

Hui Cheng

List of Publications by Year in descending order

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45
papers

1,104
citations

331670

21
h-index

434195

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all docs

45
docs citations

45
times ranked

537
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic mechanism based force prediction in orthogonal cutting of unidirectional CFRP. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1209-1219.	3.0	73
2	Critical thrust force predicting modeling for delamination-free drilling of metal-FRP stacks. <i>Composite Structures</i> , 2014, 107, 604-609.	5.8	72
3	A micro-scale cutting model for UD CFRP composites with thermo-mechanical coupling. <i>Composites Science and Technology</i> , 2017, 153, 18-31.	7.8	68
4	An experimental study on mechanical response of single-lap bolted CFRP composite interference-fit joints. <i>Composite Structures</i> , 2018, 196, 76-88.	5.8	61
5	A cutting force predicting model in orthogonal machining of unidirectional CFRP for entire range of fiber orientation. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 833-846.	3.0	44
6	Modeling on bearing behavior and damage evolution of single-lap bolted composite interference-fit joints. <i>Composite Structures</i> , 2019, 212, 452-464.	5.8	42
7	Variation modeling of aeronautical thin-walled structures with multi-state riveting. <i>Journal of Manufacturing Systems</i> , 2011, 30, 101-115.	13.9	41
8	Analytical modeling for stress distribution around interference fit holes on pinned composite plates under tensile load. <i>Composites Part B: Engineering</i> , 2016, 100, 176-185.	12.0	41
9	Investigation on the interface damage in drilling low-stiffness CFRP/Ti stacks. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 2211-2221.	5.3	39
10	Stress distribution modeling for interference-fit area of each individual layer around composite laminates joint. <i>Composites Part B: Engineering</i> , 2015, 78, 469-479.	12.0	35
11	An experimental investigation on interfacial behavior and preload response of composite bolted interference-fit joints under assembly and thermal conditions. <i>Aerospace Science and Technology</i> , 2020, 103, 105917.	4.8	35
12	Multi-stage mechanical behavior and failure mechanism analysis of CFRP/Al single-lap bolted joints with different seawater ageing conditions. <i>Composite Structures</i> , 2019, 208, 634-645.	5.8	34
13	An analytical method for predicting the fluctuation of thrust force during drilling of unidirectional carbon fiber reinforced plastics. <i>Journal of Composite Materials</i> , 2015, 49, 699-711.	2.4	32
14	A novel prediction model for thrust force and torque in drilling interface region of CFRP/Ti stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 1497-1508.	3.0	32
15	Fretting behaviors of interface between CFRP and coated titanium alloy in composite interference-fit joints under service condition. <i>Materials and Design</i> , 2017, 134, 91-102.	7.0	32
16	A novel six-state cutting force model for drilling-countersinking machining process of CFRP-Al stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 2063-2076.	3.0	31
17	Micromechanical analysis for microscopic damage initiation in fiber/epoxy composite during interference-fit pin installation. <i>Materials and Design</i> , 2016, 89, 36-49.	7.0	30
18	Combined effects of seawater ageing and fatigue loading on the bearing performance and failure mechanism of CFRP/CFRP single-lap bolted joints. <i>Composite Structures</i> , 2020, 234, 111677.	5.8	26

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19	Efficient method of positioning error analysis for aeronautical thin-walled structures multi-state riveting. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 55, 217-233.	3.0	23
20	Stress analysis and damage evolution in individual plies of notched composite laminates subjected to in-plane loads. <i>Chinese Journal of Aeronautics</i> , 2017, 30, 447-460.	5.3	22
21	Modeling and analyzing of variation propagation in aeronautical thin-walled structures automated riveting. <i>Assembly Automation</i> , 2012, 32, 25-37.	1.7	21
22	Analysis of exit-ply temperature characteristics and their effects on occurrence of exit-ply damages during UD CFRP drilling. <i>Composite Structures</i> , 2020, 231, 111456.	5.8	20
23	Investigation of CFRP cutting mechanism variation and the induced effects on cutting response and damage distribution. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 2893-2907.	3.0	20
24	Modeling of damage behavior of carbon fiber reinforced plastic composites interference bolting with sleeve. <i>Materials and Design</i> , 2020, 194, 108904.	7.0	20
25	Investigation of high temperature effect on CFRP cutting mechanism based on a temperature controlled orthogonal cutting experiment. <i>Composite Structures</i> , 2021, 268, 113967.	5.8	20
26	Comparative tool wear and hole quality investigation in drilling of aerospace grade T800 CFRP using different external cooling lubricants. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 937-951.	3.0	19
27	Force coefficient prediction for drilling of UD-CFRP based on FEM simulation of orthogonal cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 3695-3716.	3.0	18
28	Optimization method of fixture layout for aeronautical thin-walled structures with automated riveting. <i>Assembly Automation</i> , 2012, 32, 323-332.	1.7	17
29	A novel virtual material layer model for predicting natural frequencies of composite bolted joints. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 101-111.	5.3	16
30	Modeling on mechanical behavior and damage evolution of single-lap bolted composite interference-fit joints under thermal effects. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 230-244.	5.3	16
31	Effect of secondary bending and bolt load on damage and strength of composite single-lap interference-fit bolted structures. <i>Journal of Composite Materials</i> , 2019, 53, 4385-4398.	2.4	15
32	Mechanism of bolt pretightening and preload relaxation in composite interference-fit joints under thermal effects. <i>Journal of Composite Materials</i> , 2020, 54, 4929-4946.	2.4	13
33	Effect of workpiece stiffness on thrust force and delamination in drilling thin composite laminates. <i>Journal of Composite Materials</i> , 2016, 50, 617-625.	2.4	12
34	Topography characteristics and formation mechanism of the bolt-hole contact interface during the bolt installation of interference-fit composite structure. <i>Thin-Walled Structures</i> , 2022, 179, 109642.	5.3	11
35	The mechanical degradation mechanism of CFRP/Al double-lap bolted joints (with and without) Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	5.8	10
36	An experimental study on mechanical behavior and failure mechanism of sleeved fasteners and conventional bolt for composite interference-fit joints. <i>Thin-Walled Structures</i> , 2022, 170, 108537.	5.3	10

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37	Interfacial wear damage of CFRP/Ti-alloy single-lap bolted joint after long-term seawater aging. <i>Engineering Failure Analysis</i> , 2022, 139, 106464.	4.0	8
38	Microscale damage modeling of bolt-hole contact interface during the bolt installation process of composite structure. <i>Composite Structures</i> , 2022, 291, 115561.	5.8	7
39	A sequential homogenization of multi-coated micromechanical model for functionally graded interphase composites. <i>Computational Mechanics</i> , 2019, 64, 1321-1337.	4.0	5
40	An efficient physically-based damage model for interface damage of composites sleeved interference joint and influence analysis of its interface friction. <i>Composite Structures</i> , 2021, 275, 114425.	5.8	5
41	Fractal characteristic evaluation and interpolation reconstruction for surface topography of drilled composite hole wall. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 840-854.	4.3	4
42	An efficient trans-scale and multi-stage approach for the deformation analysis of large-sized thin-walled composite structure in aircraft assembly. <i>International Journal of Advanced Manufacturing Technology</i> , 0, , 1.	3.0	2
43	Effect of yield hardening on plastic deformation of metal contact interface. , 2021, , .		1
44	Investigation on deformation of composite multi-bolted joints considering influences of hole-location errors and installation sequence. <i>Engineering Failure Analysis</i> , 2022, 140, 106592.	4.0	1
45	Notice of Retraction: An effective method of studying interference-fit riveting for 2117-T4 aluminum slug rivet. , 2010, , .		0