

Dario Crocco

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	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	Failure analysis of bolted joints: Effect of friction coefficients in torqueâ€“preloading relationship. <i>Engineering Failure Analysis</i> , 2011, 18, 364-373.	4.0	107
3	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
4	Influence of tightening procedures and lubrication conditions on titanium screw joints for lightweight applications. <i>Tribology International</i> , 2012, 55, 68-76.	5.9	55
5	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
6	Static and dynamic strength evaluation of interference fit and adhesively bonded cylindrical joints. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 359-366.	2.9	41
7	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
8	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
9	Design and optimization of shaftâ€“hub hybrid joints for lightweight structures: Analytical definition of normalizing parameters. <i>International Journal of Mechanical Sciences</i> , 2012, 56, 77-85.	6.7	30
10	A contribution to the selection and calculation of screws in high duty bolted joints. <i>International Journal of Pressure Vessels and Piping</i> , 2012, 96-97, 38-48.	2.6	27
11	Recent improvements and design formulae applied to front motorbike suspensions. <i>Engineering Failure Analysis</i> , 2010, 17, 1173-1187.	4.0	26
12	Fatigue strength of shot-peened nitrided steel: optimization of process parameters by means of design of the experiment. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2002, 25, 695-707.	3.4	25
13	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
14	Structural Analysis of an Articulated Urban Bus Chassis via FEM: a Methodology Applied to a Case Study. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2011, 57, 799-809.	1.1	25
15	Friction Coefficient Definition in Compression-fit Couplings Applying the DOE Method. <i>Strain</i> , 2008, 44, 170-179.	2.4	24
16	Design improvement of clamped joints in front motorbike suspension based on FEM analysis. <i>Finite Elements in Analysis and Design</i> , 2009, 45, 406-414.	3.2	24
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	Design of hybrid steel-composite interference fitted and adhesively bonded connections. <i>International Journal of Adhesion and Adhesives</i> , 2012, 37, 19-25.	2.9	20

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19	Normalization of the stress concentrations at the rounded edges of a shaft-hub interference fit: extension to the case of a hollow shaft. <i>Journal of Strain Analysis for Engineering Design</i> , 2012, 47, 131-139.	1.8	19
20	The design and optimization of fork-pin compression coupling in front motorbike suspensions. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 977-988.	3.2	18
21	Experimental Analysis of Static and Fatigue Strength Properties in Press-Fitted and Adhesively Bonded Steel-Aluminium Components. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 2521-2538.	2.6	18
22	Fretting Fatigue in Mechanical Joints: A Literature Review. <i>Lubricants</i> , 2022, 10, 53.	2.9	17
23	Interference fit effect on improving fatigue life of a holed single plate. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 689-698.	3.4	16
24	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
25	Influence of the assembly process on the shear strength of shaft-hub hybrid joints. <i>International Journal of Adhesion and Adhesives</i> , 2013, 44, 174-179.	2.9	15
26	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
27	A Methodology for the Lightweight Design of Modern Transfer Machine Tools. <i>Machines</i> , 2018, 6, 2.	2.2	14
28	Adhesive defect density estimation applying the acoustic emission technique. <i>International Journal of Adhesion and Adhesives</i> , 2009, 29, 234-239.	2.9	13
29	Analytical solution of stress and strain distributions in press fitted orthotropic cylinders. <i>International Journal of Mechanical Sciences</i> , 2013, 71, 21-29.	6.7	12
30	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
31	A methodology to estimate the adhesive bonding defects and the final releasing moments in conical joints based on the acoustic emissions technique. <i>International Journal of Adhesion and Adhesives</i> , 2006, 26, 490-497.	2.9	10
32	Analysis of the Influence of Fretting on the Fatigue Life of Interference Fitted Joints. , 2014, , .		10
33	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
34	A Practical Approach to Gear Design and Lubrication: A Review. <i>Lubricants</i> , 2020, 8, 84.	2.9	9
35	On Hirth Ring Couplings: Design Principles Including the Effect of Friction. <i>Actuators</i> , 2018, 7, 79.	2.3	8
36	Fatigue Life Characterisation of Interference Fitted Joints. , 2013, , .		7

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37	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
38	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
39	Tightening Tests and Friction Coefficients Definition in the Steering Shaft of Front Motorbike Suspension. <i>Strain</i> , 2011, 47, 337-342.	2.4	6
40	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
41	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
42	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
43	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
44	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
45	Tribological Properties of Connecting Rod High Strength Screws Improved by Surface Peening Treatments. <i>Metals</i> , 2020, 10, 344.	2.3	4
46	On the Design of Interference-Fitted and Adhesively Bonded Joints for Lightweight Structures. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	2.9	3
47	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
48	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
49	Interference fit effect on holed single plates loaded with tension-tension stresses. <i>Frattura Ed Integrita Strutturale</i> , 2012, 6, 13-20.	0.9	2
50	How the Releasing Moment of Conical Steel Couplings is Influenced by the Combined Effect of Adhesive and Interference. <i>Strain</i> , 2010, 46, 559-565.	2.4	1
51	Experimental and numerical analysis of clamped joints in front motorbike suspensions. <i>EPJ Web of Conferences</i> , 2010, 6, 15002.	0.3	1
52	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
53	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
54	Numerical and Experimental Characterization of a Railroad Switch Machine. <i>Machines</i> , 2018, 6, 6.	2.2	1

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55	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
56	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
57	Influence of Heat and Surface Treatments on the Fatigue Response of DMLS Manufactured AlSi10mg. Materials Science Forum, 0, 1016, 1205-1210.	0.3	1
58	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
59	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
60	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
61	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
62	DMLS Built Maraging Steel Fatigue Response Investigated for Different Build Orientations and Allowance for Machining. Structural Integrity, 2019, , 112-113.	1.4	0