

Giorgio Olmi

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

953
citations

567281

15
h-index

477307

29
g-index

65
all docs

65
docs citations

65
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental characterization and analytical modelling of the mechanical behaviour of fused deposition processed parts made of ABS-M30. <i>Computational Materials Science</i> , 2013, 79, 506-518.	3.0	281
2	Influence of the build orientation on the fatigue strength of EOS maraging steel produced by additive metal machine. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016, 39, 637-647.	3.4	71
3	Tribological properties of bolts depending on different screw coatings and lubrications: An experimental study. <i>Tribology International</i> , 2017, 107, 199-205.	5.9	44
4	Fatigue Response of As-Built DMLS Maraging Steel and Effects of Aging, Machining, and Peening Treatments. <i>Metals</i> , 2018, 8, 505.	2.3	36
5	A new method for modelling the support effect under rotating bending fatigue: application to Ti6Al4V alloy, with and without shot peening. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 981-993.	3.4	35
6	Fatigue on Shot-Peened Gears: Experimentation, Simulation and Sensitivity Analyses. <i>Strain</i> , 2010, 46, 382-395.	2.4	33
7	Effects of build orientation and thickness of allowance on the fatigue behaviour of 15% PH stainless steel manufactured by DMLS. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 900-916.	3.4	33
8	Experimental Stress Analysis for Materials and Structures. Springer Series in Solid and Structural Mechanics, 2015, . .	0.2	26
9	Influence of the engagement ratio on the joint strength of press fitted and adhesively bonded specimens. <i>International Journal of Adhesion and Adhesives</i> , 2014, 53, 80-88.	2.9	25
10	Sensitivity of direct metal laser sintering Maraging steel fatigue strength to build orientation and allowance for machining. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 374-386.	3.4	24
11	Mechanical Characteristics of Two Environmentally Friendly Resins Reinforced with Flax Fibers. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2015, 61, 227-236.	1.1	17
12	The influence of lubrication on the frictional characteristics of threaded joints for planetary gearboxes. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 2553-2563.	2.1	17
13	Fretting Fatigue in Mechanical Joints: A Literature Review. <i>Lubricants</i> , 2022, 10, 53.	2.9	17
14	A NEW LOADING-CONSTRAINING DEVICE FOR MECHANICAL TESTING WITH MISALIGNMENT AUTO-COMPENSATION. <i>Experimental Techniques</i> , 2011, 35, 61-70.	1.5	16
15	An experimental investigation on a crack propagating from a geartrain housing in an asphalt milling machine. <i>Engineering Failure Analysis</i> , 2014, 38, 38-48.	4.0	16
16	In-Field Measurement of Forces and Deformations at the Rear End of a Motorcycle and Structural Optimisation: Experimental-Numerical Approach Aimed at Structural Optimisation. <i>Strain</i> , 2008, 44, 453-461.	2.4	15
17	Investigation on the Influence of Temperature Variation on the Response of Miniaturised Piezoresistive Sensors. <i>Strain</i> , 2009, 45, 63-76.	2.4	15
18	A Novel Method for Strain Controlled Tests. <i>Experimental Mechanics</i> , 2012, 52, 379-393.	2.0	15

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19	Influence of the engagement ratio on the shear strength of an epoxy adhesive by push-out tests on pin-and-collar joints: Part II: Campaign at different temperature levels. <i>International Journal of Adhesion and Adhesives</i> , 2016, 67, 76-85.	2.9	15
20	A Methodology for the Lightweight Design of Modern Transfer Machine Tools. <i>Machines</i> , 2018, 6, 2.	2.2	14
21	Low Cycle Fatigue Experiments on Turbogenerator Steels and a New Method for Defining Confidence Bands. <i>Journal of Testing and Evaluation</i> , 2012, 40, 539-552.	0.7	14
22	Influence of the engagement ratio on the shear strength of an epoxy adhesive by push-out tests on pin-and-collar joints: Part I: Campaign at room temperature. <i>International Journal of Adhesion and Adhesives</i> , 2016, 67, 69-75.	2.9	11
23	Experimental Investigation on the Effect of Shot Peening and Deep Rolling on the Fatigue Response of High Strength Fasteners. <i>Metals</i> , 2019, 9, 1093.	2.3	11
24	Analysis of the Influence of Fretting on the Fatigue Life of Interference Fitted Joints. , 2014, , .		10
25	Statistical tools applied for the reduction of the defect rate of coffee degassing valves. <i>Case Studies in Engineering Failure Analysis</i> , 2015, 3, 17-24.	1.2	10
26	Steel screws on aluminium nuts: Different engagement ratio tapped threads compared to threaded inserts with a proper tolerance choice. <i>Tribology International</i> , 2019, 138, 297-306.	5.9	9
27	A Practical Approach to Gear Design and Lubrication: A Review. <i>Lubricants</i> , 2020, 8, 84.	2.9	9
28	Failure of the chassis of roller skates for agonistic figure skating. <i>Case Studies in Engineering Failure Analysis</i> , 2015, 3, 62-67.	1.2	8
29	Strain gauge analysis of implant-supported, screw-retained metal frameworks: Comparison between different manufacturing technologies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 840-846.	1.8	8
30	On Hirth Ring Couplings: Design Principles Including the Effect of Friction. <i>Actuators</i> , 2018, 7, 79.	2.3	8
31	Fatigue Life Characterisation of Interference Fitted Joints. , 2013, , .		7
32	An experimental study on the response of a threadlocker, involving different materials, screw dimensions and thread proportioning. <i>International Journal of Adhesion and Adhesives</i> , 2018, 83, 116-122.	2.9	7
33	Influence of the interference level and of the assembly process on the shear strength of loctite 648 anaerobic adhesive. <i>Journal of Adhesion</i> , 2020, 96, 90-112.	3.0	7
34	Reliability Assessment of a Turbogenerator Coil Retaining Ring Based on Low Cycle Fatigue Data. <i>Archive of Mechanical Engineering</i> , 2014, 61, 5-34.	0.7	6
35	Threaded fasteners with applied medium or high strength threadlockers: effect of different tightening procedures on the tribological response. <i>Journal of Adhesion</i> , 2020, 96, 64-89.	3.0	6
36	Analysis of the Stress State in Brake Caliper Mounts of Front Motorbike Suspensions. <i>Advances in Mechanical Engineering</i> , 2013, 5, 525010.	1.6	6

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37	Effects of aging temperature and humidity on the response of medium and high strength threadlockers. <i>Journal of Adhesion</i> , 0, , 1-18.	3.0	5
38	Fatigue response of additively manufactured Maraging Stainless Steel CX and effects of heat treatment and surface finishing. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 482-499.	3.4	5
39	An Efficient Approach to Ill-Posed Problem Regularization Applied to an Over-Determined Six-Degree of Freedom Load Cell. <i>Experimental Mechanics</i> , 2015, 55, 863-876.	2.0	4
40	Effect of the Engagement Ratio and of Temperature on the Shear Strength of Epoxy Adhesive Bonded Aluminum Alloy Pin-and-Collar Joints. <i>Journal of Adhesion</i> , 2018, 94, 932-950.	3.0	4
41	The Influence of Material, Hardness, Roughness and Surface Treatment on the Frictional Characteristics of the Underhead Contact in Socket-Head Screws. , 2018, , .		4
42	Tribological Properties of Connecting Rod High Strength Screws Improved by Surface Peening Treatments. <i>Metals</i> , 2020, 10, 344.	2.3	4
43	LCF on turbogenerator rotors and coil retaining rings: material characterization and sensitivity analyses. <i>EPJ Web of Conferences</i> , 2010, 6, 42006.	0.3	3
44	Coating effect on the fatigue strength of a free cutting steel. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 7513-7524.	2.1	3
45	Influence of the Orientation of Steel Parts Produced by DMLS on the Fatigue Behaviour. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 294-305.	0.4	3
46	Load Cell Training for the Students of Experimental Stress Analysis. <i>Experimental Techniques</i> , 2016, 40, 1147-1161.	1.5	2
47	A numerical and experimental approach to the design and failure analysis of a pinion shaft for wheel loaders. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 1493-1504.	2.1	2
48	Effects of Surface Treatments on the Fatigue Response of High Strength Fasteners. <i>Key Engineering Materials</i> , 2019, 813, 352-357.	0.4	2
49	Introduction to the Application of Strain Gages. <i>Springer Series in Solid and Structural Mechanics</i> , 2015, , 23-100.	0.2	2
50	Fatigue Life Improvement of Holed Plates Made of an Innovative Medium C Micro-Alloyed Steel by Local Plastic Deformation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016, 138, .	2.2	1
51	A user-friendly computational algorithm for the structural analysis of wrapping machine rotating rings. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 2776-2791.	2.1	1
52	Numerical and Experimental Characterization of a Railroad Switch Machine. <i>Machines</i> , 2018, 6, 6.	2.2	1
53	Numerical and Experimental Modeling of the Thermal Flow in a Modern Rotary Transfer Machine. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	1.5	1
54	Temperature response of LOCTITE 648 anaerobic adhesive and hoop channels to enhance its effectiveness under high interference. <i>Journal of Adhesion</i> , 0, , 1-25.	3.0	1

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55	Influence of Heat and Surface Treatments on the Fatigue Response of DMLS Manufactured AlSi10Mg. Materials Science Forum, 0, 1016, 1205-1210.	0.3	1
56	Assessing the influence of DMLS production process factors on fatigue resistance of Maraging steel MS1 in the finite life domain using ANN prediction abilities. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1793-1805.	1.1	1
57	An Efficient Analytical Model for the Structural Analysis of Wrapping Machine Rotating Rings. , 2014, , .		0
58	Experimentally validated structural finite element method analysis of a tibial intramedullary nail: Optimal choice of the contact settings. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 193-206.	1.8	0
59	Wear behavior of electrodeposited nickel coating on ZP5 zinc alloy. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 1291-1302.	1.1	0
60	Cylindrical cross section optimization. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2426-2436.	2.1	0
61	Local Stress Models for Variable Loads. Springer Series in Solid and Structural Mechanics, 2015, , 259-324.	0.2	0
62	Local Strain Models for Variable Loads. Springer Series in Solid and Structural Mechanics, 2015, , 325-363.	0.2	0
63	Reliability Models Based on Experiments. Springer Series in Solid and Structural Mechanics, 2015, , 449-494.	0.2	0
64	DMLS Built Maraging Steel Fatigue Response Investigated for Different Build Orientations and Allowance for Machining. Structural Integrity, 2019, , 112-113.	1.4	0