

Giorgio Olmi

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

953
citations

567281

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65
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65
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Fretting Fatigue in Mechanical Joints: A Literature Review. <i>Lubricants</i> , 2022, 10, 53.	2.9	17
3	Assessing the influence of DMLS production process factors on fatigue resistance of Maraging steel MS1 in the finite life domain using ANN prediction abilities. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2022, 236, 1793-1805.	1.1	1
4	Cylindrical cross section optimization. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 2426-2436.	2.1	0
5	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
6	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
7	A Practical Approach to Gear Design and Lubrication: A Review. <i>Lubricants</i> , 2020, 8, 84.	2.9	9
8	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
9	Wear behavior of electrodeposited nickel coating on ZP5 zinc alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020, 234, 1291-1302.	1.1	0
10	Tribological Properties of Connecting Rod High Strength Screws Improved by Surface Peening Treatments. <i>Metals</i> , 2020, 10, 344.	2.3	4
11	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
12	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
13	Effects of Surface Treatments on the Fatigue Response of High Strength Fasteners. <i>Key Engineering Materials</i> , 2019, 813, 352-357.	0.4	2
14	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
15	Experimentally validated structural finite element method analysis of a tibial intramedullary nail: Optimal choice of the contact settings. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 193-206.	1.8	0
16	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
17	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
18	DMLS Built Maraging Steel Fatigue Response Investigated for Different Build Orientations and Allowance for Machining. <i>Structural Integrity</i> , 2019, , 112-113.	1.4	0

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19	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
20	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
21	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
22	Effects of build orientation and thickness of allowance on the fatigue behaviour of 15â€“5 PH stainless steel manufactured by DMLS. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 900-916.	3.4	33
23	Numerical and Experimental Characterization of a Railroad Switch Machine. <i>Machines</i> , 2018, 6, 6.	2.2	1
24	The Influence of Material, Hardness, Roughness and Surface Treatment on the Frictional Characteristics of the Underhead Contact in Socket-Head Screws. , 2018, , .		4
25	On Hirth Ring Couplings: Design Principles Including the Effect of Friction. <i>Actuators</i> , 2018, 7, 79.	2.3	8
26	A Methodology for the Lightweight Design of Modern Transfer Machine Tools. <i>Machines</i> , 2018, 6, 2.	2.2	14
27	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
28	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
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	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
31	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
32	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
33	Load Cell Training for the Students of Experimental Stress Analysis. <i>Experimental Techniques</i> , 2016, 40, 1147-1161.	1.5	2
34	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
35	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
36	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

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37	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
38	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
39	Experimental Stress Analysis for Materials and Structures. Springer Series in Solid and Structural Mechanics, 2015, , .	0.2	26
40	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
41	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
42	Local Stress Models for Variable Loads. Springer Series in Solid and Structural Mechanics, 2015, , 259-324.	0.2	0
43	Introduction to the Application of Strain Gages. Springer Series in Solid and Structural Mechanics, 2015, , 23-100.	0.2	2
44	Local Strain Models for Variable Loads. Springer Series in Solid and Structural Mechanics, 2015, , 325-363.	0.2	0
45	Reliability Models Based on Experiments. Springer Series in Solid and Structural Mechanics, 2015, , 449-494.	0.2	0
46	An Efficient Analytical Model for the Structural Analysis of Wrapping Machine Rotating Rings. , 2014, , .		0
47	Analysis of the Influence of Fretting on the Fatigue Life of Interference Fitted Joints. , 2014, , .		10
48	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
49	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
50	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
51	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
52	Fatigue Life Characterisation of Interference Fitted Joints. , 2013, , .		7
53	A new method for modelling the support effect under rotating bending fatigue: application to Ti-6Al-4V alloy, with and without shot peening. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 981-993.	3.4	35
54	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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55	A Novel Method for Strain Controlled Tests. <i>Experimental Mechanics</i> , 2012, 52, 379-393.	2.0	15
56	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
57	A NEW LOADING-CONSTRAINING DEVICE FOR MECHANICAL TESTING WITH MISALIGNMENT AUTO-COMPENSATION. <i>Experimental Techniques</i> , 2011, 35, 61-70.	1.5	16
58	Fatigue on Shot-Peened Gears: Experimentation, Simulation and Sensitivity Analyses. <i>Strain</i> , 2010, 46, 382-395.	2.4	33
59	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
60	Investigation on the Influence of Temperature Variation on the Response of Miniaturised Piezoresistive Sensors. <i>Strain</i> , 2009, 45, 63-76.	2.4	15
61	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
62	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
63	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
64	Influence of Heat and Surface Treatments on the Fatigue Response of DMLS Manufactured AlSi10mg. <i>Materials Science Forum</i> , 0, 1016, 1205-1210.	0.3	1