

Gianni Nicoletto

List of Publications by Year in descending order

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96
papers

2,049
citations

279487

23
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276539

41
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103
all docs

103
docs citations

103
times ranked

1604
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure and mechanical properties of pearlitic gray cast iron. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 488, 529-539.	2.6	161
2	Characterization of microshrinkage casting defects of Al-Si alloys by X-ray computed tomography and metallography. <i>International Journal of Fatigue</i> , 2012, 41, 39-46.	2.8	125
3	Anisotropic high cycle fatigue behavior of Ti-6Al-4V obtained by powder bed laser fusion. <i>International Journal of Fatigue</i> , 2017, 94, 255-262.	2.8	113
4	Long fatigue crack growth in Inconel 718 produced by selective laser melting. <i>International Journal of Fatigue</i> , 2016, 92, 499-506.	2.8	109
5	Fatigue crack growth in bonded DCB specimens. <i>Engineering Fracture Mechanics</i> , 2004, 71, 859-871.	2.0	85
6	Moiré interferometry determination of residual stresses in the presence of gradients. <i>Experimental Mechanics</i> , 1991, 31, 252-256.	1.1	73
7	X-ray computed tomography vs. metallography for pore sizing and fatigue of cast Al-alloys. <i>Procedia Engineering</i> , 2010, 2, 547-554.	1.2	72
8	Surface roughness and directional fatigue behavior of as-built EBM and DMLS Ti6Al4V. <i>International Journal of Fatigue</i> , 2018, 116, 140-148.	2.8	72
9	Microstructure and directional fatigue behavior of Inconel 718 produced by selective laser melting. <i>Procedia Structural Integrity</i> , 2016, 2, 2381-2388.	0.3	69
10	Failure mechanisms in twill-weave laminates: FEM predictions vs. experiments. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 787-795.	3.8	55
11	Directional and notch effects on the fatigue behavior of as-built DMLS Ti6Al4V. <i>International Journal of Fatigue</i> , 2018, 106, 124-131.	2.8	53
12	Mesoscopic strain fields in woven composites: Experiments vs. finite element modeling. <i>Optics and Lasers in Engineering</i> , 2009, 47, 352-359.	2.0	42
13	Mixed Mode I/II fatigue crack growth in adhesive joints. <i>Engineering Fracture Mechanics</i> , 2006, 73, 2557-2568.	2.0	41
14	Influence of Build Direction on the Fatigue Behaviour of Ti6Al4V Alloy Produced by Direct Metal Laser Sintering. <i>Materials Today: Proceedings</i> , 2016, 3, 921-924.	0.9	41
15	Mesomechanic strain analysis of twill-weave composite lamina under unidirectional in-plane tension. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1294-1301.	3.8	38
16	On the visualization of heterogeneous plastic strains by Moiré interferometry. <i>Optics and Lasers in Engineering</i> , 2002, 37, 433-442.	2.0	36
17	Influence of post fabrication heat treatments on the fatigue behavior of Ti-6Al-4V produced by selective laser melting. <i>Procedia Structural Integrity</i> , 2017, 7, 133-140.	0.3	35
18	Thermo-mechanical finite element analysis in press-packed IGBT design. <i>Microelectronics Reliability</i> , 2000, 40, 1163-1172.	0.9	34

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19	Resistance of direct metal laser sintered Ti6Al4V alloy against growth of fatigue cracks. <i>Engineering Fracture Mechanics</i> , 2017, 185, 82-91.	2.0	33
20	Sliding wear behavior of nitrided and nitrocarburized cast irons. <i>Wear</i> , 1996, 197, 38-44.	1.5	31
21	Determination of the relationship between microstructure and constitutive behaviour of nodular cast iron with a unit cell model. <i>Journal of Strain Analysis for Engineering Design</i> , 2005, 40, 107-116.	1.0	31
22	Smooth and notch fatigue behavior of selectively laser melted Inconel 718 with as-built surfaces. <i>International Journal of Fatigue</i> , 2019, 128, 105211.	2.8	29
23	Mixed Mode I/II fracture toughness of bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 2002, 22, 109-117.	1.4	28
24	Power cycling on press-pack IGBTs: measurements and thermomechanical simulation. <i>Microelectronics Reliability</i> , 1999, 39, 1165-1170.	0.9	25
25	High Temperature Fatigue Behavior of Eutectic Al-Si-Alloys Used for Piston Production. <i>Procedia Engineering</i> , 2014, 74, 157-160.	1.2	25
26	Microstructure and fatigue performance of SLM-fabricated Ti6Al4V alloy after different stress-relief heat treatments. <i>Transportation Research Procedia</i> , 2019, 40, 24-29.	0.8	25
27	Thermo-mechanical simulation of a multichip press-packed IGBT. <i>Solid-State Electronics</i> , 1998, 42, 2303-2307.	0.8	21
28	Long Fatigue Crack Growth in Ti6Al4V Produced by Direct Metal Laser Sintering. <i>Procedia Engineering</i> , 2016, 160, 69-76.	1.2	21
29	The role of elevated temperature exposure on structural evolution and fatigue strength of eutectic AlSi12 alloys. <i>International Journal of Fatigue</i> , 2016, 83, 24-35.	2.8	20
30	As-built surface layer characterization and fatigue behavior of DMLS Ti6Al4V. <i>Procedia Structural Integrity</i> , 2017, 7, 92-100.	0.3	20
31	Displacement measurements around cracks in three-dimensional problems by a hybrid experimental technique. <i>Experimental Mechanics</i> , 1983, 23, 15-20.	1.1	19
32	Theoretical fringe analysis for a coherent optics method of residual stress measurement. <i>Journal of Strain Analysis for Engineering Design</i> , 1988, 23, 169-178.	1.0	19
33	A comparative study of the fatigue behavior of two heat-treated nodular cast irons. <i>Engineering Fracture Mechanics</i> , 2013, 108, 251-262.	2.0	19
34	Elastoplastic strain concentration factors in finite thickness plates. <i>Journal of Strain Analysis for Engineering Design</i> , 2003, 38, 31-36.	1.0	18
35	INFLUENCE OF ROUGH AS-BUILT SURFACES ON SMOOTH AND NOTCHED FATIGUE BEHAVIOR OF L-PBF AlSi10Mg. <i>Additive Manufacturing</i> , 2020, 34, 101251.	1.7	18
36	Analysis of Nodular Cast Iron Microstructures for Micromechanical Model Development. <i>Strain</i> , 2006, 42, 89-96.	1.4	17

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37	Plastic zones about fatigue cracks in metals. <i>International Journal of Fatigue</i> , 1989, 11, 107-115.	2.8	16
38	Failure of a heavy-duty hydraulic cylinder and its fatigue re-design. <i>Engineering Failure Analysis</i> , 2011, 18, 1030-1036.	1.8	16
39	Mechanical Characterization of Advanced Random Discontinuous Carbon/Epoxy Composites. <i>Materials Today: Proceedings</i> , 2016, 3, 1079-1084.	0.9	16
40	Influence of layer-wise fabrication and surface orientation on the notch fatigue behavior of as-built additively manufactured Ti6Al4V. <i>International Journal of Fatigue</i> , 2020, 134, 105483.	2.8	16
41	Application of High Magnification Digital Image Correlation Technique to Micromechanical Strain Analysis. <i>Strain</i> , 2011, 47, e66.	1.4	14
42	Surface conditions and the fatigue behavior of nodular cast iron. <i>Procedia Engineering</i> , 2011, 10, 2538-2543.	1.2	14
43	Efficient determination of influence factors in fatigue of additive manufactured metals. <i>Procedia Structural Integrity</i> , 2018, 8, 184-191.	0.3	13
44	Approximate stress intensity factors for cracked gear teeth. <i>Engineering Fracture Mechanics</i> , 1993, 44, 231-242.	2.0	12
45	FATIGUE CRACK TIP STRAINS IN 7075-T6 ALUMINUM ALLOY. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1987, 10, 37-49.	1.7	11
46	Fatigue Strength Degradation of AlSi12CuNiMg Alloy Due to High Temperature Exposure: A Structural Investigation. <i>Procedia Engineering</i> , 2014, 74, 43-46.	1.2	11
47	Metallographic Characterization and Fatigue Damage Initiation in Ti6Al4V Alloy Produced by Direct Metal Laser Sintering. <i>Materials Science Forum</i> , 0, 891, 311-316.	0.3	11
48	A novel test method for the fatigue characterization of metal powder bed fused alloys. <i>Procedia Structural Integrity</i> , 2017, 7, 67-74.	0.3	11
49	Experimental stress-intensity distributions in three-dimensional cracked-body problems. <i>Experimental Mechanics</i> , 1983, 23, 378-382.	1.1	10
50	Experimental characterization of cracks at straight attachment lugs. <i>Engineering Fracture Mechanics</i> , 1985, 22, 829-838.	2.0	10
51	Experimental crack tip displacement analysis under small-scale yielding conditions. <i>International Journal of Fatigue</i> , 1986, 8, 83-89.	2.8	10
52	Strain Heterogeneity and Damage Localization in Nodular Cast Iron Microstructures. <i>Materials Science Forum</i> , 2005, 482, 255-258.	0.3	10
53	Influence of nitriding on the fatigue behavior and fracture micromechanisms of nodular cast iron. <i>Strength of Materials</i> , 2008, 40, 75-78.	0.2	10
54	Analysis of the mechanical response of a woven polymeric fabric with locally induced damage. <i>Materials & Design</i> , 2014, 54, 279-290.	5.1	10

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55	Notch fatigue behavior of Inconel 718 produced by selective laser melting. <i>Procedia Structural Integrity</i> , 2019, 17, 138-145.	0.3	9
56	Effect of Surface Roughness on the Fatigue Life of Laser Additive Manufactured Ti6Al4V Alloy. <i>Manufacturing Technology</i> , 2015, 15, 498-502.	0.2	9
57	Casting Pore Characterization by X-Ray Computed Tomography and Metallography. <i>Archive of Mechanical Engineering</i> , 2010, 57, 263-273.	0.7	8
58	Influence of as-built surface on fatigue strength and notch sensitivity of Ti6Al4V alloy produced by DMLS. <i>MATEC Web of Conferences</i> , 2018, 165, 02002.	0.1	8
59	On the link between as-built surface quality and fatigue behavior of additively manufactured Inconel 718. <i>Procedia Structural Integrity</i> , 2019, 23, 384-389.	0.3	7
60	A comparison of Inconel 718 obtained with three L-PBF production systems in terms of process parameters, as-built surface quality, and fatigue performance. <i>International Journal of Fatigue</i> , 2022, 162, 107004.	2.8	7
61	Influence of the Direct Metal Laser Sintering Process on the Fatigue Behavior of the Ti6Al4V Alloy. <i>Materials Science Forum</i> , 0, 891, 317-321.	0.3	6
62	Single cycle to failure in bending of three titanium polyaxial locking plates. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2017, 30, 172-177.	0.2	6
63	MICROSTRUCTURE, DEFECTS AND FATIGUE BEHAVIOR OF CAST AlSi7Mg ALLOY. <i>Acta Metallurgica Slovaca</i> , 2013, 19, 223-231.	0.3	6
64	Surface quality and fatigue behavior of L-PBF AlSi10Mg in as-built condition. <i>Procedia Structural Integrity</i> , 2021, 34, 135-140.	0.3	6
65	Moiré interferometric fringe patterns about crack tips: Experimental observations and numerical simulation. <i>Optics and Lasers in Engineering</i> , 1990, 12, 135-150.	2.0	5
66	Shrinkage Pores and Fatigue Behavior of Cast Al-Si Alloys. <i>Key Engineering Materials</i> , 0, 465, 354-357.	0.4	5
67	High Temperature Fatigue Strength and Quantitative Metallography of an Eutectic Al-Si Alloy for Piston Application. <i>Key Engineering Materials</i> , 0, 592-593, 627-630.	0.4	5
68	High Cycle Fatigue Life of Ti6Al4V Alloy Produced by Direct Metal Laser Sintering. <i>Solid State Phenomena</i> , 0, 258, 522-525.	0.3	5
69	Comparison of analytical and multibody dynamic approaches in the study of a V6 engine piston. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2017, 231, 420-438.	0.5	5
70	As-built surface quality and fatigue resistance of Inconel 718 obtained by additive manufacturing. <i>Material Design and Processing Communications</i> , 2021, 3, e228.	0.5	5
71	Stress-intensity distributions for corner cracks emanating from open holes in plates of finite width. <i>Theoretical and Applied Fracture Mechanics</i> , 1985, 3, 63-70.	2.1	4
72	Fatigue crack growth in multi-pass butt-welded joints of mild steel. <i>International Journal of Pressure Vessels and Piping</i> , 1990, 42, 363-378.	1.2	4

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73	Gear tooth stress analysis by the complex potentials method. <i>Meccanica</i> , 1992, 27, 105-110.	1.2	4
74	Casting Porosity and Long-Life Fatigue Strength of a Cast Al-Alloy. <i>Materials Science Forum</i> , 2008, 567-568, 393-396.	0.3	4
75	Propagation of long fatigue cracks in Ti6Al4V alloy produced by direct metal laser sintering. <i>Procedia Structural Integrity</i> , 2019, 17, 222-229.	0.3	4
76	Casting Porosity and Long-Life Fatigue Strength of a Cast Al-Alloy. <i>Materials Science Forum</i> , 0, , 393-396.	0.3	4
77	Fatigue Behavior of L-PBF Metals: Cost-Effective Characterization via Specimen Miniaturization. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 5227-5234.	1.2	3
78	An Efficient Test Method for the Quantification of Technology-Dependent Factors Affecting the Fatigue Behavior of Metallic Additive Manufacturing Components. , 2020, , 484-506.		3
79	Structure, Texture and Tensile Properties of Ti6Al4V Produced by Selective Laser Melting. <i>Production Engineering Archives</i> , 2019, 25, 60-65.	0.8	3
80	Three-dimensional photoelastic calibration of a chevron-notched short-bar fracture specimen geometry. <i>Engineering Fracture Mechanics</i> , 1986, 24, 879-887.	2.0	2
81	Title is missing!. <i>International Journal of Fracture</i> , 2002, 113, 27-32.	1.1	2
82	Role of composition heterogeneity on fracture micromechanisms of nodular cast iron. <i>Materials Science and Technology</i> , 2006, 22, 1415-1422.	0.8	2
83	Microstructure vs. Near-threshold Fatigue Crack Growth Behavior of an Heat-treated Ductile Iron. <i>Medziagotyra</i> , 2012, 18, .	0.1	2
84	Evolution of Strain Fields During Tensile Tests of Random Discontinuous Carbon/Epoxy Composites. <i>Materials Today: Proceedings</i> , 2016, 3, 1085-1090.	0.9	2
85	Influence of as-built surfaces on the fatigue behavior of AlSi10Mg parts obtained by laser powder bed fusion. <i>Procedia Structural Integrity</i> , 2019, 24, 381-389.	0.3	2
86	Microstructure and fatigue performance of additively manufactured AlSi10Mg.. <i>Transportation Research Procedia</i> , 2021, 55, 518-525.	0.8	2
87	Design, production, and fatigue testing of an optimized structural component made of L-PBF AlSi10Mg. <i>Procedia Structural Integrity</i> , 2021, 34, 184-190.	0.3	2
88	As-Built Sharp Notch Geometry and Fatigue Performance of DMLS Ti6Al4V. <i>Structural Integrity</i> , 2019, , 75-81.	0.8	1
89	Non-Uniform Residual Stress Determination by a Laser Method. , 1989, , 110-115.		1
90	Near-Surface Structure and Fatigue Crack Initiation Mechanisms of As-Built SLM Inconel 718. <i>Defect and Diffusion Forum</i> , 0, 405, 306-311.	0.4	1

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91	Biaxial stress effects on the elastic-plastic crack-tip displacement fields. <i>Meccanica</i> , 1990, 25, 99-106.	1.2	0
92	Influence of Microstructure and Defect Population on the Fatigue Performance of Cast A356-T6 Automotive Components. <i>Materials Science Forum</i> , 2014, 782, 301-305.	0.3	0
93	Fatigue Crack Growth and Threshold Behavior of DMLS Ti6Al4V. <i>Solid State Phenomena</i> , 0, 267, 157-161.	0.3	0
94	On the Material Plasticity Attending Fatigue Crack Growth. , 1987, , 588-593.		0
95	Influence of surface orientation on fatigue performance of as-built additively manufactured Inconel 718. , 2022, 1, 34-39.		0
96	Lightweight Design and Additive Manufacturing of a Fatigue-Critical Automotive Component. , 0, , .		0