

# Reza Talemi

## List of Publications by Year in descending order

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35  
papers

747  
citations

623699

14  
h-index

526264

27  
g-index

35  
all docs

35  
docs citations

35  
times ranked

395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of fretting fatigue crack initiation and propagation lifetime for cylindrical contact configuration. Tribology International, 2014, 76, 73-91.	5.9	130
2	Fretting fatigue crack initiation lifetime predictor tool: Using damage mechanics approach. Tribology International, 2013, 60, 176-186.	5.9	107
3	Prediction of fretting fatigue crack initiation in double lap bolted joint using Continuum Damage Mechanics. International Journal of Fatigue, 2015, 73, 66-76.	5.7	89
4	Investigations on the fretting fatigue failure mechanism of bolted joints in high strength steel subjected to different levels of pre-tension. Tribology International, 2017, 108, 128-140.	5.9	58
5	Numerical Estimation of Fretting Fatigue Lifetime Using Damage and Fracture Mechanics. Tribology Letters, 2013, 52, 11-25.	2.6	45
6	Effects of fretting wear process on fatigue crack propagation and life assessment. Tribology International, 2021, 156, 106787.	5.9	35
7	Techno-economic assessment of CO <sub>2</sub> quality effect on its storage and transport: CO <sub>2</sub> QUEST. International Journal of Greenhouse Gas Control, 2016, 54, 662-681.	4.6	25
8	Fretting fatigue failure mechanism of automotive shock absorber valve. International Journal of Fatigue, 2015, 73, 58-65.	5.7	20
9	A numerical study on effects of randomly distributed subsurface hydrogen pores on fretting fatigue behaviour of aluminium AlSi10Mg. Tribology International, 2020, 142, 105997.	5.9	20
10	On the use of digital image correlation for slip measurement during coupon scale fretting fatigue experiments. International Journal of Solids and Structures, 2014, 51, 3058-3066.	2.7	19
11	Fretting fatigue under variable amplitude loading considering partial and gross slip regimes: Numerical analysis. Tribology International, 2020, 146, 106199.	5.9	19
12	Numerical study on the influence of artificial internal stress relief groove on fretting fatigue in a shrink-fitted assembly. Tribology International, 2020, 151, 106443.	5.9	17
13	Hybrid fluid-structure interaction modelling of dynamic brittle fracture in steel pipelines transporting CO <sub>2</sub> streams. International Journal of Greenhouse Gas Control, 2016, 54, 702-715.	4.6	15
14	Assessment of fretting fatigue in high strength steel bolted connections with simplified Fe modelling techniques. Tribology International, 2020, 143, 106083.	5.9	15
15	Fretting fatigue total life assessment including wear and a varying critical distance. International Journal of Fatigue, 2022, 156, 106589.	5.7	15
16	A fully coupled fluid-structure interaction simulation of three-dimensional dynamic ductile fracture in a steel pipeline. Theoretical and Applied Fracture Mechanics, 2019, 101, 224-235.	4.7	14
17	Experimental and numerical study on effect of forming process on low-cycle fatigue behaviour of high-strength steel. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 2050-2067.	3.4	11
18	Study on the thermal cycle of Wire Arc Additive Manufactured (WAAM) carbon steel wall using numerical simulation. Frattura Ed Integrita Strutturale, 2020, 14, 98-104.	0.9	11

#	ARTICLE	IF	CITATIONS
19	Early crack orientation prediction methods under fretting fatigue loading including wear effects. International Journal of Fatigue, 2022, 161, 106893.	5.7	10
20	A machine learning based sensitivity analysis of the GTN damage parameters for dynamic fracture propagation in X70 pipeline steel. International Journal of Fracture, 2021, 227, 111-132.	2.2	9
21	Numerical measures of non-proportionality degree in incomplete contact subjected to fretting fatigue loading. Theoretical and Applied Fracture Mechanics, 2017, 90, 33-42.	4.7	8
22	Effect of bending process on the fatigue behaviour of high strength steel. Journal of Constructional Steel Research, 2021, 182, 106662.	3.9	8
23	Numerical simulation of dynamic brittle fracture of pipeline steel subjected to DWTT using XFEM-based cohesive segment technique. Frattura Ed Integrita Strutturale, 2016, 10, 151-159.	0.9	8
24	Assessment of Fracture Propagation in Pipelines Transporting Impure CO2 Streams. Energy Procedia, 2017, 114, 6685-6697.	1.8	7
25	Fatigue behaviour and lifetime prediction of cold-formed high strength steel. AIP Conference Proceedings, 2019, , .	0.4	7
26	Numerical modelling of dynamic ductile fracture propagation in different lab-scale experiments using GTN damage model. Frattura Ed Integrita Strutturale, 2020, 14, 105-112.	0.9	6
27	Assessment of brittle fractures in CO2 transportation pipelines: A hybrid fluid-structure interaction model. Procedia Structural Integrity, 2016, 2, 2439-2446.	0.8	5
28	An applied approach for estimating fretting fatigue lifetime of dovetail joints using coupon scale test data. Theoretical and Applied Fracture Mechanics, 2022, 121, 103455.	4.7	5
29	Experimental Model Validation and Fatigue Behaviour of Cold-Formed High Strength Steel. Proceedings (mdpi), 2018, 2, .	0.2	3
30	On effect of pre-bending process on low cycle fatigue behaviour of high strength steel using lock-in thermography. Procedia Structural Integrity, 2016, 2, 3135-3142.	0.8	2
31	The Influence of Post-Necking Strain Hardening Behaviour on Fatigue Lifetime Prediction of Cold-Formed High Strength Steel.. Procedia Manufacturing, 2020, 47, 1250-1256.	1.9	2
32	Development of Direct Quenched Hot Rolled Martensitic Strip Steels. Metals, 2017, 7, 326.	2.3	1
33	Influence of post-heat treatments on fatigue response of low-alloyed carbon-manganese steel material manufactured by Direct Energy Deposition-Arc technique. Materials Letters, 2021, 302, 130465.	2.6	1
34	Cleavage fracture assessment of cold charged steel slabs using experimental and numerical approaches. Procedia Structural Integrity, 2018, 13, 775-780.	0.8	0
35	Early crack orientation prediction methods under fretting fatigue loading. Procedia Structural Integrity, 2022, 39, 409-418.	0.8	0