

Tn Chakherlou

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,402
citations

279798

23
h-index

330143

37
g-index

42
all docs

42
docs citations

42
times ranked

473
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of cold expansion on improving the fatigue life of fastener holes. <i>Engineering Failure Analysis</i> , 2003, 10, 13-24.	4.0	157
2	Experimental and numerical investigation of the effect of clamping force on the fatigue behaviour of bolted plates. <i>Engineering Failure Analysis</i> , 2008, 15, 563-574.	4.0	104
3	The effect of bolt clamping force on the fracture strength and the stress intensity factor of a plate containing a fastener hole with edge cracks. <i>Engineering Failure Analysis</i> , 2009, 16, 242-253.	4.0	87
4	An investigation about interference fit effect on improving fatigue life of a holed single plate in joints. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 675-682.	3.7	85
5	An experimental investigation of the bolt clamping force and friction effect on the fatigue behavior of aluminum alloy 2024-T3 double shear lap joint. <i>Materials & Design</i> , 2011, 32, 4641-4649.	5.1	73
6	Experimental and numerical investigations into the effect of an interference fit on the fatigue life of double shear lap joints. <i>Engineering Failure Analysis</i> , 2009, 16, 2066-2080.	4.0	72
7	On the fatigue behavior of cold expanded fastener holes subjected to bolt tightening. <i>International Journal of Fatigue</i> , 2011, 33, 800-810.	5.7	49
8	Experimental and numerical comparison of cold expansion and interference fit methods in improving fatigue life of holed plate in double shear lap joints. <i>Aerospace Science and Technology</i> , 2013, 29, 351-362.	4.8	46
9	Reduction in clamping force due to applied longitudinal load to aerospace structural bolted plates. <i>Aerospace Science and Technology</i> , 2009, 13, 325-330.	4.8	41
10	Investigation of bolt clamping force on the fatigue life of double lap simple bolted and hybrid (bolted/bonded) joints via experimental and numerical analysis. <i>Engineering Failure Analysis</i> , 2014, 45, 406-420.	4.0	40
11	Prediction of fatigue life in aircraft double lap bolted joints using several multiaxial fatigue criteria. <i>Materials & Design</i> , 2014, 59, 430-438.	5.1	37
12	Experimental and numerical study of fatigue crack growth of aluminum alloy 2024-T3 single lap simple bolted and hybrid (adhesive/bolted) joints. <i>Engineering Failure Analysis</i> , 2016, 59, 253-268.	4.0	36
13	Effect of cold expansion on the fatigue life of Al 2024-T3 in double shear lap joints: Experimental and numerical investigations. <i>Materials & Design</i> , 2012, 33, 185-196.	5.1	35
14	Investigation of the fatigue life and crack growth in torque tightened bolted joints. <i>Aerospace Science and Technology</i> , 2011, 15, 304-313.	4.8	34
15	Effect of interference fitting and/or bolt clamping on the fatigue behavior of Al alloy 2024-T3 double shear lap joints in different cyclic load ranges. <i>International Journal of Mechanical Sciences</i> , 2013, 72, 2-12.	6.7	33
16	An experimental investigation on the effect of short time exposure to elevated temperature on fatigue life of cold expanded fastener holes. <i>Materials & Design</i> , 2008, 29, 1504-1511.	5.1	32
17	Fatigue life estimation of bolt clamped and interference fitted-bolt clamped double shear lap joints using multiaxial fatigue criteria. <i>Materials & Design</i> , 2013, 43, 327-336.	5.1	32
18	Prediction of fatigue life in cold expanded fastener holes subjected to bolt tightening in Al alloy 7075-T6 plate. <i>International Journal of Mechanical Sciences</i> , 2015, 90, 6-15.	6.7	30

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19	An FE analysis for assessing the effect of short-term exposure to elevated temperature on residual stresses around cold expanded fastener holes in aluminum alloy 7075-T6. <i>Materials & Design</i> , 2010, 31, 500-507.	5.1	27
20	Investigating clamping force variations in Al2024-T3 interference fitted bolted joints under static and cyclic loading. <i>Materials & Design</i> , 2012, 37, 128-136.	5.1	26
21	A fatigue crack initiation and growth life estimation method in single-bolted connections. <i>Journal of Strain Analysis for Engineering Design</i> , 2019, 54, 79-94.	1.8	26
22	Fatigue life estimation of double lap simple bolted and hybrid (bolted/bonded) joints using several multiaxial fatigue criteria. <i>Materials & Design</i> , 2015, 67, 583-595.	5.1	25
23	Experimental and numerical investigations about the combined effect of interference fit and bolt clamping on the fatigue behavior of Al 2024-T3 double shear lap joints. <i>Materials & Design</i> , 2012, 33, 425-435.	5.1	24
24	Effect of cold expansion and bolt clamping on fretting fatigue behavior of Al 2024-T3 in double shear lap joints. <i>Engineering Failure Analysis</i> , 2012, 25, 29-41.	4.0	24
25	Finite element investigations of bolt clamping force and friction coefficient effect on the fatigue behavior of aluminum alloy 2024-T3 in double shear lap joint. <i>Engineering Failure Analysis</i> , 2013, 29, 62-74.	4.0	24
26	Investigation the effect of tightening torque on the fatigue strength of double lap simple bolted and hybrid (bolted&bonded) joints using volumetric method. <i>Materials & Design</i> , 2014, 63, 349-359.	5.1	23
27	Effect of hole lubrication on the fretting fatigue life of double shear lap joints: An experimental and numerical study. <i>Engineering Failure Analysis</i> , 2009, 16, 2388-2399.	4.0	22
28	Analysis of cold expanded fastener holes subjected to short time creep: Finite element modelling and fatigue tests. <i>Materials & Design</i> , 2010, 31, 2858-2866.	5.1	22
29	Investigating the effect of cold expansion on frictional force evolution during fretting fatigue tests of AL2024-T3 plates. <i>International Journal of Mechanical Sciences</i> , 2018, 135, 146-157.	6.7	19
30	Numerical and experimental investigation of the effect of the cold expansion process on the fatigue behavior of hybrid (bonded-bolted) double shear lap aluminum joints. <i>International Journal of Fatigue</i> , 2019, 126, 30-43.	5.7	18
31	Effect of bolt clamping force on the fracture strength of mixed mode fracture in an edge crack with different sizes: Experimental and numerical investigations. <i>Materials & Design</i> , 2013, 45, 430-439.	5.1	16
32	The effect of interference-fit on fretting fatigue crack initiation and $\dot{\gamma}^K$ of a single pinned plate in 7075 Al-alloy. <i>Engineering Fracture Mechanics</i> , 2011, 78, 1233-1246.	4.3	15
33	Experimental and numerical investigation on the fretting fatigue behavior of cold expanded Al-alloy 2024-T3 plates. <i>Engineering Failure Analysis</i> , 2021, 123, 105324.	4.0	14
34	Numerical and experimental study of an interference fitted joint using a large deformation Chaboche type combined isotropic&kinematic hardening law and mortar contact method. <i>International Journal of Mechanical Sciences</i> , 2016, 106, 297-318.	6.7	13
35	Investigating bolt clamping force effect on the mixed mode fracture strength and stress intensity factor for an edge crack in PMMA specimens. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 533, 71-81.	5.6	12
36	On the prediction of fatigue life in double shear lap joints including interference fitted pin. <i>Engineering Fracture Mechanics</i> , 2012, 96, 340-354.	4.3	11

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37	On the estimation of fatigue life in bolt clamped Al-alloy 2024-T3 plates. <i>Engineering Fracture Mechanics</i> , 2016, 164, 74-92.	4.3	7
38	A new method for repairing aircraft structures containing aluminum alloy 2024-T3 using a combination of composite patch and bolt clamping. <i>Journal of Composite Materials</i> , 2018, 52, 4203-4218.	2.4	5
39	Investigating the effect of cold expansion process on the fatigue behavior of aluminum alloy 7075-T6 in double-lap shear joints. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 1645-1660.	1.1	2
40	Comparison between bolt clamping force and composite patches for repairing aircraft structures of aluminum alloy 2024-T3. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019, 233, 1758-1771.	1.3	2
41	Fatigue behavior of interference fitted Al-alloy 7075-T651 specimens subjected to bolt tightening. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 1879-1893.	1.1	1
42	Effect of different temperatures on the fatigue behavior of interference fitted plates of Al-alloy 7075-T6. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 1324-1335.	1.1	1