

# Alberto Campagnolo

## List of Publications by Year in descending order

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106  
papers

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159573

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106  
docs citations

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times ranked

753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue strength of severely notched specimens made of Ti-6Al-4V under multiaxial loading. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 503-517.	3.4	161
2	A comparison among some recent energy- and stress-based criteria for the fracture assessment of sharp V-notched components under Mode I loading. Theoretical and Applied Fracture Mechanics, 2014, 71, 21-30.	4.7	102
3	Coupled fracture mode of a cracked plate under anti-plane loading. Engineering Fracture Mechanics, 2015, 134, 391-403.	4.3	90
4	Coupled fracture mode of a cracked disc under anti-plane loading. Engineering Fracture Mechanics, 2014, 128, 22-36.	4.3	88
5	Local strain energy density to predict mode II brittle fracture in Brazilian disk specimens weakened by V-notches with end holes. Materials & Design, 2015, 69, 22-29.	5.1	73
6	Coupled fracture modes of discs and plates under anti-plane loading and a disc under in-plane shear loading. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 924-938.	3.4	67
7	State of the art of corner point singularities under in-plane and out-of-plane loading. Engineering Fracture Mechanics, 2017, 174, 2-9.	4.3	61
8	Fatigue assessment of notched specimens by means of a critical plane-based criterion and energy concepts. Theoretical and Applied Fracture Mechanics, 2016, 84, 57-63.	4.7	53
9	Fatigue strength assessment of partial and full-penetration steel and aluminium butt-welded joints according to the peak stress method. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1419-1431.	3.4	50
10	Fracture assessment of sharp V-notched components under Mode II loading: a comparison among some recent criteria. Theoretical and Applied Fracture Mechanics, 2016, 85, 217-226.	4.7	46
11	Fatigue strength of steel rollers with failure occurring at the weld root based on the local strain energy values: modelling and fatigue assessment. International Journal of Fatigue, 2016, 82, 643-657.	5.7	43
12	Elastic-plastic fracture analysis of notched Al 7075-T6 plates by means of the local energy combined with the equivalent material concept. Physical Mesomechanics, 2016, 19, 204-214.	1.9	41
13	Rapid finite element evaluation of the averaged strain energy density of mixed-mode (I+II) crack tip fields including the T-stress contribution. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 982-998.	3.4	41
14	Rapid evaluation of notch stress intensity factors using the peak stress method: Comparison of commercial finite element codes for a range of mesh patterns. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1044-1063.	3.4	41
15	State-of-the-art review of peak stress method for fatigue strength assessment of welded joints. International Journal of Fatigue, 2020, 139, 105705.	5.7	41
16	Review of local strain energy density theory for the fracture assessment of V-notches under mixed mode loading. Engineering Solid Mechanics, 2017, , 113-132.	1.2	40
17	Averaged strain energy density evaluated rapidly from the singular peak stresses by FEM: cracked components under mixed-mode (I+II) loading. Theoretical and Applied Fracture Mechanics, 2015, 79, 113-124.	4.7	39
18	Brittle Fracture of Rounded V-Notches in Isostatic Graphite under Static Multiaxial Loading. Physical Mesomechanics, 2015, 18, 283-297.	1.9	38

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19	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.	5.7	38
20	Corner point singularities under in-plane and out-of-plane loading: a review of recent results. <i>Engineering Solid Mechanics</i> , 2017, , 167-176.	1.2	38
21	A synthesis of Polymethylmethacrylate data from U-notched specimens and V-notches with end holes by means of local energy. <i>Materials &amp; Design</i> , 2013, 49, 826-833.	5.1	37
22	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.	0.5	36
23	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.	5.7	36
24	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.	5.7	36
25	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.	4.7	34
26	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.	4.7	34
27	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	32
28	Cyclic plasticity in three-dimensional notched components under in-phase multiaxial loading at $R = \hat{\sigma}^1$ . <i>Theoretical and Applied Fracture Mechanics</i> , 2016, 81, 76-88.	4.7	32
29	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	31
30	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.	4.7	31
31	Tensile fracture analysis of V-notches with end holes by means of the local energy. <i>Physical Mesomechanics</i> , 2015, 18, 194-202.	1.9	30
32	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.	1.8	27
33	Fatigue limit: Crack and notch sensitivity by Finite Fracture Mechanics. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 105, 102407.	4.7	26
34	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.	4.2	25
35	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.	0.2	24
36	Some recent criteria for brittle fracture assessment under mode II loading. <i>Engineering Solid Mechanics</i> , 2017, , 31-38.	1.2	24

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37	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.	0.8	23
38	Mode II Brittle Fracture Assessment of Key-Hole Notches by Means of the Local Energy. <i>Journal of Testing and Evaluation</i> , 2016, 44, 1261-1270.	0.7	23
39	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.	4.7	21
40	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.	3.4	20
41	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.	5.7	19
42	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.	1.9	17
43	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.	4.3	17
44	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.	5.7	17
45	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> , 2022, 45, 1005-1034.	3.4	16
46	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.	5.7	14
47	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.	3.4	13
48	Tensile fracture analysis of blunt notched PMMA specimens by means of the Strain Energy Density. <i>Engineering Solid Mechanics</i> , 2015, 3, 35-42.	1.2	12
49	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.	0.5	12
50	Three-dimensional effects on cracked components under anti-plane loading. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 17-24.	0.9	11
51	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.	4.7	10
52	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.	2.5	10
53	Residual Notch Stress Intensity Factors in Welded Joints Evaluated by 3D Numerical Simulations of Arc Welding Processes. <i>Materials</i> , 2021, 14, 812.	2.9	10
54	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	10

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55	Automated fatigue strength assessment of arc-welded structures according to the Peak Stress Method. <i>Procedia Structural Integrity</i> , 2020, 28, 1062-1083.	0.8	10
56	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.	1.2	9
57	Multiaxial variable amplitude fatigue strength assessment of steel welded joints using the peak stress method. <i>International Journal of Fatigue</i> , 2022, 163, 107089.	5.7	9
58	Tensile Fracture Analysis of Key-Hole Notches by Means of the Strain Energy Density. <i>Strength of Materials</i> , 2016, 48, 259-269.	0.5	8
59	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.	1.2	8
60	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	8
61	Mode I fatigue limit of notched structures: A deeper insight into Finite Fracture Mechanics. <i>International Journal of Fracture</i> , 2021, 227, 1-13.	2.2	8
62	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.	5.7	7
63	Numerical calibration of the direct current potential drop (DCPD) method in fracture mechanics fatigue tests. <i>Procedia Structural Integrity</i> , 2020, 28, 1536-1550.	0.8	7
64	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	7
65	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.	4.3	6
66	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.	0.7	6
67	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	6
68	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.	4.7	5
69	NSIFs estimation based on the averaged strain energy density under in-plane mixed mode loading. <i>Procedia Structural Integrity</i> , 2016, 2, 1829-1836.	0.8	5
70	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.	0.2	5
71	Pure molybdenum manufactured by Laser Powder Bed Fusion: Thermal and mechanical characterization at room and high temperature. <i>Additive Manufacturing</i> , 2021, 47, 102277.	3.0	5
72	Three-dimensional effects on cracked discs and plates under nominal Mode III loading. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, .	0.9	5

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73	Mode II brittle fracture: recent developments. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 181-188.	0.9	5
74	Automated implementation of the Peak Stress Method for the fatigue assessment of complex welded structures. <i>Forces in Mechanics</i> , 2022, 6, 100072.	2.8	5
75	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	5
76	Ti6Al4V titanium alloy fatigue strength after AM- and machining-based process chains. <i>CIRP Annals - Manufacturing Technology</i> , 2022, 71, 461-464.	3.6	5
77	Fatigue properties of austempered ductile iron-to-steel dissimilar arc-welded joints. <i>Procedia Structural Integrity</i> , 2019, 24, 190-203.	0.8	4
78	Multiaxial fatigue strength of severely notched titanium grade 5 alloy. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 229-237.	0.9	4
79	Multiaxial fatigue strength of titanium alloys. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 79-89.	0.9	4
80	A FFM analysis on mode III static and fatigue crack initiation from sharp V-notches. <i>Engineering Fracture Mechanics</i> , 2021, 258, 108063.	4.3	4
81	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.	0.8	3
82	Some recent criteria for brittle fracture prediction under in-plane shear loading. <i>Procedia Structural Integrity</i> , 2017, 3, 110-118.	0.8	3
83	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	3
84	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.	5.7	3
85	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.	3.3	2
86	Experimental tests and fatigue strength assessment of a scotch yoke valve actuator. <i>Procedia Engineering</i> , 2018, 213, 58-68.	1.2	2
87	Analysis and Comparison of Some LFM Parameters. <i>Procedia Structural Integrity</i> , 2019, 18, 413-421.	0.8	2
88	Fatigue crack onset by Finite Fracture Mechanics. <i>Procedia Structural Integrity</i> , 2019, 18, 501-506.	0.8	2
89	Coupled fracture mode of a cracked disc under anti-plane loading. <i>MATEC Web of Conferences</i> , 2014, 12, 04014.	0.2	1
90	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.	0.8	1

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91	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.	0.8	1
92	The Peak Stress Method Applied to Bi-Material Corners. <i>Procedia Structural Integrity</i> , 2018, 13, 1560-1565.	0.8	1
93	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.	0.2	1
94	Uniform scatter bands to analyse the fatigue strength of welded joints. <i>Procedia Structural Integrity</i> , 2019, 24, 66-79.	0.8	1
95	Coupled fracture modes under anti-plane loading. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 108-113.	0.9	1
96	Some relationships between the peak stresses and the local strain energy density for cracks subjected to mixed-mode (I+II) loading. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 33-41.	0.9	1
97	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.	0.6	1
98	Fatigue of Welded Components. , 2022, , .		1
99	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.	0.8	1
100	Polymethylmethacrylate Data from U-Notched Specimens and V-Notches with End Holes: A Synthesis by Means of Local Energy. <i>Key Engineering Materials</i> , 0, 627, 73-76.	0.4	0
101	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.	0.8	0
102	Special Issue on Fracture and Fatigue Assessments of Structural Components. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6327.	2.5	0
103	Mode I fatigue limit of V- and U-notches. <i>Procedia Structural Integrity</i> , 2020, 28, 446-451.	0.8	0
104	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.	0.8	0
105	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	0
106	A link between the peak stresses and the averaged strain energy density for cracks under mixed-mode (I+II) loading. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, .	0.9	0