

# Michael Vormwald

## List of Publications by Year in descending order

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145  
papers

2,551  
citations

236833

25  
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152  
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152  
docs citations

152  
times ranked

1064  
citing authors

#	ARTICLE	IF	CITATIONS
1	On Scaled Normal Stresses in Multiaxial Fatigue and Their Exemplary Application to Ductile Cast Iron. Applied Mechanics, 2022, 3, 259-295.	0.7	5
2	Autofrettage of high-pressure components made of ultra-high-strength-steel. Procedia Structural Integrity, 2022, 37, 948-955.	0.3	2
3	Estimation of the fatigue strength of ultra-high strength steels. Procedia Structural Integrity, 2022, 37, 500-507.	0.3	2
4	Accuracy analyses of fatigue life predictions for multiaxially non-proportionally stressed notched components - a database evaluation. International Journal of Fatigue, 2022, 163, 107088.	2.8	5
5	Energy driven integration of incremental notch stress-strain approximation for multiaxial cyclic loading. International Journal of Fatigue, 2021, 145, 106043.	2.8	9
6	Elastic spherical inhomogeneity in an infinite elastic solid: an exact analysis by an engineering treatment of the problem based on the corresponding cavity solution. Archive of Applied Mechanics, 2021, 91, 1577-1603.	1.2	1
7	Modeling short crack propagation under variable structural and thermal loadings. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1652-1674.	1.7	3
8	Correlations between crack initiation and crack propagation lives of notched specimens under constant and variable amplitude loading. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2871-2889.	1.7	8
9	Thermodynamics and Analysis of Predicted Responses of a Phase Field Model for Ductile Fracture. Materials, 2021, 14, 5842.	1.3	4
10	Autofrettage of component-like ultra high Strength Steel Specimens with intersecting Holes. MATEC Web of Conferences, 2021, 349, 04004.	0.1	1
11	Discussion of hardening effects on phase field models for fracture. MATEC Web of Conferences, 2021, 349, 02001.	0.1	0
12	Calculation of stress intensity factors from shell elements under mixed mode loading. International Journal of Fatigue, 2020, 134, 105447.	2.8	5
13	Guest editorial: Characterisation of crack tip fields-CCTF5. International Journal of Fatigue, 2020, 140, 105618.	2.8	1
14	Characterisation of crack tip fieldsâ€”CCTF5. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1609-1610.	1.7	0
15	Structural strain approach to assess thermo-mechanical fatigue of thin-walled welded joints. International Journal of Fatigue, 2020, 139, 105722.	2.8	4
16	Thermal gradient mechanical fatigue assessment of a nickel-based superalloy. International Journal of Fatigue, 2020, 135, 105486.	2.8	24
17	Multiaxial fatigue assessment of tube-tube steel joints with weld ends using the peak stress method. International Journal of Fatigue, 2020, 135, 105495.	2.8	14
18	Configurational forces and J-integrals in cyclic metal plasticity. Theoretical and Applied Fracture Mechanics, 2020, 108, 102565.	2.1	6

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19	Applying fracture mechanics to fatigue strength determination – Some basic considerations. International Journal of Fatigue, 2019, 126, 188-201.	2.8	22
20	The peak stress method applied to the fatigue assessment of tube-tube steel joints with weld ends under multiaxial loadings. MATEC Web of Conferences, 2019, 300, 19001.	0.1	1
21	Configurational forces in cyclic metal plasticity. MATEC Web of Conferences, 2019, 300, 08009.	0.1	0
22	The contrast of simplicity and accuracy in modeling multiaxial notch fatigue. MATEC Web of Conferences, 2019, 300, 13003.	0.1	0
23	Observations and modelling of non-proportional mixed mode cyclic loading. MATEC Web of Conferences, 2019, 300, 01002.	0.1	0
24	Fatigue life assessment of welded joints made of the stainless steel X6CrNiNb18-10 for thermomechanical and variable amplitude loading. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 316-331.	0.5	1
25	Engineering approaches to multiaxial and non-proportional fatigue of notched components. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 381-391.	0.5	4
26	Fatigue strength of autofrettaged Diesel injection system components under elevated temperature. International Journal of Fatigue, 2018, 113, 428-437.	2.8	10
27	Crack tip displacement fields measured by digital image correlation for evaluating variable mode-mixity during fatigue crack growth. International Journal of Fatigue, 2018, 115, 53-66.	2.8	25
28	Elastic plastic approximation procedure for notched bodies subjected to thermal transient loadings. Procedia Engineering, 2018, 213, 754-761.	1.2	0
29	Fatigue strength and fracture mechanics – A general perspective. Engineering Fracture Mechanics, 2018, 198, 2-23.	2.0	72
30	Cyclic J-integral: Numerical and analytical investigations for surface cracks in weldments. Engineering Fracture Mechanics, 2018, 198, 24-44.	2.0	35
31	Numerical analysis of residual stresses and crack closure during cyclic loading of a longitudinal gusset. Engineering Fracture Mechanics, 2018, 198, 65-78.	2.0	13
32	Fatigue Lives of Power Plant Structures Due to Load Sequence Effects Originating from Fluctuating Production of Renewable Energy. MATEC Web of Conferences, 2018, 188, 02012.	0.1	0
33	Introduction to the new FKM guideline which considers nonlinear material behaviour. MATEC Web of Conferences, 2018, 165, 10014.	0.1	7
34	Guest Editorial: IJF Special issue of the International Conference on Structural Integrity and Durability, ICSID 2017, – Fatigue at all Scales – International Journal of Fatigue, 2018, 116, 692.	2.8	0
35	Fatigue Life of Welded Joints of AISI 347 Stainless Steel Under Thermomechanical and Variable Amplitude Loading. , 2018, , .		2
36	Short fatigue crack growth in welded joints described by the effective cyclic J-integral. MATEC Web of Conferences, 2018, 165, 09002.	0.1	0

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37	Fatigue of engineering structures under combined nonproportional loads: An overview. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 1449-1468.	1.7	11
38	Fatigue crack growth simulation under cyclic non-proportional mixed mode loading. <i>International Journal of Fatigue</i> , 2017, 102, 37-47.	2.8	26
39	Fatigue of weld ends under combined loading. <i>International Journal of Fatigue</i> , 2017, 100, 627-638.	2.8	9
40	Analysis of an elastic elliptical inclusion in an infinite elastic plate under uniform remote tension based on the solution of the corresponding cavity problem. <i>Journal of Strain Analysis for Engineering Design</i> , 2017, 52, 515-527.	1.0	4
41	Special Issue on "Multiaxial Fracture 2016": Selected papers from the 11th International Conference on Multiaxial Fatigue and Fracture (ICMFF11), held in Seville, Spain, on 3 June 2016. <i>Engineering Fracture Mechanics</i> , 2017, 174, 1.	2.0	0
42	Statistical size effect on multiaxial fatigue strength of notched steel components. <i>International Journal of Fatigue</i> , 2017, 104, 322-333.	2.8	38
43	Fatigue strength and fracture mechanics. <i>Procedia Structural Integrity</i> , 2017, 5, 745-752.	0.3	10
44	Fatigue crack growth in cruciform welded joints: Influence of residual stresses and of the weld toe geometry. <i>International Journal of Fatigue</i> , 2017, 101, 253-262.	2.8	52
45	Variable mode-mixity during fatigue cycles – crack tip parameters determined from displacement fields measured by digital image correlation. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 314-322.	0.5	10
46	Sharp three-dimensional notches under combined nominal normal and shear fatigue loading. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 114-122.	0.5	0
47	Experimental study of crack growth under non-proportional loading along with first modeling attempts. <i>International Journal of Fatigue</i> , 2016, 92, 426-433.	2.8	10
48	Berechnung von Anrisslebensdauern auf Basis des räumlichen Konzepts. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 887-896.	0.5	7
49	Schwingfestigkeitsbewertung von Nahtenden unter kombinierter Beanspruchung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 904-910.	0.5	1
50	Modellierung des Ermüdungsrisswachstums in Schweißverbindungen unter Berücksichtigung von Schweißzugspannungen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 923-934.	0.5	3
51	Considering fatigue load sequence effects by applying the Local Strain Approach and a fracture mechanics based damage parameter. <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 83, 31-41.	2.1	21
52	About the fatigue crack propagation threshold of metals as a design criterion – A review. <i>Engineering Fracture Mechanics</i> , 2016, 153, 190-243.	2.0	191
53	Measurements of strain fields around crack tips under proportional and non-proportional mixed-mode fatigue loading. <i>International Journal of Fatigue</i> , 2016, 89, 87-98.	2.8	16
54	Effect of cyclic plastic strain on fatigue crack growth. <i>International Journal of Fatigue</i> , 2016, 82, 80-88.	2.8	33

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55	Growth of long fatigue cracks under non-proportional loadings " experiment and simulation. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 234-240.	0.5	2
56	The non-proportionality of local stress paths in engineering applications. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 52-59.	0.5	2
57	Schwingfestigkeit von thermo-mechanisch beanspruchten Stumpfschweißverbindungen austenitischer Werkstoffe. <i>Materialpruefung/Materials Testing</i> , 2016, 58, 652-659.	0.8	0
58	Fatigue of weld ends under combined in- and out-of-phase multiaxial loading. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 114-120.	0.5	0
59	Numerical Investigations of Seam Welds Under Low Cycle Fatigue: Proposal for Lifetime Estimation and Recommendations for Design With Commonly Used Guidelines. , 2015, , .		3
60	Experimental characterization and numerical assessment of fatigue crack growth under thermo-mechanical conditions. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015, 46, 165-177.	0.5	4
61	Life estimation methodology for short fiber reinforced polymers under thermo-mechanical loading in automotive applications. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015, 46, 214-228.	0.5	10
62	Simulation of fatigue crack growth in welded joints. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015, 46, 110-122.	0.5	5
63	Classification of Load Sequence Effects in Metallic Structures. <i>Procedia Engineering</i> , 2015, 101, 534-542.	1.2	12
64	Measurement and simulation of strain fields around crack tips under mixed-mode fatigue loading. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 42-55.	0.5	4
65	Multi-challenge aspects in fatigue due to the combined occurrence of multiaxiality, variable amplitude loading, and size effects. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 253-261.	0.5	3
66	Measurement and simulation of crack growth rate and direction under non-proportional loadings. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, .	0.5	3
67	Transferability of fatigue resistance data for welded joints. <i>MATEC Web of Conferences</i> , 2014, 12, 05006.	0.1	0
68	Damage mechanisms in PBT-GF30 under thermo-mechanical cyclic loading. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	7
69	Damage Assessment of Threaded Connections based on an Advanced Material Model and Local Concepts. <i>Procedia Engineering</i> , 2014, 74, 119-128.	1.2	8
70	Multiaxial fatigue assessment based on a short crack growth concept. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 73, 17-26.	2.1	17
71	Assessment of microstructural influences on fatigue crack growth by the strip-yield model. <i>Computational Materials Science</i> , 2014, 94, 298-305.	1.4	3
72	Low Cycle Fatigue of Seam Welds " Numerical Simulation under Consideration of Material Inhomogeneities. <i>Procedia Engineering</i> , 2014, 74, 218-227.	1.2	5

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73	Fatigue Crack Propagation under Large Cyclic Plastic Strain Conditions. , 2014, 3, 301-306.		18
74	Notch stress and fracture mechanics based assessment of fatigue of seam weld ends under shear loading. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 740-750.	1.7	20
75	Review of fatigue crack growth under non-proportional mixed-mode loading. International Journal of Fatigue, 2014, 58, 75-83.	2.8	59
76	Fatigue Behavior of Butt Weld Seams: Experimental Investigation and Numerical Simulation. , 2014, , .		4
77	Elastic-Plastic Fatigue Crack Growth. , 2013, , 391-481.		9
78	Geometrical Influence of a Butt Weld in the Low Cycle Fatigue Regime. Procedia Engineering, 2013, 66, 73-78.	1.2	3
79	Safe life and damage tolerance aspects of railway axles â€” A review. Engineering Fracture Mechanics, 2013, 98, 214-271.	2.0	186
80	Advanced Methods of Fatigue Assessment. , 2013, , .		63
81	Development of a Model for Low-Cycle Fatigue Assessment of 347 SS Butt-Welded Joints. , 2013, , .		2
82	Schwingfestigkeit von SchweiÃŸnahtenden und Ãœbertragbarkeit von SchweiÃŸverbindungswechsellinienâ€”-. Materialpruefung/Materials Testing, 2013, 55, 553-560.	0.8	11
83	Low Cycle Fatigue Behavior of Welded Components: A New Approach â€” Experiments and Numerical Simulation. , 2012, , .		4
84	Fatigue resistance of weld ends. Computational Materials Science, 2012, 52, 287-292.	1.4	15
85	Finite element based simulation of fatigue crack growth with a focus on elasticâ€”plastic material behavior. Computational Materials Science, 2012, 57, 73-79.	1.4	15
86	Considering size effects in the notch stress concept for fatigue assessment of welded joints. Computational Materials Science, 2012, 64, 71-78.	1.4	48
87	Strip yield model application for thermal cyclic loading. Computational Materials Science, 2012, 64, 265-269.	1.4	11
88	Statistical and geometrical size effects in notched members based on weakest-link and short-crack modelling. Engineering Fracture Mechanics, 2012, 95, 72-83.	2.0	53
89	Welded Connections of High-Strength Steels For The Building Industry. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 86-106.	1.3	22
90	Short-crack-growth-based fatigue assessment of notched components under multiaxial variable amplitude loading. Engineering Fracture Mechanics, 2011, 78, 1614-1627.	2.0	36

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91	Application of the notch stress concept to the real geometry of weld end points. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 289-297.	0.5	13
92	Fatigue resistance of weld ends – Analysis of the notch stress using real geometry. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 874-880.	0.5	15
93	Methods of detailed thermal fatigue evaluation of nuclear power plant components. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 1082-1092.	0.5	2
94	Simulation of fatigue crack growth under consideration of cyclic plasticity. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 1093-1098.	0.5	3
95	Numerical simulation of plasticity induced fatigue crack opening and closure for autofrettaged intersecting holes. <i>Engineering Fracture Mechanics</i> , 2011, 78, 559-572.	2.0	29
96	Fatigue of Constructional Steel S460 under Complex Cyclic Stress and Strain Sequences. <i>Procedia Engineering</i> , 2011, 10, 270-275.	1.2	4
97	Ermüdungslebensdauer von Baustahl unter komplexen Beanspruchungsabläufen am Beispiel des Stahles S460. <i>Materialprüfung/Materials Testing</i> , 2011, 53, 98-108.	0.8	9
98	Risswachstumsverhalten der Aluminiumlegierung AlMg4.5Mn unter proportionaler und nichtproportionaler Schwingbelastung. <i>Materialprüfung/Materials Testing</i> , 2011, 53, 109-117.	0.8	10
99	Festigkeitsbewertung für Strukturen mit Verzinkungsrissen. <i>Materialprüfung/Materials Testing</i> , 2011, 53, 144-149.	0.8	0
100	Zur Methodik der Ermüdungsbewertung von Komponenten der nuklearen Kraftwerkstechnik*. <i>Materialprüfung/Materials Testing</i> , 2011, 53, 407-417.	0.8	0
101	Fatigue assessment of thermal cyclic loading conditions based on a short crack approach. <i>Procedia Engineering</i> , 2010, 2, 1569-1578.	1.2	2
102	Mode I fatigue crack growth at notches considering crack closure. <i>International Journal of Fatigue</i> , 2010, 32, 1543-1558.	2.8	26
103	Fatigue crack growth behavior of fine-grained steel S460N under proportional and non-proportional loading. <i>Engineering Fracture Mechanics</i> , 2010, 77, 1822-1834.	2.0	30
104	Numerical Investigations of Phenomena Caused by the Closure and Growth Behavior of Short Cracks Under Thermal Cyclic Loading. , 2010, , .		3
105	Fatigue Assessment of Nuclear Power Plant Components Subjected to Thermal Cyclic Loading. , 2009, , .		5
106	Fatigue life predictions by integrating EVICD fatigue damage model and an advanced cyclic plasticity theory. <i>International Journal of Plasticity</i> , 2009, 25, 780-801.	4.1	42
107	Deformations and damage to metallic materials under multiaxial non-proportional loading. <i>Computational Materials Science</i> , 2009, 46, 555-560.	1.4	15
108	Preface - SoSDiD 2008 2nd Symposium on Structural Durability in Darmstadt, June 5-6, 2008, Darmstadt, Germany. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008, 39, 679-679.	0.5	0

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109	Current developments and trends on structural durability. Materialwissenschaft Und Werkstofftechnik, 2008, 39, 680-687.	0.5	4
110	Short crack approach for multiaxial fatigue assessment. Materialwissenschaft Und Werkstofftechnik, 2008, 39, 702-710.	0.5	12
111	Variable amplitude fatigue of autofrettaged diesel injection parts. Materialwissenschaft Und Werkstofftechnik, 2008, 39, 719-725.	0.5	14
112	A unified expression of elasticâ€“plastic notch stressâ€“strain calculation in bodies subjected to multiaxial cyclic loading. International Journal of Solids and Structures, 2008, 45, 6177-6189.	1.3	79
113	A material model for creep and fatigue applied to asphalt. , 2007, , 325-333.		0
114	A Unified Fatigue Life Calculation Model for Notched Components Based on Elastic-Plastic Fracture Mechanics. Key Engineering Materials, 2007, 348-349, 525-528.	0.4	1
115	An experimental evaluation of three critical plane multiaxial fatigue criteria. International Journal of Fatigue, 2007, 29, 1490-1502.	2.8	148
116	ErmÃ¼dungsrissausbreitung*. Materialpruefung/Materials Testing, 2007, 49, 70-80.	0.8	1
117	Fatigue Assessment of Truss Joints Based on Local Approaches. , 2007, , 281-286.		0
118	Endurance limit of autofrettaged Diesel-engine injection tubes with defects. Engineering Fracture Mechanics, 2006, 73, 3-21.	2.0	30
119	Deformation behaviour, short crack growth and fatigue lives under multiaxial nonproportional loading. International Journal of Fatigue, 2006, 28, 508-520.	2.8	79
120	Short fatigue crack growth under nonproportional multiaxial elasticâ€“plastic strains. International Journal of Fatigue, 2006, 28, 972-982.	2.8	72
121	Autofrettage innendruckbelasteter Bauteile. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 233-239.	0.5	11
122	Invarianten-basierte Mehrachsigkeitshypothese zur Anwendung bei Schwingbeanspruchung. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 1026-1038.	0.5	1
123	Simulation von SchÃ¼digungs- und KriechvorgÃ¤ngen im Asphalt. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 1018-1025.	0.5	1
124	Fatigue Crack Growth at Notches Considering Plasticity Induced Closure. , 2006, , 245-246.		1
125	Lebensdauerbewertung hochfester HybridschweiÃŸverbindungen unter Schwingbeanspruchung*. Materialpruefung/Materials Testing, 2006, 48, 352-357.	0.8	0
126	Short Fatigue Cracks in Notched and Unnotched Specimens under Non-Proportional Loading. , 2006, , 1221-1222.		0

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127	The development of a damage tolerance concept for railway components and its demonstration for a railway axle. Engineering Fracture Mechanics, 2005, 72, 209-239.	2.0	85
128	1st Symposium "Structural Durability" 09.-10. June 2005, in Darmstadt, Germany. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 631-631.	0.5	1
129	Fatigue of welded hybrid-joints. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 706-714.	0.5	6
130	Notch stress and strain approximation procedures for application with multiaxial nonproportional loading. Materialpruefung/Materials Testing, 2005, 47, 268-277.	0.8	16
131	Entwicklung eines Schadenstoleranz-Konzeptes für Komponenten des Rad/Schiene-Systems am Beispiel von Radsatzwellen. Materialpruefung/Materials Testing, 2005, 47, 316-323.	0.8	0
132	A plasticity model for calculating stress-strain sequences under multiaxial nonproportional cyclic loading. Computational Materials Science, 2003, 28, 587-596.	1.4	85
133	Schwingfestigkeitsanalyse eines geschweißten Winkelknotens auf der Basis von lokalen Konzepten. Stahlbau, 2003, 72, 245-253.	0.2	5
134	Damage Model of Gurson-Tvergaard-Needleman Applied to the Prediction of Initiation and Growth of Cracks in Case-Hardened Specimens Exposed to Overloads. Key Engineering Materials, 2003, 251-252, 319-326.	0.4	0
135	Anwendung von FE-basierten Schwingfestigkeitskonzepten auf Mismatch-Kreuzstverbindungen. Stahlbau, 2003, 72, 725-733.	0.2	3
136	Evaluation of fatigue of fillet welded joints in vehicle components under multiaxial service loads. European Structural Integrity Society, 2003, 31, 23-42.	0.1	3
137	Verformungsverhalten und rechnerische Abschätzung der Ermüdungslebensdauer metallischer Werkstoffe unter mehrachsig nichtproportionaler Beanspruchung. Materialwissenschaft Und Werkstofftechnik, 2002, 33, 280-288.	0.5	5
138	Residual stress fields and fatigue analysis of autofrettaged parts. International Journal of Pressure Vessels and Piping, 2002, 79, 113-117.	1.2	37
139	Kurzrischwachstum bei mehrachsig nichtproportionaler Beanspruchung. Materialwissenschaft Und Werkstofftechnik, 2001, 32, 329-336.	0.5	4
140	Hot-spot stress evaluation of fatigue in welded structural connections supported by finite element analysis. International Journal of Fatigue, 2000, 22, 85-91.	2.8	47
141	Spectrum Fatigue Life Assessment of Notched Specimens Using a Fracture Mechanics Based Approach. , 1994, , 221-240.		9
142	EXAMINATION OF SHORT-CRACK MEASUREMENT AND MODELLING UNDER CYCLIC INELASTIC CONDITIONS. Fatigue and Fracture of Engineering Materials and Structures, 1993, 16, 693-706.	1.7	4
143	A Fracture Mechanics Based Model for Cumulative Damage Assessment as Part of Fatigue Life Prediction. , 1992, , 28-43.		15
144	THE CONSEQUENCES OF SHORT CRACK CLOSURE ON FATIGUE CRACK GROWTH UNDER VARIABLE AMPLITUDE LOADING. Fatigue and Fracture of Engineering Materials and Structures, 1991, 14, 205-225.	1.7	155

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145	Improvement of fatigue life prediction accuracy for various realistic loading spectra by use of correction factors. International Journal of Fatigue, 1986, 8, 175-185.	2.8	14