Rinze Benedictus

List of Publications by Year
in descending order

187 papers	6,302 citations	87888 38 h-index	91884 69 g-index
188 all docs	188 docs citations	188 times ranked	3969 citing authors

#	Article	IF	Citations
1	Fusion-based damage diagnostics for stiffened composite panels. Structural Health Monitoring, 2022, 21, 613-639.	7.5	22
2	Perception modelling by invariant representation of deep learning for automated structural diagnostic in aircraft maintenance: A study case using DeepSHM. Mechanical Systems and Signal Processing, 2022, 165, 108153.	8.0	22
3	Improving the quality of continuous ultrasonically welded thermoplastic composite joints by adding a consolidator to the welding setup. Composites Part A: Applied Science and Manufacturing, 2022, 155, 106808.	7.6	14
4	The Need for Multi-Sensor Data Fusion in Structural Health Monitoring of Composite Aircraft Structures. Aerospace, 2022, 9, 183.	2.2	23
5	Assessment of the Measurement Performance of the Multimodal Fibre Optic Shape Sensing Configuration for a Morphing Wing Section. Sensors, 2022, 22, 2210.	3.8	8
6	Early fatigue damage accumulation of CFRP Cross-Ply laminates considering size and stress level effects. International Journal of Fatigue, 2022, 159, 106811.	5.7	4
7	Integrative approach for transducer positioning optimization for ultrasonic structural health monitoring for the detection of deterministic and probabilistic damage location. Structural Health Monitoring, 2021, 20, 1117-1144.	7.5	11
8	Unraveling the myth of closure corrections: Sharpening the definition of opening and closure stresses with an energy approach. International Journal of Fatigue, 2021, 143, 106016.	5.7	8
9	Modelling of light scattering by gold nanoparticles at optical fibre interfaces. Journal of Optics (United Kingdom), 2021, 23, 035602.	2.2	2
10	Enhancing weld attributes in ultrasonic spot welding of carbon fibre-reinforced thermoplastic composites: Effect of sonotrode configurations and process control. Composites Part B: Engineering, 2021, 211, 108648.	12.0	17
11	On the sensitivity of ultrasonic welding of epoxy- to polyetheretherketone (PEEK)-based composites to the heating time during the welding process. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106334.	7.6	22
12	Optimization of light scattering enhancement by gold nanoparticles in fused silica optical fiber. Optics Express, 2021, 29, 19450.	3.4	5
13	Multi-material adhesive joints with thick bond-lines: Crack onset and crack deflection. Composite Structures, 2021, 266, 113687.	5.8	7
14	Modeling and Imaging of Ultrasonic Array Inspection of Side Drilled Holes in Layered Anisotropic Media. Sensors, 2021, 21, 4640.	3.8	3
15	Measuring crack growth and related opening and closing stresses using continuous potential drop recording. Engineering Fracture Mechanics, 2021, 252, 107841.	4.3	1
16	On the sensitivity of the ultrasonic welding process of epoxy- to polyetheretherketone (PEEK)-based composites to the welding force and amplitude of vibrations. Composites Part C: Open Access, 2021, 5, 100141.	3.2	5
17	A Study on Through-the-Thickness Heating in Continuous Ultrasonic Welding of Thermoplastic Composites. Materials, 2021, 14, 6620.	2.9	11
18	Simulation of Ultrasonic Beam Propagation From Phased Arrays in Anisotropic Media Using Linearly Phased Multi-Gaussian Beams. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 106-116.	3.0	7

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19	Continuous ultrasonic welding of thermoplastic composites: Enhancing the weld uniformity by changing the energy director. Journal of Composite Materials, 2020, 54, 2023-2035.	2.4	33
20	On differences and similarities between static and continuous ultrasonic welding of thermoplastic composites. Composites Part B: Engineering, 2020, 203, 108466.	12.0	34
21	Unfolding the early fatigue damage process for CFRP cross-ply laminates. International Journal of Fatigue, 2020, 140, 105820.	5.7	23
22	Significantly enhanced structural integrity of adhesively bonded PPS and PEEK composite joints by rapidly UV-irradiating the substrates. Composites Science and Technology, 2020, 199, 108358.	7.8	21
23	Enhancing the fracture toughness of carbon fibre/epoxy composites by interleaving hybrid meltable/non-meltable thermoplastic veils. Composite Structures, 2020, 252, 112699.	5.8	28
24	A Gaussian Beam Based Recursive Stiffness Matrix Model to Simulate Ultrasonic Array Signals from Multi-Layered Media. Sensors, 2020, 20, 4371.	3.8	3
25	The influence of interlayer/epoxy adhesion on the mode-I and mode-II fracture response of carbon fibre/epoxy composites interleaved with thermoplastic veils. Materials and Design, 2020, 192, 108781.	7.0	32
26	Strategies for swift automated pick-and-place operations of multiple large-sized layers of reinforcement - a critical review. Advanced Manufacturing: Polymer and Composites Science, 2020, 6, 57-71.	0.4	2
27	Co-cure joining of epoxy composites with rapidly UV-irradiated PEEK and PPS composites to achieve high structural integrity. Composite Structures, 2020, 251, 112595.	5.8	21
28	Ultrasonic welding of epoxy- to polyetheretherketone- based composites: Investigation on the material of the energy director and the thickness of the coupling layer. Journal of Composite Materials, 2020, 54, 3081-3098.	2.4	16
29	Role of adherend material on the fracture of bi-material composite bonded joints. Composite Structures, 2020, 252, 112643.	5.8	16
30	Influence of geometrical parameters on the strength of Hybrid CFRP-aluminium tubular adhesive joints. Composite Structures, 2020, 240, 112077.	5.8	12
31	Effects of high-amplitude low-frequency structural vibrations and machinery sound waves on ultrasonic guided wave propagation for health monitoring of composite aircraft primary structures. Journal of Sound and Vibration, 2020, 475, 115289.	3.9	19
32	An adaptive probabilistic data-driven methodology for prognosis of the fatigue life of composite structures. Composite Structures, 2020, 245, 112386.	5.8	27
33	From thin to extra-thick adhesive layer thicknesses: Fracture of bonded joints under mode I loading conditions. Engineering Fracture Mechanics, 2019, 218, 106607.	4.3	30
34	Characterisation of crystallinity at the interface of ultrasonically welded carbon fibre PPS joints. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105574.	7.6	32
35	Prediction Models for Distortions and Residual Stresses in Thermoset Polymer Laminates: An Overview. Journal of Manufacturing and Materials Processing, 2019, 3, 87.	2.2	12
36	Durability of PBI adhesive bonded joints under various environmental conditions. International Journal of Adhesion and Adhesives, 2019, 89, 154-160.	2.9	5

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37	Diagnostic of manufacturing defects in ultrasonically welded thermoplastic composite joints using ultrasonic guided waves. NDT and E International, 2019, 107, 102126.	3.7	22
38	Determining finite-width-correction factors for fatigue crack growth prediction in GLARE using the equivalent compliance method. International Journal of Fatigue, 2019, 127, 74-81.	5.7	5
39	Investigation on energy director-less ultrasonic welding of polyetherimide (PEI)- to epoxy-based composites. Composites Part B: Engineering, 2019, 173, 107014.	12.0	48
40	Systematic multiparameter design methodology for an ultrasonic health monitoring system for fullâ€scale composite aircraft primary structures. Structural Control and Health Monitoring, 2019, 26, e2340.	4.0	21
41	iFEM benchmark problems for solid elements. Smart Materials and Structures, 2019, 28, 065003.	3.5	14
42	Composite layup effect on the failure mechanism of single lap bonded joints. Composite Structures, 2019, 217, 14-26.	5.8	44
43	On sequential ultrasonic spot welding as an alternative to mechanical fastening in thermoplastic composite assemblies: A study on single-column multi-row single-lap shear joints. Composites Part A: Applied Science and Manufacturing, 2019, 120, 1-11.	7.6	27
44	Evaluation of the mechanical performance of a composite multi-cell tank for cryogenic storage: Part II â€“ Experimental assessment. International Journal of Hydrogen Energy, 2019, 44, 3931-3943.	7.1	15
45	Evaluation of the mechanical performance of a composite multi-cell tank for cryogenic storage: Part I - Tank pressure window based on progressive failure analysis. International Journal of Hydrogen Energy, 2019, 44, 3917-3930.	7.1	12
46	A large displacement orthotropic viscoelastic model for manufacturing-induced distortions in Fibre Metal Laminates. Composite Structures, 2019, 209, 1035-1041.	5.8	6
47	DeepSHM: a deep learning approach for structural health monitoring based on guided Lamb wave technique. , 2019, , .		24
48	Simultaneous position and displacement sensing using two fibre Bragg grating sensors. , 2019, , .		4
49	Towards a physics-based relationship for crack growth under different loading modes. Engineering Fracture Mechanics, 2018, 195, 222-241.	4.3	12
50	Influence of temperature on the strength of resistance welded glass fibre reinforced PPS joints. Composites Part A: Applied Science and Manufacturing, 2018, 105, 57-67.	7.6	33
51	Using acoustic emission to understand fatigue crack growth within a single load cycle. Engineering Fracture Mechanics, 2018, 194, 281-300.	4.3	35
52	Towards robust sequential ultrasonic spot welding of thermoplastic composites: Welding process control strategy for consistent weld quality. Composites Part A: Applied Science and Manufacturing, 2018, 109, 355-367.	7.6	39
53	Experimental assessment of the influence of welding process parameters on Lamb wave transmission across ultrasonically welded thermoplastic composite joints. Mechanical Systems and Signal Processing, 2018, 99, 197-218.	8.0	17
54	Analytical solutions for crack opening displacements of eccentric cracks in thin-walled metallic plates. Thin-Walled Structures, 2018, 123, 371-381.	5.3	6

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55	The effect of temperature on fatigue crack growth in FM94 epoxy adhesive bonds investigated by means of energy dissipation. Engineering Fracture Mechanics, 2018, 189, 98-109.	4.3	19
56	Mode I fatigue delamination growth with fibre bridging in multidirectional composite laminates. Engineering Fracture Mechanics, 2018, 189, 221-231.	4.3	24
57	Fatigue crack surface area and crack front length: new ways to look at fatigue crack growth. MATEC Web of Conferences, 2018, 165, 13009.	0.2	0
58	Structural health monitoring data fusion for in-situ life prognosis of composite structures. Reliability Engineering and System Safety, 2018, 178, 40-54.	8.9	52
59	The stress ratio effect on plastic dissipation during fatigue crack growth. MATEC Web of Conferences, 2018, 165, 13002.	0.2	1
60	Theoretical analysis of fatigue failure in mechanically fastened Fibre Metal Laminate joints containing multiple cracks. Engineering Failure Analysis, 2018, 91, 151-164.	4.0	16
61	Transducer Placement Option of Lamb Wave SHM System for Hotspot Damage Monitoring. Aerospace, 2018, 5, 39.	2.2	13
62	How pure mode I can be obtained in bi-material bonded DCB joints: A longitudinal strain-based criterion. Composites Part B: Engineering, 2018, 153, 137-148.	12.0	41
63	On the physics of applying finite width and geometry correction factors in fatigue crack growth predictions of GLARE. International Journal of Fatigue, 2018, 117, 189-195.	5.7	7
64	Energy dissipation in mode II fatigue crack growth. Engineering Fracture Mechanics, 2017, 173, 41-54.	4.3	24
65	A modified Paris relation for fatigue delamination with fibre bridging in composite laminates. Composite Structures, 2017, 176, 556-564.	5.8	29
66	Understanding mixed-mode cyclic fatigue delamination growth in unidirectional composites: An experimental approach. Engineering Fracture Mechanics, 2017, 180, 161-178.	4.3	17
67	Fibre bridging effect on the Paris relation of mode I fatigue delamination in composite laminates with different thicknesses. International Journal of Fatigue, 2017, 103, 196-206.	5.7	22
68	Stress ratio dependence of fibre bridging significance in mode I fatigue delamination growth of composite laminates. Composites Part A: Applied Science and Manufacturing, 2017, 95, 65-74.	7.6	30
69	On the physical interpretation of the R-ratio effect and the LEFM parameters used for fatigue crack growth in adhesive bonds. International Journal of Fatigue, 2017, 97, 162-176.	5.7	23
70	Mechanical behaviour of thermoplastic composites spot-welded and mechanically fastened joints: A preliminary comparison. Composites Part B: Engineering, 2017, 112, 224-234.	12.0	61
71	A new procedure for Finite Element simulation of forming process of non-homogeneous composite laminates and FMLs. Composite Structures, 2017, 163, 444-453.	5.8	9
72	Prediction methodology for fatigue crack growth behaviour in Fibre Metal Laminates subjected to tension and pin loading. Composite Structures, 2017, 182, 176-182.	5.8	13

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73	Analytical prediction model for fatigue crack growth in Fibre Metal Laminates with MSD scenario. International Journal of Fatigue, 2017, 104, 263-272.	5.7	9
74	Analytical prediction model for non-symmetric fatigue crack growth in Fibre Metal Laminates. International Journal of Fatigue, 2017, 103, 546-556.	5.7	17
75	Study on the effect of surface morphology on adhesion properties of polybenzimidazole adhesive bonded composite joints. International Journal of Adhesion and Adhesives, 2017, 72, 43-50.	2.9	19
76	Surface modification of PEEK by UV irradiation for direct co-curing with carbon fibre reinforced epoxy prepregs. International Journal of Adhesion and Adhesives, 2017, 73, 51-57.	2.9	50
77	Fibre bridging effect on the Paris relation for mode I fatigue delamination growth in composites with consideration of interface configuration. Composite Structures, 2017, 159, 471-478.	5.8	20
78	EXPERIMENTAL INVESTIGATION OF THE MICROSCOPIC DAMAGE DEVELOPMENT AT MODE I FATIGUE DELAMINATION TIPS IN CARBON/EPOXY LAMINATES. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	6
79	Performance Evaluation of Polybenzimidazole Under High-Energy Radiation Environment. Journal of Thermophysics and Heat Transfer, 2016, 30, 825-830.	1.6	7
80	Characterising resistance to fatigue crack growth in adhesive bonds by measuring release of strain energy. Procedia Structural Integrity, 2016, 2, 80-87.	0.8	7
81	An experimental investigation into pin loading effects on fatigue crack growth in Fibre Metal Laminates. Procedia Structural Integrity, 2016, 2, 3361-3368.	0.8	11
82	Effect of fiber-matrix adhesion on the creep behavior of CF/PPS composites: temperature and physical aging characterization. Mechanics of Time-Dependent Materials, 2016, 20, 245-262.	4.4	9
83	Fatigue crack growth in residual stress fields. International Journal of Fatigue, 2016, 87, 326-338.	5.7	59
84	The effect of fibre bridging on the Paris relation for mode I fatigue delamination growth in composites. Composite Structures, 2016, 140, 125-135.	5.8	45
85	Simulation and detection of flaws in pre-cured CFRP using laser displacement sensing. International Journal of Advanced Manufacturing Technology, 2016, 82, 341-349.	3.0	9
86	Kinetic and thermo-viscoelastic characterisation of the epoxy adhesive in GLARE. Composite Structures, 2015, 124, 19-28.	5.8	40
87	Investigation of curing effects on distortion of fibre metal laminates. Composite Structures, 2015, 122, 546-552.	5.8	41
88	Effect of stress ratio or mean stress on fatigue delamination growth in composites: Critical review. Composite Structures, 2015, 124, 214-227.	5.8	75
89	Lay-up optimisation of fibre metal laminates based on fatigue crack propagation and residual strength. Composite Structures, 2015, 124, 77-87.	5.8	29
90	The relation between the strain energy release in fatigue and quasi-static crack growth. Engineering Fracture Mechanics, 2015, 145, 86-97.	4.3	39

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91	A comparative evaluation between flat and traditional energy directors for ultrasonic welding of CF/PPS thermoplastic composites. Composite Interfaces, 2015, 22, 717-729.	2.3	58
92	Predicting the influence of discretely notched layers on fatigue crack growth in fibre metal laminates. Engineering Fracture Mechanics, 2015, 145, 1-14.	4.3	17
93	Simulation of the development of local panel distortions due to hot-curing adhesives. Journal of Materials Processing Technology, 2015, 225, 405-412.	6.3	3
94	On the prediction of cure-process shape deviations in fibre metal laminates. Journal of Composite Materials, 2015, 49, 1705-1716.	2.4	16
95	Interpreting the stress ratio effect on delamination growth in composite laminates using the concept of fatigue fracture toughness. Composites Part A: Applied Science and Manufacturing, 2015, 78, 135-142.	7.6	22
96	Closed form expression for residual stresses and warpage during cure of composite laminates. Composite Structures, 2015, 133, 902-910.	5.8	61
97	A new procedure for thermo-viscoelastic modelling of composites with general orthotropy and geometry. Composite Structures, 2015, 133, 871-877.	5.8	28
98	On the relationship between disbond growth and the release of strain energy. Engineering Fracture Mechanics, 2015, 133, 1-13.	4.3	33
99	A review of T-stress and its effects in fracture mechanics. Engineering Fracture Mechanics, 2015, 134, 218-241.	4.3	183
100	Design optimisation procedure for fibre metal laminates based on fatigue crack initiation. Composite Structures, 2015, 120, 275-284.	5.8	14
101	Two-parameter model for delamination growth under mode I fatigue loading (Part B: Model) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	7.6	22
102	Influence of Fabric Carrier on the Fatigue Disbond Behavior of Metal-to-Metal Bonded Interfaces. Journal of Adhesion, 2014, 90, 482-495.	3.0	1
103	Study of the fire resistant behavior of unfilled and carbon nanofibers reinforced polybenzimidazole coating for structural applications. Polymers for Advanced Technologies, 2014, 25, 29-35.	3.2	13
104	Influence of the temperature cycle on local distortions in car panels caused by hot curing epoxies. International Journal of Adhesion and Adhesives, 2014, 50, 216-222.	2.9	9
105	Process optimization of solvent based polybenzimidazole adhesive for aerospace applications. International Journal of Adhesion and Adhesives, 2014, 48, 188-193.	2.9	19
106	Bridging effect on mode I fatigue delamination behavior in composite laminates. Composites Part A: Applied Science and Manufacturing, 2014, 63, 103-109.	7.6	80
107	Optical Coherence Tomography for the Study of Polymer and Polymer Matrix Composites. Strain, 2014, 50, 436-443.	2.4	9
108	Optical coherence elastography for measuring the deformation within glass fiber composite. Applied Optics, 2014, 53, 5070.	1.8	3

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109	Discussion on the use of the strain energy release rate for fatigue delamination characterization. Composites Part A: Applied Science and Manufacturing, 2014, 66, 65-72.	7.6	63
110	Two-parameter model for delamination growth under mode I fatigue loading (Part A: Experimental) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.6	25
111	Crack closure and fibre bridging during delamination growth in carbon fibre/epoxy laminates under mode I fatigue loading. Composites Part A: Applied Science and Manufacturing, 2014, 67, 201-211.	7.6	30
112	3D monitoring of delamination growth in a wind turbine blade composite using optical coherence tomography. NDT and E International, 2014, 64, 52-58.	3.7	39
113	On the simulation of panel distortions due to hot curing adhesives. International Journal of Solids and Structures, 2014, 51, 2470-2478.	2.7	11
114	Modelling of impact damage and dynamics in fibre-metal laminates â€“ A review. International Journal of Impact Engineering, 2014, 67, 27-38.	5.0	85
115	Non-destructive evaluation of delamination growth in glass fiber composites using optical coherence tomography. , 2014, , .		3
116	Crack paths in fibre metal laminates: Role of fibre bridging. Engineering Fracture Mechanics, 2013, 108, 183-194.	4.3	14
117	Methods for the prediction of fatigue delamination growth in composites and adhesive bonds â€“ A critical review. Engineering Fracture Mechanics, 2013, 112-113, 72-96.	4.3	201
118	Low-velocity impact energy partition in GLARE. Mechanics of Materials, 2013, 66, 59-68.	3.2	78
119	Characterizing fatigue delamination growth behaviour using specimens with multiple delaminations: The effect of unequal delamination lengths. Engineering Fracture Mechanics, 2013, 109, 150-160.	4.3	20
120	An integrated study on the low-velocity impact response of the GLARE fibre-metal laminate. Composite Structures, 2013, 100, 89-103.	5.8	103
121	A generalized solution to the crack bridging problem of fiber metal laminates. Engineering Fracture Mechanics, 2013, 105, 65-85.	4.3	16
122	Signal processing in optical coherence tomography for aerospace material characterization. Optical Engineering, 2013, 52, 033201.	1.0	17
123	Laser displacement sensor to monitor the layup process of composite laminate production. Proceedings of SPIE, 2013, , .	0.8	1
124	Quality assessment of aerospace materials with optical coherence tomography. , 2012, , .		7
125	Impact resistance of fiber-metal laminates: A review. International Journal of Impact Engineering, 2012, 49, 77-90.	5.0	287
126	Damage evolution in GLARE fibre-metal laminate under repeated low-velocity impact tests. Open Engineering, 2012, 2, 603-611.	1.6	25

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127	Experimental and Numerical Investigation of Metal Type and Thickness Effects on the Impact Resistance of Fiber Metal Laminates. Applied Composite Materials, 2012, 19, 545-559.	2.5	124
128	Development of fibre-metal laminates for improved impact performance. European Physical Journal: Special Topics, 2012, 206, 79-88.	2.6	15
129	The generation of deformation damage during fatigue loading in Al-Cu alloy studied by the Doppler Broadening technique. Journal of Physics: Conference Series, 2011, 262, 012052.	0.4	2
130	Thermotropic liquid crystalline polymers as protective coatings for aerospace. Progress in Organic Coatings, 2011, 70, 245-251.	3.9	20
131	Misinterpreting the results: How similitude can improve our understanding of fatigue delamination growth. Composites Science and Technology, 2011, 71, 230-238.	7.8	137
132	Macro and microscopic observations of fatigue crack growth in friction stir welded aluminum joints. Engineering Fracture Mechanics, 2011, 78, 930-943.	4.3	22
133	Predicting the influence of temperature on fatigue crack propagation in Fibre Metal Laminates. Engineering Fracture Mechanics, 2011, 78, 2193-2201.	4.3	34
134	Evaluating the fatigue initiation location in friction stir welded AA2024-T3 joints. International Journal of Fatigue, 2011, 33, 466-476.	5.7	21
135	Delamination in Fiber Metal Laminates (GLARE) during fatigue crack growth under variable amplitude loading. International Journal of Fatigue, 2011, 33, 1292-1303.	5.7	62
136	Fracture in bending â€“ The straining limits of monolithic sheets and machined tailor-made blanks. Materials & Design, 2011, 32, 1229-1241.	5.1	11
137	Lamb wave detection in prepreg composite materials with fibre Bragg grating sensors. Proceedings of SPIE, 2011, , .	0.8	4
138	Processing and Characterization of Space-Durable High-Performance Polymeric Nanocomposite. Journal of Thermophysics and Heat Transfer, 2011, 25, 87-95.	1.6	8
139	Fatigue Behavior of Fiber/Metal Laminate Panels Containing Internal Carbon Tear Straps. Journal of Aircraft, 2011, 48, 2122-2129.	2.4	6
140	Global and Local Mechanical Properties and Microstructure of Friction Stir Welds with Dissimilar Materials and/or Thicknesses. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3365-3378.	2.2	44
141	Thermal, morphological, and mechanical characterization of novel carbon nanofiberâ€filled bismaleimide composites. Journal of Applied Polymer Science, 2010, 117, 2159-2167.	2.6	14
142	Experimental investigation into the effect of adhesion properties of PEEK modified by atmospheric pressure plasma and low pressure plasma. Journal of Applied Polymer Science, 2010, 118, 173-179.	2.6	44
143	Elastoplastic deformation of dissimilar-alloy adhesively-bonded tailor-made blanks. Materials & Design, 2010, 31, 4611-4620.	5.1	26
144	Surface modification of high performance polymers by atmospheric pressure plasma and failure mechanism of adhesive bonded joints. International Journal of Adhesion and Adhesives, 2010, 30, 418-424.	2.9	79

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145	Fatigue initiation behaviour throughout friction stir welded joints in AA2024-T3. International Journal of Fatigue, 2010, 32, 1928-1936.	5.7	20
146	Experimental characterization of the crack-tip-opening angle in fibre metal laminates. Engineering Fracture Mechanics, 2010, 77, 1012-1024.	4.3	21
147	Fatigue crack paths in AA2024-T3 when loaded with constant amplitude and simple underload spectra. Engineering Fracture Mechanics, 2010, 77, 1857-1865.	4.3	18
148	Application of a modified Wheeler model to predict fatigue crack growth in Fibre Metal Laminates under variable amplitude loading. Engineering Fracture Mechanics, 2010, 77, 1400-1416.	4.3	41
149	Effect of plasma treatment and electron beam radiations on the strength of nanofilled adhesiveâ€bonded joints. Polymer Engineering and Science, 2010, 50, 1505-1511.	3.1	3
150	Yield Strength and Residual Stress Measurements on Friction-Stir-Welded Aluminum Alloys. Journal of Aircraft, 2010, 47, 1570-1583.	2.4	18
151	Crack-Tip Behavior in Fiber/Metal Laminates by Means of Digital-Image Correlation. Journal of Aircraft, 2010, 47, 1636-1646.	2.4	11
152	Prediction of Minimum Bending Ratio of Aluminum Sheets From Tensile Material Properties. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	2.2	9
153	High-Performance Nanoadhesive Bonding of Space-Durable Polymer and Its Performance Under Space Environments. Journal of Spacecraft and Rockets, 2009, 46, 218-224.	1.9	6
154	The mechanical behavior of adhesively bonded tailor-made blanks. International Journal of Adhesion and Adhesives, 2009, 29, 558-571.	2.9	36
155	Bendability of machined aluminium Tailor-made blanks. International Journal of Material Forming, 2009, 2, 821-824.	2.0	2
156	Fracture mechanism of aluminium friction stir welded blanks. International Journal of Material Forming, 2009, 2, 319-322.	2.0	9
157	Experimental and numerical analysis of a beam made of adhesively bonded tailor-made blanks. International Journal of Advanced Manufacturing Technology, 2009, 44, 766-780.	3.0	9
158	Fatigue crack growth in fibre metal laminates under selective variableâ€amplitude loading. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 233-248.	3.4	20
159	Formability prediction of high strength aluminum sheets. International Journal of Plasticity, 2009, 25, 2269-2297.	8.8	63
160	High-performance nanoadhesive bonding of titanium for aerospace and space applications. International Journal of Adhesion and Adhesives, 2009, 29, 259-267.	2.9	58
161	Einstein relation in n-i-p-i and microstructures of nonlinear optical, optoelectronic and related materials: Simplified theory, relative comparison and suggestions for an experimental determination. Superlattices and Microstructures, 2009, 46, 387-414.	3.1	3
162	Finite element modeling and failure prediction of friction stir welded blanks. Materials & Design, 2009, 30, 1423-1434.	5.1	50

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163	Post-stretching induced stress redistribution in Fibre Metal Laminates for increased fatigue crack growth resistance. Composites Science and Technology, 2009, 69, 396-405.	7.8	53
164	Delamination growth in Fibre Metal Laminates under variable amplitude loading. Composites Science and Technology, 2009, 69, 2604-2615.	7.8	45
165	Linear Damage Accumulation for Predicting Fatigue in Fiber Metal Laminates. Journal of Aircraft, 2009, 46, 1706-1713.	2.4	2
166	An Experimental Approach to Investigate Detailed Failure Mechanisms in Fibre Metal Laminates. , 2009, , 493-512.		7
167	Mechanical properties and microstructure of friction stir welded tailor-made blanks. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 494, 281-290.	5.6	59
168	The effects of friction stir welding on the mechanical properties and microstructure of 7000 series aluminium tailor-welded blanks. International Journal of Material Forming, 2008, 1, 1311-1314.	2.0	11
169	Theoretical prediction of failure in forming of friction stir welded blanks. International Journal of Material Forming, 2008, 1, 305-308.	2.0	5
170	Experimental and numerical study of machined aluminum tailor-made blanks. Journal of Materials Processing Technology, 2008, 200, 288-299.	6.3	36
171	The applicability of magnesium based Fibre Metal Laminates in aerospace structures. Composites Science and Technology, 2008, 68, 2983-2993.	7.8	107
172	Thermoelectric power in carbon nanotubes and quantum wires of nonlinear optical, optoelectronic, and related materials under strong magnetic field: Simplified theory and relative comparison. Journal of Applied Physics, 2008, 103, .	2.5	18
173	Fiber/Metal Composite Technology for Future Primary Aircraft Structures. Journal of Aircraft, 2008, 45, 1182-1189.	2.4	70
174	The Einstein relation in quantum wires of III-V, ternary, and quaternary materials in the presence of light waves: Simplified theory, relative comparison, and suggestion for experimental determination. Journal of Applied Physics, 2008, 103, 094314.	2.5	10
175	Prediction of Limit Strains in Limiting Dome Height Formability Test. AIP Conference Proceedings, 2007, , .	0.4	1
176	Finite Element Modeling of Transition Zone in Friction Stir Welded Tailor-Made Blanks. AIP Conference Proceedings, 2007, , .	0.4	3
177	Mechanics of Tailor Welded Blanks: An Overview. Key Engineering Materials, 2007, 344, 373-382.	0.4	88
178	Modelling cyclic shear deformation of fibre/epoxy layers in fibre metal laminates. Composites Science and Technology, 2007, 67, 2545-2555.	7.8	18
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