Dario Croccolo

List of Publications by Year
in descending order

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62 papers	1,225 citations	430874 18 h-index	395702 33 g-index
63 all docs	63 docs citations	63 times ranked	852 citing authors

#	Article	IF	Citations
1	Fatigue response of additively manufactured Maraging Stainless Steel CX and effects of heat treatment and surface finishing. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 482-499.	3.4	5
2	Fretting Fatigue in Mechanical Joints: A Literature Review. Lubricants, 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. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2022, 236, 1793-1805.	1.1	1
4	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
5	Numerical and Experimental Modeling of the Thermal Flow in a Modern Rotary Transfer Machine. Journal of Thermal Science and Engineering Applications, 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. Journal of Adhesion, 2020, 96, 90-112.	3.0	7
7	A Practical Approach to Gear Design and Lubrication: A Review. Lubricants, 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. Journal of Adhesion, 2020, 96, 64-89.	3.0	6
9	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
10	Tribological Properties of Connecting Rod High Strength Screws Improved by Surface Peening Treatments. Metals, 2020, 10, 344.	2.3	4
11	Influence of the Orientation of Steel Parts Produced by DMLS on the Fatigue Behaviour. Lecture Notes in Mechanical Engineering, 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. Tribology International, 2019, 138, 297-306.	5.9	9
13	Coating effect on the fatigue strength of a free cutting steel. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 7513-7524.	2.1	3
14	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
15	Sensitivity of direct metal laser sintering Maraging steel fatigue strength to build orientation and allowance for machining. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 374-386.	3.4	24
16	DMLS Built Maraging Steel Fatigue Response Investigated for Different Build Orientations and Allowance for Machining. Structural Integrity, 2019, , 112-113.	1.4	0
17	An experimental study on the response of a threadlocker, involving different materials, screw dimensions and thread proportioning. International Journal of Adhesion and Adhesives, 2018, 83, 116-122.	2.9	7
18	Effect of the Engagement Ratio and of Temperature on the Shear Strength of Epoxy Adhesive Bonded Aluminum Alloy Pin-and-Collar Joints. Journal of Adhesion, 2018, 94, 932-950.	3.0	4

#	Article	IF	Citations
19	Effects of build orientation and thickness of allowance on the fatigue behaviour of 15â€“5 PH stainless steel manufactured by DMLS. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 900-916.	3.4	33
20	Numerical and Experimental Characterization of a Railroad Switch Machine. Machines, 2018, 6, 6.	2.2	1
21	On Hirth Ring Couplings: Design Principles Including the Effect of Friction. Actuators, 2018, 7, 79.	2.3	8
22	A Methodology for the Lightweight Design of Modern Transfer Machine Tools. Machines, 2018, 6, 2.	2.2	14
23	Fatigue Response of As-Built DMLS Maraging Steel and Effects of Aging, Machining, and Peening Treatments. Metals, 2018, 8, 505.	2.3	36
24	Tribological properties of bolts depending on different screw coatings and lubrications: An experimental study. Tribology International, 2017, 107, 199-205.	5.9	44
25	Influence of the build orientation on the fatigue strength of EOS maraging steel produced by additive metal machine. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 637-647.	3.4	71
26	Fatigue Life Improvement of Holed Plates Made of an Innovative Medium C Micro-Alloyed Steel by Local Plastic Deformation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	2.2	1
27	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. International Journal of Adhesion and Adhesives, 2016, 67, 76-85.	2.9	15
28	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. International Journal of Adhesion and Adhesives, 2016, 67, 69-75.	2.9	11
29	A user-friendly computational algorithm for the structural analysis of wrapping machine rotating rings. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2776-2791.	2.1	1
30	Analysis of the Influence of Fretting on the Fatigue Life of Interference Fitted Joints. , 2014, , .		10
31	Influence of the engagement ratio on the joint strength of press fitted and adhesively bonded specimens. International Journal of Adhesion and Adhesives, 2014, 53, 80-88.	2.9	25
32	Interference fit effect on improving fatigue life of a holed single plate. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 689-698.	3.4	16
33	Experimental characterization and analytical modelling of the mechanical behaviour of fused deposition processed parts made of ABS-M30. Computational Materials Science, 2013, 79, 506-518.	3.0	281
34	Analytical solution of stress and strain distributions in press fitted orthotropic cylinders. International Journal of Mechanical Sciences, 2013, 71, 21-29.	6.7	12
35	Influence of the assembly process on the shear strength of shaftâ€“hub hybrid joints. International Journal of Adhesion and Adhesives, 2013, 44, 174-179.	2.9	15
36	Fatigue Life Characterisation of Interference Fitted Joints. , 2013, , .		7

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37	Analysis of the Stress State in Brake Caliper Mounts of Front Motorbike Suspensions. Advances in Mechanical Engineering, 2013, 5, 525010.	1.6	6
38	Normalization of the stress concentrations at the rounded edges of a shaftâ€“hub interference fit: extension to the case of a hollow shaft. Journal of Strain Analysis for Engineering Design, 2012, 47, 131-139.	1.8	19
39	Interference fit effect on holed single plates loaded with tension-tension stresses. Frattura Ed Integrita Strutturale, 2012, 6, 13-20.	0.9	2
40	Influence of tightening procedures and lubrication conditions on titanium screw joints for lightweight applications. Tribology International, 2012, 55, 68-76.	5.9	55
41	A contribution to the selection and calculation of screws in high duty bolted joints. International Journal of Pressure Vessels and Piping, 2012, 96-97, 38-48.	2.6	27
42	Design of hybrid steel-composite interference fitted and adhesively bonded connections. International Journal of Adhesion and Adhesives, 2012, 37, 19-25.	2.9	20
43	Design and optimization of shaftâ€“hub hybrid joints for lightweight structures: Analytical definition of normalizing parameters. International Journal of Mechanical Sciences, 2012, 56, 77-85.	6.7	30
44	Experimental Analysis of Static and Fatigue Strength Properties in Press-Fitted and Adhesively Bonded Steelâ€“Aluminium Components. Journal of Adhesion Science and Technology, 2011, 25, 2521-2538.	2.6	18
45	On the Design of Interference-Fitted and Adhesively Bonded Joints for Lightweight Structures. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	2.9	3
46	Tightening Tests and Friction Coefficients Definition in the Steering Shaft of Front Motorbike Suspension. Strain, 2011, 47, 337-342.	2.4	6
47	Failure analysis of bolted joints: Effect of friction coefficients in torqueâ€“preloading relationship. Engineering Failure Analysis, 2011, 18, 364-373.	4.0	107
48	Structural Analysis of an Articulated Urban Bus Chassis via FEM: a Methodology Applied to a Case Study. Strojniski Vestnik/Journal of Mechanical Engineering, 2011, 57, 799-809.	1.1	25
49	Static and dynamic strength evaluation of interference fit and adhesively bonded cylindrical joints. International Journal of Adhesion and Adhesives, 2010, 30, 359-366.	2.9	41
50	Recent improvements and design formulae applied to front motorbike suspensions. Engineering Failure Analysis, 2010, 17, 1173-1187.	4.0	26
51	How the Releasing Moment of Conical Steel Couplings is Influenced by the Combined Effect of Adhesive and Interference. Strain, 2010, 46, 559-565.	2.4	1
52	Experimental and numerical analysis of clamped joints in front motorbike suspensions. EPJ Web of Conferences, 2010, 6, 15002.	0.3	1
53	Design improvement of clamped joints in front motorbike suspension based on FEM analysis. Finite Elements in Analysis and Design, 2009, 45, 406-414.	3.2	24
54	Adhesive defect density estimation applying the acoustic emission technique. International Journal of Adhesion and Adhesives, 2009, 29, 234-239.	2.9	13

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55	Friction Coefficient Definition in Compression-fit Couplings Applying the DOE Method. Strain, 2008, 44, 170-179.	2.4	24
56	In-Field Measurement of Forces and Deformations at the Rear End of a Motorcycle and Structural Optimisation: Experimental-Numerical Approach Aimed at Structural Optimisation. Strain, 2008, 44, 453-461.	2.4	15
57	The design and optimization of forkâ€“pin compression coupling in front motorbike suspensions. Finite Elements in Analysis and Design, 2007, 43, 977-988.	3.2	18
58	A methodology to estimate the adhesive bonding defects and the final releasing moments in conical joints based on the acoustic emissions technique. International Journal of Adhesion and Adhesives, 2006, 26, 490-497.	2.9	10
59	Fatigue strength of shot-peened nitrided steel: optimization of process parameters by means of design of the experiment. Fatigue and Fracture of Engineering Materials and Structures, 2002, 25, 695-707.	3.4	25
60	Effects of aging temperature and humidity on the response of medium and high strength threadlockers. Journal of Adhesion, 0, , 1-18.	3.0	5
61	Temperature response of LOCTITE 648 anaerobic adhesive and hoop channels to enhance its effectiveness under high interference. Journal of Adhesion, 0, , 1-25.	3.0	1
62	Influence of Heat and Surface Treatments on the Fatigue Response of DMLS Manufactured AlSi10mg. Materials Science Forum, 0, 1016, 1205-1210.	0.3	1