Carlo Rosso

List of Publications by Year
in descending order

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72	650	623734	642732
papers	citations	14 h-index	23 g-index

75	75	75	492
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Web Flexibility in Gear Engagement: A Proposal of Analysis Strategy. Vibration, 2022, 5, 200-212.	1.9	3
2	High-Temperature Annealed Biochar as a Conductive Filler for the Production of Piezoresistive Materials for Energy Conversion Application. ACS Applied Electronic Materials, 2021, 3, 838-844.	4.3	26
3	Evaluation of the effect of profile modifications in gears subjected to sudden torque inversion. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012014.	0.6	1
4	Envelope analysis applied to non-Hertzian contact simulations in damaged roller bearings. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012013.	0.6	1
5	Gear Teeth Deflection Model for Spur Gears: Proposal of a 3D Nonlinear and Non-Hertzian Approach. Machines, 2021, 9, 223.	2.2	8
6	2D nonlinear and non-Hertzian gear teeth deflection model for static transmission error calculation. Mechanism and Machine Theory, 2021, 166, 104471.	4.5	12
7	Bearing Health Monitoring Based on the Orthogonal Empirical Mode Decomposition. Shock and Vibration, 2020, 2020, 1-9.	0.6	17
8	Effect of incorporation of microstructured carbonized cellulose on surface and mechanical properties of epoxy composites. Journal of Applied Polymer Science, 2020, 137, 48896.	2.6	23
9	Influence of pyrolytic thermal history on olive pruning biochar and related epoxy composites mechanical properties. Journal of Composite Materials, 2020, 54, 1863-1873.	2.4	30
10	Health Indicators Construction for Damage Level Assessment in Bearing Diagnostics: A Proposal of an Energetic Approach Based on Envelope Analysis. Applied Sciences (Switzerland), 2020, 10, 8131.	2.5	15
11	Sources of Excitation and Models for Cylindrical Gear Dynamics: A Review. Machines, 2020, 8, 37.	2.2	15
12	Modal Analyses and Meta-Models for Fatigue Assessment of Automotive Steel Wheels. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 155-163.	0.5	7
13	Modelling Strategy and Parametric Study of Metal Gaskets for Automotive Applications. CMES - Computer Modeling in Engineering and Sciences, 2020, 125, 51-64.	1.1	1
14	Influence of Commercial Biochar Fillers on Brittleness/Ductility of Epoxy Resin Composites. Applied Sciences (Switzerland), 2019, 9, 3109.	2.5	44
15	Proposal of a novel approach for 3D tooth contact analysis and calculation of the static transmission error in loaded gears. Procedia Structural Integrity, 2019, 24, 178-189.	0.8	7
16	A proposal of a unique formula for computing compliance in bolted joints. Procedia Structural Integrity, 2019, 24, 167-177.	0.8	0
17	Study of two alternative cooling systems of a mold insert used in die casting process of light alloy components. Procedia Structural Integrity, 2019, 24, 569-582.	0.8	18
18	Biochar as a cheap and environmental friendly filler able to improve polymer mechanical properties. Biomass and Bioenergy, 2019, 120, 219-223.	5.7	86

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19	On the Veering Phenomenon Potential in High Speed Gears Design. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 135-142.	0.5	1
20	Improvements on Design and Validation of Automotive Steel Wheels. Mechanisms and Machine Science, 2019, , 1639-1649.	0.5	8
21	Carbon from waste source: An eco-friendly way for strengthening polymer composites. Composites Part B: Engineering, 2018, 132, 87-96.	12.0	20
22	Innovative functionalized carbon fibers from waste: How to enhance polymer composites properties. Composites Part B: Engineering, 2018, 139, 31-39.	12.0	20
23	Advanced vision approach applied to non-contact micro-measurements: a practical application. International Journal of Advanced Manufacturing Technology, 2017, 88, 471-481.	3.0	2
24	Influence of high speed on crack propagation path in thin rim gears. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 120-129.	3.4	12
25	Influence of Actual Static Transmission Error and Contact Ratio on Gear Engagement Dynamics. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 143-154.	0.5	2
26	Could the Veering Phenomenon be a Mechanical Design Instrument?. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 85-95.	0.5	0
27	Investigation of crack propagation path in tube gears. Procedia Structural Integrity, 2017, 7, 476-483.	0.8	4
28	Low-Cost Carbon Fillers to Improve Mechanical Properties and Conductivity of Epoxy Composites. Polymers, 2017, 9, 642.	4.5	74
29	Weight reduction through material changing in a commercial diesel engine: piston pin and connecting rod case studies. International Journal of Automotive Composites, 2017, 3, 83.	0.1	1
30	Weight reduction through material changing in a commercial diesel engine: piston pin and connecting rod case studies. International Journal of Automotive Composites, 2017, 3, 83.	0.1	1
31	Industrial Knowledge Management Tools Applied to Engineering Education. IFIP Advances in Information and Communication Technology, 2016, , 3-12.	0.7	2
32	Crack propagation behavior in planet gears. Procedia Structural Integrity, 2016, 2, 3610-3616.	0.8	15
33	An Unified Framework for Studying Gear Dynamics Through Model Reduction Techniques. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 233-242.	0.5	3
34	Effect of centrifugal load on crack path in thin-rimmed and webbed gears. Frattura Ed Integrita Strutturale, 2016, , .	0.9	2
35	Effect of rim and web interaction on crack propagation paths in gears by means of XFEM technique. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1237-1245.	3.4	22
36	1. Multiwalled Carbon nanotube â€“ Strength to polymer composite. , 2015, , 1-22.		0

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37	Residual Life Estimation Under Low-Cycle and Thermo-Mechanical Fatigue Conditions: Proposal of a Dedicated Numerical Code. , 2014, , .		3
38	Investigation about crack propagation paths in thin rim gears. Frattura Ed Integrita Strutturale, 2014, 8, 446-453.	0.9	6
39	New concept for micro-manipulation systems: a practical experience. International Journal of Advanced Manufacturing Technology, 2014, 74, 1077-1085.	3.0	1
40	Classical Physical Problems. Lecture Notes in Electrical Engineering, 2013, , 49-90.	0.4	0
41	Multiphysics Problems. Lecture Notes in Electrical Engineering, 2013, , 91-114.	0.4	0
42	Modelling of Gear Meshing: A Numerical Approach for Dynamic Behavior Estimation of Thin Gears. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 319-333.	0.5	0
43	Inverse Eigensensitivity Approach in Model Updating of Avionic Components. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 149-165.	0.5	0
44	A Modal-Geometrical Selection Criterion for Master Nodes Applied to Engine Components. , 2011, , .		0
45	A Modal-Geometrical Selection Criterion for Master Nodes: Numerical and Experimental Testing. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 281-295.	0.5	1
46	Experimental validation of a numerical multiphysics technique for electroâ€thermoâ€mechanical problem. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 1642-1652.	0.9	1
47	Thermo-Mechanical Analysis of a Cast Iron Exhaust Manifold: a Comparison Between the Traditional and a New Methodology. , 2010, , .		0
48	A Proposal of an Oil Pan Optimization Methodology. , 2010, , .		2
49	Proposal of a modal-geometrical-based master nodes selection criterion in modal analysis. Mechanical Systems and Signal Processing, 2009, 23, 606-620.	8.0	37
50	An easy instrument and a methodology for the monitoring and the diagnosis of a rail. Mechanical Systems and Signal Processing, 2009, 23, 940-956.	8.0	28
51	Thermo-mechanical analysis using a multiphysics approach. Journal of Physics: Conference Series, 2009, 181, 012095.	0.4	3
52	An Easy Methodology for Designing Powertrain Bottom Protection in Composite Material of a Rally Car. , 2008, , .		0
53	Design and Numerical Simulation of an Optic Fibre Sensor for Damage Assessment of Structures. Key Engineering Materials, 2007, 347, 393-398.	0.4	0
54	Numerical and Experimental Analysis of Exhaust Manifold Gasket. , 2006, , .		2

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55	Comparison between Dynamic Condensation Techniques in Automotive Application. , 2006, , .		2
56	Damage Criterions in Thermo-Mechanical Fatigue Models. , 2006, , 105.		0
57	A Modal-Geometrical Selection Criterion in Dynamic Condensation Techniques. , 2006, , 349.		2
58	Exhaust Manifold Thermo-Structural Simulation Methodology. , 2005, , .		11
59	Rolling Bearings Monitoring and Damage Detection Methodology. Applied Mechanics and Materials, 2005, 3-4, 293-302.	0.2	6
60	Numerical Analysis of Gear Rattle. , 0, , .		8
61	Numerical Methodology for Evaluating Side Impact Effects in Rally Car. , 0, , .		0
62	A Numerical Methodology for Evaluating Structural and Dynamic Behavior of a Shaft in Powertrain Application. , 0, , .		1
63	A Strategy for Quickly Analyzing the Brake Disc Mounting Bell of Racing Cars. , 0, , .		0
64	Internal Combustion Engine Design: a Practical Computational Methodology. SAE International Journal of Engines, 0, 2, 263-270.	0.4	5
65	Integrated CAD/CAE Functional Design for Engine Components and Assembly. , 0, , .		4
66	A proposal for semi-analytical model of teeth contact with application to gear dynamics. , 0, , .		5
67	Gearbox Paradigm: A Support for Quick and Effective Gearbox Design. , 0, , .		2
68	Test Bench for Static Transmission Error Evaluation in Gears. , 0, , .		2
69	A Methodology for Automotive Steel Wheel Life Assessment. , 0, , .		6
70	Functionality Analysis of Thermoplastic Composite Material to Design Engine Components. , 0, , .		0
71	Influence of Micro Geometry Modification on Gear Dynamics. , 0, , .		3
72	Hardware and Virtual Test-Rigs for Automotive Steel Wheels Design. SAE International Journal of Advances and Current Practices in Mobility, 0, 2, 3481-3489.	2.0	4