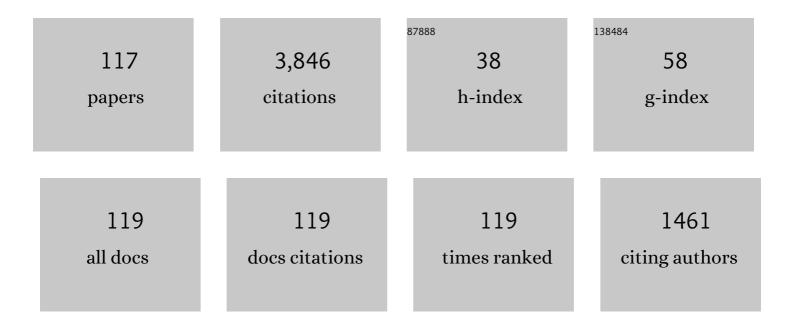
## David Nowell

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effects of external loading on low displacement wear rates of unlubricated steels. Wear, 2022, 490-491, 204034.	3.1	1
2	An exploration of debris types and their influence on wear rates in fretting. Wear, 2020, 450-451, 203252.	3.1	13
3	A study of overload effect on fatigue crack propagation using EBSD, FIB–DIC and FEM methods. Engineering Fracture Mechanics, 2016, 167, 210-223.	4.3	54
4	Measurement of fatigue crack deformation on the macro- and micro-scale: Uniform and non-uniform loading. International Journal of Fatigue, 2016, 89, 66-76.	5.7	21
5	International Conference on Fatigue Damage of Structural Materials. International Journal of Fatigue, 2016, 82, 119.	5.7	0
6	Strain Analysis: Past, Present, and Future. Journal of Strain Analysis for Engineering Design, 2015, 50, 411-411.	1.8	0
7	Fatigue behaviour of geometric features subjected to laser shock peening: Experiments and modelling. International Journal of Fatigue, 2014, 62, 171-179.	5.7	65
8	Mechanics of fretting fatigue—Oxford's contribution. Tribology International, 2014, 76, 1-5.	5.9	23
9	The influence of contacting Ni-based single-crystal superalloys on fretting fatigue of Ni-based polycrystalline superalloys at high temperature. Tribology International, 2014, 76, 63-72.	5.9	25
10	Digital image correlation measurement of nearâ€tip fatigue crack displacement fields: constant amplitude loading and load history effects. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 3-13.	3.4	26
11	A Comparison of Contact Stiffness Measurements Obtained by the Digital Image Correlation and Ultrasound Techniques. Experimental Mechanics, 2013, 53, 1245-1263.	2.0	39
12	Eigenstrain modelling of residual stress generated by arrays of laser shock peening shots and determination of the complete stress field using limited strain measurements. Surface and Coatings Technology, 2013, 216, 68-77.	4.8	41
13	Analytical and Numerical Models for Tangential Stiffness of Rough Elastic Contacts. Tribology Letters, 2013, 49, 103-115.	2.6	75
14	Guest Editorial: Special Issue on Characterisation of Crack Tip Stress Fields. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 1-2.	3.4	0
15	Validation of an Hcr-based fracture initiation criterion for adhesively bonded joints. Engineering Fracture Mechanics, 2012, 80, 13-27.	4.3	33
16	An elastic–plastic asperity interaction model for sliding friction. Tribology International, 2011, 44, 1679-1694.	5.9	94
17	Long term wear of complete contacts subject to fretting. Wear, 2011, 271, 2821-2825.	3.1	2
18	Determination of the Frictional Properties of Titanium and Nickel Alloys Using the Digital Image Correlation Method. Experimental Mechanics, 2011, 51, 359-371.	2.0	46

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19	Partial slip problem for two semi-infinite strips in contact. International Journal of Engineering Science, 2011, 49, 203-211.	5.0	12
20	Eigenstrain modelling of residual stresses generated by laser shock peening. Journal of Materials Processing Technology, 2011, 211, 1091-1101.	6.3	79
21	Eigenstrain modellingof residual stresses generated by arraysof LSP shots. Procedia Engineering, 2011, 10, 1327-1332.	1.2	10
22	Investigation of non-Coulomb friction behaviour in reciprocating sliding. Wear, 2011, 271, 802-816.	3.1	49
23	Measurements of pressure and area dependent tangential contact stiffness between rough surfaces using digital image correlation. Tribology International, 2011, 44, 1188-1198.	5.9	63
24	Application of digital image correlation to the investigation of crack closure following overloads. Procedia Engineering, 2010, 2, 1035-1043.	1.2	37
25	The effect of wear on nucleation of cracks at the edge of an almost complete contact. Wear, 2010, 268, 900-904.	3.1	5
26	Torsional contact between elastically similar flat-ended cylinders. International Journal of Solids and Structures, 2010, 47, 1375-1380.	2.7	13
27	Optical methods for measurement of fatigue crack closure: moiré interferometry and digital image correlation. Fatigue and Fracture of Engineering Materials and Structures, 2010, 33, 778-790.	3.4	29
28	Residual stress measurement by deep hole drilling and trepanning – analysis with distributed dislocations. Journal of Strain Analysis for Engineering Design, 2009, 44, 45-54.	1.8	12
29	Inertia friction welds between nickel superalloy components: Analysis of residual stress by eigenstrain distributions. Journal of Strain Analysis for Engineering Design, 2009, 44, 159-170.	1.8	9
30	Experimental and numerical investigation of thickness effects in plasticity-induced fatigue crack closure. International Journal of Fatigue, 2009, 31, 1795-1804.	5.7	72
31	Crack tip deformation fields and fatigue crack growth rates in Ti–6Al–4Vâ^†. International Journal of Fatigue, 2009, 31, 1771-1779.	5.7	50
32	What features are needed in a fretting fatigue test?. Tribology International, 2009, 42, 1316-1323.	5.9	10
33	Mixed high low fretting fatigue of Ti6Al4V: Tests and modelling. Tribology International, 2009, 42, 1276-1285.	5.9	10
34	Prediction of fretting crack propagation based on a short crack methodology. Engineering Fracture Mechanics, 2008, 75, 1605-1622.	4.3	60
35	Numerical simulation of plasticity-induced fatigue crack closure with emphasis on the crack growth scheme: 2D and 3D analyses. Engineering Fracture Mechanics, 2008, 75, 2087-2114.	4.3	91
36	The influence of the Poisson's ratio and corner point singularities in three-dimensional plasticity-induced fatigue crack closure: A numerical study. International Journal of Fatigue, 2008, 30, 1930-1943.	5.7	34

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37	Skew sliding of an elastic cylinder: An investigation of convection in contact. International Journal of Mechanical Sciences, 2008, 50, 293-298.	6.7	7
38	Analytical and numerical modelling of plasticityâ€induced crack closure in coldâ€expanded holes. Fatigue and Fracture of Engineering Materials and Structures, 2008, 31, 488-503.	3.4	12
39	On the stress analysis of a wound coil with application to electromagnet manufacture. Journal of Strain Analysis for Engineering Design, 2007, 42, 447-460.	1.8	3
40	Techniques for Experimental Measurement of Fatigue Crack Closure. Applied Mechanics and Materials, 2007, 7-8, 3-9.	0.2	6
41	Variational eigenstrain analysis of residual stresses in a welded plate. International Journal of Solids and Structures, 2007, 44, 4574-4591.	2.7	89
42	Prediction of the combined high- and low-cycle fatigue performance of gas turbine blades after foreign object damage. International Journal of Fatigue, 2007, 29, 69-80.	5.7	68
43	A comparison of two and three-dimensional analyses of fatigue crack closure. International Journal of Fatigue, 2007, 29, 222-231.	5.7	57
44	On the accurate assessment of crack opening and closing stresses in plasticity-induced fatigue crack closure problems. Engineering Fracture Mechanics, 2007, 74, 1579-1601.	4.3	65
45	Residual Stress Reconstruction by Variational Eigenstrain Procedures. Materials Science Forum, 2006, 524-525, 241-246.	0.3	0
46	Recent developments in the understanding of fretting fatigue. Engineering Fracture Mechanics, 2006, 73, 207-222.	4.3	206
47	The use of notch and short crack approaches to fretting fatigue threshold prediction: Theory and experimental validation. Tribology International, 2006, 39, 1158-1165.	5.9	44
48	Fretting fatigue in dovetail blade roots: Experiment and analysis. Tribology International, 2006, 39, 1277-1285.	5.9	123
49	<title>Residual stress analysis of welded joints by the variational eigenstrain approach</title> . , 2005, , .		2
50	Measurement of crack closure after the application of an overload cycle, using moiré interferometry. International Journal of Fatigue, 2005, 27, 1453-1462.	5.7	13
51	Size and Scale Effects in Fretting Fatigue Thresholds. International Journal of Fracture, 2005, 135, L11-L18.	2.2	4
52	On the finite element analysis of contacting bodies using submodelling. Journal of Strain Analysis for Engineering Design, 2005, 40, 95-106.	1.8	25
53	Improved Influence Functions For Uniform Triangular Dislocation Density Functions. Journal of Strain Analysis for Engineering Design, 2005, 40, 729-733.	1.8	1
54	The use of multiaxial fatigue models to predict fretting fatigue life of components subjected to different contact stress fields. Fatigue and Fracture of Engineering Materials and Structures, 2004, 27, 967-978.	3.4	54

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55	Crack closure measurements using Moir� interferometry with photoresist gratings. International Journal of Fatigue, 2004, 26, 1075-1082.	5.7	11
56	Flat and rounded fretting contact problems incorporating elastic layers. International Journal of Mechanical Sciences, 2004, 46, 1635-1657.	6.7	17
57	Analysis of a Rocking and Walking Punch—Part II: General Numerical Solution Using Quadratic Programming. Journal of Applied Mechanics, Transactions ASME, 2004, 71, 234-239.	2.2	3
58	Prediction of fatigue performance in gas turbine blades after foreign object damage. International Journal of Fatigue, 2003, 25, 963-969.	5.7	95
59	Stress gradient effects in fretting fatigue. Tribology International, 2003, 36, 71-78.	5.9	51
60	Prediction of the slip zone friction coefficient in flat and rounded contact. Wear, 2003, 254, 364-369.	3.1	26
61	The use of closure maps to characterise plasticity induced crack closure. International Journal of Fatigue, 2003, 25, 257-264.	5.7	0
62	Stress analysis of V-notches with and without cracks, with application to foreign object damage. Journal of Strain Analysis for Engineering Design, 2003, 38, 429-441.	1.8	28
63	Application of Multiaxial Fatigue Parameters to Fretting Contacts with High Stress Gradients. , 2003, , 133-144.		0
64	Modifications to a fretting-fatigue testing apparatus based upon an analysis of contact stresses at complete and nearly complete contacts. Wear, 2002, 252, 475-483.	3.1	38
65	The effect of rapidly varying contact stress fields on fretting fatigue. International Journal of Fatigue, 2002, 24, 763-775.	5.7	238
66	A discussion of: 'Peak contact pressure, cyclic stress amplitudes, contact semi-width and slip amplitude: relative effects on fatigue life' by K. Iyer. International Journal of Fatigue, 2001, 23, 747-748.	5.7	5
67	A combined testing and modelling approach to the prediction of the fretting fatigue performance of splined shafts. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2001, 215, 105-112.	1.3	31
68	Partial slip between contacting cylinders under transverse and axial shear. International Journal of Mechanical Sciences, 2000, 42, 199-212.	6.7	14
69	A comparison between actual and stress intensity near-crack-tip elastic fields. International Journal of Fatigue, 2000, 22, 551-558.	5.7	7
70	Three-dimensional cracks with Dugdale-type plastic zones. International Journal of Fracture, 2000, 106, 291-309.	2.2	14
71	Measurement of residual stresses in beams and plates using the crack compliance technique. Journal of Strain Analysis for Engineering Design, 2000, 35, 277-285.	1.8	9

Length Scale Considerations in Fretting Fatigue. , 2000, , 141-153.

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73	Closed-Form Integrals for Constant and Linear Elements in the Eigenstrain Method. Journal of Applied Mechanics, Transactions ASME, 1999, 66, 268-272.	2.2	0
74	Strain changes caused by finite width slots, with particular reference to residual stress measurement. Journal of Strain Analysis for Engineering Design, 1999, 34, 285-294.	1.8	14
75	Analysis of pad size effects in fretting fatigue using short crack arrest methodologies. International Journal of Fatigue, 1999, 21, 947-956.	5.7	105
76	Small crack methodologies and crack arrest in fretting fatigue. , 1999, , 361-372.		0
77	A Theoretical and Experimental Investigation of the Influence of Crack Tip Plasticity on Fatigue Crack Closure. , 1999, , 438-452.		0
78	Designing against fretting fatigue: Crack self-arrest. Journal of Strain Analysis for Engineering Design, 1998, 33, 17-25.	1.8	15
79	Analysis of Surface Tractions in Complex Fretting Fatigue Cycles Using Quadratic Programming. Journal of Tribology, 1998, 120, 744-749.	1.9	22
80	Stresses in a flat plate due to a loose pin pressing against a cracked hole. Journal of Strain Analysis for Engineering Design, 1997, 32, 145-156.	1.8	11
81	Stress intensity factors and fatigue life of beams in reversed bending. Journal of Strain Analysis for Engineering Design, 1997, 32, 401-409.	1.8	1
82	ANALYSIS OF CRACK INITIATION AND PROPAGATION IN FRETTING FATIGUE: THE EFFECTIVE INITIAL FLAW SIZE METHODOLOGY. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 61-70.	3.4	14
83	Modelling of growth of three-dimensional cracks by a continuous distribution of dislocation loops. Computational Mechanics, 1997, 19, 538-544.	4.0	10
84	On the initiation of fretting fatigue cracks. Wear, 1997, 205, 120-129.	3.1	50
85	Formulation and implementation of the eigenstrain method employing higher order elements. International Journal of Solids and Structures, 1996, 33, 331-342.	2.7	6
86	The solution of cracks emanating from circular holes. Journal of Strain Analysis for Engineering Design, 1996, 31, 235-242.	1.8	5
87	The solution of the contact between a tilted circular rigid punch and an elastic half-space. Wear, 1995, 184, 93-95.	3.1	7
88	Contact stresses in a moderately thin strip (with particular reference to fretting experiments). Wear, 1995, 185, 235-238.	3.1	45
89	The propulsion of surface flaws by elastic indentation testing. Acta Metallurgica Et Materialia, 1995, 43, 985-991.	1.8	8
90	Static Axisymmetric Hertzian Contacts Subject to Shearing Forces. Journal of Applied Mechanics, Transactions ASME, 1994, 61, 278-283.	2.2	52

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91	The Complete Stress Field due to a Dislocation Located Anywhere in Two Bonded Quarter Planes. Journal of Applied Mechanics, Transactions ASME, 1994, 61, 992-993.	2.2	4
92	The edge interface crack. International Journal of Fracture, 1994, 67, 263-271.	2.2	4
93	Curved interface cracks between elastically dissimilar media, with application to the analysis of circular inclusions. International Journal of Mechanical Sciences, 1994, 36, 173-181.	6.7	12
94	USE OF THE DISTRIBUTED DISLOCATIONS METHOD TO DETERMINE THE T-STRESS. Fatigue and Fracture of Engineering Materials and Structures, 1994, 17, 605-618.	3.4	18
95	Eigenstrain methods in three-dimensional crack problems: An alternative integration procedure. Journal of the Mechanics and Physics of Solids, 1993, 41, 1003-1017.	4.8	22
96	Applications of the boundary element and dislocation density methods in plane crack problems. Engineering Analysis With Boundary Elements, 1993, 11, 129-135.	3.7	11
97	Partial closure and frictional slip of 3-D cracks. International Journal of Fracture, 1993, 63, 89-99.	2.2	12
98	Stress Field due to a Dislocation on the Interface Between Two Quarter Planes. Journal of Applied Mechanics, Transactions ASME, 1993, 60, 743-748.	2.2	3
99	The evaluation of stress intensity factors for plane cracks in residual stress fields. Journal of Strain Analysis for Engineering Design, 1993, 28, 145-152.	1.8	15
100	The Stress Field Induced by a General Elliptical Hertzian Contact. Journal of Tribology, 1993, 115, 705-706.	1.9	2
101	The design of joints between elastically dissimilar components (with special reference to) Tj ETQq1 1 0.784314	rgBT /Over 1.8	locy 10 Tf 50
102	Models for plastic constraint in brazed or diffusion-bonded joints between ceramic components. Acta Metallurgica Et Materialia, 1992, 40, 2149-2154.	1.8	5
103	Calculation of the opening displacement of surface-breaking plane cracks. Computer Methods in Applied Mechanics and Engineering, 1992, 97, 321-331.	6.6	16
104	The Development of a Fretting Fatigue Experiment with Well-Defined Characteristics. , 1992, , 69-84.		11
105	Brief note on the tractive rolling of dissimilar elastic cylinders. International Journal of Mechanical Sciences, 1991, 33, 225-228.	6.7	11
106	Crack initiation criteria in fretting fatigue. Wear, 1990, 136, 329-343.	3.1	109
107	The state of stress induced by cylindrical sliding contacts with frictional heating. International Journal of Mechanical Sciences, 1990, 32, 767-778.	6.7	14
108	Stress intensity calibrations for closed cracks. Journal of Strain Analysis for Engineering Design, 1989, 24, 37-43.	1.8	22

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109	Plane cracks near interfaces. Engineering Analysis With Boundary Elements, 1989, 6, 30-37.	3.7	6
110	INITIATION AND GROWTH OF FRETTING FATIGUE CRACKS IN THE PARTIAL SLIP REGIME. Fatigue and Fracture of Engineering Materials and Structures, 1989, 12, 387-398.	3.4	58
111	On the mechanics of fretting fatigue. Wear, 1988, 125, 129-146.	3.1	93
112	Tractive rolling of dissimilar elastic cylinders. International Journal of Mechanical Sciences, 1988, 30, 427-439.	6.7	35
113	Tractive rolling of tyred cylinders. International Journal of Mechanical Sciences, 1988, 30, 945-957.	6.7	29
114	Contact problems incorporating elastic layers. International Journal of Solids and Structures, 1988, 24, 105-115.	2.7	74
115	Contact of dissimilar elastic cylinders under normal and tangential loading. Journal of the Mechanics and Physics of Solids, 1988, 36, 59-75.	4.8	91
116	Open cracks at or near free edges. Journal of Strain Analysis for Engineering Design, 1987, 22, 177-185.	1.8	106
117	Mechanics of fretting fatigue tests. International Journal of Mechanical Sciences, 1987, 29, 355-356.	6.7	83