

Giorgio Chiandussi

List of Publications by Year in descending order

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64
papers

2,175
citations

304743

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44
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64
all docs

64
docs citations

64
times ranked

1783
citing authors

#	ARTICLE	IF	CITATIONS
1	A new methodology for thermostructural topology optimization: Analytical definition and validation. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 481-500.	1.1	6
2	Innovative formulation for topological fatigue optimisation based on material defects distribution and TopFat algorithm. International Journal of Fatigue, 2021, 147, 106176.	5.7	12
3	Very high cycle fatigue (VHCF) response of additively manufactured materials: A review. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2919-2943.	3.4	20
4	Working Length Transfer in the Endodontic Clinical Practice: A Comparative Study. Applied Sciences (Switzerland), 2020, 10, 5824.	2.5	2
5	Evaluation of Pressure Distribution against Root Canal Walls of NiTi Rotary Instruments by Finite Element Analysis. Applied Sciences (Switzerland), 2020, 10, 2981.	2.5	14
6	Effect of microstructure, residual stresses and building orientation on the fatigue response up to 10 ⁹ cycles of an SLM AlSi10Mg alloy. International Journal of Fatigue, 2020, 137, 105659.	5.7	62
7	Topology and fibre orientation simultaneous optimisation: A design methodology for fibre-reinforced composite components. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 1267-1279.	1.1	8
8	Study of a synchronizer mechanism through multibody dynamic analysis. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 1601-1613.	1.9	10
9	VHCF Response up to 10 ⁹ Cycles of SLM AlSi10Mg Specimens Built in a Vertical Direction. Applied Sciences (Switzerland), 2019, 9, 2954.	2.5	16
10	Influence of the annealing and defects on the VHCF behavior of an SLM AlSi10Mg alloy. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2794-2807.	3.4	34
11	VHCF response of heat-treated SLM Ti6Al4V Gaussian specimens with large loaded volume. Procedia Structural Integrity, 2019, 18, 314-321.	0.8	25
12	VHCF response of Gaussian SLM AlSi10Mg specimens: Effect of a stress relief heat treatment. International Journal of Fatigue, 2019, 124, 435-443.	5.7	42
13	An innovative testing technique for assessing the VHCF response of adhesively bonded joints. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 84-96.	3.4	8
14	Modal Dynamic Analysis of a Synchronizer Mechanism: A Numerical Study. International Journal of Mechanical Engineering and Robotics Research, 2019, , 340-346.	1.0	1
15	VHCF response of as-built SLM AlSi10Mg specimens with large loaded volume. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1918-1928.	3.4	40
16	Estimation of P - S curves in very high cycle fatigue: Statistical procedure based on a general crack growth rate model. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 718-726.	3.4	20
17	Crack growth from internal defects and related size-effect in VHCF. Procedia Structural Integrity, 2017, 5, 247-254.	0.8	5
18	Effect of electroslag remelting on the VHCF response of an AISI H13 steel. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1783-1794.	3.4	23

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19	A general model for crack growth from initial defect in Very-High-Cycle Fatigue. <i>Procedia Structural Integrity</i> , 2017, 3, 411-423.	0.8	5
20	Microstructure and preliminary fatigue analysis on AlSi10Mg samples manufactured by SLM. <i>Procedia Structural Integrity</i> , 2017, 7, 50-57.	0.8	25
21	Effect of defect size on P-S-N curves in Very-High-Cycle Fatigue. <i>Procedia Structural Integrity</i> , 2017, 7, 335-342.	0.8	7
22	Estimation of the Synchronization Time of a Transmission System through Multi Body Dynamic Analysis. <i>International Journal of Mechanical Engineering and Robotics Research</i> , 2017, , 232-236.	1.0	9
23	Experimental-Numerical Assessment of Critical SIF from VHCF Tests. <i>Key Engineering Materials</i> , 2016, 713, 62-65.	0.4	1
24	VHCF Response of H13 Steels Produced with Different Manufacturing Processes. <i>Procedia Engineering</i> , 2016, 160, 93-100.	1.2	6
25	VHCF strength decrement in large H13 steel specimens subjected to ESR process. <i>Procedia Structural Integrity</i> , 2016, 2, 1117-1124.	0.8	22
26	S-N curves in the very-high-cycle fatigue regime: statistical modeling based on the hydrogen embrittlement consideration. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016, 39, 1319-1336.	3.4	43
27	Gaussian specimens for VHCF tests: Analytical prediction of damping effects. <i>International Journal of Fatigue</i> , 2016, 83, 36-41.	5.7	12
28	VHCF Response of AISI H13 Steel: assessment of Size Effects through Gaussian Specimens. <i>Procedia Engineering</i> , 2015, 109, 121-127.	1.2	21
29	Statistical distributions of Transition Fatigue Strength and Transition Fatigue Life in duplex S-N fatigue curves. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 80, 31-39.	4.7	12
30	Prediction of Cyclic Fatigue Life of Nickel-Titanium Rotary Files by Virtual Modeling and Finite Elements Analysis. <i>Journal of Endodontics</i> , 2015, 41, 1867-1870.	3.1	27
31	Energy Consumption of ProTaper Next X1 after Glide Path with PathFiles and ProGlider. <i>Journal of Endodontics</i> , 2014, 40, 2015-2018.	3.1	34
32	Duplex S-N fatigue curves: statistical distribution of the transition fatigue life. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 417-423.	0.9	10
33	On specimen design for size effect evaluation in ultrasonic gigacycle fatigue testing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014, 37, 570-579.	3.4	52
34	Gaussian Specimens for Gigacycle Fatigue Tests: Damping Effects. <i>Procedia Engineering</i> , 2014, 74, 113-118.	1.2	4
35	A unified statistical model for S-N fatigue curves: probabilistic definition. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 187-201.	3.4	67
36	Influence of adhesive techniques on fracture resistance of endodontically treated premolars with various residual wall thicknesses. <i>Journal of Prosthetic Dentistry</i> , 2013, 110, 376-382.	2.8	34

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37	Uncertainty in fatigue loading: Consequences on statistical evaluation of reliability in service. Probabilistic Engineering Mechanics, 2013, 33, 38-46.	2.7	2
38	Comparison between dog-bone and Gaussian specimens for size effect evaluation in gigacycle fatigue. Frattura Ed Integrita Strutturale, 2013, 7, 49-56.	0.9	18
39	Canal Shaping with WaveOne Primary Reciprocating Files and ProTaper System: A Comparative Study. Journal of Endodontics, 2012, 38, 505-509.	3.1	172
40	Comparison of multi-objective optimization methodologies for engineering applications. Computers and Mathematics With Applications, 2012, 63, 912-942.	2.7	310
41	Comparative evaluation of the enamel margins roughness obtained with different finishing devices. Minerva Stomatologica: A Journal on Dentistry and Maxillofacial Surgery, 2012, 61, 1-9.	1.3	2
42	Vehicle Crashworthiness Design " General Principles and Potentialities of Composite Material Structures. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2011, , 193-264.	0.6	17
43	Effect of Canal Length and Curvature on Working Length Alteration with WaveOne Reciprocating Files. Journal of Endodontics, 2011, 37, 1687-1690.	3.1	53
44	Root Canal Anatomy Preservation of WaveOne Reciprocating Files with or without Glide Path. Journal of Endodontics, 2011, 38, 101-4.	3.1	137
45	Bonnet weight reduction and VRU protection: Design proposals implementing non-conventional materials. International Journal of Automotive Technology, 2010, 11, 831-842.	1.4	15
46	Topology optimization with optimality criteria and transmissible loads. Computers and Mathematics With Applications, 2009, 57, 772-788.	2.7	17
47	Use of Nickel-Titanium Rotary PathFile to Create the Glide Path: Comparison With Manual Preflaring in Simulated Root Canals. Journal of Endodontics, 2009, 35, 408-412.	3.1	165
48	Optimisation of a vehicle energy absorbing steel component with experimental validation. International Journal of Impact Engineering, 2007, 34, 843-858.	5.0	27
49	On the solution of a minimum compliance topology optimisation problem by optimality criteria without a priori volume constraint specification. Computational Mechanics, 2006, 38, 77-99.	4.0	13
50	Identification of strain-rate sensitivity parameters of steel sheet by genetic algorithm optimisation. WIT Transactions on the Built Environment, 2006, , .	0.0	0
51	Evaluation of the fatigue strength of notched specimens by the point and line methods with high stress ratios. International Journal of Fatigue, 2005, 27, 639-650.	5.7	9
52	Stress flow in thin-walled box beams obtained by adhesive bonding joining technology. International Journal of Adhesion and Adhesives, 2004, 24, 423-439.	2.9	21
53	Topology optimisation of an automotive component without final volume constraint specification. Advances in Engineering Software, 2004, 35, 609-617.	3.8	49
54	Comparative Analysis of Torsional and Bending Stresses in Two Mathematical Models of Nickel-Titanium Rotary Instruments: ProTaper versus ProFile. Journal of Endodontics, 2003, 29, 15-19.	3.1	184

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55	Design optimization by response surface methodology: application to crashworthiness design of vehicle structures. <i>Structural and Multidisciplinary Optimization</i> , 2002, 24, 325-332.	3.5	81
56	Maximisation of the crushing performance of a tubular device by shape optimisation. <i>Computers and Structures</i> , 2002, 80, 2425-2432.	4.4	39
57	A simple method for automatic update of finite element meshes. , 2000, 16, 1-19.		56
58	Shape variable definition with and C2 continuity functions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 188, 727-742.	6.6	16
59	Design sensitivity analysis method for multidisciplinary shape optimisation problems with linear and non-linear responses. <i>Engineering Computations</i> , 1998, 15, 391-417.	1.4	7
60	Analytical Design of Gigacycle Fatigue Specimens for Size Effect Evaluation. <i>Key Engineering Materials</i> , 0, 577-578, 369-372.	0.4	3
61	Gaussian Specimens for Gigacycle Fatigue Tests: Evaluation of Temperature Increment. <i>Key Engineering Materials</i> , 0, 627, 85-88.	0.4	4
62	Different Inclusion Contents in H13 Steel: Effects on VHCF Response of Gaussian Specimens. <i>Key Engineering Materials</i> , 0, 665, 49-52.	0.4	9
63	Statistical Estimation of Duplex S-N Curves. <i>Key Engineering Materials</i> , 0, 664, 285-294.	0.4	9
64	Numerical Computation of Stress Intensity Factors in Ultrasonic Very-High-Cycle Fatigue Tests. <i>Key Engineering Materials</i> , 0, 754, 218-221.	0.4	1