

Simon Sedmak

List of Publications by Year in descending order

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48
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docs citations

48
times ranked

209
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite Element Modeling of Hip Implant Static Loading. Procedia Engineering, 2016, 149, 257-262.	1.2	48
2	Micromechanical assessment of mismatch effects on fracture of high-strength low alloyed steel welded joints. Engineering Fracture Mechanics, 2013, 109, 221-235.	4.3	29
3	Integrity assessment and determination of residual fatigue life of vital parts of bucket-wheel excavator operating under dynamic loads. Engineering Failure Analysis, 2019, 105, 182-195.	4.0	18
4	Effect of material heterogeneity and constraint conditions on ductile fracture resistance of welded joint zones - Micromechanical assessment. Engineering Failure Analysis, 2017, 82, 435-445.	4.0	17
5	Structural integrity and life assessment of rotating equipment. Engineering Failure Analysis, 2020, 113, 104561.	4.0	14
6	Numerical Simulation of Fatigue Crack Growth in Hip Implants. Procedia Engineering, 2016, 149, 229-235.	1.2	12
7	Influence of welded joint microstructures on fatigue behaviour of specimens with a notch in the heat affected zone. Engineering Failure Analysis, 2019, 106, 104162.	4.0	12
8	Stringer effect on fatigue crack propagation in A2024-T351 aluminum alloy welded joint. International Journal of Fatigue, 2017, 105, 276-282.	5.7	11
9	Engineering critical assessment of steel shell structure elements welded joints under high cycle fatigue. Engineering Failure Analysis, 2020, 114, 104578.	4.0	10
10	Experimental-Numerical Study of Tensile Strength of the High-Strength Steel S690QL at Elevated Temperatures. Strength of Materials, 2016, 48, 687-695.	0.5	8
11	Microstructure Changes of Nickel-Base Superalloys Induced by Interaction with Femtosecond Laser Beam. Acta Physica Polonica A, 2009, 116, 550-552.	0.5	8
12	Numerical simulation of crack propagation in high-strength low-alloyed welded steel. Procedia Structural Integrity, 2018, 13, 483-488.	0.8	7
13	The impact of the temperature and exploitation time on the tensile properties and plain strain fracture toughness, K _{Ic} in characteristic areas of welded joint. Frattura Ed Integrita Strutturale, 2018, 12, 371-382.	0.9	7
14	Fatigue crack growth in locking compression plates. International Journal of Fatigue, 2022, 157, 106727.	5.7	7
15	Creep crack growth properties of P91 and P22 welded joints. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1267-1275.	3.4	6
16	Determination of Residual Fatigue Life of Welded Structures at Bucket-Wheel Excavators through the Use of Fracture Mechanics. Procedia Structural Integrity, 2018, 13, 79-84.	0.8	6
17	Butt welded joints assessment after fire exposure. Engineering Failure Analysis, 2019, 106, 104144.	4.0	6
18	Risk based analysis of RHPP penstock structural integrity. Frattura Ed Integrita Strutturale, 2020, 14, 345-352.	0.9	6

#	ARTICLE	IF	CITATIONS
19	Extended FEM analysis of fatigue crack growth in Ti-6Al-4V orthopaedic plates. Procedia Structural Integrity, 2020, 28, 555-560.	0.8	6
20	Elastic-plastic behaviour of welded joints during loading and unloading of pressure vessels. Procedia Structural Integrity, 2016, 2, 3546-3553.	0.8	5
21	Structural integrity assurance of casing pipes in the oil and gas industry. , 2013, , .		5
22	Integrity and life estimation of turbine runner cover in a hydro power plant. Frattura Ed Integrita Strutturale, 2016, 10, 63-68.	0.9	5
23	Digital image correlation analysis of biomaterials. , 2011, , .		4
24	XFEM simulation of fatigue crack growth in a welded joint of a pressure vessel with a reinforcement ring. Archive of Applied Mechanics, 2019, 89, 919-926.	2.2	4
25	Experimental examination of fatigue life of welded joint with stress concentration. Frattura Ed Integrita Strutturale, 2016, 10, 27-35.	0.9	4
26	Repair Welding of Crane Wheels in Steelworks Smederevo. Advanced Materials Research, 0, 1138, 180-185.	0.3	3
27	Effect of temperature and exploitation time on tensile properties and plain strain fracture toughness, K _{IC} , in a welded joint. Procedia Structural Integrity, 2018, 9, 279-286.	0.8	3
28	Structural integrity of butt welded connection after fire exposure. Procedia Structural Integrity, 2018, 13, 1082-1087.	0.8	3
29	Creep crack growth behavior of P91 steel weldments. Thermal Science, 2019, 23, 1203-1209.	1.1	3
30	IoT based early warning system for torrential floods. FME Transactions, 2020, 48, 511-515.	1.4	3
31	Fatigue life assessment of orthopedic plates made of Ti6Al4V. Engineering Failure Analysis, 2022, 137, 106259.	4.0	3
32	Micromechanical Coupled Study of Crack Growth Initiation Criterion in Pressure Vessel Steel. Strength of Materials, 2004, 36, 33-36.	0.5	2
33	Analysis of fatigue behaviour of a bridge welded structure. Procedia Structural Integrity, 2022, 37, 269-273.	0.8	2
34	3D Experimental optical analysis of titanium alloys for biomedical applications. , 2011, , .		1
35	Numerical simulation of fatigue crack growth in AA6156 T6 panels. Procedia Structural Integrity, 2022, 39, 786-791.	0.8	1
36	Numerical simulation of fatigue crack paths in orthopedic plates. Procedia Structural Integrity, 2022, 39, 808-814.	0.8	1

#	ARTICLE	IF	CITATIONS
37	Calculation of Maximum Tensile and Shear Forces in Restorative Materials Using Finite Element Method. Key Engineering Materials, 0, 601, 151-154.	0.4	0
38	Stress Analysis of Hyperbaric Chambers of Different Geometries. Key Engineering Materials, 0, 601, 112-115.	0.4	0
39	Geotechnical aspects on seismic retrofit. Procedia Structural Integrity, 2018, 13, 410-414.	0.8	0
40	Crack growth resistance of weldment constituents. Procedia Structural Integrity, 2018, 13, 420-423.	0.8	0
41	Effects of welding technology on the occurrence of fracture in welded joints. Procedia Structural Integrity, 2018, 13, 1682-1688.	0.8	0
42	Influence of temperature and exploitation time on hardness and micro-structure of a welded joint in a reactor mantle. Procedia Structural Integrity, 2018, 13, 2249-2254.	0.8	0
43	Thermomechanics of soft inelastics bodies with application to asphalt behavior. Thermal Science, 2014, 18, 221-228.	1.1	0
44	Numerical simulation of tensile testing of PE 80 polymer specimens. Thermal Science, 2018, 22, 641-649.	1.1	0
45	An overview of application of micromechanical models in ductile fracture analysis of welded joints. Theoretical and Applied Mechanics, 2020, 47, 33-62.	0.3	0
46	Damage Occurrence in Welded Structures of the Bucket-Wheel Boom. , 0, 2, 41-48.		0