

Jianyu Zhang

List of Publications by Year in descending order

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papers

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126907

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102
all docs

102
docs citations

102
times ranked

1880
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncertainty evaluation for bearing fatigue property of CFRP double-lap, single-bolt joints. Chinese Journal of Aeronautics, 2022, 35, 250-258.	5.3	6
2	Experimental and numerical investigations on the mode I delamination growth behavior of laminated composites with different z-pin fiber reinforcements. Composite Structures, 2022, 287, 115370.	5.8	25
3	An R-curve effect-included delamination growth criterion for mixed-mode I/II delamination predictions of composite laminates. Composite Structures, 2022, 295, 115846.	5.8	20
4	Buckling and stress-competitive failure analyses of composite laminated cylindrical shell under axial compression and torsional loads. Composite Structures, 2021, 255, 112977.	5.8	14
5	Effects of debonding defects on the postbuckling and failure behaviors of composite stiffened panel under uniaxial compression. Composite Structures, 2021, 256, 113121.	5.8	22
6	A sectional critical plane model for multiaxial high-cycle fatigue life prediction. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 689-704.	3.4	5
7	Development of a standardized test procedure and an improved data reduction method for the mixed-mode I/II delamination in composite laminates. Composites Science and Technology, 2021, 201, 108488.	7.8	12
8	Delamination in carbon fiber epoxy DCB laminates with different stacking sequences: R-curve behavior and bridging traction-separation relation. Composite Structures, 2021, 262, 113605.	5.8	44
9	Parameter studies and evaluation principles of delamination damage in laminated composites. Chinese Journal of Aeronautics, 2021, 34, 62-72.	5.3	9
10	Effect of Loading Frequency Ratio on Multiaxial Asynchronous Fatigue Failure of 30CrMnSiA Steel. Materials, 2021, 14, 3968.	2.9	2
11	An efficient semi-analytical method to study the mode I bridging-traction law of composite laminates. Composite Structures, 2021, 271, 114060.	5.8	5
12	Crack growth path of 30CrMnSiA steel under variable amplitude multiaxial loading. International Journal of Fatigue, 2021, 153, 106502.	5.7	5
13	An extended analytical model for predicting the compressive failure behaviors of composite laminate with an arbitrary elliptical delamination. International Journal of Solids and Structures, 2020, 185-186, 439-447.	2.7	15
14	A novel four-linear cohesive law for the delamination simulation in composite DCB laminates. Composites Part B: Engineering, 2020, 180, 107526.	12.0	50
15	Crack closure in the fatigue delamination of composite multidirectional DCB laminates with large-scale fiber bridging. Composite Structures, 2020, 244, 112220.	5.8	11
16	An improved 2D finite element model for bolt load distribution analysis of composite multi-bolt single-lap joints. Composite Structures, 2020, 253, 112770.	5.8	33
17	An enhanced beam theory based semi-analytical method to determine the DCB mode I bridging-traction law. Composite Structures, 2020, 245, 112306.	5.8	14
18	A simple procedure for determining the mode I bridging stress of composite DCB laminates without measuring the crack opening displacement. Composite Structures, 2020, 243, 112147.	5.8	23

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19	A modified mode I cohesive zone model for the delamination growth in DCB laminates with the effect of fiber bridging. <i>International Journal of Mechanical Sciences</i> , 2020, 176, 105514.	6.7	71
20	Revealing the competitive fatigue failure behaviour of CFRP-aluminum two-bolt, double-lap joints. <i>Composite Structures</i> , 2020, 244, 112166.	5.8	31
21	Multiaxial high-cycle fatigue failure of 30CrMnSiA steel with mean tension stress and mean shear stress. <i>International Journal of Fatigue</i> , 2019, 129, 105219.	5.7	14
22	An insight into three approaches for determining fatigue delamination resistance in DCB tests on composite laminates. <i>Composites Part B: Engineering</i> , 2019, 176, 107206.	12.0	16
23	Crack initiation and propagation of 30CrMnSiA steel under uniaxial and multiaxial cyclic loading. <i>International Journal of Fatigue</i> , 2019, 122, 240-255.	5.7	20
24	R-curve behaviour of the mixed-mode I/II delamination in carbon/epoxy laminates with unidirectional and multidirectional interfaces. <i>Composite Structures</i> , 2019, 223, 110949.	5.8	54
25	A failure-envelope-based method for the probabilistic failure prediction of composite multi-bolt double-lap joints. <i>Composites Part B: Engineering</i> , 2019, 172, 593-602.	12.0	26
26	A modified stiffness method considering effects of hole tensile deformation on bolt load distribution in multi-bolt composite joints. <i>Composites Part B: Engineering</i> , 2019, 171, 264-271.	12.0	21
27	An analytical model for evaluating the buckling, delamination propagation, and failure behaviors of delaminated composites under uniaxial compression. <i>Composite Structures</i> , 2019, 223, 110937.	5.8	24
28	A post-buckling compressive failure analysis framework for composite stiffened panels considering intra-, inter-laminar damage and stiffener debonding. <i>Results in Physics</i> , 2019, 13, 102205.	4.1	17
29	Enhancement of energy harvesting capability using PVDF/GFRP-laminated films. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 2548-2562.	3.5	5
30	Investigation of bolt load redistribution and its effect on failure prediction in double-lap, multi-bolt composite joints. <i>Composite Structures</i> , 2018, 202, 397-405.	5.8	25
31	A progressive fatigue damage model for composite structures in hygrothermal environments. <i>International Journal of Fatigue</i> , 2018, 111, 299-307.	5.7	37
32	Probabilistic bolt load distribution analysis of composite single-lap multi-bolt joints considering random bolt-hole clearances and tightening torques. <i>Composite Structures</i> , 2018, 194, 12-20.	5.8	34
33	A novel material degradation model for unidirectional CFRP composites. <i>Composites Part B: Engineering</i> , 2018, 135, 84-94.	12.0	34
34	An improved power law criterion for the delamination propagation with the effect of large-scale fiber bridging in composite multidirectional laminates. <i>Composite Structures</i> , 2018, 184, 961-968.	5.8	40
35	An interpretation of the load distributions in highly torqued single-lap composite bolted joints with bolt-hole clearances. <i>Composites Part B: Engineering</i> , 2018, 138, 194-205.	12.0	40
36	A bi-material property based FE modelling method for progressive damage analyses of composite double-lap bolted joints. <i>Results in Physics</i> , 2018, 11, 674-683.	4.1	16

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37	A novel model for determining the fatigue delamination resistance in composite laminates from a viewpoint of energy. <i>Composites Science and Technology</i> , 2018, 167, 489-496.	7.8	26
38	A progressive failure analysis of all-C/SiC composite multi-bolt joints. <i>Composite Structures</i> , 2018, 202, 1059-1068.	5.8	23
39	A micromechanical model for longitudinal compressive failure in unidirectional fiber reinforced composite. <i>Results in Physics</i> , 2018, 10, 841-848.	4.1	18
40	A strain-rate-dependent damage model for evaluating the low velocity impact induced damage of composite laminates. <i>Composite Structures</i> , 2018, 201, 995-1003.	5.8	42
41	Independent scattering model for evaluating antiplane shear wave attenuation in fiber-reinforced composite materials. <i>Ultrasonics</i> , 2017, 78, 185-194.	3.9	7
42	Investigation on the interfacial mechanical properties of hybrid graphene-carbon nanotube/polymer nanocomposites. <i>Carbon</i> , 2017, 115, 694-700.	10.3	68
43	Mode-II interlaminar fracture toughness of GFRP/Al laminates improved by surface modified VGCF interleaves. <i>Composites Part B: Engineering</i> , 2017, 114, 365-372.	12.0	19
44	Generation mechanism of nonlinear ultrasonic Lamb waves in thin plates with randomly distributed micro-cracks. <i>Ultrasonics</i> , 2017, 79, 60-67.	3.9	60
45	A probabilistic model for strength analysis of composite double-lap single-bolt joints. <i>Composite Structures</i> , 2017, 161, 419-427.	5.8	37
46	Investigation of thermal energy transport interface of hybrid graphene-carbon nanotube/polyethylene nanocomposites. <i>Scientific Reports</i> , 2017, 7, 14700.	3.3	18
47	Delamination propagation criterion including the effect of fiber bridging for mixed-mode I/II delamination in CFRP multidirectional laminates. <i>Composites Science and Technology</i> , 2017, 151, 302-309.	7.8	76
48	Size effect on interlayer shear between graphene sheets. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	7
49	An interface-dependent model of plateau fracture toughness in multidirectional CFRP laminates under mode I loading. <i>Composites Part B: Engineering</i> , 2017, 131, 196-208.	12.0	49
50	Anomalous Nernst effect in Ir ₂₂ Mn ₇₈ /Co ₂₀ Fe ₆₀ B ₂₀ /MgO layers with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	24
51	A residual strain model for progressive fatigue damage analysis of composite structures. <i>Composite Structures</i> , 2017, 169, 69-78.	5.8	26
52	XFEM-based model for simulating zigzag delamination growth in laminated composites under mode I loading. <i>Composite Structures</i> , 2017, 160, 1155-1162.	5.8	48
53	Simulations on Monitoring and Evaluation of Plasticity-Driven Material Damage Based on Second Harmonic of S ₀ Mode Lamb Waves in Metallic Plates. <i>Materials</i> , 2017, 10, 827.	2.9	15
54	Conductive PVDF-HFP/CNT composites for strain sensing. <i>Functional Materials Letters</i> , 2016, 09, 1650024.	1.2	6

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55	A novel interpretation of fatigue delamination growth behavior in CFRP multidirectional laminates. <i>Composites Science and Technology</i> , 2016, 133, 79-88.	7.8	36
56	Strengthening effects of twin interface in Cu/Ni multilayer thin films – A molecular dynamics study. <i>Materials and Design</i> , 2016, 111, 1-8.	7.0	79
57	Secondary bending effects in progressively damaged single-lap, single-bolt composite joints. <i>Results in Physics</i> , 2016, 6, 704-711.	4.1	28
58	The interfacial mechanical properties of functionalized graphene-polymer nanocomposites. <i>RSC Advances</i> , 2016, 6, 66658-66664.	3.6	50
59	Design and analysis of a novel bolted composite joint under bending load. <i>Materials and Design</i> , 2016, 98, 201-208.	7.0	13
60	A Numerical Method for Simulating the Microscopic Damage Evolution in Composites Under Uniaxial Transverse Tension. <i>Applied Composite Materials</i> , 2016, 23, 255-269.	2.5	23
61	XFEM simulation of delamination in composite laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 80, 61-71.	7.6	75
62	A micromechanics-based degradation model for composite progressive damage analysis. <i>Journal of Composite Materials</i> , 2016, 50, 2271-2287.	2.4	34
63	Stiffness threshold of randomly distributed carbon nanotube networks. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 84, 395-423.	4.8	75
64	3D Gradual Material Degradation Model for Progressive Damage Analyses of Unidirectional Composite Materials. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	1.1	4
65	Determination method of stress concentration relief factors for failure prediction of composite multi-bolt joints. <i>Journal of Composite Materials</i> , 2015, 49, 1667-1680.	2.4	17
66	An average failure index method for the tensile strength prediction of composite adhesive-bonded joints. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 292-301.	1.0	4
67	Interlaminar mechanical properties of carbon fiber reinforced plastic laminates modified with graphene oxide interleaf. <i>Carbon</i> , 2015, 91, 224-233.	10.3	123
68	Compressive fatigue behavior of low velocity impacted and quasi-static indented CFRP laminates. <i>Composite Structures</i> , 2015, 133, 1009-1015.	5.8	23
69	Carbon Nanotube Reinforced Composites: The Smaller Diameter, the Higher Fracture Toughness?. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	2.2	10
70	Effects of geometrical and mechanical properties of fiber and matrix on composite fracture toughness. <i>Composite Structures</i> , 2015, 122, 496-506.	5.8	43
71	Theoretical estimation on the percolation threshold for polymer matrix composites with hybrid fillers. <i>Composite Structures</i> , 2015, 124, 292-299.	5.8	45
72	Influence of end distances on the failure of composite bolted joints. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 388-404.	3.1	24

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73	A progressive failure analysis model for composite structures in hygrothermal environments. <i>Composite Structures</i> , 2015, 133, 331-342.	5.8	39
74	Investigation on characteristic length testing methods for failure prediction of composite multi-bolt joints. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 636-648.	3.1	20
75	An analytical joint stiffness model for load transfer analysis in highly torqued multi-bolt composite joints with clearances. <i>Composite Structures</i> , 2015, 131, 625-636.	5.8	42
76	A New Material Model for 2D FE Analysis of Adhesively Bonded Composite Joints. <i>Medziagotyra</i> , 2014, 20, .	0.2	2
77	An Efficient Algorithm Embedded in an Ultrasonic Visualization Technique for Damage Inspection Using the AE Sensor Excitation Method. <i>Sensors</i> , 2014, 14, 20439-20450.	3.8	6
78	A Numerical Study on Electrical Percolation of Polymer-Matrix Composites with Hybrid Fillers of Carbon Nanotubes and Carbon Black. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-9.	2.7	34
79	Three-dimensional progressive damage models for cohesively bonded composite ĩ€ joint. <i>Journal of Composite Materials</i> , 2014, 48, 707-721.	2.4	28
80	Study of methods for evaluating the probability of multiple site damage occurrences. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 65-73.	5.1	2
81	A creepĀ“fatigue crack growth model containing temperature and interactive effects. <i>International Journal of Fatigue</i> , 2014, 59, 34-42.	5.7	24
82	Effect of mean shear stress on torsion fatigue failure behavior of 2A12-T4 aluminum alloy. <i>International Journal of Fatigue</i> , 2014, 67, 173-182.	5.7	19
83	Influence of ĩ€ overlaminates on the mechanical behavior of all-composite adhesively bonded ĩ€ joints. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 923-934.	3.1	17
84	A progressive damage analysis based characteristic length method for multi-bolt composite joints. <i>Composite Structures</i> , 2014, 108, 915-923.	5.8	56
85	A novel characteristic curve for failure prediction of multi-bolt composite joints. <i>Composite Structures</i> , 2014, 108, 129-136.	5.8	43
86	Simulation of delamination growth in multidirectional laminates under mode I and mixed mode I/II loadings using cohesive elements. <i>Composite Structures</i> , 2014, 116, 509-522.	5.8	157
87	Fastener effects on mechanical behaviors of double-lap composite joints. <i>Composite Structures</i> , 2013, 100, 413-423.	5.8	58
88	Failure prediction of out-of-plane woven composite joints using cohesive element. <i>Composite Structures</i> , 2013, 106, 407-416.	5.8	52
89	Fatigue crack growth measurement in a superalloy at elevated temperature. <i>International Journal of Fatigue</i> , 2013, 47, 189-195.	5.7	10
90	A modified failure envelope method for failure prediction of multi-bolt composite joints. <i>Composites Science and Technology</i> , 2013, 83, 54-63.	7.8	49

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91	Modified maximum stress failure criterion for composite T-joints. Journal of Composite Materials, 2013, 47, 2995-3008.	2.4	33
92	Strength prediction of composite T-joint under bending load and study of geometric and material variations effects. Journal of Composite Materials, 2013, 47, 1029-1038.	2.4	28
93	Mixed mode delamination growth of multidirectional composite laminates under fatigue loading. Engineering Fracture Mechanics, 2012, 96, 676-686.	4.3	24
94	High cycle fatigue and fracture mode analysis of 2A12-T4 aluminum alloy under out-of-phase axial-torsion constant amplitude loading. International Journal of Fatigue, 2012, 38, 144-154.	5.7	31
95	Fatigue delamination growth rates and thresholds of composite laminates under mixed mode loading. International Journal of Fatigue, 2012, 40, 7-15.	5.7	61
96	Creep-fatigue crack growth behaviour of a nickel-based powder metallurgy superalloy under high temperature. Engineering Failure Analysis, 2011, 18, 1058-1066.	4.0	40
97	Crack growth behaviour of a nickel-based powder metallurgy superalloy under elevated temperature. International Journal of Fatigue, 2011, 33, 632-641.	5.7	34
98	Tension-torsion high-cycle fatigue failure analysis of 2A12-T4 aluminum alloy with different stress ratios. International Journal of Fatigue, 2011, 33, 1066-1074.	5.7	27
99	Failure Analysis of Woven Composite Joint Under Bending Load. Advanced Science Letters, 2011, 4, 2752-2758.	0.2	8
100	A probabilistic estimation method of multiple site damage occurrence for aircraft structures. Procedia Engineering, 2010, 2, 1115-1124.	1.2	10
101	Strength Prediction of Composite T-joints Under Tensile Load. Journal of Composite Materials, 2010, 44, 2759-2778.	2.4	36