

Rinze Benedictus

List of Publications by Year in descending order

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187
papers

6,302
citations

87888

38
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91884

69
g-index

188
all docs

188
docs citations

188
times ranked

3969
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent development in aluminium alloys for aerospace applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 280, 102-107.	5.6	1,008
2	Impact resistance of fiber-metal laminates: A review. <i>International Journal of Impact Engineering</i> , 2012, 49, 77-90.	5.0	287
3	Methods for the prediction of fatigue delamination growth in composites and adhesive bonds – A critical review. <i>Engineering Fracture Mechanics</i> , 2013, 112-113, 72-96.	4.3	201
4	A review of T-stress and its effects in fracture mechanics. <i>Engineering Fracture Mechanics</i> , 2015, 134, 218-241.	4.3	183
5	Misinterpreting the results: How similitude can improve our understanding of fatigue delamination growth. <i>Composites Science and Technology</i> , 2011, 71, 230-238.	7.8	137
6	Thermodynamic model for solid-state amorphization in binary systems at interfaces and grain boundaries. <i>Physical Review B</i> , 1996, 54, 9109-9125.	3.2	133
7	Experimental and Numerical Investigation of Metal Type and Thickness Effects on the Impact Resistance of Fiber Metal Laminates. <i>Applied Composite Materials</i> , 2012, 19, 545-559.	2.5	124
8	The applicability of magnesium based Fibre Metal Laminates in aerospace structures. <i>Composites Science and Technology</i> , 2008, 68, 2983-2993.	7.8	107
9	An integrated study on the low-velocity impact response of the GLARE fibre-metal laminate. <i>Composite Structures</i> , 2013, 100, 89-103.	5.8	103
10	Mechanics of Tailor Welded Blanks: An Overview. <i>Key Engineering Materials</i> , 2007, 344, 373-382.	0.4	88
11	Modelling of impact damage and dynamics in fibre-metal laminates – A review. <i>International Journal of Impact Engineering</i> , 2014, 67, 27-38.	5.0	85
12	Bridging effect on mode I fatigue delamination behavior in composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 63, 103-109.	7.6	80
13	Surface modification of high performance polymers by atmospheric pressure plasma and failure mechanism of adhesive bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 418-424.	2.9	79
14	Low-velocity impact energy partition in GLARE. <i>Mechanics of Materials</i> , 2013, 66, 59-68.	3.2	78
15	Effect of stress ratio or mean stress on fatigue delamination growth in composites: Critical review. <i>Composite Structures</i> , 2015, 124, 214-227.	5.8	75
16	Fiber/Metal Composite Technology for Future Primary Aircraft Structures. <i>Journal of Aircraft</i> , 2008, 45, 1182-1189.	2.4	70
17	Formability prediction of high strength aluminum sheets. <i>International Journal of Plasticity</i> , 2009, 25, 2269-2297.	8.8	63
18	Discussion on the use of the strain energy release rate for fatigue delamination characterization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 66, 65-72.	7.6	63

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19	Delamination in Fiber Metal Laminates (GLARE) during fatigue crack growth under variable amplitude loading. <i>International Journal of Fatigue</i> , 2011, 33, 1292-1303.	5.7	62
20	Closed form expression for residual stresses and warpage during cure of composite laminates. <i>Composite Structures</i> , 2015, 133, 902-910.	5.8	61
21	Mechanical behaviour of thermoplastic composites spot-welded and mechanically fastened joints: A preliminary comparison. <i>Composites Part B: Engineering</i> , 2017, 112, 224-234.	12.0	61
22	Mechanical properties and microstructure of friction stir welded tailor-made blanks. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 494, 281-290.	5.6	59
23	Fatigue crack growth in residual stress fields. <i>International Journal of Fatigue</i> , 2016, 87, 326-338.	5.7	59
24	High-performance nanoadhesive bonding of titanium for aerospace and space applications. <i>International Journal of Adhesion and Adhesives</i> , 2009, 29, 259-267.	2.9	58
25	A comparative evaluation between flat and traditional energy directors for ultrasonic welding of CF/PPS thermoplastic composites. <i>Composite Interfaces</i> , 2015, 22, 717-729.	2.3	58
26	The driven rivet head dimensions as an indication of the fatigue performance of aircraft lap joints. <i>International Journal of Fatigue</i> , 2007, 29, 2208-2218.	5.7	53
27	Post-stretching induced stress redistribution in Fibre Metal Laminates for increased fatigue crack growth resistance. <i>Composites Science and Technology</i> , 2009, 69, 396-405.	7.8	53
28	Structural health monitoring data fusion for in-situ life prognosis of composite structures. <i>Reliability Engineering and System Safety</i> , 2018, 178, 40-54.	8.9	52
29	Finite element modeling and failure prediction of friction stir welded blanks. <i>Materials & Design</i> , 2009, 30, 1423-1434.	5.1	50
30	Surface modification of PEEK by UV irradiation for direct co-curing with carbon fibre reinforced epoxy prepreps. <i>International Journal of Adhesion and Adhesives</i> , 2017, 73, 51-57.	2.9	50
31	Investigation on energy director-less ultrasonic welding of polyetherimide (PEI)- to epoxy-based composites. <i>Composites Part B: Engineering</i> , 2019, 173, 107014.	12.0	48
32	Delamination growth in Fibre Metal Laminates under variable amplitude loading. <i>Composites Science and Technology</i> , 2009, 69, 2604-2615.	7.8	45
33	The effect of fibre bridging on the Paris relation for mode I fatigue delamination growth in composites. <i>Composite Structures</i> , 2016, 140, 125-135.	5.8	45
34	Global and Local Mechanical Properties and Microstructure of Friction Stir Welds with Dissimilar Materials and/or Thicknesses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 3365-3378.	2.2	44
35	Experimental investigation into the effect of adhesion properties of PEEK modified by atmospheric pressure plasma and low pressure plasma. <i>Journal of Applied Polymer Science</i> , 2010, 118, 173-179.	2.6	44
36	Composite layup effect on the failure mechanism of single lap bonded joints. <i>Composite Structures</i> , 2019, 217, 14-26.	5.8	44

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37	Application of a modified Wheeler model to predict fatigue crack growth in Fibre Metal Laminates under variable amplitude loading. <i>Engineering Fracture Mechanics</i> , 2010, 77, 1400-1416.	4.3	41
38	Investigation of curing effects on distortion of fibre metal laminates. <i>Composite Structures</i> , 2015, 122, 546-552.	5.8	41
39	How pure mode I can be obtained in bi-material bonded DCB joints: A longitudinal strain-based criterion. <i>Composites Part B: Engineering</i> , 2018, 153, 137-148.	12.0	41
40	Kinetic and thermo-viscoelastic characterisation of the epoxy adhesive in GLARE. <i>Composite Structures</i> , 2015, 124, 19-28.	5.8	40
41	3D monitoring of delamination growth in a wind turbine blade composite using optical coherence tomography. <i>NDT and E International</i> , 2014, 64, 52-58.	3.7	39
42	The relation between the strain energy release in fatigue and quasi-static crack growth. <i>Engineering Fracture Mechanics</i> , 2015, 145, 86-97.	4.3	39
43	Towards robust sequential ultrasonic spot welding of thermoplastic composites: Welding process control strategy for consistent weld quality. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 355-367.	7.6	39
44	Experimental and numerical study of machined aluminum tailor-made blanks. <i>Journal of Materials Processing Technology</i> , 2008, 200, 288-299.	6.3	36
45	The mechanical behavior of adhesively bonded tailor-made blanks. <i>International Journal of Adhesion and Adhesives</i> , 2009, 29, 558-571.	2.9	36
46	Using acoustic emission to understand fatigue crack growth within a single load cycle. <i>Engineering Fracture Mechanics</i> , 2018, 194, 281-300.	4.3	35
47	Predicting the influence of temperature on fatigue crack propagation in Fibre Metal Laminates. <i>Engineering Fracture Mechanics</i> , 2011, 78, 2193-2201.	4.3	34
48	On differences and similarities between static and continuous ultrasonic welding of thermoplastic composites. <i>Composites Part B: Engineering</i> , 2020, 203, 108466.	12.0	34
49	On the relationship between disbond growth and the release of strain energy. <i>Engineering Fracture Mechanics</i> , 2015, 133, 1-13.	4.3	33
50	Influence of temperature on the strength of resistance welded glass fibre reinforced PPS joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 105, 57-67.	7.6	33
51	Continuous ultrasonic welding of thermoplastic composites: Enhancing the weld uniformity by changing the energy director. <i>Journal of Composite Materials</i> , 2020, 54, 2023-2035.	2.4	33
52	Characterisation of crystallinity at the interface of ultrasonically welded carbon fibre PPS joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105574.	7.6	32
53	The influence of interlayer/epoxy adhesion on the mode-I and mode-II fracture response of carbon fibre/epoxy composites interleaved with thermoplastic veils. <i>Materials and Design</i> , 2020, 192, 108781.	7.0	32
54	Crack closure and fibre bridging during delamination growth in carbon fibre/epoxy laminates under mode I fatigue loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 67, 201-211.	7.6	30

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55	Stress ratio dependence of fibre bridging significance in mode I fatigue delamination growth of composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 95, 65-74.	7.6	30
56	From thin to extra-thick adhesive layer thicknesses: Fracture of bonded joints under mode I loading conditions. <i>Engineering Fracture Mechanics</i> , 2019, 218, 106607.	4.3	30
57	Lay-up optimisation of fibre metal laminates based on fatigue crack propagation and residual strength. <i>Composite Structures</i> , 2015, 124, 77-87.	5.8	29
58	A modified Paris relation for fatigue delamination with fibre bridging in composite laminates. <i>Composite Structures</i> , 2017, 176, 556-564.	5.8	29
59	A new procedure for thermo-viscoelastic modelling of composites with general orthotropy and geometry. <i>Composite Structures</i> , 2015, 133, 871-877.	5.8	28
60	Enhancing the fracture toughness of carbon fibre/epoxy composites by interleaving hybrid meltable/non-meltable thermoplastic veils. <i>Composite Structures</i> , 2020, 252, 112699.	5.8	28
61	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. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 120, 1-11.	7.6	27
62	An adaptive probabilistic data-driven methodology for prognosis of the fatigue life of composite structures. <i>Composite Structures</i> , 2020, 245, 112386.	5.8	27
63	Elastoplastic deformation of dissimilar-alloy adhesively-bonded tailor-made blanks. <i>Materials & Design</i> , 2010, 31, 4611-4620.	5.1	26
64	Damage evolution in GLARE fibre-metal laminate under repeated low-velocity impact tests. <i>Open Engineering</i> , 2012, 2, 603-611.	1.6	25
65	Two-parameter model for delamination growth under mode I fatigue loading (Part A: Experimental) <i>Tj ETQq1 1 0.784314 rgBT/Overlo</i>	7.6	25
66	Energy dissipation in mode II fatigue crack growth. <i>Engineering Fracture Mechanics</i> , 2017, 173, 41-54.	4.3	24
67	Mode I fatigue delamination growth with fibre bridging in multidirectional composite laminates. <i>Engineering Fracture Mechanics</i> , 2018, 189, 221-231.	4.3	24
68	DeepSHM: a deep learning approach for structural health monitoring based on guided Lamb wave technique. , 2019, , .		24
69	Solid state amorphization in Ni-Ti systems: the effect of structure on the kinetics of interface and grain-boundary amorphization. <i>Acta Materialia</i> , 1998, 46, 5491-5508.	7.9	23
70	On the physical interpretation of the R-ratio effect and the LFM parameters used for fatigue crack growth in adhesive bonds. <i>International Journal of Fatigue</i> , 2017, 97, 162-176.	5.7	23
71	Unfolding the early fatigue damage process for CFRP cross-ply laminates. <i>International Journal of Fatigue</i> , 2020, 140, 105820.	5.7	23
72	The Need for Multi-Sensor Data Fusion in Structural Health Monitoring of Composite Aircraft Structures. <i>Aerospace</i> , 2022, 9, 183.	2.2	23

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73	Macro and microscopic observations of fatigue crack growth in friction stir welded aluminum joints. <i>Engineering Fracture Mechanics</i> , 2011, 78, 930-943.	4.3	22
74	Two-parameter model for delamination growth under mode I fatigue loading (Part B: Model) Tj ETQq0 0 0 rgBT /Overlock 10 Tf, 50 702 T	7.6	22
75	Interpreting the stress ratio effect on delamination growth in composite laminates using the concept of fatigue fracture toughness. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 78, 135-142.	7.6	22
76	Fibre bridging effect on the Paris relation of mode I fatigue delamination in composite laminates with different thicknesses. <i>International Journal of Fatigue</i> , 2017, 103, 196-206.	5.7	22
77	Diagnostic of manufacturing defects in ultrasonically welded thermoplastic composite joints using ultrasonic guided waves. <i>NDT and E International</i> , 2019, 107, 102126.	3.7	22
78	Fusion-based damage diagnostics for stiffened composite panels. <i>Structural Health Monitoring</i> , 2022, 21, 613-639.	7.5	22
79	On the sensitivity of ultrasonic welding of epoxy- to polyetheretherketone (PEEK)-based composites to the heating time during the welding process. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 144, 106334.	7.6	22
80	Perception modelling by invariant representation of deep learning for automated structural diagnostic in aircraft maintenance: A study case using DeepSHM. <i>Mechanical Systems and Signal Processing</i> , 2022, 165, 108153.	8.0	22
81	Experimental characterization of the crack-tip-opening angle in fibre metal laminates. <i>Engineering Fracture Mechanics</i> , 2010, 77, 1012-1024.	4.3	21
82	Evaluating the fatigue initiation location in friction stir welded AA2024-T3 joints. <i>International Journal of Fatigue</i> , 2011, 33, 466-476.	5.7	21
83	Systematic multiparameter design methodology for an ultrasonic health monitoring system for full-scale composite aircraft primary structures. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2340.	4.0	21
84	Significantly enhanced structural integrity of adhesively bonded PPS and PEEK composite joints by rapidly UV-irradiating the substrates. <i>Composites Science and Technology</i> , 2020, 199, 108358.	7.8	21
85	Co-cure joining of epoxy composites with rapidly UV-irradiated PEEK and PPS composites to achieve high structural integrity. <i>Composite Structures</i> , 2020, 251, 112595.	5.8	21
86	Fatigue crack growth in fibre metal laminates under selective variable amplitude loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2009, 32, 233-248.	3.4	20
87	Fatigue initiation behaviour throughout friction stir welded joints in AA2024-T3. <i>International Journal of Fatigue</i> , 2010, 32, 1928-1936.	5.7	20
88	Thermotropic liquid crystalline polymers as protective coatings for aerospace. <i>Progress in Organic Coatings</i> , 2011, 70, 245-251.	3.9	20
89	Characterizing fatigue delamination growth behaviour using specimens with multiple delaminations: The effect of unequal delamination lengths. <i>Engineering Fracture Mechanics</i> , 2013, 109, 150-160.	4.3	20
90	Fibre bridging effect on the Paris relation for mode I fatigue delamination growth in composites with consideration of interface configuration. <i>Composite Structures</i> , 2017, 159, 471-478.	5.8	20

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91	Process optimization of solvent based polybenzimidazole adhesive for aerospace applications. International Journal of Adhesion and Adhesives, 2014, 48, 188-193.	2.9	19
92	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
93	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
94	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
95	Modelling cyclic shear deformation of fibre/epoxy layers in fibre metal laminates. Composites Science and Technology, 2007, 67, 2545-2555.	7.8	18
96	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
97	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
98	Yield Strength and Residual Stress Measurements on Friction-Stir-Welded Aluminum Alloys. Journal of Aircraft, 2010, 47, 1570-1583.	2.4	18
99	Signal processing in optical coherence tomography for aerospace material characterization. Optical Engineering, 2013, 52, 033201.	1.0	17
100	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
101	Understanding mixed-mode cyclic fatigue delamination growth in unidirectional composites: An experimental approach. Engineering Fracture Mechanics, 2017, 180, 161-178.	4.3	17
102	Analytical prediction model for non-symmetric fatigue crack growth in Fibre Metal Laminates. International Journal of Fatigue, 2017, 103, 546-556.	5.7	17
103	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
104	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
105	A generalized solution to the crack bridging problem of fiber metal laminates. Engineering Fracture Mechanics, 2013, 105, 65-85.	4.3	16
106	On the prediction of cure-process shape deviations in fibre metal laminates. Journal of Composite Materials, 2015, 49, 1705-1716.	2.4	16
107	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
108	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

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109	Role of adherend material on the fracture of bi-material composite bonded joints. <i>Composite Structures</i> , 2020, 252, 112643.	5.8	16
110	Development of fibre-metal laminates for improved impact performance. <i>European Physical Journal: Special Topics</i> , 2012, 206, 79-88.	2.6	15
111	Evaluation of the mechanical performance of a composite multi-cell tank for cryogenic storage: Part II – Experimental assessment. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3931-3943.	7.1	15
112	Crack closure in fibre metal laminates. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2007, 30, 608-620.	3.4	14
113	Thermal, morphological, and mechanical characterization of novel carbon nanofiber-filled bismaleimide composites. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2159-2167.	2.6	14
114	Crack paths in fibre metal laminates: Role of fibre bridging. <i>Engineering Fracture Mechanics</i> , 2013, 108, 183-194.	4.3	14
115	Design optimisation procedure for fibre metal laminates based on fatigue crack initiation. <i>Composite Structures</i> , 2015, 120, 275-284.	5.8	14
116	iFEM benchmark problems for solid elements. <i>Smart Materials and Structures</i> , 2019, 28, 065003.	3.5	14
117	Improving the quality of continuous ultrasonically welded thermoplastic composite joints by adding a consolidator to the welding setup. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 155, 106808.	7.6	14
118	Study of the fire resistant behavior of unfilled and carbon nanofibers reinforced polybenzimidazole coating for structural applications. <i>Polymers for Advanced Technologies</i> , 2014, 25, 29-35.	3.2	13
119	Prediction methodology for fatigue crack growth behaviour in Fibre Metal Laminates subjected to tension and pin loading. <i>Composite Structures</i> , 2017, 182, 176-182.	5.8	13
120	Transducer Placement Option of Lamb Wave SHM System for Hotspot Damage Monitoring. <i>Aerospace</i> , 2018, 5, 39.	2.2	13
121	Towards a physics-based relationship for crack growth under different loading modes. <i>Engineering Fracture Mechanics</i> , 2018, 195, 222-241.	4.3	12
122	Prediction Models for Distortions and Residual Stresses in Thermoset Polymer Laminates: An Overview. <i>Journal of Manufacturing and Materials Processing</i> , 2019, 3, 87.	2.2	12
123	Evaluation of the mechanical performance of a composite multi-cell tank for cryogenic storage: Part I - Tank pressure window based on progressive failure analysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3917-3930.	7.1	12
124	Influence of geometrical parameters on the strength of Hybrid CFRP-aluminium tubular adhesive joints. <i>Composite Structures</i> , 2020, 240, 112077.	5.8	12
125	The effects of friction stir welding on the mechanical properties and microstructure of 7000 series aluminium tailor-welded blanks. <i>International Journal of Material Forming</i> , 2008, 1, 1311-1314.	2.0	11
126	Crack-Tip Behavior in Fiber/Metal Laminates by Means of Digital-Image Correlation. <i>Journal of Aircraft</i> , 2010, 47, 1636-1646.	2.4	11

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127	Fracture in bending – The straining limits of monolithic sheets and machined tailor-made blanks. <i>Materials & Design</i> , 2011, 32, 1229-1241.	5.1	11
128	On the simulation of panel distortions due to hot curing adhesives. <i>International Journal of Solids and Structures</i> , 2014, 51, 2470-2478.	2.7	11
129	An experimental investigation into pin loading effects on fatigue crack growth in Fibre Metal Laminates. <i>Procedia Structural Integrity</i> , 2016, 2, 3361-3368.	0.8	11
130	Integrative approach for transducer positioning optimization for ultrasonic structural health monitoring for the detection of deterministic and probabilistic damage location. <i>Structural Health Monitoring</i> , 2021, 20, 1117-1144.	7.5	11
131	A Study on Through-the-Thickness Heating in Continuous Ultrasonic Welding of Thermoplastic Composites. <i>Materials</i> , 2021, 14, 6620.	2.9	11
132	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. <i>Journal of Applied Physics</i> , 2008, 103, 094314.	2.5	10
133	Fracture mechanism of aluminium friction stir welded blanks. <i>International Journal of Material Forming</i> , 2009, 2, 319-322.	2.0	9
134	Experimental and numerical analysis of a beam made of adhesively bonded tailor-made blanks. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 44, 766-780.	3.0	9
135	Prediction of Minimum Bending Ratio of Aluminum Sheets From Tensile Material Properties. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010, 132, .	2.2	9
136	Influence of the temperature cycle on local distortions in car panels caused by hot curing epoxies. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 216-222.	2.9	9
137	Optical Coherence Tomography for the Study of Polymer and Polymer Matrix Composites. <i>Strain</i> , 2014, 50, 436-443.	2.4	9
138	Effect of fiber-matrix adhesion on the creep behavior of CF/PPS composites: temperature and physical aging characterization. <i>Mechanics of Time-Dependent Materials</i> , 2016, 20, 245-262.	4.4	9
139	Simulation and detection of flaws in pre-cured CFRP using laser displacement sensing. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 341-349.	3.0	9
140	A new procedure for Finite Element simulation of forming process of non-homogeneous composite laminates and FMLs. <i>Composite Structures</i> , 2017, 163, 444-453.	5.8	9
141	Analytical prediction model for fatigue crack growth in Fibre Metal Laminates with MSD scenario. <i>International Journal of Fatigue</i> , 2017, 104, 263-272.	5.7	9
142	Processing and Characterization of Space-Durable High-Performance Polymeric Nanocomposite. <i>Journal of Thermophysics and Heat Transfer</i> , 2011, 25, 87-95.	1.6	8
143	Unraveling the myth of closure corrections: Sharpening the definition of opening and closure stresses with an energy approach. <i>International Journal of Fatigue</i> , 2021, 143, 106016.	5.7	8
144	Assessment of the Measurement Performance of the Multimodal Fibre Optic Shape Sensing Configuration for a Morphing Wing Section. <i>Sensors</i> , 2022, 22, 2210.	3.8	8

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145	Quality assessment of aerospace materials with optical coherence tomography. , 2012, , .		7
146	Performance Evaluation of Polybenzimidazole Under High-Energy Radiation Environment. Journal of Thermophysics and Heat Transfer, 2016, 30, 825-830.	1.6	7
147	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
148	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
149	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
150	Multi-material adhesive joints with thick bond-lines: Crack onset and crack deflection. Composite Structures, 2021, 266, 113687.	5.8	7
151	An Experimental Approach to Investigate Detailed Failure Mechanisms in Fibre Metal Laminates. , 2009, , 493-512.		7
152	Solid state amorphization in the Co-Ti system. Thin Solid Films, 1999, 345, 319-329.	1.8	6
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	Fatigue Behavior of Fiber/Metal Laminate Panels Containing Internal Carbon Tear Straps. Journal of Aircraft, 2011, 48, 2122-2129.	2.4	6
155	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
156	Analytical solutions for crack opening displacements of eccentric cracks in thin-walled metallic plates. Thin-Walled Structures, 2018, 123, 371-381.	5.3	6
157	A large displacement orthotropic viscoelastic model for manufacturing-induced distortions in Fibre Metal Laminates. Composite Structures, 2019, 209, 1035-1041.	5.8	6
158	Theoretical prediction of failure in forming of friction stir welded blanks. International Journal of Material Forming, 2008, 1, 305-308.	2.0	5
159	Strain Monitoring Using a Rayleigh Backscattering System for a Composite UAV Wing Instrumented with an Embedded Optical Fiber. Advanced Materials Research, 0, 1135, 1-19.	0.3	5
160	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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