Zhidong Guan

List of Publications by Year
in descending order

67	685	567281 15	677142 22
papers	citations	h-index	g-index

67	67	67	457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prediction of permanent indentation due to impact on laminated composites based on an elasto-plastic model incorporating fiber failure. Composite Structures, 2013, 96, 232-242.	5.8	46
2	A new stress-based multi-scale failure criterion of composites and its validation in open hole tension tests. Chinese Journal of Aeronautics, 2014, 27, 1430-1441.	5.3	36
3	A fast and efficient numerical prediction of compression after impact (CAI) strength of composite laminates and structures. Thin-Walled Structures, 2020, 148, 106588.	5.3	33
4	Experiment investigation on impact damage and influences on compression behaviors of single T-stiffened composite panels. Composite Structures, 2018, 203, 486-497.	5.8	30
5	Failure analysis of carbon fiber reinforced composite subjected to low velocity impact and compression after impact. Journal of Reinforced Plastics and Composites, 2016, 35, 727-746.	3.1	29
6	Experimental study on delamination growth of stiffened composite panels in compression after impact. Composite Structures, 2018, 206, 791-800.	5.8	27
7	Multi-Scale Modeling and Damage Analysis of Composite with Thermal Residual Stress. Applied Composite Materials, 2015, 22, 289-305.	2.5	25
8	Effect of stiffener damage caused by low velocity impact on compressive buckling and failure modes of T-stiffened composite panels. Composite Structures, 2018, 184, 198-210.	5.8	24
9	Experimental investigation on damage mechanisms and buckling behaviors of thin composite laminates in compression after impact. Composite Structures, 2021, 256, 113122.	5.8	24
10	Modelling and simulating of the compressive behavior of T-stiffened composite panels subjected to stiffener impact. Composite Structures, 2018, 186, 221-232.	5.8	22
11	Experimental investigation on impact performances of GLARE laminates. Chinese Journal of Aeronautics, 2015, 28, 1784-1792.	5.3	20
12	Microscopic progressive damage simulation of unidirectional composite based on the elasticâ€“plastic theory. Journal of Reinforced Plastics and Composites, 2015, 34, 232-247.	3.1	20
13	An accurate and easy to implement method for predicting matrix crack and plasticity of composites with an efficient search algorithm for LaRC05 criterion. Composites Part A: Applied Science and Manufacturing, 2020, 131, 105808.	7.6	20
14	Study on cure-induced residual stresses and spring-in deformation of L-shaped composite laminates using a simplified constitutive model considering stress relaxation. Composite Structures, 2021, 272, 114203.	5.8	17
15	A long-range force based random method for generating anisotropic 2D fiber arrangement statistically equivalent to real composites. Composites Science and Technology, 2019, 180, 33-43.	7.8	16
16	Pull-Through Mechanical Behavior of Composite Fastener Threads. Applied Composite Materials, 2015, 22, 251-267.	2.5	15
17	Permanent indentation and damage creation of laminates with different composite systems: An experimental investigation. Polymer Composites, 2014, 35, 872-883.	4.6	13
18	Simulation of Low Velocity Impact Induced Inter- and Intra-Laminar Damage of Composite Beams Based on XFEM. Applied Composite Materials, 2017, 24, 1459-1477.	2.5	13

#	Article	IF	Citations
19	Relationship Between Matrix Cracking and Delamination in CFRP Cross-Ply Laminates Subjected to Low Velocity Impact. Materials, 2019, 12, 3990.	2.9	13
20	Improvement and validation of residual stress measurement in composite laminates using the incremental hole-drilling method. Mechanics of Materials, 2021, 154, 103715.	3.2	13
21	Clustering effect on mechanical properties and failure mechanism of open hole high modulus carbon fiber reinforced composite laminates under compression. Composite Structures, 2019, 229, 111377.	5.8	12
22	Edgewise compressive performance of repaired composite sandwich panels â€“ Experiment and finite element analysis. Journal of Reinforced Plastics and Composites, 2013, 32, 1331-1347.	3.1	11
23	Microscopic Progressive Damage Simulation and Scale-Span Analysis of Cross-Ply Laminate Based on the Elasticâ€“Plastic Theory. Applied Composite Materials, 2015, 22, 1-12.	2.5	11
24	Impact resistance and damage tolerance of scarfâ€repaired composite structures: An experimental investigation. Polymer Composites, 2016, 37, 1681-1694.	4.6	11
25	Experimental study on effect of impact locations on damage formation and compression behavior of stiffened composite panels with L-shaped stiffener. Thin-Walled Structures, 2020, 150, 106707.	5.3	11
26	The failure mechanism of carbon fiber-reinforced composites under longitudinal compression considering the interface. Science and Engineering of Composite Materials, 2017, 24, 429-437.	1.4	10
27	Micro-Mechanical Analysis About Kink Band in Carbon Fiber/Epoxy Composites Under Longitudinal Compression. Applied Composite Materials, 2017, 24, 1011-1028.	2.5	10
28	Multiscale Analysis of CFRP Laminates with MMF3 Criterion under Different Off-Axis Loading Conditions. Materials, 2018, 11, 2255.	2.9	10
29	Compressive strength determined for ultrahigh modulus fiber reinforced composites by [90/0]ns laminates. Composite Structures, 2018, 191, 24-35.	5.8	9
30	Study on Prediction of Compression Performance of Composite Laminates After Impact Based on Convolutional Neural Networks. Applied Composite Materials, 2021, 28, 1153-1173.	2.5	9
31	A new material selection approach using PROMETHEE method. , 2011, , .		8
32	A Progressive Damage Model for Predicting Permanent Indentation and Impact Damage in Composite Laminates. Applied Composite Materials, 2017, 24, 1029-1048.	2.5	8
33	Machine learning-based prediction of the translaminar R-curve of composites from simple tensile test of pre-cracked samples. Journal of Micromechanics and Molecular Physics, 2021, 06, 2050017.	1.2	7
34	Investigation on impact damage and shear after impact (SAI) behavior of grid stiffened panels. Composite Structures, 2021, 277, 114640.	5.8	7
35	Initial damage induced by thermal residual stress and microscopic failure analysis of carbon-fiber reinforced composite under shear loading. Composite Interfaces, 2015, 22, 315-329.	2.3	6
36	Fatigue life and defect tolerance calculation for specimens with foreign object impact and scratch damage. Archive of Applied Mechanics, 2018, 88, 373-390.	2.2	6

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37	Analysis of Open-Hole Compressive CFRP Laminates at Various Temperatures Based on a Multiscale Strategy. Applied Composite Materials, 2019, 26, 923-944.	2.5	6
38	Damage model for predicting shear strength of carbon/carbon composite fastener based on post-failure behavior. Composite Structures, 2019, 221, 110864.	5.8	6
39	Experimental and numerical study on mode I interlaminar fracture toughness of lightly stitched ceramic-matrix composites. Results in Physics, 2020, 19, 103422.	4.1	6
40	The Experiment and Numerical Simulation of Composite Countersunk-head Fasteners Pull-through Mechanical Behavior. Applied Composite Materials, 2014, 21, 773-787.	2.5	5
41	Compressive experiment and numerical simulation of 3D carbon/carbon composite open-hole plates. Archive of Applied Mechanics, 2018, 88, 913-932.	2.2	5
42	A novel analytical curved beam model for predicting elastic properties of 3D eight-harness satin weave composites. Science and Engineering of Composite Materials, 2018, 25, 689-706.	1.4	5
43	Mechanical properties and damage analysis of C/Câ€“SiC curved beam under four-point bending: Experimental and numerical investigation. Ceramics International, 2020, 46, 25646-25660.	4.8	5
44	An improved model for predicting stiffness of single-lap composites bolted joints using Matlab/Simulink. Mechanics of Advanced Materials and Structures, 2021, 28, 1434-1444.	2.6	5
45	Process Factors and Edgewise Compressive Properties of Scarf-repaired Honeycomb Sandwich Structures. Applied Composite Materials, 2014, 21, 689-705.	2.5	4
46	Tensile behaviors after impact of composite scarf joints. , 2016, , .		4
47	An improved characteristic length method for predicting the single bolt joint bearing strength considering secondary bending effect. Mechanics of Advanced Materials and Structures, 2022, 29, 1405-1417.	2.6	4
48	A 3D micromechanics-based failure criterion for fiber reinforced composites under longitudinal compression. Composites Part A: Applied Science and Manufacturing, 2022, 161, 107076.	7.6	4
49	Damage evolution and multi-scale analysis of carbon fiber-reinforced cross-ply laminate with thermal residual stress. Composite Interfaces, 2015, 22, 331-342.	2.3	3
50	Time-temperature dependent mechanical properties of cured epoxy resin and unidirectional CFRP. , 2017, , .		3
51	Effects of chamfering, cold expansion, bolt clamping, and their combinations on fatigue life of aluminumâ€“lithium alloy single plate. Advances in Mechanical Engineering, 2018, 10, 168781401775068.	1.6	3
52	Improved semi-analytical and numerical methods on prediction of in-plane coefficients of thermal expansion of woven ceramic matrix composite considering defects. Journal of the European Ceramic Society, 2021, 41, 1795-1809.	5.7	3
53	Experimental and Numerical Studies on the Failure Mechanism of the Composite Scarf Joints with Bonding Flaws. Applied Composite Materials, 2021, 28, 1399-1425.	2.5	2
54	Prediction of the inter-fiber mechanical properties of composites: Part II Failure criterion based on micromechanics and cross-scale stress calculation. Composite Structures, 2021, 271, 114126.	5.8	2

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55	Prediction of the inter-fiber mechanical properties of composites: Part I standardization micro-scale modelling method and damage analysis. Composite Structures, 2021, 271, 114127.	5.8	2
56	A Web-based Computer-Aided Material-Selection System for Aircraft Design. , 2010, , .		1
57	Analysis of torsional failure and bearing capacity of composite thin-walled tubes filled with plastic foam. , 2016, , .		1
58	Finite element analysis of unidirectional composite elastic constants predictions considering interface. , 2016, , .		1
59	Micro-mechanical simulation of longitudinal compression in composites considering stochastic fiber strength. , 2016, , .		1
60	Prediction on in-plane tension Young's modulus of braided composites with pore matrix. , 2017, , .		1
61	Experimental and Numerical Investigation on C/SiC Composite Z-Pinned/Bonded Hybrid Single-Lap Joints. Materials, 2021, 14, 1130.	2.9	1
62	BUCKLING RESPONSE OF REINFORCED COMPOSITE STIFFENED PANEL WITH COVER IN SHEAR LOAD. , 2016, , .		0
63	Numerical simulation on process-induced deformation of autoclaved V-shaped composite parts. , 2016, , .		0
64	An numerical investigation on the effect of the combination of cold expansion and interference fitting on fatigue life improvement of a 7075-T6 aluminum alloy single plate. , 2017, , .		0
65	Edgewise compression behavior of honeycomb sandwich structures. , 2017, , .		0
66	The experiment and numerical simulation of woven composite fastener shear behavior. , 2017, , .		0
67	Impact and compression after impact behavior of single-stiffener composite panels. , 2017, , .		0