

# Rhys Jones

## List of Publications by Year in descending order

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334  
papers

6,698  
citations

61984

43  
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114465

63  
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338  
all docs

338  
docs citations

338  
times ranked

2471  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of impactor shape on the impact response of composite laminates. <i>Composite Structures</i> , 2005, 67, 139-148.	5.8	153
2	An experimental evaluation of fatigue crack growth. <i>Engineering Failure Analysis</i> , 2005, 12, 99-128.	4.0	140
3	Fatigue crack growth and damage tolerance. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014, 37, 463-483.	3.4	137
4	Thermoelastic constant or thermoelastic parameter?. <i>Journal of Physics and Chemistry of Solids</i> , 1987, 48, 749-753.	4.0	130
5	Repair of mirage III aircraft using the BFRP crack-patching technique. <i>Theoretical and Applied Fracture Mechanics</i> , 1984, 2, 1-15.	4.7	129
6	Damage tolerance of graphite/epoxy composites. <i>Composite Structures</i> , 1985, 4, 15-44.	5.8	129
7	The response of composite structures with pre-stress subject to low velocity impact damage. <i>Composite Structures</i> , 2004, 66, 685-698.	5.8	113
8	Low-velocity impacts on preloaded GFRP specimens with various impactor shapes. <i>Composite Structures</i> , 2006, 76, 209-217.	5.8	109
9	Application of the Hartman-Schijve equation to represent Mode I and Mode II fatigue delamination growth in composites. <i>Composite Structures</i> , 2012, 94, 1343-1351.	5.8	106
10	Finite Element Analysis of Patched Cracks. <i>Journal of Structural Mechanics</i> , 1979, 7, 107-130.	0.6	105
11	The Vlasov foundation model. <i>International Journal of Mechanical Sciences</i> , 1977, 19, 317-323.	6.7	96
12	Composite repairs to cracks in thick metallic components. <i>Composite Structures</i> , 1999, 44, 17-29.	5.8	87
13	Multiple-site and widespread fatigue damage in aging aircraft. <i>Engineering Failure Analysis</i> , 1997, 4, 237-257.	4.0	86
14	Fatigue crack growth in a diverse range of materials. <i>International Journal of Fatigue</i> , 2012, 40, 43-50.	5.7	86
15	The effect of size on the quantitative estimation of defect depth in steel structures using lock-in thermography. <i>Journal of Applied Physics</i> , 2007, 101, 104907.	2.5	85
16	Health monitoring of composite repairs and joints using optical fibres. <i>Composite Structures</i> , 2002, 58, 397-403.	5.8	76
17	Mode I, II and Mixed Mode I/II delamination growth in composites. <i>Composite Structures</i> , 2014, 110, 317-324.	5.8	75
18	Cyclic-fatigue crack growth in composite and adhesively-bonded structures: The FAA slow crack growth approach to certification and the problem of similitude. <i>International Journal of Fatigue</i> , 2016, 88, 10-18.	5.7	75

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19	Piezomagnetic and piezoelectric poling effects on mode I and II crack initiation behavior of magnetoelastoelectric materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2003, 40, 161-186.	4.7	72
20	Composite repairs to rib stiffened panels. <i>Composite Structures</i> , 1999, 47, 737-743.	5.8	70
21	Recent developments in fatigue crack growth assessment. <i>International Journal of Fatigue</i> , 2006, 28, 1759-1768.	5.7	68
22	Crack growth of physically small cracks. <i>International Journal of Fatigue</i> , 2007, 29, 1658-1667.	5.7	68
23	A convenient way to represent fatigue crack growth in structural adhesives. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 379-391.	3.4	66
24	Delamination growth in polymer-matrix fibre composites and the use of fracture mechanics data for material characterisation and life prediction. <i>Composite Structures</i> , 2017, 180, 316-333.	5.8	66
25	Optical fibre sensors for health monitoring of bonded repair systems. <i>Composite Structures</i> , 2000, 50, 405-416.	5.8	62
26	Application of the extended Kantorovich method to the vibration of clamped rectangular plates. <i>Journal of Sound and Vibration</i> , 1976, 45, 309-316.	3.9	61
27	Under- and over-reinforced concrete beams with glued steel plates. <i>International Journal of Cement Composites and Lightweight Concrete</i> , 1982, 4, 19-32.	0.2	61
28	Representing crack growth in additively manufactured Ti-6Al-4V. <i>International Journal of Fatigue</i> , 2018, 116, 610-622.	5.7	59
29	Design of an all boron/epoxy doubler reinforcement for the F-111C wing pivot fitting: Structural aspects. <i>Composite Structures</i> , 1989, 11, 57-83.	5.8	58
30	On the Glinka and Neuber methods for calculating notch tip strains under cyclic load spectra. <i>International Journal of Fatigue</i> , 2000, 22, 743-755.	5.7	56
31	NDTE using pulse thermography: Numerical modeling of composite subsurface defects. <i>Composite Structures</i> , 2006, 75, 241-249.	5.8	54
32	Calculating crack growth from small discontinuities in 7050-T7451 under combat aircraft spectra. <i>International Journal of Fatigue</i> , 2013, 55, 178-182.	5.7	54
33	Thermography as a tool for damage assessment. <i>Composite Structures</i> , 2005, 67, 149-155.	5.8	53
34	A design study in crack patching. <i>Fibre Science and Technology</i> , 1981, 14, 99-111.	0.2	51
35	Similitude and the Paris crack growth law. <i>International Journal of Fatigue</i> , 2008, 30, 1873-1880.	5.7	51
36	Additively manufactured Ti-6Al-4V replacement parts for military aircraft. <i>International Journal of Fatigue</i> , 2019, 124, 227-235.	5.7	51

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37	Analysis of multi-layer laminates using three-dimensional super-elements. <i>International Journal for Numerical Methods in Engineering</i> , 1984, 20, 583-587.	2.8	50
38	Study of multi-site damage of fuselage lap joints. <i>Theoretical and Applied Fracture Mechanics</i> , 1999, 32, 81-100.	4.7	49
39	Weight functions, CTOD, and related solutions for cracks at notches. <i>Engineering Failure Analysis</i> , 2004, 11, 79-114.	4.0	49
40	Evaluation of trajectories and contact pressures for the straight nucleus cochlear implant electrode array – a two-dimensional application of finite element analysis. <i>Medical Engineering and Physics</i> , 2003, 25, 141-147.	1.7	48
41	On the use of supersonic particle deposition to restore the structural integrity of damaged aircraft structures. <i>International Journal of Fatigue</i> , 2011, 33, 1257-1267.	5.7	47
42	The influence of cyclic stress intensity threshold on fatigue life scatter. <i>International Journal of Fatigue</i> , 2016, 82, 748-756.	5.7	44
43	Development of life extension strategies for Australian military aircraft, using structural health monitoring of composite repairs and joints. <i>Composite Structures</i> , 2004, 66, 133-143.	5.8	43
44	Crack Growth in a Range of Additively Manufactured Aerospace Structural Materials. <i>Aerospace</i> , 2018, 5, 118.	2.2	43
45	Unified constitutive model for thermoset adhesive, FM73. <i>International Journal of Adhesion and Adhesives</i> , 1995, 15, 131-136.	2.9	40
46	Stiffness properties for Nucleus standard straight and contour electrode arrays. <i>Medical Engineering and Physics</i> , 2004, 26, 677-685.	1.7	40
47	Modelling of the lock-in thermography process through finite element method for estimating the rail squat defects. <i>Engineering Failure Analysis</i> , 2013, 28, 275-288.	4.0	40
48	Crack growth: Does microstructure play a role?. <i>Engineering Fracture Mechanics</i> , 2018, 187, 190-210.	4.3	40
49	Evaluation of spectrum fatigue crack growth using variable amplitude data. <i>International Journal of Fatigue</i> , 2008, 30, 119-137.	5.7	39
50	Analysis of bonded repairs to damaged fibre composite structures. <i>Engineering Fracture Mechanics</i> , 1983, 17, 37-46.	4.3	38
51	A numerical study of adhesively bonded lap joints. <i>International Journal of Adhesion and Adhesives</i> , 1992, 12, 219-225.	2.9	38
52	Designing for damage tolerant bonded joints. <i>Composite Structures</i> , 1993, 25, 201-207.	5.8	38
53	Supersonic particle deposition as a means for enhancing the structural integrity of aircraft structures. <i>International Journal of Fatigue</i> , 2014, 68, 260-268.	5.7	38
54	Understanding crack growth in fuselage lap joints. <i>Theoretical and Applied Fracture Mechanics</i> , 2008, 49, 38-50.	4.7	37

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55	Crack Patching: Analysis and Design. <i>Journal of Structural Mechanics</i> , 1982, 10, 177-190.	0.6	36
56	Application of infrared thermography to study crack growth and fatigue life extension procedures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2010, 33, 871-884.	3.4	35
57	Delamination fatigue growth in polymer-matrix fibre composites: A methodology for determining the design and lifing allowables. <i>Composite Structures</i> , 2018, 196, 8-20.	5.8	35
58	An analysis of delamination behaviour. <i>Composite Structures</i> , 1986, 5, 203-216.	5.8	34
59	Effects of temperature on the shear stress-strain behaviour of structural adhesives (FM73). <i>Computers and Structures</i> , 1994, 53, 483-489.	4.4	34
60	An experimental evaluation of crack face energy dissipation. <i>International Journal of Fatigue</i> , 2006, 28, 1716-1724.	5.7	34
61	Compression failures of damaged graphite epoxy laminates. <i>Composite Structures</i> , 1985, 3, 167-186.	5.8	32
62	Implications of the lead crack philosophy and the role of short cracks in combat aircraft. <i>Engineering Failure Analysis</i> , 2013, 29, 149-166.	4.0	32
63	Assessment of the effect of impact damage in composites: Some problems and answers. <i>Composite Structures</i> , 1988, 10, 51-73.	5.8	31
64	Airworthiness of composite repairs: Failure mechanisms. <i>Engineering Failure Analysis</i> , 1995, 2, 117-128.	4.0	31
65	An approximate expression for the fundamental frequency of vibration of elastic plates. <i>Journal of Sound and Vibration</i> , 1975, 38, 503-504.	3.9	29
66	On the use of special crack tip elements in cracked elastic sheets. <i>International Journal of Fracture</i> , 1977, 13, 51-64.	2.2	29
67	Thermoelastic assessment of damage growth in composites. <i>Composite Structures</i> , 1989, 12, 291-314.	5.8	29
68	A fibre optic corrosion fuse sensor using stressed metal-coated optical fibres. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 602-608.	7.8	29
69	Vibration and buckling of plates at elevated temperatures. <i>International Journal of Solids and Structures</i> , 1980, 16, 61-70.	2.7	28
70	Thermomechanical analysis of composite specimens. <i>Composite Structures</i> , 1989, 11, 309-324.	5.8	28
71	Similitude: Fatigue cracking in steels. <i>Theoretical and Applied Fracture Mechanics</i> , 2007, 48, 161-168.	4.7	28
72	The generalised Frostâ€“Dugdale approach to modelling fatigue crack growth. <i>Engineering Failure Analysis</i> , 2008, 15, 1130-1149.	4.0	28

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73	Further Studies into Crack Growth in Additively Manufactured Materials. <i>Materials</i> , 2020, 13, 2223.	2.9	28
74	A methodology for structural optimisation with damage tolerance constraints. <i>Engineering Failure Analysis</i> , 2000, 7, 281-300.	4.0	27
75	Crack growth in a naturally corroded bridge steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 1117-1127.	3.4	27
76	Design of structures for optimal static strength using ESO. <i>Engineering Failure Analysis</i> , 2005, 12, 61-80.	4.0	26
77	The tool for assessing the damage tolerance of railway wheel under service conditions. <i>Theoretical and Applied Fracture Mechanics</i> , 2012, 57, 1-13.	4.7	26
78	Fatigue crack growth in nano-composites. <i>Composite Structures</i> , 2013, 99, 375-379.	5.8	26
79	Review of Requirements for the Durability and Damage Tolerance Certification of Additively Manufactured Aircraft Structural Parts and AM Repairs. <i>Materials</i> , 2020, 13, 1341.	2.9	26
80	Designing for damage-tolerant composite repairs. <i>Composite Structures</i> , 1994, 28, 19-37.	5.8	25
81	On the Vlasov and Kerr foundation models. <i>Acta Mechanica</i> , 1976, 25, 45-49.	2.1	24
82	Crack patching: an experimental evaluation of fatigue crack growth. <i>Composite Structures</i> , 2005, 67, 229-238.	5.8	24
83	A simple method for computing the stress intensity factors for cracks at notches. <i>Engineering Failure Analysis</i> , 2002, 9, 683-702.	4.0	23
84	Assessment of partly circumferential cracks in pipes. <i>International Journal of Fracture</i> , 2005, 133, 167-181.	2.2	23
85	From NASGRO to fractals: Representing crack growth in metals. <i>International Journal of Fatigue</i> , 2016, 82, 540-549.	5.7	23
86	Crack growth at fastener holes containing intergranular cracking. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 1664-1675.	3.4	23
87	Determination of Stress Components From Thermoelastic Data Without Boundary Conditions. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992, 59, 841-847.	2.2	23
88	Increasing the fatigue life of cracked fastener holes using bonded repairs. <i>Theoretical and Applied Fracture Mechanics</i> , 1989, 11, 1-8.	4.7	22
89	Developments in the analysis of interacting cracks. <i>Engineering Failure Analysis</i> , 1995, 2, 307-320.	4.0	22
90	Crack growth from naturally occurring material discontinuities under constant amplitude and operational loads. <i>International Journal of Fatigue</i> , 2016, 91, 434-444.	5.7	22

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91	Understanding Fibre-Matrix Degradation of FRP Composites for Advanced Civil Engineering Applications: An Overview. Corrosion and Materials Degradation, 2018, 1, 27-41.	2.4	22
92	Bonded repair of metallic components: Thick sections. Theoretical and Applied Fracture Mechanics, 1988, 9, 61-70.	4.7	21
93	Structural optimisation with fracture strength constraints. Engineering Fracture Mechanics, 2002, 69, 1403-1423.	4.3	21
94	Transverse vibrations of shallow shells by the method of constant deflection contours. Journal of the Acoustical Society of America, 1974, 56, 1487-1492.	1.1	20
95	Neutral axis offset effects due to crack patching. Composite Structures, 1983, 1, 163-174.	5.8	20
96	Analysis of cold-expansion for cracked and uncracked fastener holes. Engineering Fracture Mechanics, 1991, 39, 195-212.	4.3	20
97	Repair of impact damaged composites. Engineering Fracture Mechanics, 1992, 41, 127-141.	4.3	20
98	Bonded-composite repair of representative multi-site damage in a full-scale fatigue-test article. Theoretical and Applied Fracture Mechanics, 1994, 21, 41-49.	4.7	20
99	Optimisation of damage tolerant structures using a 3D biological algorithm. Engineering Failure Analysis, 2006, 13, 362-379.	4.0	20
100	A study into crack growth in a railway wheel under thermal stop brake loading spectrum. Engineering Failure Analysis, 2012, 25, 280-290.	4.0	20
101	On the Growth of Fatigue Cracks from Material and Manufacturing Discontinuities Under Variable Amplitude Loading. Jom, 2015, 67, 1385-1391.	1.9	20
102	A stress versus crack growth rate investigation (aka stress $\propto$ cubed rule). International Journal of Fatigue, 2016, 87, 435-443.	5.7	20
103	Modelling the Variability and the Anisotropic Behaviour of Crack Growth in SLM Ti-6Al-4V. Materials, 2021, 14, 1400.	2.9	20
104	Crack growth and repair of multi-site damage of fuselage lap joints. Engineering Fracture Mechanics, 1993, 44, 627-637.	4.3	19
105	Environmental evaluation of repairs to fuselage lap joints. Composite Structures, 1992, 21, 121-130.	5.8	18
106	Further studies into interacting 3D cracks. Computers and Structures, 1999, 70, 583-597.	4.4	18
107	Crack growth at low $K_{I\max}$ and the Frost-Dugdale law. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2004, 27, 871-877.	1.1	18
108	Crack patching: Predicting fatigue crack growth. Theoretical and Applied Fracture Mechanics, 2006, 45, 79-91.	4.7	18

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109	Thermal Considerations in the Patching of Metal Sheets with Composite Overlays. Journal of Structural Mechanics, 1980, 8, 143-149.	0.6	17
110	Characterisation of pure and mixed mode fracture in composite laminates. Theoretical and Applied Fracture Mechanics, 1987, 7, 115-123.	4.7	17
111	Assessment of the effect of impact damage in composites: Some problems and answers. Theoretical and Applied Fracture Mechanics, 1988, 9, 83-95.	4.7	17
112	On the determination of stress components in 3-d from thermoelastic data. Computers and Structures, 1990, 36, 553-557.	4.4	17
113	An implicit algorithm using explicit correctors for the kinematic hardening model with multiple back stresses. International Journal for Numerical Methods in Engineering, 2001, 50, 2093-2107.	2.8	17
114	Using the lead crack concept and fractal geometry for fatigue lifing of metallic structural components. International Journal of Fatigue, 2017, 102, 214-220.	5.7	17
115	Requirements and Variability Affecting the Durability of Bonded Joints. Materials, 2020, 13, 1468.	2.9	17
116	Further studies in the application of the method of constant deflection lines to plate bending problems. International Journal of Engineering Science, 1975, 13, 423-443.	5.0	16
117	A simplified approach to the large amplitude vibration of plates and membranes. Journal of Sound and Vibration, 1977, 50, 389-397.	3.9	16
118	Constitutive modelling of the elastic-plastic behaviour of 7050-T7451 aluminium alloy. Journal of Strain Analysis for Engineering Design, 1992, 27, 85-92.	1.8	16
119	Bonded composite repair of cracked load-bearing holes. Engineering Fracture Mechanics, 1994, 48, 455-461.	4.3	16
120	Continued airworthiness of composite repairs to primary structures for military aircraft. Composite Structures, 1995, 33, 17-26.	5.8	16
121	Stress intensity factor solutions for finite body with quarter-elliptical flaws emanating from a notch. Engineering Fracture Mechanics, 2005, 72, 1329-1343.	4.3	16
122	An assessment of stress intensity factors for surface flaws in a tubular member. Engineering Fracture Mechanics, 2005, 72, 357-371.	4.3	16
123	An equivalent block method for computing fatigue crack growth. International Journal of Fatigue, 2008, 30, 1529-1542.	5.7	16
124	Damage tolerance analysis of a helicopter component. International Journal of Fatigue, 2009, 31, 1046-1053.	5.7	16
125	Experimental studies into short crack growth. Engineering Failure Analysis, 2011, 18, 1711-1722.	4.0	16
126	A study into the interaction of intergranular cracking and cracking at a fastener hole. Meccanica, 2015, 50, 517-532.	2.0	16



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127	On the growth of cracks from etch pits and the scatter associated with them under a miniTWIST spectrum. International Journal of Fatigue, 2018, 109, 10-16.	5.7	16
128	An experimental investigation into the effect of impact damage on the compressive strength of step lap joints. Engineering Fracture Mechanics, 1989, 32, 667-674.	4.3	15
129	An investigation of the influence of rail chill on crack growth in a railway wheel due to braking loads. Engineering Fracture Mechanics, 2013, 98, 1-14.	4.3	15
130	Damage tolerance assessment of AM 304L and cold spray fabricated 316L steels and its implications for attritable aircraft. Engineering Fracture Mechanics, 2021, 254, 107916.	4.3	15
131	Crack growth in adhesives: Similitude and the Hartman-Schijve equation. Composite Structures, 2021, 273, 114260.	5.8	15
132	A note on computing the growth of small cracks in AM Ti-6Al-4V. Procedia Structural Integrity, 2020, 28, 364-369.	0.8	15
133	Crack patching revisited. Composite Structures, 2006, 76, 218-223.	5.8	14
134	In situ health monitoring of bonded composite repairs using a novel fiber Bragg grating sensing arrangement. , 2002, , .		13
135	Assessment of multiple flat elliptical cracks with interactions. Theoretical and Applied Fracture Mechanics, 2002, 38, 281-291.	4.7	13
136	Structural optimisation with damage tolerance constraints. Theoretical and Applied Fracture Mechanics, 2005, 43, 133-155.	4.7	13
137	Fatigue crack growth discrepancies with stress ratio. Theoretical and Applied Fracture Mechanics, 2009, 51, 1-10.	4.7	13
138	A scientific evaluation of the approximate 2D theories for composite repairs to cracked metallic components. Composite Structures, 2009, 87, 151-160.	5.8	13
139	Observations on fatigue crack growth in a range of materials. Materials & Design, 2011, 32, 4362-4368.	5.1	13
140	Tools and methods for addressing the durability of rolling stock. Engineering Failure Analysis, 2013, 34, 278-289.	4.0	13
141	Crack Growth from Naturally Occurring Material Discontinuities in Operational Aircraft. Procedia Engineering, 2015, 101, 227-234.	1.2	13
142	Optimization Using Nimrod/O and Its Application to Robust Mechanical Design. Lecture Notes in Computer Science, 2004, , 730-737.	1.3	13
143	Bonded Repair of Multi-Site Damage. Springer Series in Computational Mechanics, 1991, , 199-212.	0.3	13
144	A Simplified Approach to the Analysis of Large Deflections of Plates. Journal of Applied Mechanics, Transactions ASME, 1974, 41, 523-524.	2.2	12

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145	The Use of Piezoelectric Thin Film Sensors for Structural Integrity Monitoring. <i>Journal of Intelligent Material Systems and Structures</i> , 1994, 5, 683-693.	2.5	12
146	Determination of the position of a localized heat source within a chirped fibre Bragg grating using a Fourier transform technique. <i>Measurement Science and Technology</i> , 2006, 17, 1436-1445.	2.6	12
147	Optimal topology design of industrial structures using an evolutionary algorithm. <i>Optimization and Engineering</i> , 2011, 12, 681-717.	2.4	12
148	The development of combination mechanical contact and thermal braking loads for railway wheel fatigue analysis. <i>Theoretical and Applied Fracture Mechanics</i> , 2012, 60, 10-14.	4.7	12
149	Computing the growth of naturally-occurring disbonds in adhesively-bonded patches to metallic structures. <i>Engineering Fracture Mechanics</i> , 2016, 152, 162-173.	4.3	12
150	Thoughts on the scatter seen in cyclic Mode I fatigue delamination growth in DCB tests. <i>Composite Structures</i> , 2017, 160, 1329-1338.	5.8	12
151	Influence of cyclic stress intensity threshold on the scatter seen in cyclic Mode I fatigue delamination growth in DCB tests. <i>Composite Structures</i> , 2017, 169, 138-143.	5.8	12
152	Observations on comparable aluminium alloy crack growth curves: Additively manufactured Scalmalloy® as an alternative to AA5754 and AA6061-T6 alloys?. <i>Additive Manufacturing Letters</i> , 2022, 2, 100026.	2.1	12
153	A simplified approach to the large deflection of membranes. <i>International Journal of Non-Linear Mechanics</i> , 1974, 9, 141-145.	2.6	11
154	A numerical study of crack monitoring in patched structures using a piezoelectric sensor. <i>Smart Materials and Structures</i> , 1992, 1, 202-205.	3.5	11
155	Potential failure mechanisms of bonded composite repairs for metal and concrete. <i>Theoretical and Applied Fracture Mechanics</i> , 1994, 21, 107-119.	4.7	11
156	Numerical analysis of subsurface crack failure beneath the pitch line of a gear tooth during engagement. <i>Wear</i> , 1995, 185, 141-149.	3.1	11
157	A unified constitutive theory for paper. <i>Composite Structures</i> , 1998, 42, 93-100.	5.8	11
158	Bonded repairs to rib stiffened wing skins. <i>Composite Structures</i> , 2002, 57, 453-458.	5.8	11
159	Application of constitutive modelling and advanced repair technology to F111C aircraft. <i>Composite Structures</i> , 2004, 66, 145-157.	5.8	11
160	An approach based on biological algorithm for three-dimensional shape optimisation with fracture strength constrains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 4383-4398.	6.6	11
161	Damage tolerance based design optimisation of a fuel flow vent hole in an aircraft structure. <i>Structural and Multidisciplinary Optimization</i> , 2009, 38, 245-265.	3.5	11
162	Three-dimensional structural design optimisation based on fatigue implementing a genetic algorithm and a non-similitude crack growth law. <i>Finite Elements in Analysis and Design</i> , 2009, 45, 132-146.	3.2	11

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163	Fatigue life enhancement of structures using shape optimisation. Theoretical and Applied Fracture Mechanics, 2009, 52, 165-179.	4.7	11
164	Cracking in D6ac steel. Theoretical and Applied Fracture Mechanics, 2010, 53, 61-64.	4.7	11
165	Characterization of the durability of adhesive bonds. Fatigue and Fracture of Engineering Materials and Structures, 2012, 35, 998-1006.	3.4	11
166	Lock-in thermographic inspection of squats on rail steel head. Infrared Physics and Technology, 2013, 57, 89-95.	2.9	11
167	The analysis of stress intensity factors in two interacting collinear asymmetric cracks in a finite plate. Theoretical and Applied Fracture Mechanics, 2015, 75, 53-58.	4.7	11
168	On the potential of supersonic particle deposition to repair simulated corrosion damage. Engineering Fracture Mechanics, 2015, 137, 26-33.	4.3	11
169	Life cycle analysis of steel railway bridges. Theoretical and Applied Fracture Mechanics, 2018, 97, 385-399.	4.7	11
170	Approximate expressions for the fundamental frequency of vibration of several dynamic systems. Journal of Sound and Vibration, 1976, 44, 475-478.	3.9	10
171	Bonded repairs to surface flaws. Theoretical and Applied Fracture Mechanics, 1984, 2, 17-25.	4.7	10
172	A numerical study of MSD in aluminium alloys. Computers and Structures, 1995, 55, 177-183.	4.4	10
173	Elastic-plastic finite element analysis of spall formation in gears. Wear, 1996, 197, 197-205.	3.1	10
174	The role of material nonlinearities in composite structures. Composite Structures, 1997, 38, 71-81.	5.8	10
175	Global/Local Postbuckling Failure Analysis of Composite Stringer/Skin Panels. AIAA Journal, 1998, 36, 1699-1705.	2.6	10
176	Adhesively bonded joints under cyclic loading spectra. Fatigue and Fracture of Engineering Materials and Structures, 2002, 25, 173-185.	3.4	10
177	Directional dependence of spectra of fiber Bragg gratings due to excess loss. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2906.	1.5	10
178	Predicting the fatigue life and crack aspect ratio evolution in complex structures. Theoretical and Applied Fracture Mechanics, 2006, 46, 128-139.	4.7	10
179	Application of supersonic particle deposition to enhance the structural integrity of aircraft structures. Science China: Physics, Mechanics and Astronomy, 2014, 57, 12-18.	5.1	10
180	Composite repairs to bridge steels demystified. Composite Structures, 2017, 169, 180-189.	5.8	10

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181	A computational study of the influence of surface roughness on material strength. <i>Meccanica</i> , 2018, 53, 2411-2436.	2.0	10
182	On the analysis of cracking under a combined quadratic thermal flux and a quadratic mechanical loading. <i>Applied Mathematical Modelling</i> , 2019, 68, 182-197.	4.2	10
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