

Alberto Campagnolo

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101
papers

1,711
citations

27
h-index

38
g-index

106
ext. papers

1,941
ext. citations

2.3
avg, IF

5.58
L-index

#	Paper	IF	Citations
101	Fatigue strength of severely notched specimens made of TiBAlV under multiaxial loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015 , 38, 503-517	3	129
100	A comparison among some recent energy- and stress-based criteria for the fracture assessment of sharp V-notched components under Mode I loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2014 , 71, 21-30	3.7	83
99	Coupled fracture mode of a cracked plate under anti-plane loading. <i>Engineering Fracture Mechanics</i> , 2015 , 134, 391-403	4.2	81
98	Coupled fracture mode of a cracked disc under anti-plane loading. <i>Engineering Fracture Mechanics</i> , 2014 , 128, 22-36	4.2	76
97	Local strain energy density to predict mode II brittle fracture in Brazilian disk specimens weakened by V-notches with end holes. <i>Materials & Design</i> , 2015 , 69, 22-29		65
96	Coupled fracture modes of discs and plates under anti-plane loading and a disc under in-plane shear loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016 , 39, 924-938	3	60
95	State of the art of corner point singularities under in-plane and out-of-plane loading. <i>Engineering Fracture Mechanics</i> , 2017 , 174, 2-9	4.2	49
94	Fatigue assessment of notched specimens by means of a critical plane-based criterion and energy concepts. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 84, 57-63	3.7	46
93	Fatigue strength assessment of partial and full-penetration steel and aluminium butt-welded joints according to the peak stress method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015 , 38, 1419-1431	3	38
92	Elastic-plastic fracture analysis of notched Al 7075-T6 plates by means of the local energy combined with the equivalent material concept. <i>Physical Mesomechanics</i> , 2016 , 19, 204-214	1.6	37
91	Review of local strain energy density theory for the fracture assessment of V-notches under mixed mode loading. <i>Engineering Solid Mechanics</i> , 2017 , 113-132	1.3	36
90	Fracture assessment of sharp V-notched components under Mode II loading: a comparison among some recent criteria. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 85, 217-226	3.7	36
89	Rapid finite element evaluation of the averaged strain energy density of mixed-mode (I + II) crack tip fields including the T-stress contribution. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016 , 39, 982-998	3	35
88	Brittle Failure of Graphite Weakened by V-Notches: A Review of Some Recent Results Under Different Loading Modes. <i>Strength of Materials</i> , 2015 , 47, 488-506	0.6	34
87	Averaged strain energy density evaluated rapidly from the singular peak stresses by FEM: cracked components under mixed-mode (I+II) loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2015 , 79, 113-124	3.7	34
86	A synthesis of Polymethylmethacrylate data from U-notched specimens and V-notches with end holes by means of local energy. <i>Materials & Design</i> , 2013 , 49, 826-833		34
85	Fatigue strength of steel rollers with failure occurring at the weld root based on the local strain energy values: modelling and fatigue assessment. <i>International Journal of Fatigue</i> , 2016 , 82, 643-657	5	33

84	Brittle Fracture of Rounded V-Notches in Isostatic Graphite under Static Multiaxial Loading. <i>Physical Mesomechanics</i> , 2015 , 18, 283-297	1.6	33
83	Corner point singularities under in-plane and out-of-plane loading: a review of recent results. <i>Engineering Solid Mechanics</i> , 2017 , 167-176	1.3	33
82	Crack initiation life in notched steel bars under torsional fatigue: Synthesis based on the averaged strain energy density approach. <i>International Journal of Fatigue</i> , 2017 , 100, 563-574	5	31
81	Mixed mode I/II crack initiation from U-notches in Al 7075-T6 thin plates by large-scale yielding regime. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 86, 284-291	3.7	31
80	Cyclic plasticity in three-dimensional notched components under in-phase multiaxial loading at R = $\bar{\sigma}$. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 81, 76-88	3.7	30
79	Rapid evaluation of notch stress intensity factors using the peak stress method: Comparison of commercial finite element codes for a range of mesh patterns. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018 , 41, 1044-1063	3	29
78	Notched Ti-6Al-4V titanium bars under multiaxial fatigue: Synthesis of crack initiation life based on the averaged strain energy density. <i>Theoretical and Applied Fracture Mechanics</i> , 2018 , 96, 509-533	3.7	29
77	Multiaxial fatigue strength assessment of welded joints using the Peak Stress Method [Part I: Approach and application to aluminium joints. <i>International Journal of Fatigue</i> , 2017 , 101, 328-342	5	28
76	Tensile fracture analysis of V-notches with end holes by means of the local energy. <i>Physical Mesomechanics</i> , 2015 , 18, 194-202	1.6	28
75	The effects of different boundary conditions on three-dimensional cracked discs under anti-plane loading. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 50, 76-86	3.7	27
74	Averaged strain energy density criterion to predict ductile failure of U-notched Al 6061-T6 plates under mixed mode loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2017 , 91, 86-93	3.7	26
73	Multiaxial fatigue strength assessment of welded joints using the Peak Stress Method [Part II: Application to structural steel joints. <i>International Journal of Fatigue</i> , 2017 , 101, 343-362	5	26
72	Three-dimensional effects at the tip of rounded notches subjected to mode-I loading under cyclic plasticity. <i>Journal of Strain Analysis for Engineering Design</i> , 2015 , 50, 299-313	1.3	26
71	Experimental and theoretical investigation of brittle fracture in key-hole notches under mixed mode I/II loading. <i>Acta Mechanica</i> , 2015 , 226, 2313-2322	2.1	26
70	State-of-the-art review of peak stress method for fatigue strength assessment of welded joints. <i>International Journal of Fatigue</i> , 2020 , 139, 105705	5	24
69	Some recent criteria for brittle fracture assessment under mode II loading. <i>Engineering Solid Mechanics</i> , 2017 , 31-38	1.3	22
68	Fracture tests under mixed mode I + III loading: An assessment based on the local energy. <i>International Journal of Damage Mechanics</i> , 2017 , 26, 881-894	3	20
67	Mode II Brittle Fracture Assessment of Key-Hole Notches by Means of the Local Energy. <i>Journal of Testing and Evaluation</i> , 2016 , 44, 20140295	1	18

66	Fatigue limit: Crack and notch sensitivity by Finite Fracture Mechanics. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 105, 102407	3.7	17
65	Rapid estimation of notch stress intensity factors in 3D large-scale welded structures using the peak stress method. <i>MATEC Web of Conferences</i> , 2018 , 165, 17004	0.3	17
64	Calibration of the potential drop method by means of electric FE analyses and experimental validation for a range of crack shapes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018 , 41, 2272-2287	3	15
63	A successful combination of the equivalent material concept and the averaged strain energy density criterion for predicting crack initiation from blunt V-notches in ductile aluminum plates under mixed mode loading. <i>Physical Mesomechanics</i> , 2016 , 19, 382-391	1.6	15
62	Assessment of root failures in tube-to-flange steel welded joints under torsional loading according to the Peak Stress Method. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 83, 19-30	3.7	15
61	Multiaxial fatigue assessment of welded steel details according to the peak stress method: Industrial case studies. <i>International Journal of Fatigue</i> , 2019 , 125, 362-380	5	14
60	Averaged strain energy density estimated rapidly from the singular peak stresses by FEM: Cracked bars under mixed-mode (I + III) loading. <i>Engineering Fracture Mechanics</i> , 2016 , 167, 20-33	4.2	14
59	Analysis of crack geometry and location in notched bars by means of a three-probe potential drop technique. <i>International Journal of Fatigue</i> , 2019 , 124, 167-187	5	12
58	Tensile fracture analysis of blunt notched PMMA specimens by means of the Strain Energy Density. <i>Engineering Solid Mechanics</i> , 2015 , 3, 35-42	1.3	12
57	The Peak Stress Method combined with 3D finite element models to assess the fatigue strength of complex welded structures. <i>Procedia Structural Integrity</i> , 2019 , 19, 617-626	1	12
56	Large-Scale Yielding Failure Prediction of Notched Ductile Plates by Means of the Linear Elastic Notch Fracture Mechanics. <i>Strength of Materials</i> , 2017 , 49, 224-233	0.6	11
55	Multiaxial fatigue assessment of tube-tube steel joints with weld ends using the peak stress method. <i>International Journal of Fatigue</i> , 2020 , 135, 105495	5	10
54	Averaged strain energy density estimated rapidly from nodal displacements by coarse FE analyses: Cracks under mixed mode loadings. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 1658-1685	3	10
53	A review of the fatigue strength of structural materials under multiaxial loading in terms of the local energy density. <i>Engineering Solid Mechanics</i> , 2017 , 245-270	1.3	9
52	Assessment of tensile fatigue limit of notches using sharp and coarse linear elastic finite element models. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 84, 106-118	3.7	8
51	Three-dimensional effects on cracked components under anti-plane loading. <i>Frattura Ed Integrita Strutturale</i> , 2015 , 9, 17-24	0.9	8
50	Local strain energy density to assess the multiaxial fatigue strength of titanium alloys. <i>Frattura Ed Integrita Strutturale</i> , 2016 , 10, 69-79	0.9	8
49	Tensile Fracture Analysis of Key-Hole Notches by Means of the Strain Energy Density. <i>Strength of Materials</i> , 2016 , 48, 259-269	0.6	7

48	The Peak Stress Method to assess the fatigue strength of welded joints using linear elastic finite element analyses. <i>Procedia Engineering</i> , 2018 , 213, 392-402		7
47	V-notches subjected to combined tension and torsion loadings: the application of the fictitious notch rounding concept. <i>Engineering Fracture Mechanics</i> , 2015 , 148, 82-96	4.2	5
46	Static Strength of V-Notches With End Holes Under Combined Tension-Shear Loading: Experimental Measurement by the Disk Test and Theoretical Prediction by the Local Energy. <i>Journal of Testing and Evaluation</i> , 2017 , 45, 20140496	1	5
45	Averaged strain energy density-based synthesis of crack initiation life in notched steel bars under torsional fatigue. <i>Frattura Ed Integrita Strutturale</i> , 2016 , 10, 215-223	0.9	5
44	Mode II brittle fracture: recent developments. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 181-188	0.9	5
43	Multiaxial fatigue assessment of welded steel details according to the peak stress method based on tetra elements. <i>MATEC Web of Conferences</i> , 2019 , 300, 19002	0.3	5
42	Residual Notch Stress Intensity Factors in Welded Joints Evaluated by 3D Numerical Simulations of Arc Welding Processes. <i>Materials</i> , 2021 , 14,	3.5	5
41	Some analytical remarks on the influence of phase angle on stress fields ahead of sharp V-notches under tension and torsion loads. <i>Theoretical and Applied Fracture Mechanics</i> , 2014 , 74, 64-72	3.7	4
40	Multiaxial fatigue strength of severely notched titanium grade 5 alloy. <i>Frattura Ed Integrita Strutturale</i> , 2015 , 9, 229-237	0.9	4
39	NSIFs estimation based on the averaged strain energy density under in-plane mixed mode loading. <i>Procedia Structural Integrity</i> , 2016 , 2, 1829-1836	1	4
38	Some recent criteria for brittle fracture prediction under in-plane shear loading. <i>Procedia Structural Integrity</i> , 2017 , 3, 110-118	1	3
37	Automated fatigue strength assessment of arc-welded structures according to the Peak Stress Method. <i>Procedia Structural Integrity</i> , 2020 , 28, 1062-1083	1	3
36	Three-dimensional effects on cracked discs and plates under nominal Mode III loading. <i>Frattura Ed Integrita Strutturale</i> , 2015 , 9,	0.9	3
35	Crack initiation life in notched Ti-6Al-4V titanium bars under uniaxial and multiaxial fatigue: synthesis based on the averaged strain energy density approach. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 8-15	0.9	3
34	Multiaxial fatigue strength of titanium alloys. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 79-89	0.9	3
33	Numerical calibration of the direct current potential drop (DCPD) method in fracture mechanics fatigue tests. <i>Procedia Structural Integrity</i> , 2020 , 28, 1536-1550	1	3
32	Fatigue properties of austempered ductile iron-to-steel dissimilar arc-welded joints. <i>Procedia Structural Integrity</i> , 2019 , 24, 190-203	1	3
31	Effect of Salt Bath Nitrocarburizing and Post-Oxidation on Static and Fatigue Behaviours of a Construction Steel. <i>Metals</i> , 2019 , 9, 1306	2.3	3

30	Pure molybdenum manufactured by Laser Powder Bed Fusion: Thermal and mechanical characterization at room and high temperature. <i>Additive Manufacturing</i> , 2021 , 47, 102277	6.1	3
29	Analysis and Comparison of Some LEFM Parameters. <i>Procedia Structural Integrity</i> , 2019 , 18, 413-421	1	2
28	Fatigue crack onset by Finite Fracture Mechanics. <i>Procedia Structural Integrity</i> , 2019 , 18, 501-506	1	2
27	Experimental tests and fatigue strength assessment of a scotch yoke valve actuator. <i>Procedia Engineering</i> , 2018 , 213, 58-68		2
26	Three-dimensional cracked discs under anti-plane loading and effects of the boundary conditions. <i>International Journal of Structural Integrity</i> , 2015 , 6, 541-564	1	2
25	Rapid evaluation of notch stress intensity factors using the peak stress method with 3D tetrahedral finite element models: Comparison of commercial codes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> ,	3	2
24	Averaged strain energy density estimated rapidly from the nodal stresses by FEM for cracks under mixed mode loadings including the T-stress contribution. <i>Frattura Ed Integrita Strutturale</i> , 2019 , 13, 53-64	0.9	2
23	Mode I fatigue limit of notched structures: A deeper insight into Finite Fracture Mechanics. <i>International Journal of Fracture</i> , 2021 , 227, 1-13	2.3	2
22	Fatigue strength of austempered ductile iron-to-steel dissimilar arc-welded joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021 , 65, 667-689	1.9	2
21	Numerical calibration and experimental validation of the direct current potential drop (DCPD) method for fracture mechanics fatigue testing of single-edge-crack round bars. <i>International Journal of Fatigue</i> , 2021 , 150, 106316	5	2
20	Coupled fracture modes under anti-plane loading. <i>Frattura Ed Integrita Strutturale</i> , 2016 , 10, 108-113	0.9	1
19	Fatigue strength assessment of as-welded and HFMI treated welded joints according to structural and local approaches. <i>International Journal of Fatigue</i> , 2022 , 155, 106584	5	1
18	Mode II loading in sharp V-notched components: a comparison among some recent criteria for brittle fracture assessment. <i>Procedia Structural Integrity</i> , 2016 , 2, 1845-1852	1	1
17	Synthesis of crack initiation life in steel notched specimens under torsional fatigue based on the averaged strain energy density. <i>Procedia Structural Integrity</i> , 2016 , 2, 1853-1860	1	1
16	Fracture assessment of graphite components weakened by rounded V-notches and subjected to static multiaxial loading. <i>Procedia Structural Integrity</i> , 2016 , 2, 1805-1812	1	1
15	The peak stress method applied to the fatigue assessment of tube-tube steel joints with weld ends under multiaxial loadings. <i>MATEC Web of Conferences</i> , 2019 , 300, 19001	0.3	1
14	Uniform scatter bands to analyse the fatigue strength of welded joints. <i>Procedia Structural Integrity</i> , 2019 , 24, 66-79	1	1
13	The Peak Stress Method Applied to Bi-Material Corners. <i>Procedia Structural Integrity</i> , 2018 , 13, 1560-1565		1

12	Implementation of the Peak Stress Method for the automated FEM-assisted design of welded joints subjected to constant amplitude multiaxial fatigue loads. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022 , 1214, 012022	0.4	0
11	Fatigue of Welded Components 2022 ,		0
10	Automated implementation of the Peak Stress Method for the fatigue assessment of complex welded structures. <i>Forces in Mechanics</i> , 2022 , 6, 100072	1.5	0
9	A FFM analysis on mode III static and fatigue crack initiation from sharp V-notches. <i>Engineering Fracture Mechanics</i> , 2021 , 258, 108063	4.2	0
8	Strain-Controlled Fatigue Behavior of a Nodular Cast Iron in Real Off-Highway Axles: Effects of Casting Skin and Strain Ratio. <i>Metals</i> , 2022 , 12, 426	2.3	0
7	Austempered ductile iron-to-steel dissimilar arc-welded joints: fatigue strength assessment according to local approaches. <i>Procedia Structural Integrity</i> , 2020 , 28, 1481-1502	1	
6	Critical distances approach reformulated for a better comparison of fatigue strength of materials with sharp notches. <i>Material Design and Processing Communications</i> , 2020 , 2, e131	0.9	
5	Coupled fracture mode of a cracked disc under anti-plane loading. <i>MATEC Web of Conferences</i> , 2014 , 12, 04014	0.3	
4	Polymethylmethacrylate Data from U-Notched Specimens and V-Notches with End Holes: A Synthesis by Means of Local Energy. <i>Key Engineering Materials</i> , 2014 , 627, 73-76	0.4	
3	Mode I fatigue limit of V- and U-notches. <i>Procedia Structural Integrity</i> , 2020 , 28, 446-451	1	
2	Modelling and fatigue assessment of steel rollers with failure occurring at the weld root based on the local strain energy. <i>Procedia Structural Integrity</i> , 2016 , 2, 3475-3482	1	
1	The Peak Stress Method applied to fatigue lifetime estimation of welded steel joints under variable amplitude multiaxial local stresses. <i>Procedia Structural Integrity</i> , 2022 , 38, 418-427	1	