

# Wim De Waele

## List of Publications by Year in descending order

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186  
papers

1,747  
citations

279798

23  
h-index

361022

35  
g-index

192  
all docs

192  
docs citations

192  
times ranked

1299  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of internal volumetric imperfections on the tearing resistance curve of welded Single Edge notched Tension (SENT) specimens. <i>Engineering Fracture Mechanics</i> , 2022, 259, 108162.	4.3	1
2	Development and Evaluation of the Ultrasonic Welding Process for Copper-Aluminium Dissimilar Welding. <i>Journal of Manufacturing and Materials Processing</i> , 2022, 6, 6.	2.2	10
3	Effects of Fixture Configurations and Weld Strength Mismatch on J-Integral Calculation Procedure for SE(B) Specimens. <i>Materials</i> , 2022, 15, 962.	2.9	2
4	An X-FEM based framework for 3D fatigue crack growth using a B-spline crack geometry description. <i>Engineering Fracture Mechanics</i> , 2022, 261, 108238.	4.3	8
5	Interaction between surface breaking and embedded circumferential flaws in tension loaded (pressurized) steel pipes. <i>International Journal of Pressure Vessels and Piping</i> , 2022, 198, 104657.	2.6	0
6	Fatigue damage and life evaluation of thick material double strap joints for use in marine applications. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 2099-2111.	3.4	7
7	Fracture mechanics and hot spot stress-based fatigue life calculation: Case study for a crane runway girder. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 2662-2675.	3.4	3
8	A Study On Effects of Flaw Shape Idealization On the Interaction of Co-Planar Surface Flaws Subjected to Tension Load. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2022, , .	0.6	0
9	Stress concentration factors of multi-planar tubular KT-joints subjected to in-plane bending moments. <i>Marine Structures</i> , 2021, 78, 103000.	3.8	19
10	Electrical admittance of a circular piezoelectric transducer and chargeless deformation effect. <i>Smart Materials and Structures</i> , 2021, 30, 085039.	3.5	0
11	Influence of weld porosity on crack size estimations in Single Edge Notched Tension (SENT) testing of steels: A numerical study. <i>Engineering Fracture Mechanics</i> , 2021, 255, 107942.	4.3	0
12	Fully-coupled continuum damage model for simulation of plasticity dominated hydrogen embrittlement mechanisms. <i>Computational Materials Science</i> , 2021, 200, 110857.	3.0	14
13	Cumulative Damage and Life Prediction Models for High-Cycle Fatigue of Metals: A Review. <i>Metals</i> , 2021, 11, 204.	2.3	68
14	Fatigue assessment of a steel truss bridge based on multi-dimensional finite element modelling. , 2021, , .		0
15	Fatigue Crack Propagation in HSLA Steel Specimens Subjected to Unordered and Ordered Load Spectra. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 718-727.	0.4	0
16	A numerical framework for determination of stress concentration factor distributions in tubular joints. <i>International Journal of Mechanical Sciences</i> , 2020, 174, 105511.	6.7	7
17	A comprehensive study on the microstructure and mechanical properties of arc girth welded joints of spiral welded high strength API X70 steel pipe. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	11
18	Comment on the Paper Entitled "A New Cumulative Fatigue Damage Rule Based on Dynamic Residual S-N Curve and Material Memory Concept" by Peng Z., Huang H., Zhou J. and Li Y. Published in <i>Metals</i> (2018; 8) Tj ETQn 0 0 rgBT /Overlock		0

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19	Modeling nonlinear fatigue damage accumulation in a welded runway girder. <i>Procedia Structural Integrity</i> , 2020, 28, 239-252.	0.8	1
20	A Numerical framework for fatigue lifetime prediction of complex welded structures. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 552-566.	0.9	8
21	Unified methodology for characterisation of global fatigue damage evolution in adhesively bonded joints. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 26-37.	0.9	6
22	Evaluation of fatigue crack propagation in steel ESET specimens subjected to variable load spectra. <i>Procedia Structural Integrity</i> , 2020, 28, 253-265.	0.8	1
23	Crack tip constraint analysis in welded joints with pronounced strength and toughness heterogeneity. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 103, 102293.	4.7	10
24	Experimental evaluation of block loading effects on fatigue crack growth in offshore structural steels. <i>Marine Structures</i> , 2019, 64, 463-480.	3.8	8
25	Electromagnetic Pulse Welding of Tubular Products: Influence of Process Parameters and Workpiece Geometry on the Joint Characteristics and Investigation of Suitable Support Systems for the Target Tube. <i>Metals</i> , 2019, 9, 514.	2.3	15
26	Weldability of high-strength aluminium alloy EN AW-7475-T761 sheets for aerospace applications, using refill friction stir spot welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1001-1011.	2.5	28
27	Constraint corrected cycle-by-cycle analysis of crack growth retardation under variable amplitude fatigue loading. <i>International Journal of Fatigue</i> , 2019, 125, 199-209.	5.7	9
28	Tearing resistance of heterogeneous welds in Single Edge notched Tensile (SE(T)) testing. <i>Engineering Fracture Mechanics</i> , 2019, 214, 194-211.	4.3	2
29	Measurement of CTOD along a surface crack by means of digital image correlation. <i>Engineering Fracture Mechanics</i> , 2019, 205, 470-485.	4.3	15
30	Rapid Determination of Fretting Fatigue Limit by Infrared Thermography. <i>Experimental Mechanics</i> , 2018, 58, 259-267.	2.0	5
31	Effects of Flaw Shape (Idealization) on the Interaction of Co-Planar Surface Flaws. , 2018, , .		1
32	Calibration of Hardness Transfer Functions Based on Micro Tensile and All Weld Metal Tensile Tests of Heterogeneous Welds. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
33	Effect of crack length on fracture toughness of welded joints with pronounced strength heterogeneity. <i>Procedia Structural Integrity</i> , 2018, 13, 1895-1900.	0.8	1
34	Analytical limit load predictions in heterogeneous welded single edge notched tension specimens. <i>Procedia Structural Integrity</i> , 2018, 13, 1725-1730.	0.8	2
35	Total Cost of Ownership Optimization of Manufacturing Machines with Fast Energy Storage. , 2018, , .		2
36	Influence of Material Heterogeneity on the Strain Capacity of Pipelines. , 2018, , .		1

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37	Identification and Prediction of Mixed-Mode Fatigue Crack Path in High Strength Low Alloy Steel. Proceedings (mdpi), 2018, 2, .	0.2	0
38	Finite Element Analysis of Fretting Fatigue Fracture in Lug Joints Made of High Strength Steel. MATEC Web of Conferences, 2018, 165, 11005.	0.2	0
39	A Non-Linear Model for Corrosion Fatigue Lifetime Based on Continuum Damage Mechanics. MATEC Web of Conferences, 2018, 165, 03003.	0.2	1
40	Using 3D Digital Image Correlation (3D-DIC) to Measure CTOD in a Semi-Elliptical Surface Crack. Proceedings (mdpi), 2018, 2, 451.	0.2	2
41	Crack driving force prediction in heterogeneous welds using Vickers hardness maps and hardness transfer functions. Engineering Fracture Mechanics, 2018, 201, 322-335.	4.3	7
42	A strain-based approach to study interaction between non-coplanar through-thickness edge notches. Journal of Strain Analysis for Engineering Design, 2018, 53, 687-698.	1.8	2
43	Experimental-Numerical Assessment of Vintage Pipe and Girth Weld With a Geometrically Complex Corrosion Feature. , 2018, , .		0
44	Evaluation of Methodologies to Accelerate Corrosion Assisted Fatigue Experiments. Experimental Mechanics, 2017, 57, 547-557.	2.0	5
45	Experimental and numerical study on effect of forming process on low-cycle fatigue behaviour of high-strength steel. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 2050-2067.	3.4	11
46	Shear behaviour of prestressed precast SFRC girders. Engineering Structures, 2017, 142, 20-35.	5.3	11
47	Assessment of hyperelastic material models for the application of adhesive point-fixings between glass and metal. International Journal of Adhesion and Adhesives, 2017, 77, 102-117.	2.9	23
48	Strain Capacity of Girth Welded Joints in HSAW Pipes. , 2017, , .		0
49	Ductile Tearing of Welds in Pipe Submitted to Cyclic Loading. , 2017, , .		1
50	Crack growth characterization in single-edge notched tension testing by means of direct current potential drop measurement. International Journal of Pressure Vessels and Piping, 2017, 156, 68-78.	2.6	24
51	Scale Effects Influence on the Fatigue Crack Growth of an Offshore Steel. , 2017, , .		0
52	A novel flaw alignment approach based on the analysis of bands of maximum strain using full-field deformation measurements. Procedia Structural Integrity, 2017, 5, 1245-1252.	0.8	2
53	Evaluation of slip line theory assumptions for integrity assessment of defected welds loaded in tension. Procedia Structural Integrity, 2017, 5, 1417-1424.	0.8	2
54	On the Application of Infrared Thermography and Potential Drop for the Accelerated Determination of an S-N Curve. Experimental Mechanics, 2017, 57, 143-153.	2.0	14

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55	On-line detection of fretting fatigue crack initiation by lock-in thermography. Tribology International, 2017, 108, 150-155.	5.9	11
56	Elastic-plastic defect interaction in (a)symmetrical double edge notched tension specimens. AIMS Materials Science, 2017, 4, 277-291.	1.4	5
57	Evaluation of Weld Homogenization Schemes Based on Plastic Loading of Single Edge Notched Tension (SE(T)) Tests. , 2017, , .		0
58	Cycle-by-cycle simulation of variable amplitude fatigue crack propagation. International Journal Sustainable Construction & Design, 2017, 8, 8.	0.1	2
59	Feasibility study on measuring axial and transverse stress/strain components in composite materials using Bragg sensors. , 2017, , .		0
60	Experimental and numerical slip line analysis of welded single-edge notched tension specimens. Procedia Structural Integrity, 2016, 2, 1763-1770.	0.8	4
61	On effect of pre-bending process on low cycle fatigue behaviour of high strength steel using lock-in thermography. Procedia Structural Integrity, 2016, 2, 3135-3142.	0.8	2
62	Influence of pipe steel heterogeneity of the upper bound tensile strain capacity of pipeline girth welds: A validation study. Engineering Fracture Mechanics, 2016, 162, 121-135.	4.3	6
63	Evaluation and Comparison of Double Clip Gauge Method and Delta 5 Method for CTOD Measurement in SE(T) Specimens. Journal of Testing and Evaluation, 2016, 44, 2414-2423.	0.7	11
64	Characterization of heterogeneous arc welds through miniature tensile testing and Vickers-hardness mapping. Materiali in Tehnologije, 2016, 50, 571-574.	0.5	4
65	Experimental investigation of the weldability of high strength aluminium using friction spot welding. International Journal Sustainable Construction & Design, 2016, 7, 8.	0.1	3
66	Evaluation of a finite element model for SENT testing of welded connections. International Journal Sustainable Construction & Design, 2016, 7, 7.	0.1	0
67	Online fatigue crack growth monitoring with clip gauge and direct current potential drop. International Journal Sustainable Construction & Design, 2016, 7, 6.	0.1	2
68	Accelerating corrosion in a laboratory set-up for corrosion-fatigue of offshore steels. International Journal Sustainable Construction & Design, 2016, 7, 6.	0.1	1
69	Single-specimen evaluation of tearing resistance in SENT testing. Engineering Fracture Mechanics, 2015, 148, 324-336.	4.3	14
70	Comparison of Fatigue Design Codes With Focus on Offshore Structures. , 2015, , .		1
71	A complementary $\hat{\epsilon}$ -pl approach in J and CTOD estimations for clamped SENT specimens. Engineering Fracture Mechanics, 2015, 147, 36-54.	4.3	21
72	Evaluation of a numerical model for tapered threaded connections subjected to combined loading using enhanced experimental measurement techniques. Journal of Strain Analysis for Engineering Design, 2015, 50, 561-570.	1.8	3

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73	Efficient Fatigue Testing of Tubular Joints. , 2015, , .		0
74	Enhancing Trapezoidal Threads Using a Parametric Numerical Approach. , 2015, , .		0
75	Framework for Key Influences on Tensile Strain Capacity of Flawed Girth Welds. Journal of Pressure Vessel Technology, Transactions of the ASME, 2015, 137, .	0.6	1
76	Comparison of girth weld tearing resistance obtained from Curved Wide Plate and Single Edge Notch Tensile testing. Engineering Fracture Mechanics, 2015, 148, 406-420.	4.3	6
77	Effects of specimen geometry and anisotropic material response on the tensile strain capacity of flawed spiral welded pipes. Engineering Fracture Mechanics, 2015, 148, 350-362.	4.3	8
78	Evaluation of stress integration algorithms for elastic-plastic constitutive models based on associated and non-associated flow rules. Computer Methods in Applied Mechanics and Engineering, 2015, 295, 414-445.	6.6	40
79	Fracture mechanics analysis of heterogeneous welds: Numerical case studies involving experimental heterogeneity patterns. Engineering Failure Analysis, 2015, 58, 336-350.	4.0	14
80	Review on the possible tool materials for friction stir welding of steel plates. International Journal Sustainable Construction & Design, 2015, 5, 8.	0.1	2
81	Characterisation of weld heterogeneity through hardness mapping and miniature tensile testing. International Journal Sustainable Construction & Design, 2015, 6, 8.	0.1	2
82	Characterization of slip lines in single edge notched tension specimens. International Journal Sustainable Construction & Design, 2015, 6, 7.	0.1	1
83	Testing methodologies for corrosion fatigue. International Journal Sustainable Construction & Design, 2015, 6, 10.	0.1	2
84	Effects of variable amplitude loading on fatigue life. International Journal Sustainable Construction & Design, 2015, 6, 10.	0.1	7
85	Instrumented indentation for determination of full range stress-strain curves. International Journal Sustainable Construction & Design, 2015, 5, 6.	0.1	1
86	R-curve evaluation of pipeline girth welds using advanced measurement techniques. International Journal Sustainable Construction & Design, 2015, 5, 10.	0.1	0
87	Influence of notch orientation on ductile tearing in SENT specimens. International Journal Sustainable Construction & Design, 2015, 5, 8.	0.1	0
88	The influence of material anisotropy and spiral welding on tensile strain capacity of spiral welded pipes. International Journal Sustainable Construction & Design, 2015, 6, 9.	0.1	2
89	Evaluation of ductile tearing for API-5L X70 pipeline grade steel using SENT specimens. International Journal Sustainable Construction & Design, 2015, 6, 8.	0.1	0
90	Low temperature tensile properties of line pipe steels. International Journal Sustainable Construction & Design, 2015, 6, 8.	0.1	1

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91	Constraint analysis of defects in strength mismatched girth welds of (pressurized) pipe and Curved Wide Plate tensile test specimens. <i>Engineering Fracture Mechanics</i> , 2014, 131, 128-141.	4.3	16
92	Validating numerically predicted make-up of threaded connections using digital image correlation and infrared monitoring. <i>Journal of Strain Analysis for Engineering Design</i> , 2014, 49, 492-500.	1.8	5
93	Effects of Weld Strength Heterogeneity on Crack Driving Force in Stress and Strain Based Design Scenarios. , 2014, , .		0
94	Determination of CTOD Resistance Curves in SENT Specimens With a Tilted Notch. , 2014, , .		2
95	Optimal Make-Up Torque for Trapezoidal Threaded Connections Subjected to Combined Axial Tension and Internal Pressure Loading. , 2014, , .		0
96	J-integral analysis of heterogeneous mismatched girth welds in clamped single-edge notched tension specimens. <i>International Journal of Pressure Vessels and Piping</i> , 2014, 119, 95-107.	2.6	26
97	On the use of digital image correlation for slip measurement during coupon scale fretting fatigue experiments. <i>International Journal of Solids and Structures</i> , 2014, 51, 3058-3066.	2.7	19
98	Advanced characterization of heterogeneous arc welds using micro tensile tests and a two-stage strain hardening (â€”UGentâ€™™) model. <i>International Journal of Pressure Vessels and Piping</i> , 2014, 119, 87-94.	2.6	27
99	Study on the definition of equivalent plastic strain under non-associated flow rule for finite element formulation. <i>International Journal of Plasticity</i> , 2014, 58, 219-238.	8.8	62
100	Fracture Mechanics Analysis of Heterogeneous Welds: Validation of a Weld Homogenisation Approach. , 2014, 3, 1322-1329.		7
101	Digital image correlation as a tool for three-dimensional strain analysis in human tendon tissue. <i>Journal of Experimental Orthopaedics</i> , 2014, 1, 7.	1.8	50
102	Effects of pipe steel heterogeneity on the tensile strain capacity of a flawed pipeline girth weld. <i>Engineering Fracture Mechanics</i> , 2014, 115, 172-189.	4.3	17
103	Evaluation and interpretation of ductile crack extension in SENT specimens using unloading compliance technique. <i>Engineering Fracture Mechanics</i> , 2014, 115, 190-203.	4.3	35
104	An evolutionary anisotropic model for sheet metals based on non-associated flow rule approach. <i>Computational Materials Science</i> , 2014, 81, 15-29.	3.0	84
105	Determination of CTOD resistance curves in side-grooved Single-Edge Notched Tensile specimens using full field deformation measurements. <i>Engineering Fracture Mechanics</i> , 2013, 110, 12-22.	4.3	33
106	Global collapse and J integral analysis for inner-diameter defected curved plates in tension. <i>International Journal of Pressure Vessels and Piping</i> , 2013, 111-112, 44-53.	2.6	1
107	Residual strain-induced birefringent FBGs for multi-axial strain monitoring of CFRP composite laminates. <i>NDT and E International</i> , 2013, 54, 142-150.	3.7	24
108	Evaluation of anisotropic constitutive models: Mixed anisotropic hardening and non-associated flow rule approach. <i>International Journal of Mechanical Sciences</i> , 2013, 73, 53-68.	6.7	68

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109	Sensitivity of Plastic Response of Defective Pipeline Girth Welds to the Stress-Strain Behavior of Base and Weld Metal. Journal of Offshore Mechanics and Arctic Engineering, 2013, 135, .	1.2	0
110	Weld Strength Mismatch in Strain Based Flaw Assessment: Which Definition to Use?. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.6	8
111	Effect of Make-Up on the Structural Performance of Standard Buttress Connections Subjected to Tensile Loading. , 2013, , .		3
112	The Influence of Connection Geometry on the Fatigue Life of National Pipe Thread Threaded Pipe Couplings. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.6	2
113	Framework for Key Influences on Tensile Strain Capacity of Flawed Girth Welds. , 2013, , .		4
114	Latest developments in mechanical properties and metallurgical features of high strength line pipe steels. International Journal Sustainable Construction & Design, 2013, 4, .	0.1	17
115	Parametric finite element model for spiral welded pipes sections loaded in tension. International Journal Sustainable Construction & Design, 2013, 4, .	0.1	1
116	Evolution of anisotropy of sheet metals during plastic deformation. International Journal Sustainable Construction & Design, 2013, 4, .	0.1	2
117	Considerations in selecting laboratory scale test specimens for evaluation of fracture toughness. International Journal Sustainable Construction & Design, 2013, 4, .	0.1	3
118	Combined numerical-experimental framework for strain based design and flaw assessment of girth welds. International Journal Sustainable Construction & Design, 2013, 4, .	0.1	0
119	Investigation of strain measurements in (curved) wide plate specimens using digital image correlation and finite element analysis. Journal of Strain Analysis for Engineering Design, 2012, 47, 276-288.	1.8	15
120	Characterization of Melting and Solidification Phenomena in Electromagnetic Punching of Aluminum Tubes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	2.2	0
121	Evaluation of Associated and Non-Associated Flow Metal Plasticity; Application for DC06 Deep Drawing Steel. Key Engineering Materials, 2012, 504-506, 661-666.	0.4	1
122	Resonant Bending Fatigue Test Setup for Pipes With Optical Displacement Measuring System. Journal of Offshore Mechanics and Arctic Engineering, 2012, 134, .	1.2	6
123	Comparison of Pipeline Girth Weld Defect Acceptance at the Onset of Yielding According to CSA Z662 and EPRG Guidelines. , 2012, , .		0
124	Curved Wide Plate Testing With Advanced Instrumentation and Interpretation. , 2012, , .		3
125	Weld Strength Mismatch in Strain Based Flaw Assessment: Which Definition to Use?. , 2012, , .		1
126	Parametric finite element model for large scale tension tests on flawed pipeline girth welds. Advances in Engineering Software, 2012, 47, 24-34.	3.8	17



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127	Full-range stress-strain behaviour of contemporary pipeline steels: Part I. Model description. International Journal of Pressure Vessels and Piping, 2012, 92, 34-40.	2.6	35
128	Full-range stress-strain behaviour of contemporary pipeline steels: Part II. Estimation of model parameters. International Journal of Pressure Vessels and Piping, 2012, 92, 27-33.	2.6	14
129	Pressure Correction Factor for Strain Capacity Predictions Based on Curved Wide Plate Testing. , 2012, , .		5
130	Experimental validation of a numerically determined multi-axial strain transfer from CFRP-laminates to embedded Bragg sensors. Proceedings of SPIE, 2011, , .	0.8	1
131	Sensitivity of Plastic Response of Defective Pipeline Girth Welds to the Stress-Strain Behavior of Base and Weld Metal. , 2011, , .		1
132	Fatigue Crack Growth Behavior of Threaded Pipe Couplings. , 2011, , .		0
133	Development of an analytical reference stress equation for inner-diameter defected curved plates in tension. International Journal of Pressure Vessels and Piping, 2011, 88, 256-261.	2.6	3
134	Evaluation of fatigue crack propagation in a threaded pipe connection using an optical dynamic 3D displacement analysis technique. Engineering Failure Analysis, 2011, 18, 1115-1121.	4.0	15
135	A generic stress-strain model for metallic materials with two-stage strain hardening behaviour. International Journal of Non-Linear Mechanics, 2011, 46, 519-531.	2.6	60
136	Finite Element Analysis of Influence of Material Anisotropy on the Springback of Advanced High Strength Steel. AIP Conference Proceedings, 2011, , .	0.4	4
137	Validation of a wide plate finite element model using digital image correlation. International Journal Sustainable Construction & Design, 2011, 2, 416-423.	0.1	4
138	Limit Load and Reference Stress for Curved Wide Plates. , 2010, , .		1
139	Fatigue Life Improvement of Threaded Pipe Couplings. , 2010, , .		1
140	Determination of Full Range Stress-Strain Behavior of Pipeline Steels Using Tensile Characteristics. , 2010, , .		2
141	Pipe Resonant Bending Fatigue Test Setup With Optical Measurement System. , 2010, , .		0
142	Experimental determination of the fatigue life of modified threaded pipe couplings. Procedia Engineering, 2010, 2, 1849-1858.	1.2	23
143	Investigation of Pipe Strain Measurements in a Curved Wide Plate Specimen. , 2010, , .		5
144	Nonlinear Contact Analysis of Different API Line Pipe Coupling Modifications. Journal of Pressure Vessel Technology, Transactions of the ASME, 2010, 132, .	0.6	9

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145	Multi-axial strain transfer from laminated CFRP composites to embedded Bragg sensor: II. Experimental validation. Smart Materials and Structures, 2010, 19, 105018.	3.5	31
146	Multi-axial strain transfer from laminated CFRP composites to embedded Bragg sensor: I. Parametric study. Smart Materials and Structures, 2010, 19, 105017.	3.5	60
147	Parameter optimisation for automatic pipeline girth welding using a new friction welding method. Materials & Design, 2009, 30, 581-589.	5.1	36
148	Transversal Load Sensing With Fiber Bragg Gratings in Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2009, 21, 6-8.	2.5	83
149	Response of FBGs in Microstructured and Bow Tie Fibers Embedded in Laminated Composite. IEEE Photonics Technology Letters, 2009, 21, 1290-1292.	2.5	37
150	Benchmarking the response of Bragg gratings written in micro-structured and bow tie fiber embedded in composites. Proceedings of SPIE, 2009, , .	0.8	0
151	Non-Linear Contact Analysis of an API Line Pipe Coupling. , 2009, , .		0
152	Fiber Bragg gratings in microstructured optical fibers for stress monitoring. Proceedings of SPIE, 2009, , .	0.8	0
153	Numerical and experimental study of the fatigue of threaded pipe couplings. WIT Transactions on Engineering Sciences, 2009, , .	0.0	5
154	Strain Monitoring of FRP Elements Using an Embedded Fibre Optic Sensor. Advances in Science and Technology, 2008, 56, 435-440.	0.2	5
155	Three-dimensional strain and temperature monitoring of composite laminates. Insight: Non-Destructive Testing and Condition Monitoring, 2007, 49, 10-16.	0.6	20
156	Atomic Force Microscopy of Sintered and Thermoplastic Polyimide Surfaces after Macroscopic Wear Tests. Materials Science Forum, 2007, 561-565, 2469-2472.	0.3	0
157	Online Wear Monitoring of Polymer Matrix Composites. Materials Science Forum, 2007, 561-565, 635-638.	0.3	1
158	Frictional Behavior of Glass Fiber Reinforced Polyester under Different Loads. Materials Science Forum, 2007, 561-565, 639-642.	0.3	0
159	Acoustic Emission as Analyzing Tool for Wear Mechanisms of Composite Materials. Materials Science Forum, 2007, 561-565, 2193-2196.	0.3	0
160	A Combination of Mathematical Morphology and Thermal Analysis of Wear Debris Explaining Polymer Sliding Mechanisms. Materials Science Forum, 2007, 561-565, 2237-2240.	0.3	1
161	A Relation between Laboratory and Full-Scale Testing of Polyester/Polyester Composites under Static and Dynamic Load. Materials Science Forum, 2007, 561-565, 725-728.	0.3	0
162	Feasibility study of an embedded multi-axial fibre Bragg grating sensor. , 2007, , .		0

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163	Testing of a Prestressed Concrete Girder to Study the Enhanced Performance of Monitoring by Integrating Optical Fiber Sensors. Journal of Structural Engineering, 2007, 133, 541-549.	3.4	8
164	Development of Defect Interaction Criteria for Pipeline Girth Welds Subjected to Plastic Collapse Conditions. , 2006, , 479.		0
165	Fiber Optic Sensing System for Discriminating Multi-Axial Strain Components in Composite Elements. , 2006, , .		0
166	Prediction of the Tolerable Defect Size for Strain Based Design. Materials Science Forum, 2005, 475-479, 2731-2734.	0.3	0
167	Effect of Material Properties on the Plastic Straining Capacity of Defective Welds. Materials Science Forum, 2005, 475-479, 2659-2662.	0.3	2
168	The Interaction of Weld Defects under Plastic Collapse. Materials Science Forum, 2005, 475-479, 2735-2738.	0.3	1
169	Fitness-for-Purpose Assessment of Misaligned Welds. Materials Science Forum, 2005, 475-479, 2663-2666.	0.3	0
170	Measuring Ground Anchor Forces of a Quay Wall with Bragg Sensors. Journal of Structural Engineering, 2005, 131, 322-328.	3.4	28
171	Failure of a large ball bearing of a dockside crane. Engineering Failure Analysis, 2004, 11, 335-353.	4.0	7
172	Effect of Pipe and Weld Metal Post-Yield Characteristics on Plastic Straining Capacity of Axially Loaded Pipelines. , 2004, , 1573.		3
173	Optical measurement of target displacement and velocity in bird strike simulation experiments. Measurement Science and Technology, 2003, 14, 1-6.	2.6	32
174	Weld Metal Test Performance Requirements: A Critical Appraisal of Future Needs. Materials Science Forum, 2003, 426-432, 4153-4158.	0.3	0
175	Feasibility of integrated optical fibre sensors for condition monitoring of composite structures. Part II: Combination of Bragg-sensors and acoustic emission detection. Insight: Non-Destructive Testing and Condition Monitoring, 2003, 45, 542-553.	0.6	6
176	Speckle-shear interferometry with increased sensitivity. , 2003, 5226, 204.		1
177	Application of optical fibre sensors for monitoring civil engineering structures. Structural Concrete, 2001, 2, 63-71.	3.1	5
178	Monitoring of fibre reinforced composites with embedded optical fibre Bragg sensors, with application to filament wound pressure vessels. NDT and E International, 2001, 34, 289-296.	3.7	69
179	Monitoring of a Prestressed Concrete Girder Bridge with Fiber Optical Bragg Grating Sensors. Strain, 2001, 37, 151-153.	2.4	9
180	Application of optical fibre sensors for monitoring civil engineering structures. Structural Concrete, 2001, 2, 63-71.	3.1	1

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