

Roberto Tovo

List of Publications by Year in descending order

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66
papers

2,550
citations

172457

29
h-index

189892

50
g-index

67
all docs

67
docs citations

67
times ranked

960
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue strength of aluminium welded joints by a non-local approach. International Journal of Fatigue, 2021, 143, 106000.	5.7	8
2	Overview of the geometrical influence on the fatigue strength of steel butt welds by a nonlocal approach. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 502-514.	3.4	5
3	Variability of the fatigue damage due to the randomness of a stationary vibration load. International Journal of Fatigue, 2020, 141, 105891.	5.7	12
4	Numerical predictions of the fatigue life of aluminium welded joints. Procedia Structural Integrity, 2020, 26, 46-52.	0.8	2
5	Variance of fatigue damage in stationary random loadings: comparison between time- and frequency-domain results. Procedia Structural Integrity, 2019, 24, 398-407.	0.8	7
6	Fatigue strength of S355JC steel under harmonic and random bending-torsion loading by a tri-axis shaker: Preliminary experimental results. MATEC Web of Conferences, 2019, 300, 17006.	0.2	1
7	Vibration fatigue tests by tri-axis shaker: design of an innovative system for uncoupled bending/torsion loading. Procedia Structural Integrity, 2018, 8, 92-101.	0.8	10
8	Implicit gradient approach for numerical analysis of laser welded joints. Procedia Structural Integrity, 2018, 8, 309-317.	0.8	1
9	An innovative system for uncoupled bending/torsion tests by tri-axis shaker: numerical simulations and experimental results. MATEC Web of Conferences, 2018, 165, 16006.	0.2	4
10	Analysis of the thickness effect in thin steel welded structures under uniaxial fatigue loading. International Journal of Fatigue, 2017, 101, 363-370.	5.7	11
11	Crack initiation and propagation paths in small diameter FSW 6082-T6 aluminium tubes under fatigue loading. Frattura Ed Integrita Strutturale, 2016, 10, 119-129.	0.9	2
12	Implicit gradient and integral average effective stresses: relationships and numerical approximations. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 190-199.	3.4	12
13	Effective stress assessment at rectangular rounded lateral notches. Frattura Ed Integrita Strutturale, 2015, 9, 183-190.	0.9	0
14	Bi-conditional probabilistic fatigue stress-based curve definition and comparison with other models. MATEC Web of Conferences, 2014, 12, 02003.	0.2	1
15	Geometrical size effect in high cycle fatigue strength of heavy-walled Ductile Cast Iron GJS400: Weakest link vs. defect-based approach. MATEC Web of Conferences, 2014, 12, 04022.	0.2	0
16	Geometrical Size Effect in High Cycle Fatigue Strength of Heavy-walled Ductile Cast Iron GJS400: Weakest Link vs Defect-based Approach. Procedia Engineering, 2014, 74, 101-104.	1.2	8
17	On the notch sensitivity of cast iron under multi-axial fatigue loading. Frattura Ed Integrita Strutturale, 2014, 8, 558-568.	0.9	3
18	Experimental investigation of the multiaxial fatigue strength of ductile cast iron. Theoretical and Applied Fracture Mechanics, 2014, 73, 60-67.	4.7	26

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19	Estimating the orientation of Stage I crack paths through the direction of maximum variance of the resolved shear stress. <i>International Journal of Fatigue</i> , 2014, 58, 94-101.	5.7	31
20	Multiaxial fatigue strength of severely notched cast iron specimens. <i>International Journal of Fatigue</i> , 2014, 67, 15-27.	5.7	41
21	Intrinsic material length, Theory of Critical Distances and Gradient Mechanics: analogies and differences in processing linear-elastic crack tip stress fields. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 39-55.	3.4	38
22	Analogies between spectral methods and multiaxial criteria in fatigue damage evaluation. <i>Probabilistic Engineering Mechanics</i> , 2013, 31, 39-45.	2.7	42
23	Mode I Stress Intensity Factors for triangular corner crack nearby intersecting of cylindrical holes. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 80-91.	0.9	3
24	On numerical integration for effective stress assessment at notches. <i>Frattura Ed Integrita Strutturale</i> , 2013, 7, 117-123.	0.9	1
25	The effect of throat underflushing on the fatigue strength of fillet weldments. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 884-892.	3.4	7
26	A numerical approach to fatigue assessment of spot weld joints. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2011, 34, 32-45.	3.4	24
27	Estimating fatigue damage under variable amplitude multiaxial fatigue loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2011, 34, 1053-1077.	3.4	56
28	Accuracy of the Modified Wöhler Curve Method applied along with the $r_{ref}=1mm$ concept in estimating lifetime of welded joints subjected to multiaxial fatigue loading. <i>International Journal of Fatigue</i> , 2011, 33, 1075-1091.	5.7	29
29	Numerical evaluation of fatigue strength on mechanical notched components under multiaxial loadings. <i>International Journal of Fatigue</i> , 2011, 33, 661-671.	5.7	15
30	A stress invariant based spectral method to estimate fatigue life under multiaxial random loading. <i>International Journal of Fatigue</i> , 2011, 33, 887-899.	5.7	65
31	On fatigue cycle distribution in non-stationary switching loadings with Markov chain structure. <i>Probabilistic Engineering Mechanics</i> , 2010, 25, 406-418.	2.7	25
32	An Integrated Data Acquisition System for on-Water Measurement of Performance in Rowing. <i>Strain</i> , 2010, 46, 493-509.	2.4	5
33	An invariant-based approach for high-cycle fatigue calculation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2009, 32, 310-324.	3.4	22
34	A novel engineering method based on the critical plane concept to estimate the lifetime of weldments subjected to variable amplitude multiaxial fatigue loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2009, 32, 441-459.	3.4	45
35	An application of the implicit gradient method to welded structures under multiaxial fatigue loadings. <i>International Journal of Fatigue</i> , 2009, 31, 12-19.	5.7	18
36	Special issue on Fatigue of Welded Connections. <i>International Journal of Fatigue</i> , 2009, 31, 1-1.	5.7	0

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37	The use of the JV parameter in welded joints: Stress analysis and fatigue assessment. International Journal of Fatigue, 2009, 31, 153-163.	5.7	29
38	An implicit gradient application to fatigue of complex structures. Engineering Fracture Mechanics, 2008, 75, 1804-1814.	4.3	38
39	A stress invariant based criterion to estimate fatigue damage under multiaxial loading. International Journal of Fatigue, 2008, 30, 1646-1658.	5.7	70
40	Fatigue damage assessment of a car body-in-white using a frequency-domain approach. International Journal of Materials and Product Technology, 2007, 30, 172.	0.2	20
41	Stress Intensity Factor for Cracks at the Toe of Welded Joints. Key Engineering Materials, 2007, 348-349, 257-260.	0.4	0
42	Local and Non-Local Approaches to Fatigue of Weldments: State of the Art and Possible Developments. Key Engineering Materials, 2007, 348-349, 529-532.	0.4	0
43	High-cycle fatigue crack paths in specimens having different stress concentration features. Engineering Failure Analysis, 2007, 14, 656-672.	4.0	37
44	On fatigue damage assessment in bimodal random processes. International Journal of Fatigue, 2007, 29, 232-244.	5.7	49
45	An implicit gradient application to fatigue of sharp notches and weldments. Engineering Fracture Mechanics, 2007, 74, 515-526.	4.3	54
46	Frequency-based fatigue analysis of non-stationary switching random loads. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 1016-1029.	3.4	29
47	Local and structural multiaxial stress states in welded joints under fatigue loading. International Journal of Fatigue, 2006, 28, 564-575.	5.7	38
48	Fatigue life assessment in non-Gaussian random loadings. International Journal of Fatigue, 2006, 28, 733-746.	5.7	57
49	An implicit gradient type of static failure criterion for mixed-mode loading. International Journal of Fracture, 2006, 141, 497-511.	2.2	40
50	Comparison of spectral methods for fatigue analysis of broad-band Gaussian random processes. Probabilistic Engineering Mechanics, 2006, 21, 287-299.	2.7	146
51	Cycle distribution and fatigue damage assessment in broad-band non-Gaussian random processes. Probabilistic Engineering Mechanics, 2005, 20, 115-127.	2.7	73
52	On the fatigue behaviour and design curves of friction stir butt-welded Al alloys. International Journal of Fatigue, 2005, 27, 305-316.	5.7	153
53	Spectral methods for lifetime prediction under wide-band stationary random processes. International Journal of Fatigue, 2005, 27, 867-877.	5.7	272
54	The mean stress effect on the high-cycle fatigue strength from a multiaxial fatigue point of view. International Journal of Fatigue, 2005, 27, 928-943.	5.7	134

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55	On the use of nominal stresses to predict the fatigue strength of welded joints under biaxial cyclic loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 1005-1024.	3.4	36
56	Fatigue limit evaluation of notches, small cracks and defects: an engineering approach. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 1037-1049.	3.4	34
57	Cycle distribution and fatigue damage under broad-band random loading. <i>International Journal of Fatigue</i> , 2002, 24, 1137-1147.	5.7	150
58	Developments of some explicit formulas useful to describe elastic stress fields ahead of notches in plates. <i>International Journal of Solids and Structures</i> , 2002, 39, 4543-4565.	2.7	286
59	On the fatigue reliability evaluation of structural components under service loading. <i>International Journal of Fatigue</i> , 2001, 23, 587-598.	5.7	49
60	A damage-based evaluation of probability density distribution for rain-flow ranges from random processes. <i>International Journal of Fatigue</i> , 2000, 22, 425-429.	5.7	34
61	Relationships between local and structural stress in the evaluation of the weld toe stress distribution. <i>International Journal of Fatigue</i> , 1999, 21, 1063-1078.	5.7	48
62	From a local stress approach to fracture mechanics: a comprehensive evaluation of the fatigue strength of welded joints. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1999, 22, 369-381.	3.4	88
63	Experimental and Numerical Evaluation of Mechanical Stiffness of an SMC Bumper. <i>Key Engineering Materials</i> , 1997, 144, 135-144.	0.4	0
64	The positive ion injector for ALPI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 382, 245-251.	1.6	2
65	Defects vs. Small Notches Competition in Fatigue Failure Initiation of Cast Steel. <i>Key Engineering Materials</i> , 0, 417-418, 529-532.	0.4	0
66	Fatigue Behaviour of Al 6082-T6 Friction Stir Welded Tubular Joints under Torsional Loading. <i>Key Engineering Materials</i> , 0, 627, 193-196.	0.4	1