

Michael Vormwald

List of Publications by Year in descending order

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145
papers

2,551
citations

236833

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46
g-index

152
all docs

152
docs citations

152
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	About the fatigue crack propagation threshold of metals as a design criterion – A review. Engineering Fracture Mechanics, 2016, 153, 190-243.	2.0	191
2	Safe life and damage tolerance aspects of railway axles – A review. Engineering Fracture Mechanics, 2013, 98, 214-271.	2.0	186
3	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
4	An experimental evaluation of three critical plane multiaxial fatigue criteria. International Journal of Fatigue, 2007, 29, 1490-1502.	2.8	148
5	A plasticity model for calculating stress–strain sequences under multiaxial nonproportional cyclic loading. Computational Materials Science, 2003, 28, 587-596.	1.4	85
6	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
7	Deformation behaviour, short crack growth and fatigue lives under multiaxial nonproportional loading. International Journal of Fatigue, 2006, 28, 508-520.	2.8	79
8	A unified expression of elastic–plastic notch stress–strain calculation in bodies subjected to multiaxial cyclic loading. International Journal of Solids and Structures, 2008, 45, 6177-6189.	1.3	79
9	Short fatigue crack growth under nonproportional multiaxial elastic–plastic strains. International Journal of Fatigue, 2006, 28, 972-982.	2.8	72
10	Fatigue strength and fracture mechanics – A general perspective. Engineering Fracture Mechanics, 2018, 198, 2-23.	2.0	72
11	Advanced Methods of Fatigue Assessment. , 2013, , .		63
12	Review of fatigue crack growth under non-proportional mixed-mode loading. International Journal of Fatigue, 2014, 58, 75-83.	2.8	59
13	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
14	Fatigue crack growth in cruciform welded joints: Influence of residual stresses and of the weld toe geometry. International Journal of Fatigue, 2017, 101, 253-262.	2.8	52
15	Considering size effects in the notch stress concept for fatigue assessment of welded joints. Computational Materials Science, 2012, 64, 71-78.	1.4	48
16	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
17	Fatigue life predictions by integrating EVICD fatigue damage model and an advanced cyclic plasticity theory. International Journal of Plasticity, 2009, 25, 780-801.	4.1	42
18	Statistical size effect on multiaxial fatigue strength of notched steel components. International Journal of Fatigue, 2017, 104, 322-333.	2.8	38

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19	Residual stress fields and fatigue analysis of autofrettaged parts. International Journal of Pressure Vessels and Piping, 2002, 79, 113-117.	1.2	37
20	Short-crack-growth-based fatigue assessment of notched components under multiaxial variable amplitude loading. Engineering Fracture Mechanics, 2011, 78, 1614-1627.	2.0	36
21	Cyclic J-integral: Numerical and analytical investigations for surface cracks in weldments. Engineering Fracture Mechanics, 2018, 198, 24-44.	2.0	35
22	Effect of cyclic plastic strain on fatigue crack growth. International Journal of Fatigue, 2016, 82, 80-88.	2.8	33
23	Endurance limit of autofrettaged Diesel-engine injection tubes with defects. Engineering Fracture Mechanics, 2006, 73, 3-21.	2.0	30
24	Fatigue crack growth behavior of fine-grained steel S460N under proportional and non-proportional loading. Engineering Fracture Mechanics, 2010, 77, 1822-1834.	2.0	30
25	Numerical simulation of plasticity induced fatigue crack opening and closure for autofrettaged intersecting holes. Engineering Fracture Mechanics, 2011, 78, 559-572.	2.0	29
26	Mode I fatigue crack growth at notches considering crack closure. International Journal of Fatigue, 2010, 32, 1543-1558.	2.8	26
27	Fatigue crack growth simulation under cyclic non-proportional mixed mode loading. International Journal of Fatigue, 2017, 102, 37-47.	2.8	26
28	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
29	Thermal gradient mechanical fatigue assessment of a nickel-based superalloy. International Journal of Fatigue, 2020, 135, 105486.	2.8	24
30	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
31	Applying fracture mechanics to fatigue strength determination – Some basic considerations. International Journal of Fatigue, 2019, 126, 188-201.	2.8	22
32	Considering fatigue load sequence effects by applying the Local Strain Approach and a fracture mechanics based damage parameter. Theoretical and Applied Fracture Mechanics, 2016, 83, 31-41.	2.1	21
33	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
34	Fatigue Crack Propagation under Large Cyclic Plastic Strain Conditions. , 2014, 3, 301-306.		18
35	Multiaxial fatigue assessment based on a short crack growth concept. Theoretical and Applied Fracture Mechanics, 2014, 73, 17-26.	2.1	17
36	Measurements of strain fields around crack tips under proportional and non-proportional mixed-mode fatigue loading. International Journal of Fatigue, 2016, 89, 87-98.	2.8	16

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37	Notch stress and strain approximation procedures for application with multiaxial nonproportional loading. <i>Materialpruefung/Materials Testing</i> , 2005, 47, 268-277.	0.8	16
38	Deformations and damage to metallic materials under multiaxial non-proportional loading. <i>Computational Materials Science</i> , 2009, 46, 555-560.	1.4	15
39	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
40	Fatigue resistance of weld ends. <i>Computational Materials Science</i> , 2012, 52, 287-292.	1.4	15
41	Finite element based simulation of fatigue crack growth with a focus on elastic–plastic material behavior. <i>Computational Materials Science</i> , 2012, 57, 73-79.	1.4	15
42	A Fracture Mechanics Based Model for Cumulative Damage Assessment as Part of Fatigue Life Prediction. , 1992, , 28-43.		15
43	Improvement of fatigue life prediction accuracy for various realistic loading spectra by use of correction factors. <i>International Journal of Fatigue</i> , 1986, 8, 175-185.	2.8	14
44	Variable amplitude fatigue of autofrettaged diesel injection parts. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008, 39, 719-725.	0.5	14
45	Multiaxial fatigue assessment of tube-tube steel joints with weld ends using the peak stress method. <i>International Journal of Fatigue</i> , 2020, 135, 105495.	2.8	14
46	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
47	Numerical analysis of residual stresses and crack closure during cyclic loading of a longitudinal gusset. <i>Engineering Fracture Mechanics</i> , 2018, 198, 65-78.	2.0	13
48	Short crack approach for multiaxial fatigue assessment. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008, 39, 702-710.	0.5	12
49	Classification of Load Sequence Effects in Metallic Structures. <i>Procedia Engineering</i> , 2015, 101, 534-542.	1.2	12
50	Autofrettage innendruckbelasteter Bauteile. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006, 37, 233-239.	0.5	11
51	Strip yield model application for thermal cyclic loading. <i>Computational Materials Science</i> , 2012, 64, 265-269.	1.4	11
52	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
53	Schwingfestigkeit von Schweißnahtenden und Übertragbarkeit von Schweißverbindungs-„Therlinien“. <i>Materialpruefung/Materials Testing</i> , 2013, 55, 553-560.	0.8	11
54	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

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55	Experimental study of crack growth under non-proportional loading along with first modeling attempts. International Journal of Fatigue, 2016, 92, 426-433.	2.8	10
56	Fatigue strength and fracture mechanics. Procedia Structural Integrity, 2017, 5, 745-752.	0.3	10
57	Fatigue strength of autofrettaged Diesel injection system components under elevated temperature. International Journal of Fatigue, 2018, 113, 428-437.	2.8	10
58	Risswachstumsverhalten der Aluminiumlegierung AlMg4.5Mn unter proportionaler und nichtproportionaler Schwingbelastung. Materialpruefung/Materials Testing, 2011, 53, 109-117.	0.8	10
59	Variable mode-mixity during fatigue cycles " crack tip parameters determined from displacement fields measured by digital image correlation. Frattura Ed Integrita Strutturale, 2017, 11, 314-322.	0.5	10
60	Elastic-Plastic Fatigue Crack Growth. , 2013, , 391-481.		9
61	Fatigue of weld ends under combined loading. International Journal of Fatigue, 2017, 100, 627-638.	2.8	9
62	Energy driven integration of incremental notch stress-strain approximation for multiaxial cyclic loading. International Journal of Fatigue, 2021, 145, 106043.	2.8	9
63	Spectrum Fatigue Life Assessment of Notched Specimens Using a Fracture Mechanics Based Approach. , 1994, , 221-240.		9
64	ErmÄ¼dungslbensdauer von Baustahl unter komplexen Beanspruchungsabläufen am Beispiel des Stahles S460. Materialpruefung/Materials Testing, 2011, 53, 98-108.	0.8	9
65	Damage Assessment of Threaded Connections based on an Advanced Material Model and Local Concepts. Procedia Engineering, 2014, 74, 119-128.	1.2	8
66	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
67	Damage mechanisms in PBT-GF30 under thermo-mechanical cyclic loading. AIP Conference Proceedings, 2014, , .	0.3	7
68	Berechnung von Anrisslbensdauern auf Basis des Ä–rtlichen Konzepts. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 887-896.	0.5	7
69	Introduction to the new FKM guideline which considers nonlinear material behaviour. MATEC Web of Conferences, 2018, 165, 10014.	0.1	7
70	Fatigue of welded hybrid-joints. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 706-714.	0.5	6
71	Configurational forces and J-integrals in cyclic metal plasticity. Theoretical and Applied Fracture Mechanics, 2020, 108, 102565.	2.1	6
72	Verformungsverhalten und rechnerische AbschÄtzung der ErmÄ¼dungslbensdauer metallischer Werkstoffe unter mehrachsig nichtproportionaler Beanspruchung. Materialwissenschaft Und Werkstofftechnik, 2002, 33, 280-288.	0.5	5

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73	Schwingfestigkeitsanalyse eines geschweißten Winkelknotens auf der Basis von lokalen Konzepten. Stahlbau, 2003, 72, 245-253.	0.2	5
74	Fatigue Assessment of Nuclear Power Plant Components Subjected to Thermal Cyclic Loading. , 2009, , .		5
75	Low Cycle Fatigue of Seam Welds – Numerical Simulation under Consideration of Material Inhomogeneities. Procedia Engineering, 2014, 74, 218-227.	1.2	5
76	Simulation of fatigue crack growth in welded joints. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 110-122.	0.5	5
77	Calculation of stress intensity factors from shell elements under mixed mode loading. International Journal of Fatigue, 2020, 134, 105447.	2.8	5
78	On Scaled Normal Stresses in Multiaxial Fatigue and Their Exemplary Application to Ductile Cast Iron. Applied Mechanics, 2022, 3, 259-295.	0.7	5
79	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
80	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
81	Kurzrischwachstum bei mehrachsig nichtproportionaler Beanspruchung. Materialwissenschaft Und Werkstofftechnik, 2001, 32, 329-336.	0.5	4
82	Current developments and trends on structural durability. Materialwissenschaft Und Werkstofftechnik, 2008, 39, 680-687.	0.5	4
83	Fatigue of Constructional Steel S460 under Complex Cyclic Stress and Strain Sequences. Procedia Engineering, 2011, 10, 270-275.	1.2	4
84	Low Cycle Fatigue Behavior of Welded Components: A New Approach – Experiments and Numerical Simulation. , 2012, , .		4
85	Fatigue Behavior of Butt Weld Seams: Experimental Investigation and Numerical Simulation. , 2014, , .		4
86	Experimental characterization and numerical assessment of fatigue crack growth under thermo-mechanical conditions. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 165-177.	0.5	4
87	Analysis of an elastic elliptical inclusion in an infinite elastic plate under uniform remote tension based on the solution of the corresponding cavity problem. Journal of Strain Analysis for Engineering Design, 2017, 52, 515-527.	1.0	4
88	Engineering approaches to multiaxial and non-proportional fatigue of notched components. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 381-391.	0.5	4
89	Structural strain approach to assess thermo-mechanical fatigue of thin-walled welded joints. International Journal of Fatigue, 2020, 139, 105722.	2.8	4
90	Measurement and simulation of strain fields around crack tips under mixed-mode fatigue loading. Frattura Ed Integrita Strutturale, 2015, 9, 42-55.	0.5	4

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91	Thermodynamics and Analysis of Predicted Responses of a Phase Field Model for Ductile Fracture. <i>Materials</i> , 2021, 14, 5842.	1.3	4
92	Anwendung von FE-basierten Schwingfestigkeitskonzepten auf Mismatch-Kreuzstoßverbindungen. <i>Stahlbau</i> , 2003, 72, 725-733.	0.2	3
93	Evaluation of fatigue of fillet welded joints in vehicle components under multiaxial service loads. <i>European Structural Integrity Society</i> , 2003, 31, 23-42.	0.1	3
94	Simulation of fatigue crack growth under consideration of cyclic plasticity. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 1093-1098.	0.5	3
95	Geometrical Influence of a Butt Weld in the Low Cycle Fatigue Regime. <i>Procedia Engineering</i> , 2013, 66, 73-78.	1.2	3
96	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
97	Numerical Investigations of Seam Welds Under Low Cycle Fatigue: Proposal for Lifetime Estimation and Recommendations for Design With Commonly Used Guidelines. , 2015, , .		3
98	Modellierung des Ermüdungsrisswachstums in Schweißverbindungen unter Berücksichtigung von Schweißzugspannungen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 923-934.	0.5	3
99	Modeling short crack propagation under variable structural and thermal loadings. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 1652-1674.	1.7	3
100	Numerical Investigations of Phenomena Caused by the Closure and Growth Behavior of Short Cracks Under Thermal Cyclic Loading. , 2010, , .		3
101	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
102	Measurement and simulation of crack growth rate and direction under non-proportional loadings. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, .	0.5	3
103	Fatigue assessment of thermal cyclic loading conditions based on a short crack approach. <i>Procedia Engineering</i> , 2010, 2, 1569-1578.	1.2	2
104	Methods of detailed thermal fatigue evaluation of nuclear power plant components. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 1082-1092.	0.5	2
105	Development of a Model for Low-Cycle Fatigue Assessment of 347 SS Butt-Welded Joints. , 2013, , .		2
106	Fatigue Life of Welded Joints of AISI 347 Stainless Steel Under Thermomechanical and Variable Amplitude Loading. , 2018, , .		2
107	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
108	The non-proportionality of local stress paths in engineering applications. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 52-59.	0.5	2

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109	Autofrettage of high-pressure components made of ultra-high-strength-steel. Procedia Structural Integrity, 2022, 37, 948-955.	0.3	2
110	Estimation of the fatigue strength of ultra-high strength steels. Procedia Structural Integrity, 2022, 37, 500-507.	0.3	2
111	1st Symposium "Structural Durability" - 09.-10. June 2005, in Darmstadt, Germany. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 631-631.	0.5	1
112	Invarianten-basierte Mehrachsigkeitshypothese zur Anwendung bei Schwingbeanspruchung. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 1026-1038.	0.5	1
113	Simulation von Schädigungs- und Kriechvorgängen im Asphalt. Materialwissenschaft Und Werkstofftechnik, 2006, 37, 1018-1025.	0.5	1
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	Schwingfestigkeitsbewertung von Nahtenden unter kombinierter Beanspruchung. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 904-910.	0.5	1
116	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
117	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
118	Guest editorial: Characterisation of crack tip fields-CCTF5. International Journal of Fatigue, 2020, 140, 105618.	2.8	1
119	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
120	Fatigue Crack Growth at Notches Considering Plasticity Induced Closure. , 2006, , 245-246.		1
121	Ermüdungsrissausbreitung*. Materialprüfung/Materials Testing, 2007, 49, 70-80.	0.8	1
122	Autofrettage of component-like ultra high Strength Steel Specimens with intersecting Holes. MATEC Web of Conferences, 2021, 349, 04004.	0.1	1
123	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
124	A material model for creep and fatigue applied to asphalt. , 2007, , 325-333.		0
125	Preface - SoSDiD 2008 2nd Symposium on Structural Durability in Darmstadt, June 5-6, 2008, Darmstadt, Germany. Materialwissenschaft Und Werkstofftechnik, 2008, 39, 679-679.	0.5	0
126	Transferability of fatigue resistance data for welded joints. MATEC Web of Conferences, 2014, 12, 05006.	0.1	0

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127	Special Issue on "Multiaxial Fracture 2016": Selected papers from the 11th International Conference on Multiaxial Fatigue and Fracture (ICMFF11), held in Seville, Spain, on 1-3 June 2016. Engineering Fracture Mechanics, 2017, 174, 1.	2.0	0
128	Elastic plastic approximation procedure for notched bodies subjected to thermal transient loadings. Procedia Engineering, 2018, 213, 754-761.	1.2	0
129	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
130	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
131	Short fatigue crack growth in welded joints described by the effective cyclic J-integral. MATEC Web of Conferences, 2018, 165, 09002.	0.1	0
132	Configurational forces in cyclic metal plasticity. MATEC Web of Conferences, 2019, 300, 08009.	0.1	0
133	The contrast of simplicity and accuracy in modeling multiaxial notch fatigue. MATEC Web of Conferences, 2019, 300, 13003.	0.1	0
134	Observations and modelling of non-proportional mixed mode cyclic loading. MATEC Web of Conferences, 2019, 300, 01002.	0.1	0
135	Characterisation of crack tip fields "CCTF5. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1609-1610.	1.7	0
136	Entwicklung eines Schadenstoleranz-Konzeptes für Komponenten des Rad/Schiene-Systems am Beispiel von Radsatzwellen. Materialprüfung/Materials Testing, 2005, 47, 316-323.	0.8	0
137	Lebensdauerbewertung hochfester Hybridschweißverbindungen unter Schwingbeanspruchung*. Materialprüfung/Materials Testing, 2006, 48, 352-357.	0.8	0
138	Fatigue Assessment of Truss Joints Based on Local Approaches. , 2007, , 281-286.		0
139	Festigkeitsbewertung für Strukturen mit Verzinkungsrissen. Materialprüfung/Materials Testing, 2011, 53, 144-149.	0.8	0
140	Zur Methodik der Ermüdungsbewertung von Komponenten der nuklearen Kraftwerkstechnik*. Materialprüfung/Materials Testing, 2011, 53, 407-417.	0.8	0
141	Schwingfestigkeit von thermo-mechanisch beanspruchten Stumpfschweißverbindungen austenitischer Werkstoffe. Materialprüfung/Materials Testing, 2016, 58, 652-659.	0.8	0
142	Fatigue of weld ends under combined in- and out-of-phase multiaxial loading. Frattura Ed Integrita Strutturale, 2016, 10, 114-120.	0.5	0
143	Sharp three-dimensional notches under combined nominal normal and shear fatigue loading. Frattura Ed Integrita Strutturale, 2017, 11, 114-122.	0.5	0
144	Short Fatigue Cracks in Notched and Unnotched Specimens under Non-Proportional Loading. , 2006, , 1221-1222.		0

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145	Discussion of hardening effects on phase field models for fracture. MATEC Web of Conferences, 2021, 349, 02001.	0.1	0