

# Tajbakhsh Navid Chakherlou

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2247590/publications.pdf>

Version: 2024-02-01

36  
papers

1,081  
citations

471509

17  
h-index

414414

32  
g-index

36  
all docs

36  
docs citations

36  
times ranked

421  
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 &amp; 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	Effects of aluminum surface treatments on the interfacial fracture toughness of carbon-fiber aluminum laminates. <i>Engineering Fracture Mechanics</i> , 2017, 172, 139-151.	4.3	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	Effect of cold expansion on the fatigue life of Al 2024-T3 in double shear lap joints: Experimental and numerical investigations. <i>Materials &amp; Design</i> , 2012, 33, 185-196.	5.1	35
10	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
11	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
12	An experimental investigation on the effect of short time exposure to elevated temperature on fatigue life of cold expanded fastener holes. <i>Materials &amp; Design</i> , 2008, 29, 1504-1511.	5.1	32
13	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
14	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 &amp; Design</i> , 2010, 31, 500-507.	5.1	27
15	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
16	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
17	Analysis of cold expanded fastener holes subjected to short time creep: Finite element modelling and fatigue tests. <i>Materials &amp; Design</i> , 2010, 31, 2858-2866.	5.1	22
18	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

#	ARTICLE	IF	CITATIONS
19	Prediction of fatigue life in cold expanded Al-alloy 2024-T3 plates used in double shear lap joints. Journal of Mechanical Science and Technology, 2013, 27, 1415-1425.	1.5	17
20	Effect of bolt clamping force on the fracture strength of mixed mode fracture in an edge crack with different sizes: Experimental and numerical investigations. Materials & Design, 2013, 45, 430-439.	5.1	16
21	Numerical and experimental study of an interference fitted joint using a large deformation Chaboche type combined isotropic-kinematic hardening law and mortar contact method. International Journal of Mechanical Sciences, 2016, 106, 297-318.	6.7	13
22	Investigating bolt clamping force effect on the mixed mode fracture strength and stress intensity factor for an edge crack in PMMA specimens. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 533, 71-81.	5.6	12
23	Investigation of the effect of bonded composite patch on the mixed-mode fracture strength and stress intensity factors for an edge crack in aluminum alloy 2024-T3 plates. Journal of Reinforced Plastics and Composites, 2017, 36, 1074-1091.	3.1	12
24	Experimental and finite element analysis on the performance of polyacetal/carbon black nanocomposite gears. Tribology International, 2021, 160, 107055.	5.9	12
25	On the prediction of fatigue life in double shear lap joints including interference fitted pin. Engineering Fracture Mechanics, 2012, 96, 340-354.	4.3	11
26	Fracture toughness and fractographic investigation of polybutylene terephthalate/thermoplastic polyurethane binary blends reinforced by multi-walled carbon nanotubes using essential work of fracture approach. Journal of Composite Materials, 2022, 56, 743-759.	2.4	7
27	Gear life and failure mode versus meshing stress in polyacetal/carbon black nanocomposite gears. Engineering Failure Analysis, 2022, 131, 105859.	4.0	6
28	A new method for repairing aircraft structures containing aluminum alloy 2024-T3 using a combination of composite patch and bolt clamping. Journal of Composite Materials, 2018, 52, 4203-4218.	2.4	5
29	Experimental and numerical analyses of mean stress relaxation in cold expanded plate of Al-alloy 2024-T3 in double shear lap joints. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 209-222.	3.4	5
30	Ratcheting assessment of offshore pipelines subjected to cyclic axial loading: experimental and numerical investigation. Ships and Offshore Structures, 2020, 15, 934-941.	1.9	4
31	Investigating the effect of cold expansion process on the fatigue behavior of aluminum alloy 7075-T6 in double-lap shear joints. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1645-1660.	1.1	2
32	Comparison between bolt clamping force and composite patches for repairing aircraft structures of aluminum alloy 2024-T3. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 1758-1771.	1.3	2
33	Fatigue behavior of interference fitted Al-alloy 7075-T651 specimens subjected to bolt tightening. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1879-1893.	1.1	1
34	Effect of different temperatures on the fatigue behavior of interference fitted plates of Al-alloy 7075-T6. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1324-1335.	1.1	1
35	Investigating the effects of loading system on the fracture behavior of DCB specimens considering $T$ -stress. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 2654-2665.	1.1	1
36	Fatigue analysis of 7075-T6 aluminum alloy under high compressive residual stresses by considering the non-propagating crack region. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072210923.	1.1	0