

Carla Martini

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Novel T6 Rapid Heat Treatment for AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion: Comparison with T5 and Conventional T6 Heat Treatments. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 284-303.	2.1	16
2	Atmospheric corrosion of Cu-Si-Mn bronze for contemporary art under simulated runoff and continuous immersion conditions. <i>Corrosion Science</i> , 2022, 205, 110442.	6.6	3
3	Improving the Corrosion Resistance of Wrought ZM21 Magnesium Alloys by Plasma Electrolytic Oxidation and Powder Coating. <i>Materials</i> , 2021, 14, 2268.	2.9	8
4	Effect of SiC and borosilicate glass particles on the corrosion and tribological behavior of AZ91D magnesium alloy after PEO process. <i>Surface and Coatings Technology</i> , 2021, 428, 127901.	4.8	31
5	Anodizing of AA6082-T5 by conventional and innovative treatments: Microstructural characterization and dry sliding behaviour. <i>Wear</i> , 2020, 458-459, 203423.	3.1	11
6	B-IMPACT project: eco-friendly and non-hazardous coatings for the protection of outdoor bronzes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 949, 012097.	0.6	3
7	Influence of Plasma Electrolytic Oxidation on Fatigue Behaviour of ZK60A-T5 Magnesium Alloy. <i>Coatings</i> , 2020, 10, 1180.	2.6	9
8	An innovative multi-component fluoropolymer-based coating on outdoor patinated bronze for Cultural Heritage: Durability and reversibility. <i>Journal of Cultural Heritage</i> , 2020, 45, 122-134.	3.3	6
9	Aluminium bronze-steel sliding contact in packaging applications: Failure analysis and lab-scale tribological tests. <i>Engineering Failure Analysis</i> , 2020, 112, 104528.	4.0	4
10	Practical adhesion measurements of protective coatings on bronze by three-point bending test. <i>Journal of Coatings Technology Research</i> , 2019, 16, 1465-1477.	2.5	3
11	Plasma Electrolytic Oxidation (PEO) Layers from Silicate/Phosphate Baths on Ti-6Al-4V for Biomedical Components: Influence of Deposition Conditions and Surface Finishing on Dry Sliding Behaviour. <i>Coatings</i> , 2019, 9, 614.	2.6	14
12	Steel components for packaging devices in sliding/rolling contact: Metallurgical failure analysis. <i>Engineering Failure Analysis</i> , 2019, 102, 338-350.	4.0	2
13	Investigation on corrosion morphology and products of ancient tin amalgam mirrors by AFM, SEM-EDS and micro-Raman spectroscopies. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	0
14	Evaluation of the protectiveness of an organosilane coating on patinated Cu-Si-Mn bronze for contemporary art. <i>Progress in Organic Coatings</i> , 2019, 127, 286-299.	3.9	29
15	Evaluation of 2-(salicylideneimino) thiophenol and other Schiff bases as bronze corrosion inhibitors by electrochemical techniques and surface analysis. <i>Corrosion Science</i> , 2019, 148, 144-158.	6.6	57
16	Tribological and corrosion behavior of PEO coatings with graphite nanoparticles on AZ91 and AZ80 magnesium alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 259-272.	4.2	53
17	Effects of graphite nano-particle additions on dry sliding behaviour of plasma-electrolytic-oxidation-treated EV31A magnesium alloy against steel in air. <i>Wear</i> , 2018, 404-405, 122-132.	3.1	50
18	X-ray Photoelectron Spectroscopy as a tool to investigate silane-based coatings for the protection of outdoor bronze: The role of alloying elements. <i>Applied Surface Science</i> , 2018, 433, 468-479.	6.1	16

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19	Martensite coarsening in low-temperature plasma carburizing. Surface and Coatings Technology, 2018, 350, 161-171.	4.8	18
20	Improvement of wear resistance of components for hydraulic actuators: Dry sliding tests for coating selection and bench tests for final assessment. Tribology International, 2017, 115, 154-164.	5.9	9
21	Characterization of typical patinas simulating bronze corrosion in outdoor conditions. Materials Chemistry and Physics, 2017, 200, 308-321.	4.0	44
22	Evaluation of the performances of a biological treatment on tin-enriched bronze. Environmental Science and Pollution Research, 2017, 24, 2150-2159.	5.3	12
23	Atmospheric pressure non-equilibrium plasma cleaning of 19th century daguerreotypes. Plasma Processes and Polymers, 2017, 14, 1600027.	3.0	16
24	The bronze panel (<i>paliotto</i>) of <i>San Moisè</i> in Venice: materials and causes of deterioration. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 141-151.	1.5	2
25	Dry sliding behavior (block-on-ring tests) of AISI 420 martensitic stainless steel, surface hardened by low temperature plasma-assisted carburizing. Tribology International, 2016, 103, 555-565.	5.9	28
26	Corrosion investigation of fire-gilded bronze involving high surface resolution spectroscopic imaging. Applied Surface Science, 2016, 366, 317-327.	6.1	22
27	Nano patterning of AISI 316L stainless steel with Nonlinear Laser Lithography: Sliding under dry and oil-lubricated conditions. Tribology International, 2016, 99, 67-76.	5.9	35
28	Weathering steel as a potential source for metal contamination: Metal dissolution during 3-year of field exposure in a urban coastal site. Environmental Pollution, 2016, 213, 571-584.	7.5	17
29	Organosilane coatings applied on bronze: Influence of UV radiation and thermal cycles on the protectiveness. Progress in Organic Coatings, 2015, 82, 91-100.	3.9	33
30	Atmospheric corrosion of fire-gilded bronze: corrosion and corrosion protection during accelerated ageing tests. Corrosion Science, 2015, 100, 435-447.	6.6	47
31	Dry sliding wear of an induction-hardened, high-silicon medium-carbon microalloyed steel. Tribology International, 2015, 92, 493-502.	5.9	12
32	Sliding contacts for the pharmaceutical industry: failure analysis and dry sliding tests for the replacement of hard Cr on AISI 316L steel. Tribology International, 2015, 81, 248-257.	5.9	5
33	Nonlinear Laser Lithography for Enhanced Tribological Properties. , 2015, , .		1
34	Corrosion effect to the surface of stainless steel treated by two processes of low temperature carburization. Surface and Interface Analysis, 2014, 46, 731-734.	1.8	6
35	Influence of low-temperature carburising on metal release from AISI316L austenitic stainless steel in acetic acid. Journal of Food Engineering, 2014, 137, 7-15.	5.2	6
36	High temperature tribological behavior and microstructural modifications of the low-temperature carburized AISI 316L austenitic stainless steel. Surface and Coatings Technology, 2014, 258, 772-781.	4.8	26

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37	Micro Raman investigation on corrosion of Pb-based alloy replicas of letters from the museum Plantin-Moretus, Antwerp. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1093-1102.	2.5	9
38	Cleaning of 19 th century daguerreotypes by means of atmospheric pressure cold plasma jet. , 2013, , .		1
39	Influence of the countermaterial on the dry sliding friction and wear behaviour of low temperature carburized AISI316L steel. <i>Tribology International</i> , 2013, 67, 36-43.	5.9	25
40	Tribological behavior of components for radial piston hydraulic motors: Bench tests, failure analysis and laboratory dry sliding tests. <i>Wear</i> , 2013, 305, 238-247.	3.1	1
41	Protective silane treatment for patinated bronze exposed to simulated natural environments. <i>Materials Chemistry and Physics</i> , 2013, 141, 502-511.	4.0	21
42	Investigations on a brass armour: Authentic or forgery?. <i>Materials Chemistry and Physics</i> , 2013, 142, 229-237.	4.0	12
43	A duplex treatment to improve the sliding behavior of AISI 316L: Low-temperature carburizing with a DLC (a-C:H) topcoat. <i>Wear</i> , 2013, 302, 899-908.	3.1	31
44	Tensile and impact behaviour of a microalloyed medium carbon steel: Effect of the cooling condition and corresponding microstructure. <i>Materials & Design</i> , 2013, 45, 171-178.	5.1	86
45	Effectiveness of corrosion inhibitor films for the conservation of bronzes and gilded bronzes. <i>Corrosion Science</i> , 2012, 59, 204-212.	6.6	46
46	Atmospheric corrosion of Cor-Ten steel with different surface finish: Accelerated ageing and metal release. <i>Materials Chemistry and Physics</i> , 2012, 136, 477-486.	4.0	28
47	The aluminum-cast Madonna statue of "Tempio Votivo", Lido di Venezia (Italy): Identification of degradation factors and assessment of a cleaning procedure. <i>Materials Chemistry and Physics</i> , 2012, 137, 404-413.	4.0	1
48	The characterization of Sn-based corrosion products in ancient bronzes: a Raman approach. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1596-1603.	2.5	59
49	Plasma arc cutting: Microstructural modifications of hafnium cathodes during first cycles. <i>Materials Chemistry and Physics</i> , 2012, 134, 858-866.	4.0	13
50	Low-temperature carburised AISI 316L austenitic stainless steel: Wear and corrosion behaviour. <i>Materials & Design</i> , 2012, 38, 154-160.	5.1	66
51	ANCIENT METALLURGY AT SUMHURAM (SULTANATE OF OMAN): TECHNICAL ASPECTS OF RAISED INSCRIPTIONS ON SOUTH ARABIAN BRONZES. <i>Archaeometry</i> , 2011, 53, 528-546.	1.3	5
52	Dry sliding behaviour of hydrogenated amorphous carbon (a-C:H) coatings on Ti-6Al-4V. <i>Wear</i> , 2011, 271, 2025-2036.	3.1	18
53	Face milling of the EN AB-43300 aluminum alloy by PVD- and CVD-coated cemented carbide inserts. <i>International Journal of Refractory Metals and Hard Materials</i> , 2011, 29, 662-673.	3.8	13
54	The use of scanning electrochemical microscopy for the characterisation of patinas on copper alloys. <i>Electrochimica Acta</i> , 2011, 56, 6598-6606.	5.2	35

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55	A comparative study of the tribological behaviour of PVD coatings on the Ti-6Al-4V alloy. <i>Tribology International</i> , 2011, 44, 297-308.	5.9	88
56	Improving sliding and abrasive wear behaviour of cast A356 and wrought AA7075 aluminium alloys by plasma electrolytic oxidation. <i>Materials & Design</i> , 2010, 31, 816-828.	5.1	95
57	PEO layers obtained from mixed aluminate-phosphate baths on Ti-6Al-4V: Dry sliding behaviour and influence of a PTFE topcoat. <i>Wear</i> , 2010, 269, 747-756.	3.1	102
58	The atmospheric corrosion of quaternary bronzes: The action of stagnant rain water. <i>Corrosion Science</i> , 2010, 52, 3002-3010.	6.6	46
59	The atmospheric corrosion of quaternary bronzes: The leaching action of acid rain. <i>Corrosion Science</i> , 2009, 51, 159-170.	6.6	82
60	The atmospheric corrosion of quaternary bronzes: An evaluation of the dissolution rate of the alloying elements. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 83-89.	2.3	29
61	New insight into the nature and properties of pale green surfaces of outdoor bronze monuments. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 161-169.	2.3	44
62	Comparison of dry sliding friction and wear of Ti6Al4V alloy treated by plasma electrolytic oxidation and PVD coating. <i>Wear</i> , 2008, 264, 86-95.	3.1	131
63	Atmospheric corrosion of historical organ pipes: The influence of environment and materials. <i>Corrosion Science</i> , 2008, 50, 2444-2455.	6.6	54
64	Influence of microstructure and composition on corrosion of lead-rich organ pipes. , 2007, , 352-367.		5
65	Deterioration of tin-rich organ pipes. <i>Journal of Materials Science</i> , 2006, 41, 1819-1826.	3.7	17
66	Abrasive Wear of DLC/PVD Multilayer Coatings: AFM Studies. <i>Tribotest Journal: Tribology and Lubrication in Practice</i> , 2004, 10, 241-250.	0.7	0
67	Mechanism of thermochemical growth of iron borides on iron. <i>Journal of Materials Science</i> , 2004, 39, 933-937.	3.7	148
68	Sliding and abrasive wear behaviour of boride coatings. <i>Wear</i> , 2004, 256, 608-613.	3.1	185
69	Mechanical and tribological characterisation of electrodeposited Au-Cu-Cd. <i>Wear</i> , 2003, 255, 903-909.	3.1	6
70	Comparison of different porous sol-gel matrices: template synthesis of polythiophene. <i>Electrochemistry Communications</i> , 2003, 5, 625-631.	4.7	18
71	Preliminary study of micro-scale abrasive wear of a NiTi shape memory alloy. <i>Wear</i> , 2003, 254, 1299-1306.	3.1	42
72	A tribological study of electrodeposited gold-copper-cadmium. <i>Metal Finishing</i> , 2003, 101, 42-47.	0.0	1

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73	Unalloyed copper inclusions in ancient bronze artefacts. Journal of Materials Science, 2002, 37, 4285-4298.	3.7	30
74	Title is missing!. Hyperfine Interactions, 2002, 139/140, 259-265.	0.5	2
75	Phase Composition of Oxidised Layers Grown on Steel Exposed to Liquid Lead at 749 K. Hyperfine Interactions, 2002, 141/142, 403-408.	0.5	8
76	Influence of the Interfacial Characteristics on the Tribological Behaviour of TiN-Base Films on Iron. , 2002, , 259-265.		0
77	Compatibility tests on steels in molten lead and lead-bismuth. Journal of Nuclear Materials, 2001, 296, 243-248.	2.7	124
78	Tribological behaviour of multi-layered PVD nitride coatings. Wear, 2001, 251, 997-1002.	3.1	64
79	Behaviour of materials for accelerator driven systems in stagnant molten lead. Journal of Nuclear Materials, 2000, 279, 308-316.	2.7	42
80	Relationships among crystallographic structure, mechanical properties and tribological behaviour of electroless Ni-P(9%)/B4C films. Wear, 1999, 225-229, 806-813.	3.1	57
81	Friction and wear behavior of composites under dry sliding conditions. Wear, 1998, 216, 229-238.	3.1	42
82	Material properties and interfacial composition of thin films of TiN and TiN physically vapour-deposited on iron. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 669-676.	0.6	5
83	Dry Sliding Behaviour of Peo (Plasma Electrolytic Oxidation) Treated AA 2618/20% Al ₂ O ₃ Composite. Materials Science Forum, 0, 678, 61-74.	0.3	4