

# Andrea Mura

## List of Publications by Year in descending order

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51  
papers

596  
citations

687363

13  
h-index

752698

20  
g-index

51  
all docs

51  
docs citations

51  
times ranked

332  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of different types of graphene coatings on friction and wear performance of aluminum alloy. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 539-547.	2.6	11
2	Experimental investigation on crack propagation paths in spur gears. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1214, 012029.	0.6	1
3	Graphene coatings to enhance tribological performance of steel. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 657-664.	2.6	7
4	Numerical study on fatigue crack propagation behaviors in lubricated rolling contact. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 24-36.	5.3	9
5	An early method for the technical diagnosis of pin-on-disk tribometers by reference friction measurements in EHL conditions. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108169.	5.0	7
6	Energy Consumption Prediction Model of SiCp/Al Composite in Grinding Based on PSO-BP Neural Network. <i>Solid State Phenomena</i> , 2020, 305, 163-168.	0.3	10
7	A novel method to predict static transmission error for spur gear pair based on accuracy grade. <i>Journal of Central South University</i> , 2020, 27, 3334-3349.	3.0	8
8	Investigation about tribological behavior of ABS and PC-ABS polymers coated with graphene. <i>Tribology International</i> , 2019, 134, 335-340.	5.9	40
9	Recent Advances in Spline Couplings Reliability. <i>Procedia Structural Integrity</i> , 2019, 19, 328-335.	0.8	6
10	Electro-mechanical endurance tests on smart fabrics under controlled axial and friction forces. <i>Procedia Structural Integrity</i> , 2018, 8, 220-226.	0.8	2
11	Accelerated lifetime tests on e-textiles: Design and fabrication of multifunctional test bench. <i>Journal of Industrial Textiles</i> , 2018, 47, 1925-1943.	2.4	9
12	Optimisation methodology for lightweight gears to be produced by additive manufacturing techniques. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 3512-3523.	2.1	10
13	Evaluation of graphene grease compound as lubricant for spline couplings. <i>Tribology International</i> , 2018, 117, 162-167.	5.9	27
14	Theoretical and numerical evaluation of tilting moment in crowned teeth splined couplings. <i>Meccanica</i> , 2018, 53, 413-424.	2.0	13
15	Methodology development to design a representative test specimen for wear damage in spline couplings. <i>Procedia Structural Integrity</i> , 2018, 8, 204-211.	0.8	1
16	Investigation of bearings overloads due to misaligned splined shafts. <i>Procedia Structural Integrity</i> , 2018, 12, 52-57.	0.8	3
17	Experimental investigation about tribological performance of grapheme-nanoplatelets as additive for lubricants. <i>Procedia Structural Integrity</i> , 2018, 12, 44-51.	0.8	13
18	Investigation of Fatigue Behavior of ABS and PC-ABS Polymers at Different Temperatures. <i>Materials</i> , 2018, 11, 1818.	2.9	14

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19	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
20	Characterization of fretting wear experiments on spline couplings by principal component analysis. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 860-868.	1.8	7
21	Fatigue damage in spline couplings: numerical simulations and experimental validation. Procedia Structural Integrity, 2017, 5, 1326-1333.	0.8	8
22	Evaluation of the fretting wear damage on crowned splined couplings. Procedia Structural Integrity, 2017, 5, 1393-1400.	0.8	6
23	Experimental characterization of roughness parameters for fretting wear in spline couplings. Meccanica, 2017, 52, 1975-1984.	2.0	9
24	Prediction of fretting wear in aero-engine spline couplings made of 42CrMo4. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 4684-4692.	2.1	12
25	Investigation of crack propagation path in tube gears. Procedia Structural Integrity, 2017, 7, 476-483.	0.8	4
26	Resonating Behaviour of Nanomachined Holed Microcantilevers. Scientific Reports, 2016, 5, 17837.	3.3	6
27	A Methodological Approach for Incremental Fretting Wear Formulation. Tribology Letters, 2016, 64, 1.	2.6	10
28	Crack propagation behavior in planet gears. Procedia Structural Integrity, 2016, 2, 3610-3616.	0.8	15
29	Uncertainty evaluation of Ruiz parameter for spline coupling wear analysis. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2888-2895.	2.1	2
30	Damage identification on spline coupling teeth by means of roughness parameters. Theoretical and Applied Fracture Mechanics, 2016, 82, 9-16.	4.7	7
31	Effect of centrifugal load on crack path in thin-rimmed and webbed gears. Frattura Ed Integrita Strutturale, 2016, , .	0.9	2
32	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
33	Experimental investigation of fatigue and aging performance of automotive exhaust flexible couplings. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 1215-1223.	2.1	2
34	Principal Component Analysis for Characterization of Fretting wear Experiments on Spline Couplings. Procedia Engineering, 2015, 109, 73-79.	1.2	9
35	Oil debris monitoring in misaligned spline couplings subjected to fretting wear. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 2261-2269.	2.1	2
36	Test Rig for Spline Couplings Working in Misaligned Conditions. Journal of Tribology, 2014, 136, .	1.9	31

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37	Investigation about crack propagation paths in thin rim gears. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 446-453.	0.9	6
38	Experimental and theoretical investigation about reaction moments in misaligned splined couplings. <i>Mechanical Systems and Signal Processing</i> , 2014, 45, 504-512.	8.0	28
39	Surface Characterization of Spline Coupling Teeth Subjected to Fretting Wear. <i>Procedia Engineering</i> , 2014, 74, 135-142.	1.2	8
40	Analysis of a load application point in spline coupling teeth. <i>Journal of Zhejiang University: Science A</i> , 2014, 15, 302-308.	2.4	12
41	Sensitivity analysis of a six degrees of freedom displacement measuring device. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 158-168.	2.1	14
42	Experimental procedure for the evaluation of tooth stiffness in spline coupling including angular misalignment. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 545-555.	8.0	42
43	Load distribution in spline coupling teeth with parallel offset misalignment. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013, 227, 2195-2205.	2.1	31
44	Analysis of the pressure distribution in spline couplings. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 2852-2859.	2.1	26
45	Modal strain energy based methods for the analysis of complex patterned free layer damped plates. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 1291-1302.	2.6	18
46	Aging characterization of metals for exhaust systems. <i>International Journal of Automotive Technology</i> , 2012, 13, 629-636.	1.4	7
47	Multi-dofs MEMS displacement sensors based on the Stewart platform theory. <i>Microsystem Technologies</i> , 2012, 18, 575-579.	2.0	10
48	Six d.o.f. displacement measuring device based on a modified Stewart platform. <i>Mechatronics</i> , 2011, 21, 1309-1316.	3.3	28
49	Pressure distribution on spline couplings. <i>EPJ Web of Conferences</i> , 2010, 6, 15006.	0.3	0
50	Influence of the viscoelastic FLD patches disposition on damping performances of steel plates. <i>Pollack Periodica</i> , 2010, 5, 73-86.	0.4	2
51	Experimental Investigation about Surface Damage in Straight and Crowned Misaligned Splined Couplings. <i>Key Engineering Materials</i> , 0, 577-578, 353-356.	0.4	7