Hui Cheng

List of Publications by Year
in descending order

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45 papers	1,104 citations	331670 21 h-index	434195 31 g-index
45 all docs	45 docs citations	45 times ranked	537 citing authors

#	Article	IF	Citations
1	An experimental study on mechanical behavior and failure mechanism of sleeved fasteners and conventional bolt for composite interference-fit joints. Thin-Walled Structures, 2022, 170, 108537.	5.3	10
2	Microscale damage modeling of bolt-hole contact interface during the bolt installation process of composite structure. Composite Structures, 2022, 291, 115561.	5.8	7
3	Interfacial wear damage of CFRP/Ti-alloy single-lap bolted joint after long-term seawater aging. Engineering Failure Analysis, 2022, 139, 106464.	4.0	8
4	Investigation on deformation of composite multi-bolted joints considering influences of hole-location errors and installation sequence. Engineering Failure Analysis, 2022, 140, 106592.	4.0	1
5	Topography characteristics and formation mechanism of the bolt-hole contact interface during the bolt installation of interference-fit composite structure. Thin-Walled Structures, 2022, 179, 109642.	5.3	11
6	A novel virtual material layer model for predicting natural frequencies of composite bolted joints. Chinese Journal of Aeronautics, 2021, 34, 101-111.	5.3	16
7	Modeling on mechanical behavior and damage evolution of single-lap bolted composite interference-fit joints under thermal effects. Chinese Journal of Aeronautics, 2021, 34, 230-244.	5.3	16
8	Investigation of high temperature effect on CFRP cutting mechanism based on a temperature controlled orthogonal cutting experiment. Composite Structures, 2021, 268, 113967.	5.8	20
9	Fractal characteristic evaluation and interpolation reconstruction for surface topography of drilled composite hole wall. Frontiers of Mechanical Engineering, 2021, 16, 840-854.	4.3	4
10	An efficient physically-based damage model for interface damage of composites sleeved interference joint and influence analysis of its interface friction. Composite Structures, 2021, 275, 114425.	5.8	5
11	The mechanical degradation mechanism of CFRP/Al double-lap bolted joints (with and without) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.8	10
12	Effect of yield hardening on plastic deformation of metal contact interface. , 2021, , .		1
13	Analysis of exit-ply temperature characteristics and their effects on occurrence of exit-ply damages during UD CFRP drilling. Composite Structures, 2020, 231, 111456.	5.8	20
14	Investigation of CFRP cutting mechanism variation and the induced effects on cutting response and damage distribution. International Journal of Advanced Manufacturing Technology, 2020, 106, 2893-2907.	3.0	20
15	Comparative tool wear and hole quality investigation in drilling of aerospace grade T800 CFRP using different external cooling lubricants. International Journal of Advanced Manufacturing Technology, 2020, 106, 937-951.	3.0	19
16	Combined effects of seawater ageing and fatigue loading on the bearing performance and failure mechanism of CFRP/CFRP single-lap bolted joints. Composite Structures, 2020, 234, 111677.	5.8	26
17	Mechanism of bolt pretightening and preload relaxation in composite interference-fit joints under thermal effects. Journal of Composite Materials, 2020, 54, 4929-4946.	2.4	13
18	Modeling of damage behavior of carbon fiber reinforced plastic composites interference bolting with sleeve. Materials and Design, 2020, 194, 108904.	7.0	20

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19	An experimental investigation on interfacial behavior and preload response of composite bolted interference-fit joints under assembly and thermal conditions. Aerospace Science and Technology, 2020, 103, 105917.	4.8	35
20	Force coefficient prediction for drilling of UD-CFRP based on FEM simulation of orthogonal cutting. International Journal of Advanced Manufacturing Technology, 2019, 104, 3695-3716.	3.0	18
21	Modeling on bearing behavior and damage evolution of single-lap bolted composite interference-fit joints. Composite Structures, 2019, 212, 452-464.	5.8	42
22	Effect of secondary bending and bolt load on damage and strength of composite single-lap interference-fit bolted structures. Journal of Composite Materials, 2019, 53, 4385-4398.	2.4	15
23	Investigation on the interface damage in drilling low-stiffness CFRP/Ti stacks. Chinese Journal of Aeronautics, 2019, 32, 2211-2221.	5.3	39
24	A sequential homogenization of multi-coated micromechanical model for functionally graded interphase composites. Computational Mechanics, 2019, 64, 1321-1337.	4.0	5
25	Multi-stage mechanical behavior and failure mechanism analysis of CFRP/Al single-lap bolted joints with different seawater ageing conditions. Composite Structures, 2019, 208, 634-645.	5.8	34
26	An experimental study on mechanical response of single-lap bolted CFRP composite interference-fit joints. Composite Structures, 2018, 196, 76-88.	5.8	61
27	Stress analysis and damage evolution in individual plies of notched composite laminates subjected to in-plane loads. Chinese Journal of Aeronautics, 2017, 30, 447-460.	5.3	22
28	A micro-scale cutting model for UD CFRP composites with thermo-mechanical coupling. Composites Science and Technology, 2017, 153, 18-31.	7.8	68
29	Fretting behaviors of interface between CFRP and coated titanium alloy in composite interference-fit joints under service condition. Materials and Design, 2017, 134, 91-102.	7.0	32
30	A novel six-state cutting force model for drilling-countersinking machining process of CFRP-Al stacks. International Journal of Advanced Manufacturing Technology, 2017, 89, 2063-2076.	3.0	31
31	A cutting force predicting model in orthogonal machining of unidirectional CFRP for entire range of fiber orientation. International Journal of Advanced Manufacturing Technology, 2017, 89, 833-846.	3.0	44
32	Analytical modeling for stress distribution around interference fit holes on pinned composite plates under tensile load. Composites Part B: Engineering, 2016, 100, 176-185.	12.0	41
33	Effect of workpiece stiffness on thrust force and delamination in drilling thin composite laminates. Journal of Composite Materials, 2016, 50, 617-625.	2.4	12
34	Micromechanical analysis for microscopic damage initiation in fiber/epoxy composite during interference-fit pin installation. Materials and Design, 2016, 89, 36-49.	7.0	30
35	An analytical method for predicting the fluctuation of thrust force during drilling of unidirectional carbon fiber reinforced plastics. Journal of Composite Materials, 2015, 49, 699-711.	2.4	32
36	Stress distribution modeling for interference-fit area of each individual layer around composite laminates joint. Composites Part B: Engineering, 2015, 78, 469-479.	12.0	35

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37	A novel prediction model for thrust force and torque in drilling interface region of CFRP/Ti stacks. International Journal of Advanced Manufacturing Technology, 2015, 81, 1497-1508.	3.0	32
38	Microscopic mechanism based force prediction in orthogonal cutting of unidirectional CFRP. International Journal of Advanced Manufacturing Technology, 2015, 79, 1209-1219.	3.0	73
39	Critical thrust force predicting modeling for delamination-free drilling of metal-FRP stacks. Composite Structures, 2014, 107, 604-609.	5.8	72
40	Optimization method of fixture layout for aeronautical thinâ€walled structures with automated riveting. Assembly Automation, 2012, 32, 323-332.	1.7	17
41	Modeling and analyzing of variation propagation in aeronautical thinâ€walled structures automated riveting. Assembly Automation, 2012, 32, 25-37.	1.7	21
42	Efficient method of positioning error analysis for aeronautical thin-walled structures multi-state riveting. International Journal of Advanced Manufacturing Technology, 2011, 55, 217-233.	3.0	23
43	Variation modeling of aeronautical thin-walled structures with multi-state riveting. Journal of Manufacturing Systems, 2011, 30, 101-115.	13.9	41
44	Notice of Retraction: An effective method of studying interference-fit riveting for 2117-T4 aluminum slug rivet. , 2010, , .		0
45	An efficient trans-scale and multi-stage approach for the deformation analysis of large-sized thin-walled composite structure in aircraft assembly. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	2