

# Alberto Campagnolo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , <b>2022</b> , 1214, 012022	0.4	0
100	Fatigue of Welded Components <b>2022</b> ,		0
99	Automated implementation of the Peak Stress Method for the fatigue assessment of complex welded structures. <i>Forces in Mechanics</i> , <b>2022</b> , 6, 100072	1.5	0
98	Fatigue strength assessment of as-welded and HFMI treated welded joints according to structural and local approaches. <i>International Journal of Fatigue</i> , <b>2022</b> , 155, 106584	5	1
97	The Peak Stress Method applied to fatigue lifetime estimation of welded steel joints under variable amplitude multiaxial local stresses. <i>Procedia Structural Integrity</i> , <b>2022</b> , 38, 418-427	1	
96	Strain-Controlled Fatigue Behavior of a Nodular Cast Iron in Real Off-Highway Axles: Effects of Casting Skin and Strain Ratio. <i>Metals</i> , <b>2022</b> , 12, 426	2.3	0
95	A FFM analysis on mode III static and fatigue crack initiation from sharp V-notches. <i>Engineering Fracture Mechanics</i> , <b>2021</b> , 258, 108063	4.2	0
94	Mode I fatigue limit of notched structures: A deeper insight into Finite Fracture Mechanics. <i>International Journal of Fracture</i> , <b>2021</b> , 227, 1-13	2.3	2
93	Fatigue strength of austempered ductile iron-to-steel dissimilar arc-welded joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2021</b> , 65, 667-689	1.9	2
92	Residual Notch Stress Intensity Factors in Welded Joints Evaluated by 3D Numerical Simulations of Arc Welding Processes. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
91	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> , <b>2021</b> , 150, 106316	5	2
90	Pure molybdenum manufactured by Laser Powder Bed Fusion: Thermal and mechanical characterization at room and high temperature. <i>Additive Manufacturing</i> , <b>2021</b> , 47, 102277	6.1	3
89	Austempered ductile iron-to-steel dissimilar arc-welded joints: fatigue strength assessment according to local approaches. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 1481-1502	1	
88	Multiaxial fatigue assessment of tube-tube steel joints with weld ends using the peak stress method. <i>International Journal of Fatigue</i> , <b>2020</b> , 135, 105495	5	10
87	Critical distances approach reformulated for a better comparison of fatigue strength of materials with sharp notches. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e131	0.9	
86	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> , <b>2020</b> , 43, 1658-1685	3	10
85	Automated fatigue strength assessment of arc-welded structures according to the Peak Stress Method. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 1062-1083	1	3

84	State-of-the-art review of peak stress method for fatigue strength assessment of welded joints. <i>International Journal of Fatigue</i> , <b>2020</b> , 139, 105705	5	24
83	Numerical calibration of the direct current potential drop (DCPD) method in fracture mechanics fatigue tests. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 1536-1550	1	3
82	Fatigue limit: Crack and notch sensitivity by Finite Fracture Mechanics. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2020</b> , 105, 102407	3.7	17
81	Mode I fatigue limit of V- and U-notches. <i>Procedia Structural Integrity</i> , <b>2020</b> , 28, 446-451	1	
80	Analysis and Comparison of Some LEFM Parameters. <i>Procedia Structural Integrity</i> , <b>2019</b> , 18, 413-421	1	2
79	Fatigue crack onset by Finite Fracture Mechanics. <i>Procedia Structural Integrity</i> , <b>2019</b> , 18, 501-506	1	2
78	Analysis of crack geometry and location in notched bars by means of a three-probe potential drop technique. <i>International Journal of Fatigue</i> , <b>2019</b> , 124, 167-187	5	12
77	Multiaxial fatigue assessment of welded steel details according to the peak stress method: Industrial case studies. <i>International Journal of Fatigue</i> , <b>2019</b> , 125, 362-380	5	14
76	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> , <b>2019</b> , 13, 53-64	0.9	2
75	Fatigue properties of austempered ductile iron-to-steel dissimilar arc-welded joints. <i>Procedia Structural Integrity</i> , <b>2019</b> , 24, 190-203	1	3
74	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> , <b>2019</b> , 300, 19001	0.3	1
73	Multiaxial fatigue assessment of welded steel details according to the peak stress method based on tetra elements. <i>MATEC Web of Conferences</i> , <b>2019</b> , 300, 19002	0.3	5
72	Effect of Salt Bath Nitrocarburizing and Post-Oxidation on Static and Fatigue Behaviours of a Construction Steel. <i>Metals</i> , <b>2019</b> , 9, 1306	2.3	3
71	Uniform scatter bands to analyse the fatigue strength of welded joints. <i>Procedia Structural Integrity</i> , <b>2019</b> , 24, 66-79	1	1
70	The Peak Stress Method combined with 3D finite element models to assess the fatigue strength of complex welded structures. <i>Procedia Structural Integrity</i> , <b>2019</b> , 19, 617-626	1	12
69	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> , <b>2018</b> , 41, 1044-1063	3	29
68	Experimental tests and fatigue strength assessment of a scotch yoke valve actuator. <i>Procedia Engineering</i> , <b>2018</b> , 213, 58-68		2
67	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> , <b>2018</b> , 41, 2272-2287	3	15

66	The Peak Stress Method to assess the fatigue strength of welded joints using linear elastic finite element analyses. <i>Procedia Engineering</i> , <b>2018</b> , 213, 392-402		7
65	The Peak Stress Method Applied to Bi-Material Corners. <i>Procedia Structural Integrity</i> , <b>2018</b> , 13, 1560-1565		1
64	Rapid estimation of notch stress intensity factors in 3D large-scale welded structures using the peak stress method. <i>MATEC Web of Conferences</i> , <b>2018</b> , 165, 17004	0.3	17
63	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> , <b>2018</b> , 96, 509-533	3.7	29
62	Fracture tests under mixed mode I + III loading: An assessment based on the local energy. <i>International Journal of Damage Mechanics</i> , <b>2017</b> , 26, 881-894	3	20
61	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> , <b>2017</b> , 91, 86-93	3.7	26
60	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> , <b>2017</b> , 101, 328-342	5	28
59	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> , <b>2017</b> , 101, 343-362	5	26
58	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> , <b>2017</b> , 100, 563-574	5	31
57	Review of local strain energy density theory for the fracture assessment of V-notches under mixed mode loading. <i>Engineering Solid Mechanics</i> , <b>2017</b> , 113-132	1.3	36
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> , <b>2017</b> , 245-270	1.3	9
55	Some recent criteria for brittle fracture prediction under in-plane shear loading. <i>Procedia Structural Integrity</i> , <b>2017</b> , 3, 110-118	1	3
54	Large-Scale Yielding Failure Prediction of Notched Ductile Plates by Means of the Linear Elastic Notch Fracture Mechanics. <i>Strength of Materials</i> , <b>2017</b> , 49, 224-233	0.6	11
53	State of the art of corner point singularities under in-plane and out-of-plane loading. <i>Engineering Fracture Mechanics</i> , <b>2017</b> , 174, 2-9	4.2	49
52	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> , <b>2017</b> , 45, 20140496	1	5
51	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> , <b>2017</b> , 11, 8-15	0.9	3
50	Multiaxial fatigue strength of titanium alloys. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 79-89	0.9	3
49	Mode II brittle fracture: recent developments. <i>Frattura Ed Integrita Strutturale</i> , <b>2017</b> , 11, 181-188	0.9	5

48	Some recent criteria for brittle fracture assessment under mode II loading. <i>Engineering Solid Mechanics</i> , <b>2017</b> , 31-38	1.3	22
47	Corner point singularities under in-plane and out-of-plane loading: a review of recent results. <i>Engineering Solid Mechanics</i> , <b>2017</b> , 167-176	1.3	33
46	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> , <b>2016</b> , 82, 643-657	5	33
45	Tensile Fracture Analysis of Key-Hole Notches by Means of the Strain Energy Density. <i>Strength of Materials</i> , <b>2016</b> , 48, 259-269	0.6	7
44	Assessment of tensile fatigue limit of notches using sharp and coarse linear elastic finite element models. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 84, 106-118	3.7	8
43	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> , <b>2016</b> , 39, 982-998	3	35
42	Cyclic plasticity in three-dimensional notched components under in-phase multiaxial loading at R = 0. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 81, 76-88	3.7	30
41	Fatigue assessment of notched specimens by means of a critical plane-based criterion and energy concepts. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 84, 57-63	3.7	46
40	Mode II Brittle Fracture Assessment of Key-Hole Notches by Means of the Local Energy. <i>Journal of Testing and Evaluation</i> , <b>2016</b> , 44, 20140295	1	18
39	Local strain energy density to assess the multiaxial fatigue strength of titanium alloys. <i>Frattura Ed Integrita Strutturale</i> , <b>2016</b> , 10, 69-79	0.9	8
38	Coupled fracture modes under anti-plane loading. <i>Frattura Ed Integrita Strutturale</i> , <b>2016</b> , 10, 108-113	0.9	1
37	Averaged strain energy density-based synthesis of crack initiation life in notched steel bars under torsional fatigue. <i>Frattura Ed Integrita Strutturale</i> , <b>2016</b> , 10, 215-223	0.9	5
36	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> , <b>2016</b> , 39, 924-938	3	60
35	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> , <b>2016</b> , 19, 382-391	1.6	15
34	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> , <b>2016</b> , 19, 204-214	1.6	37
33	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> , <b>2016</b> , 83, 19-30	3.7	15
32	Fracture assessment of sharp V-notched components under Mode II loading: a comparison among some recent criteria. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2016</b> , 85, 217-226	3.7	36
31	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> , <b>2016</b> , 167, 20-33	4.2	14

30	Mode II loading in sharp V-notched components: a comparison among some recent criteria for brittle fracture assessment. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1845-1852	1	1
29	Synthesis of crack initiation life in steel notched specimens under torsional fatigue based on the averaged strain energy density. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1853-1860	1	1
28	NSIFs estimation based on the averaged strain energy density under in-plane mixed mode loading. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1829-1836	1	4
27	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> , <b>2016</b> , 2, 3475-3482	1	
26	Fracture assessment of graphite components weakened by rounded V-notches and subjected to static multiaxial loading. <i>Procedia Structural Integrity</i> , <b>2016</b> , 2, 1805-1812	1	1
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> , <b>2016</b> , 86, 284-291	3.7	31
24	Brittle Failure of Graphite Weakened by V-Notches: A Review of Some Recent Results Under Different Loading Modes. <i>Strength of Materials</i> , <b>2015</b> , 47, 488-506	0.6	34
23	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> , <b>2015</b> , 50, 299-313	1.3	26
22	Experimental and theoretical investigation of brittle fracture in key-hole notches under mixed mode I/II loading. <i>Acta Mechanica</i> , <b>2015</b> , 226, 2313-2322	2.1	26
21	Fatigue strength of severely notched specimens made of TiBAl <sub>2</sub> V under multiaxial loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2015</b> , 38, 503-517	3	129
20	Tensile fracture analysis of V-notches with end holes by means of the local energy. <i>Physical Mesomechanics</i> , <b>2015</b> , 18, 194-202	1.6	28
19	V-notches subjected to combined tension and torsion loadings: the application of the fictitious notch rounding concept. <i>Engineering Fracture Mechanics</i> , <b>2015</b> , 148, 82-96	4.2	5
18	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> , <b>2015</b> , 79, 113-124	3.7	34
17	The effects of different boundary conditions on three-dimensional cracked discs under anti-plane loading. <i>European Journal of Mechanics, A/Solids</i> , <b>2015</b> , 50, 76-86	3.7	27
16	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> , <b>2015</b> , 38, 1419-1431	3	38
15	Three-dimensional cracked discs under anti-plane loading and effects of the boundary conditions. <i>International Journal of Structural Integrity</i> , <b>2015</b> , 6, 541-564	1	2
14	Tensile fracture analysis of blunt notched PMMA specimens by means of the Strain Energy Density. <i>Engineering Solid Mechanics</i> , <b>2015</b> , 3, 35-42	1.3	12
13	Coupled fracture mode of a cracked plate under anti-plane loading. <i>Engineering Fracture Mechanics</i> , <b>2015</b> , 134, 391-403	4.2	81

12	Brittle Fracture of Rounded V-Notches in Isostatic Graphite under Static Multiaxial Loading. <i>Physical Mesomechanics</i> , <b>2015</b> , 18, 283-297	1.6	33
11	Local strain energy density to predict mode II brittle fracture in Brazilian disk specimens weakened by V-notches with end holes. <i>Materials &amp; Design</i> , <b>2015</b> , 69, 22-29		65
10	Three-dimensional effects on cracked components under anti-plane loading. <i>Frattura Ed Integrita Strutturale</i> , <b>2015</b> , 9, 17-24	0.9	8
9	Multiaxial fatigue strength of severely notched titanium grade 5 alloy. <i>Frattura Ed Integrita Strutturale</i> , <b>2015</b> , 9, 229-237	0.9	4
8	Three-dimensional effects on cracked discs and plates under nominal Mode III loading. <i>Frattura Ed Integrita Strutturale</i> , <b>2015</b> , 9,	0.9	3
7	Coupled fracture mode of a cracked disc under anti-plane loading. <i>Engineering Fracture Mechanics</i> , <b>2014</b> , 128, 22-36	4.2	76
6	Coupled fracture mode of a cracked disc under anti-plane loading. <i>MATEC Web of Conferences</i> , <b>2014</b> , 12, 04014	0.3	
5	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> , <b>2014</b> , 74, 64-72	3.7	4
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> , <b>2014</b> , 627, 73-76	0.4	
3	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> , <b>2014</b> , 71, 21-30	3.7	83
2	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> , <b>2013</b> , 49, 826-833		34
1	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