conor McCarthy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Influence of layup, stacking sequence and loading rate on energy absorption of tension-absorber joints. Composite Structures, 2021, 261, 113327.	5.8	6
2	Service Robots in the Healthcare Sector. Robotics, 2021, 10, 47.	3.5	103
3	An evaluation of the influence of manufacturing methods on interlocked aluminium-thermoplastic composite joint performance. Composites Part A: Applied Science and Manufacturing, 2021, 143, 106281.	7.6	15
4	Blockchain-Empowered Digital Twins Collaboration: Smart Transportation Use Case. Machines, 2021, 9, 193.	2.2	65
5	Quasi-static and dynamic performance of novel interlocked hybrid metal-composite joints. Composite Structures, 2020, 253, 112769.	5.8	18
6	Optimisation of Ultrasonically Welded Joints through Machine Learning. Procedia CIRP, 2020, 93, 527-531.	1.9	12
7	Carbon nanotube embedded adhesives for real-time monitoring of adhesion failure in high performance adhesively bonded joints. Scientific Reports, 2020, 10, 16833.	3.3	21
8	Precursor-Mediated Linear- and Branched-Polytypism Control in Cu _α Zn _β Sn _γ Se _{Ĩ´} Colloidal Nanocrystals Using a Dual-Injection Method. Chemistry of Materials, 2020, 32, 7254-7262.	6.7	7
9	Using finite element analysis to develop a digital twin of a manufacturing bending operation. Procedia CIRP, 2020, 93, 568-574.	1.9	17
10	Mesoscale modelling of extended bearing failure in tension-absorber joints. International Journal of Mechanical Sciences, 2020, 182, 105777.	6.7	7
11	Effects of transient dynamic loading on the energy absorption capability of composite bolted joints undergoing extended bearing failure. Composite Structures, 2020, 247, 112476.	5.8	8
12	Novel finite element for near real-time design decisions in multi-fastener composite bolted joints under various loading rates. Composite Structures, 2020, 240, 112005.	5.8	16
13	Energy absorption capability of composite bolted joints undergoing extended bearing failure. Composite Structures, 2020, 237, 111868.	5.8	11
14	Mechanical performance and failure behaviour of miniature aluminium joints with novel interlocking reinforcement. International Journal of Adhesion and Adhesives, 2019, 95, 102431.	2.9	4
15	Using open-source microcontrollers to enable digital twin communication for smart manufacturing. Procedia Manufacturing, 2019, 38, 1213-1219.	1.9	23
16	Synthesis and Characterization of CuZnSe ₂ Nanocrystals in Wurtzite, Zinc Blende, and Core–Shell Polytypes. Chemistry of Materials, 2019, 31, 10085-10093.	6.7	10
17	Synthesis of Fe3O4 hollow nanospheres-carbon nanotubes nanocomposites for the enhancement of dielectric heating performance. Materials Letters, 2019, 235, 31-34.	2.6	12
18	Bearing damage characteristics of fibre-reinforced countersunk composite bolted joints subjected to quasi-static shear loading. Composite Structures, 2017, 166, 184-192.	5.8	39

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19	A virtual experimental approach to microscale composites testing. Composite Structures, 2017, 171, 1-9.	5.8	29
20	Temperature controlled shape evolution of iron oxide nanostructures in HMTA media. RSC Advances, 2017, 7, 26328-26334.	3.6	8
21	A review of key developments and pertinent issues in nanoindentation testing of fibre reinforced plastic microstructures. Composite Structures, 2017, 180, 782-798.	5.8	61
22	Numerical design and multi-objective optimisation of novel adhesively bonded joints employing interlocking surface morphology. International Journal of Adhesion and Adhesives, 2017, 78, 111-120.	2.9	16
23	An experimental investigation into multi-scale damage progression in laminated composites in bending. Composite Structures, 2016, 149, 33-40.	5.8	41
24	The effects of pile-up, viscoelasticity and hydrostatic stress on polymer matrix nanoindentation. Polymer Testing, 2016, 52, 157-166.	4.8	69
25	Assessment of residual strength of repaired solid laminate composite materials through mechanical testing. Composite Structures, 2016, 147, 122-130.	5.8	33
26	Formation of reworkable nanocomposite adhesives by dielectric heating of epoxy resin embedded Fe ₃ O ₄ hollow spheres. CrystEngComm, 2016, 18, 6096-6101.	2.6	8
27	Development of a novel cyanoacrylate injection repair procedure for composites. Composite Structures, 2016, 153, 1-11.	5.8	16
28	The effect of microscale residual stress from thermal cooldown on the nanoindentation properties of fibre-reinforced composites. Journal of Composite Materials, 2016, 50, 4147-4158.	2.4	9
29	A three dimensional implicit finite element damage model and its application to single-lap multi-bolt composite joints with variable clearance. Composite Structures, 2015, 131, 1060-1072.	5.8	52
30	Finite element analysis of catastrophic failure of dynamically-loaded countersunk composite fuselage joints. Composite Structures, 2015, 133, 1198-1208.	5.8	16
31	Numerical analysis of low-velocity rigid-body impact response of composite panels. International Journal of Crashworthiness, 2015, 20, 27-43.	1.9	30
32	Fibrous composite matrix characterisation using nanoindentation: The effect of fibre constraint and the evolution from bulk to in-situ matrix properties. Composites Part A: Applied Science and Manufacturing, 2015, 68, 296-303.	7.6	51
33	Numerical micromechanical investigation of interfacial strength parameters in a carbon fibre composite material. Journal of Composite Materials, 2014, 48, 749-760.	2.4	19
34	Numerical method to control high levels of damage growth using an implicit finite element solver applied to notched cross-ply laminates. Composite Structures, 2014, 110, 51-61.	5.8	6
35	Effect of thickness and laminate taper on the stiffness, strength and secondary bending of single-lap, single-bolt countersunk composite joints. Composite Structures, 2014, 107, 315-324.	5.8	41
36	An experimental/numerical investigation into the main driving force for crack propagation in uni-directional fibre-reinforced composite laminae. Composite Structures, 2014, 107, 119-130.	5.8	81

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37	Modelling bearing failure in countersunk composite joints under quasi-static loading using 3D explicit finite element analysis. Composite Structures, 2014, 108, 963-977.	5.8	72
38	In-situ SEM study of transverse cracking and delamination in laminated composite materials. Composites Science and Technology, 2014, 105, 118-126.	7.8	58
39	In-situ SEM mechanical testing of miniature bonded joints. International Journal of Adhesion and Adhesives, 2014, 50, 57-64.	2.9	6
40	Effects of laminate thickness, tapering and missing fasteners on the mechanical behaviour of single-lap, multi-bolt, countersunk composite joints. Composite Structures, 2014, 107, 219-230.	5.8	29
41	An analytical model for strength prediction in multi-bolt composite joints at various loading rates. Composite Structures, 2014, 116, 300-310.	5.8	33
42	A study of intra-laminar damage in double-lap, multi-bolt, composite joints with variable clearance using continuum damage mechanics. Composite Structures, 2014, 116, 441-452.	5.8	41
43	Static and high-rate loading of single and multi-bolt carbon–epoxy aircraft fuselage joints. Composites Part A: Applied Science and Manufacturing, 2013, 53, 97-108.	7.6	60
44	Taguchi analysis of bonded composite single-lap joints using a combined interface–adhesive damage model. International Journal of Adhesion and Adhesives, 2013, 40, 168-178.	2.9	44
45	Micromechanical investigation of damage processes at composite-adhesive interfaces. Composites Science and Technology, 2013, 86, 61-69.	7.8	18
46	A three-scale finite element investigation into the effects of tissue mineralisation and lamellar organisation in human cortical and trabecular bone. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 12, 50-62.	3.1	66
47	Modelling a single-bolt countersunk composite joint using implicit and explicit finite element analysis. Computational Materials Science, 2012, 64, 203-208.	3.0	57
48	Investigation of strain hardening effects under in-plane shear of unidirectional composite materials. Computational Materials Science, 2012, 64, 179-182.	3.0	10
49	The effect of fibre constraint in the nanoindentation of fibrous composite microstructures: A finite element investigation. Computational Materials Science, 2012, 64, 162-167.	3.0	29
50	COMM Toolbox: A MATLAB toolbox for micromechanical analysis of composite materials. Journal of Composite Materials, 2012, 46, 1715-1729.	2.4	4
51	Effects of Shearâ€Transverse Coupling and Plasticity in the Formulation of an Elementary Ply Composites Damage Model, Part I: Model Formulation and Validation. Strain, 2012, 48, 49-58.	2.4	6
52	Effects of Shearâ€Transverse Coupling and Plasticity in the Formulation of an Elementary Ply Composites Damage Model, Part II: Material Characterisation. Strain, 2012, 48, 59-67.	2.4	3
53	Stress analysis of single-bolt, single-lap, countersunk composite joints with variable bolt-hole clearance. Composite Structures, 2012, 94, 1038-1051.	5.8	97
54	An analytical model for the prediction of through-thickness stiffness in tension-loaded composite bolted joints. Composite Structures, 2012, 94, 2450-2459.	5.8	43

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55	A micromechanical study on the effect of intra-ply properties on transverse shear fracture in fibre reinforced composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1217-1228.	7.6	78
56	A highly efficient user-defined finite element for load distribution analysis of large-scale bolted composite structures. Composites Science and Technology, 2011, 71, 1517-1517.	7.8	65
57	Micromechanical modelling of the transverse damage behaviour in fibre reinforced composites. Composites Science and Technology, 2011, 71, 388-396.	7.8	280
58	Simulating damage and delamination in fibre metal laminate joints using a three-dimensional damage model with cohesive elements and damage regularisation. Composites Science and Technology, 2011, 71, 1225-1235.	7.8	49
59	An analytical model for the prediction of load distribution in highly torqued multi-bolt composite joints. Composite Structures, 2011, 93, 287-298.	5.8	116
60	Predicting the effects of geometry on the behaviour of fibre metal laminate joints. Composite Structures, 2011, 93, 1877-1889.	5.8	21
61	A combined experimental–numerical approach for generating statistically equivalent fibre distributions for high strength laminated composite materials. Composites Science and Technology, 2010, 70, 291-297.	7.8	176
62	On the sharpness of straight edge blades in cutting soft solids: Part II – Analysis of blade geometry. Engineering Fracture Mechanics, 2010, 77, 437-451.	4.3	87
63	A cubic spline implementation of non-linear shear behaviour in three-dimensional progressive damage models for composite laminates. Composite Structures, 2010, 92, 173-181.	5.8	51
64	Comparison of open hole tension characteristics of high strength glass and carbon fibre-reinforced composite materials. Composites Science and Technology, 2008, 68, 2770-2778.	7.8	126
65	A comparative study of the pin-bearing responses of two glass-based fibre metal laminates. Composites Science and Technology, 2008, 68, 3314-3321.	7.8	17
66	On the sharpness of straight edge blades in cutting soft solids: Part I – indentation experiments. Engineering Fracture Mechanics, 2007, 74, 2205-2224.	4.3	117
67	A simple method for determining the effects of bolt–hole clearance on load distribution in single-column multi-bolt composite joints. Composite Structures, 2006, 73, 78-87.	5.8	119
68	Three-dimensional finite element analysis of single-bolt, single-lap composite bolted joints: Part II––effects of bolt-hole clearance. Composite Structures, 2005, 71, 159-175.	5.8	140
69	Three-dimensional finite element analysis of single-bolt, single-lap composite bolted joints: part I—model development and validation. Composite Structures, 2005, 71, 140-158.	5.8	197
70	Modelling bird impacts on an aircraft wing – Part 2: Modelling the impact with an SPH bird model. International Journal of Crashworthiness, 2005, 10, 51-59.	1.9	38
71	Experiences with Modeling Friction in Composite Bolted Joints. Journal of Composite Materials, 2005, 39, 1881-1908.	2.4	81
72	Modelling of Bird Strike on an Aircraft Wing Leading Edge Made from Fibre Metal Laminates – Part 2: Modelling of Impact with SPH Bird Model. Applied Composite Materials, 2004, 11, 317-340.	2.5	151

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73	Experimental and Numerical Study of the Open-Hole Tensile Strength of Carbon/Epoxy Composites. Mechanics of Composite Materials, 2004, 40, 269-278.	1.4	30
74	BOLJAT: a tool for designing composite bolted joints using three-dimensional finite element analysis. Composites Part A: Applied Science and Manufacturing, 2002, 33, 1573-1584.	7.6	25
75	Bolt-hole clearance effects and strength criteria in single-bolt, single-lap, composite bolted joints. Composites Science and Technology, 2002, 62, 1415-1431.	7.8	193