

# Michael A Mccarthy

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4927580/michael-a-mccarthy-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
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	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	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
59	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
58	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
57	Experiences with Modeling Friction in Composite Bolted Joints. <i>Journal of Composite Materials</i> , <b>2005</b> , 39, 1881-1908	2.7	60

56	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
55	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
54	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
53	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
52	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
51	Static and high-rate loading of single and multi-bolt carbon-fibre aircraft fuselage joints. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2013</b> , 53, 97-108	8.4	44
50	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
49	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
48	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
47	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
46	BOJCAS: bolted joints in composite aircraft structures. <i>Air &amp; Space Europe</i> , <b>2001</b> , 3, 139-142		40
45	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
44	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
43	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
42	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
41	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
40	Improved inter-tube coupling in CNT bundles through carbon ion irradiation. <i>Carbon</i> , <b>2013</b> , 51, 173-184	10.4	32
39	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

38	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
37	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
36	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
35	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
34	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
33	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
32	Finite element modelling of crash response of composite aerospace sub-floor structures. <i>Computational Mechanics</i> , <b>2000</b> , 26, 250-258	4	23
31	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
30	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
29	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
28	Nonlocal normal modes in nanoscale dynamical systems. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 60-61, 583-603	7.8	19
27	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
26	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
25	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
24	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
23	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
22	Composite joints and connections <b>2011</b> ,		13
21	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

20	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
19	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
18	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
17	Measurement of Bolt Pre-load in Torqued Composite Joints. <i>Strain</i> , <b>2005</b> , 41, 109-112	1.7	10
16	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
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	Design and failure analysis of composite bolted joints for aerospace composites <b>2015</b> , 295-334		2
7	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
6	Effects of Variable Clearance in Multi-Bolt Composite Joints. <i>Advanced Composites Letters</i> , <b>2004</b> , 13, 096369350401300	1.2	2
5	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
4	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
3	On the use of radial basis functions in a local weighted meshless method <b>2003</b> , 2182-2185		1

2 A model of strength. *Science*, **2013**, 342, 192-3

33.3

1 The Development of a Continuum Damage Model for Fibre Metal Laminate Structures **2006**, 365-365