Tajbakhsh Navid Chakherlou

List of Publications by Year
in descending order

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	Gear life and failure mode versus meshing stress in polyacetal/carbon black nanocomposite gears. Engineering Failure Analysis, 2022, 131, 105859.	4.0	6
2	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
3	Experimental and finite element analysis on the performance of polyacetal/carbon black nanocomposite gears. Tribology International, 2021, 160, 107055.	5.9	12
4	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
5	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
6	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
7	Experimental and numerical analyses of mean stress relaxation in cold expanded plate of Alâ€alloy 2024â€T3 in double shear lap joints. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 209-222.	3.4	5
8	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. International Journal of Fatigue, 2019, 126, 30-43.	5.7	18
9	A fatigue crack initiation and growth life estimation method in single-bolted connections. Journal of Strain Analysis for Engineering Design, 2019, 54, 79-94.	1.8	26
10	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
11	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
12	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
13	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
14	Effects of aluminum surface treatments on the interfacial fracture toughness of carbon-fiber aluminum laminates. Engineering Fracture Mechanics, 2017, 172, 139-151.	4.3	49
15	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
16	Numerical and experimental study of an interference fitted joint using a large deformation Chaboche type combined isotropicâ€“kinematic hardening law and mortar contact method. International Journal of Mechanical Sciences, 2016, 106, 297-318.	6.7	13
17	Prediction of fatigue life in cold expanded fastener holes subjected to bolt tightening in Al alloy 7075-T6 plate. International Journal of Mechanical Sciences, 2015, 90, 6-15.	6.7	30
18	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

#	Article	IF	Citations
19	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. Engineering Failure Analysis, 2013, 29, 62-74.	4.0	24
20	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. International Journal of Mechanical Sciences, 2013, 72, 2-12.	6.7	33
21	Experimental and numerical comparison of cold expansion and interference fit methods in improving fatigue life of holed plate in double shear lap joints. Aerospace Science and Technology, 2013, 29, 351-362.	4.8	46
22	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
23	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
24	Effect of cold expansion on the fatigue life of Al 2024-T3 in double shear lap joints: Experimental and numerical investigations. Materials & Design, 2012, 33, 185-196.	5.1	35
25	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
26	Investigation of the fatigue life and crack growth in torque tightened bolted joints. Aerospace Science and Technology, 2011, 15, 304-313.	4.8	34
27	An experimental investigation of the bolt clamping force and friction effect on the fatigue behavior of aluminum alloy 2024-T3 double shear lap joint. Materials & Design, 2011, 32, 4641-4649.	5.1	73
28	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. Materials & Design, 2010, 31, 500-507.	5.1	27
29	Analysis of cold expanded fastener holes subjected to short time creep: Finite element modelling and fatigue tests. Materials & Design, 2010, 31, 2858-2866.	5.1	22
30	An investigation about interference fit effect on improving fatigue life of a holed single plate in joints. European Journal of Mechanics, A/Solids, 2010, 29, 675-682.	3.7	85
31	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. Engineering Failure Analysis, 2009, 16, 242-253.	4.0	87
32	Experimental and numerical investigations into the effect of an interference fit on the fatigue life of double shear lap joints. Engineering Failure Analysis, 2009, 16, 2066-2080.	4.0	72
33	An experimental investigation on the effect of short time exposure to elevated temperature on fatigue life of cold expanded fastener holes. Materials & Design, 2008, 29, 1504-1511.	5.1	32
34	Experimental and numerical investigation of the effect of clamping force on the fatigue behaviour of bolted plates. Engineering Failure Analysis, 2008, 15, 563-574.	4.0	104
35	The effect of cold expansion on improving the fatigue life of fastener holes. Engineering Failure Analysis, 2003, 10, 13-24.	4.0	157
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