

Carla Martini

List of Publications by Year in descending order

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83
papers

2,595
citations

172457

29
h-index

197818

49
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84
all docs

84
docs citations

84
times ranked

2081
citing authors

#	ARTICLE	IF	CITATIONS
1	Sliding and abrasive wear behaviour of boride coatings. <i>Wear</i> , 2004, 256, 608-613.	3.1	185
2	Mechanism of thermochemical growth of iron borides on iron. <i>Journal of Materials Science</i> , 2004, 39, 933-937.	3.7	148
3	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
4	Compatibility tests on steels in molten lead and lead-bismuth. <i>Journal of Nuclear Materials</i> , 2001, 296, 243-248.	2.7	124
5	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
6	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
7	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
8	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
9	The atmospheric corrosion of quaternary bronzes: The leaching action of acid rain. <i>Corrosion Science</i> , 2009, 51, 159-170.	6.6	82
10	Low-temperature carburised AISI 316L austenitic stainless steel: Wear and corrosion behaviour. <i>Materials & Design</i> , 2012, 38, 154-160.	5.1	66
11	Tribological behaviour of multi-layered PVD nitride coatings. <i>Wear</i> , 2001, 251, 997-1002.	3.1	64
12	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
13	Relationships among crystallographic structure, mechanical properties and tribological behaviour of electroless Ni-P(9%)/B4C films. <i>Wear</i> , 1999, 225-229, 806-813.	3.1	57
14	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
15	Atmospheric corrosion of historical organ pipes: The influence of environment and materials. <i>Corrosion Science</i> , 2008, 50, 2444-2455.	6.6	54
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	Atmospheric corrosion of fire-gilded bronze: corrosion and corrosion protection during accelerated ageing tests. <i>Corrosion Science</i> , 2015, 100, 435-447.	6.6	47

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19	The atmospheric corrosion of quaternary bronzes: The action of stagnant rain water. <i>Corrosion Science</i> , 2010, 52, 3002-3010.	6.6	46
20	Effectiveness of corrosion inhibitor films for the conservation of bronzes and gilded bronzes. <i>Corrosion Science</i> , 2012, 59, 204-212.	6.6	46
21	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
22	Characterization of typical patinas simulating bronze corrosion in outdoor conditions. <i>Materials Chemistry and Physics</i> , 2017, 200, 308-321.	4.0	44
23	Friction and wear behavior of composites under dry sliding conditions. <i>Wear</i> , 1998, 216, 229-238.	3.1	42
24	Behaviour of materials for accelerator driven systems in stagnant molten lead. <i>Journal of Nuclear Materials</i> , 2000, 279, 308-316.	2.7	42
25	Preliminary study of micro-scale abrasive wear of a NiTi shape memory alloy. <i>Wear</i> , 2003, 254, 1299-1306.	3.1	42
26	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
27	Nano patterning of AISI 316L stainless steel with Nonlinear Laser Lithography: Sliding under dry and oil-lubricated conditions. <i>Tribology International</i> , 2016, 99, 67-76.	5.9	35
28	Organosilane coatings applied on bronze: Influence of UV radiation and thermal cycles on the protectiveness. <i>Progress in Organic Coatings</i> , 2015, 82, 91-100.	3.9	33
29	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
30	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
31	Unalloyed copper inclusions in ancient bronze artefacts. <i>Journal of Materials Science</i> , 2002, 37, 4285-4298.	3.7	30
32	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
33	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
34	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
35	Dry sliding behavior (block-on-ring tests) of AISI 420 martensitic stainless steel, surface hardened by low temperature plasma-assisted carburizing. <i>Tribology International</i> , 2016, 103, 555-565.	5.9	28
36	High temperature tribological behavior and microstructural modifications of the low-temperature carburized AISI 316L austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2014, 258, 772-781.	4.8	26

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37	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
38	Corrosion investigation of fire-gilded bronze involving high surface resolution spectroscopic imaging. <i>Applied Surface Science</i> , 2016, 366, 317-327.	6.1	22
39	Protective silane treatment for patinated bronze exposed to simulated natural environments. <i>Materials Chemistry and Physics</i> , 2013, 141, 502-511.	4.0	21
40	Comparison of different porous sol-gel matrices: template synthesis of polythiophene. <i>Electrochemistry Communications</i> , 2003, 5, 625-631.	4.7	18
41	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
42	Martensite coarsening in low-temperature plasma carburizing. <i>Surface and Coatings Technology</i> , 2018, 350, 161-171.	4.8	18
43	Deterioration of tin-rich organ pipes. <i>Journal of Materials Science</i> , 2006, 41, 1819-1826.	3.7	17
44	Weathering steel as a potential source for metal contamination: Metal dissolution during 3-year of field exposure in a urban coastal site. <i>Environmental Pollution</i> , 2016, 213, 571-584.	7.5	17
45	Atmospheric pressure non-equilibrium plasma cleaning of 19th century daguerreotypes. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600027.	3.0	16
46	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
47	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
48	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
49	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
50	Plasma arc cutting: Microstructural modifications of hafnium cathodes during first cycles. <i>Materials Chemistry and Physics</i> , 2012, 134, 858-866.	4.0	13
51	Investigations on a brass armour: Authentic or forgery?. <i>Materials Chemistry and Physics</i> , 2013, 142, 229-237.	4.0	12
52	Dry sliding wear of an induction-hardened, high-silicon medium-carbon microalloyed steel. <i>Tribology International</i> , 2015, 92, 493-502.	5.9	12
53	Evaluation of the performances of a biological treatment on tin-enriched bronze. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2150-2159.	5.3	12
54	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

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55	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
56	Improvement of wear resistance of components for hydraulic actuators: Dry sliding tests for coating selection and bench tests for final assessment. <i>Tribology International</i> , 2017, 115, 154-164.	5.9	9
57	Influence of Plasma Electrolytic Oxidation on Fatigue Behaviour of ZK60A-T5 Magnesium Alloy. <i>Coatings</i> , 2020, 10, 1180.	2.6	9
58	Phase Composition of Oxidised Layers Grown on Steel Exposed to Liquid Lead at 749 K. <i>Hyperfine Interactions</i> , 2002, 141/142, 403-408.	0.5	8
59	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
60	Mechanical and tribological characterisation of electrodeposited Au _{1-x} Cu _x Cd. <i>Wear</i> , 2003, 255, 903-909.	3.1	6
61	Corrosion effect to the surface of stainless steel treated by two processes of low temperature carburization. <i>Surface and Interface Analysis</i> , 2014, 46, 731-734.	1.8	6
62	Influence of low-temperature carburising on metal release from AISI316L austenitic stainless steel in acetic acid. <i>Journal of Food Engineering</i> , 2014, 137, 7-15.	5.2	6
63	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
64	Material properties and interfacial composition of thin films of TiN and TiN physically vapour-deposited on iron. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997, 76, 669-676.	0.6	5
65	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
66	Sliding contacts for the pharmaceutical industry: failure analysis and dry sliding tests for the replacement of hard Cr on AISI 316L steel. <i>Tribology International</i> , 2015, 81, 248-257.	5.9	5
67	Influence of microstructure and composition on corrosion of lead-rich organ pipes. , 2007, , 352-367.		5
68	Dry Sliding Behaviour of Peo (Plasma Electrolytic Oxidation) Treated AA 2618/20% Al ₂ O ₃ Composite. <i>Materials Science Forum</i> , 0, 678, 61-74.	0.3	4
69	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
70	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
71	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
72	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

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73	Title is missing!. <i>Hyperfine Interactions</i> , 2002, 139/140, 259-265.	0.5	2
74	The bronze panel (<i>paliotto</i>) of "San Mois" in Venice: materials and causes of deterioration. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 141-151.	1.5	2
75	Steel components for packaging devices in sliding/rolling contact: Metallurgical failure analysis. <i>Engineering Failure Analysis</i> , 2019, 102, 338-350.	4.0	2
76	A tribological study of electrodeposited gold-copper-cadmium. <i>Metal Finishing</i> , 2003, 101, 42-47.	0.0	1
77	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
78	Cleaning of 19th century daguerreotypes by means of atmospheric pressure cold plasma jet. , 2013, , .		1
79	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
80	Nonlinear Laser Lithography for Enhanced Tribological Properties. , 2015, , .		1
81	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
82	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
83	Influence of the Interfacial Characteristics on the Tribological Behaviour of TiN-Base Films on Iron. , 2002, , 259-265.		0