</b> , 51, 345-359	5.3	66
3	Analytic integration of kernel shape function product integrals in the boundary element method. <i>Computers and Structures</i> , <b>2001</b> , 79, 1325-1333	4.5	40

2	BOJCAS: bolted joints in composite aircraft structures. <i>Air &amp; Space Europe</i> , <b>2001</b> , 3, 139-142	40
1	Finite element modelling of crash response of composite aerospace sub-floor structures. <i>Computational Mechanics</i> , <b>2000</b> , 26, 250-258	4 23