

# Caterina Zanella

## List of Publications by Year in descending order

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69  
papers

1,246  
citations

361296

20  
h-index

414303

32  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1140  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of aesthetic durability of waterborne polyurethane coatings applied on wood for interior applications. <i>Progress in Organic Coatings</i> , 2011, 72, 81-87.	1.9	103
2	Comparison of organic coating accelerated tests and natural weathering considering meteorological data. <i>Progress in Organic Coatings</i> , 2007, 59, 244-250.	1.9	77
3	Influence of the particle size on the mechanical and electrochemical behaviour of micro- and nano-nickel matrix composite coatings. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 31-38.	1.5	74
4	Influence of mill additives on vitreous enamel properties. <i>Materials &amp; Design</i> , 2014, 55, 880-887.	5.1	52
5	Effect of ultrasound vibration during electrodeposition of Ni@SiC nanocomposite coatings. <i>Surface Engineering</i> , 2010, 26, 511-518.	1.1	46
6	Inhibition of the Cu65/Zn35 brass corrosion by natural extract of <i>Camellia sinensis</i> . <i>Applied Surface Science</i> , 2014, 307, 209-216.	3.1	42
7	Effect of high-pressure torsion on microstructure, mechanical properties and corrosion resistance of cast pure Mg. <i>Journal of Materials Science</i> , 2018, 53, 16585-16597.	1.7	40
8	Scaling-up of the electrodeposition process of nano-composite coating for corrosion and wear protection. <i>Electrochimica Acta</i> , 2010, 55, 7876-7883.	2.6	38
9	Study of selective deposition mechanism of cerium-based conversion coating on Rheo-HPDC aluminium-silicon alloys. <i>Electrochimica Acta</i> , 2017, 255, 449-462.	2.6	38
10	A study of formation and growth of the anodised surface layer on cast Al-Si alloys based on different analytical techniques. <i>Materials and Design</i> , 2016, 101, 254-262.	3.3	36
11	Abrasion resistance of vitreous enamel coatings in function of frit composition and particles presence. <i>Wear</i> , 2015, 332-333, 702-709.	1.5	34
12	Effect of electrodeposition parameters on chemical and morphological characteristics of Cu@Sn coatings from a methanesulfonic acid electrolyte. <i>Surface and Coatings Technology</i> , 2013, 236, 394-399.	2.2	33
13	Effect of SiC particle size and heat-treatment on microhardness and corrosion resistance of NiP electrodeposited coatings. <i>Journal of Alloys and Compounds</i> , 2018, 769, 1080-1087.	2.8	32
14	Corrosion properties of micro- and nanocomposite copper matrix coatings produced from a copper pyrophosphate bath under pulse current. <i>Surface and Coatings Technology</i> , 2011, 205, 3438-3447.	2.2	30
15	Effect of pulse current on the electrodeposition of copper from choline chloride-ethylene glycol. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1657-1663.	1.2	27
16	Ultra-Fine Grained Degradable Magnesium for Biomedical Applications. <i>Rare Metal Materials and Engineering</i> , 2014, 43, 2561-2566.	0.8	26
17	Corrosion protection of silver coated reflectors by atomic layer deposited Al <sub>2</sub> O <sub>3</sub> . <i>Solar Energy</i> , 2014, 101, 167-175.	2.9	26
18	Carbon xerogels as electrodes for supercapacitors. The influence of the catalyst concentration on the microstructure and on the electrochemical properties. <i>Journal of Materials Science</i> , 2012, 47, 7175-7180.	1.7	23

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19	Microstructural, Surface Topology and Nanomechanical Characterization of Electrodeposited Ni-P/SiC Nanocomposite Coatings. Applied Sciences (Switzerland), 2019, 9, 2901.	1.3	23
20	Application of a Molybdenum and Tungsten Disulfide Coating to Improve Tribological Properties of Orthodontic Archwires. Nanomaterials, 2019, 9, 753.	1.9	23
21	Hardness and corrosion behaviour of anodised Al-Si produced by rheocasting. Materials and Design, 2019, 173, 107764.	3.3	21
22	Wear resistance and self-lubrication of electrodeposited Ni-SiC:MoS <sub>2</sub> mixed particles composite coatings. Surface and Coatings Technology, 2021, 421, 127400.	2.2	21
23	The Effects of Additives, Particles Load and Current Density on Codeposition of SiC Particles in NiP Nanocomposite Coatings. Coatings, 2019, 9, 554.	1.2	20
24	MgAl-LDH/graphene protective film: Insight into LDH-graphene interaction. Surface and Coatings Technology, 2020, 401, 126253.	2.2	20
25	Effect of Si Content and Morphology on Corrosion Resistance of Anodized Cast Al-Si Alloys. Journal of the Electrochemical Society, 2017, 164, C435-C441.	1.3	18
26	Deposition and Characterization of Cerium-Based Conversion Coating on HPDC Low Si Content Aluminum Alloy. Journal of the Electrochemical Society, 2017, 164, C581-C590.	1.3	18
27	Study of the influence of sonication during the electrodeposition of nickel matrix nanocomposite coatings on the protective properties. Corrosion Reviews, 2011, 29, .	1.0	15
28	Electrical Conductivity of SiOCN Ceramics by the Powder Solution Composite Technique. Journal of the American Ceramic Society, 2014, 97, 2525-2530.	1.9	15
29	Studying the Microstructural Effect of Selective Laser Melting and Electropolishing on the Performance of Maraging Steel. Journal of Materials Engineering and Performance, 2021, 30, 6588-6605.	1.2	15
30	Resistance to localized corrosion of pure Ni, micro- and nano-SiC composite electrodeposits. Pure and Applied Chemistry, 2010, 83, 295-308.	0.9	14
31	Finite element modeling of silver electrodeposition for evaluation of thickness distribution on complex geometries. Materials and Design, 2016, 90, 693-703.	3.3	14
32	Electrodeposition of NiSn-rGO Composite Coatings from Deep Eutectic Solvents and Their Physicochemical Characterization. Metals, 2020, 10, 1455.	1.0	14
33	Influence of anodic pulses and periodic current reversion on electrodeposits. Transactions of the Institute of Metal Finishing, 2014, 92, 336-341.	0.6	13
34	Electrocodeposition of Ni composites and surface treatment of SiC nano-particles. Surface and Coatings Technology, 2021, 406, 126663.	2.2	13
35	Effect of the synthesis parameters of in situ grown Mg-Al LDHs on the filiform corrosion susceptibility of painted AA5005. Electrochimica Acta, 2021, 381, 138288.	2.6	13
36	Electrocodeposition of Nano-SiC Particles by Pulse-Reverse Under an Adapted Waveform. Journal of the Electrochemical Society, 2019, 166, D804-D809.	1.3	12

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37	Effect of Segregation and Surface Condition on Corrosion of Rheo-HPDC Al-Si Alloys. <i>Metals</i> , 2018, 8, 209.	1.0	11
38	Comparative Study of Ni-Sn Alloys Electrodeposited from Choline Chloride-Based Ionic Liquids in Direct and Pulsed Current. <i>Coatings</i> , 2019, 9, 801.	1.2	11
39	Optimizing Heat Treatment for Electroplated NiP and NiP/SiC Coatings. <i>Coatings</i> , 2020, 10, 1179.	1.2	11
40	Elastic grain interaction in electrodeposited nanocomposite Nickel matrix coatings. <i>Surface and Coatings Technology</i> , 2012, 206, 2499-2505.	2.2	10
41	Influence of the electrochemical behavior of metal substrates on the properties of cathodic clearcoat. <i>Progress in Organic Coatings</i> , 2014, 77, 1987-1992.	1.9	10
42	Wear Behavior of Ni-Based Composite Coatings with Dual Nano-SiC: Graphite Powder Mix. <i>Coatings</i> , 2020, 10, 1060.	1.2	10
43	Properties of AZ91 alloy produced by spark plasma sintering and extrusion. <i>Powder Metallurgy</i> , 2013, 56, 405-410.	0.9	9
44	The role of microstructure and cathodic intermetallics in localised deposition mechanism of conversion compounds on Al (Si, Fe, Cu) alloy. <i>Surface and Coatings Technology</i> , 2020, 402, 126502.	2.2	9
45	Electropolymerization and Possible Corrosion Protection Effect of Polypyrrole Coatings on AA1050 (UNS A91050) in NaCl Solutions. <i>Corrosion</i> , 2019, 75, 745-755.	0.5	8
46	Electrodeposition of Photocatalytic Sn-Ni Matrix Composite Coatings Embedded with Doped TiO <sub>2</sub> Particles. <i>Coatings</i> , 2020, 10, 775.	1.2	8
47	Stress corrosion cracking (SCC) failure in marine areas of fixed guards for climbing. <i>Corrosion Engineering Science and Technology</i> , 2015, 50, 462-466.	0.7	6
48	Control of silver throwing power by pulse reverse electroplating. <i>Transactions of the Institute of Metal Finishing</i> , 2017, 95, 25-30.	0.6	6
49	A Study of the Localized Ceria Coating Deposition on Fe-Rich Intermetallics in an AlSiFe Cast Alloy. <i>Materials</i> , 2021, 14, 3058.	1.3	6
50	Influence of Fe-rich intermetallics and their segregation on anodising properties of Al-Si-Mg rheocast alloys. <i>Surface and Coatings Technology</i> , 2021, 422, 127570.	2.2	6
51	A localized study on the influence of surface preparation on the reactivity of cast Al-7Si-1Fe and Al-7Si-2Cu-1Fe alloys and their effect on cerium conversion coating deposition. <i>Applied Surface Science</i> , 2022, 585, 152730.	3.1	6
52	Electrochemical performance of polypyrrole coatings electrodeposited on rheocast aluminum-silicon components. <i>Progress in Organic Coatings</i> , 2019, 137, 105307.	1.9	5
53	The Effect of Co-Deposition of SiC Sub-Micron Particles and Heat Treatment on Wear Behaviour of Ni-P Coatings. <i>Coatings</i> , 2021, 11, 180.	1.2	5
54	A Study of Anodising Behaviour of Al-Si Components Produced by Rheocasting. <i>Solid State Phenomena</i> , 0, 285, 39-44.	0.3	4

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55	Electrochemical Behavior of Conventional and Rheo-High-Pressure Die Cast Low Silicon Aluminum Alloys in NaCl Solutions. <i>Corrosion</i> , 2019, 75, 1339-1353.	0.5	3
56	Study of the effect of pulse plating parameters on the electrodeposition of NiP and NiP/SiC coatings and their microhardness values. <i>Transactions of the Institute of Metal Finishing</i> , 2021, 99, 29-37.	0.6	3
57	Effects of SiC particles codeposition and ultrasound agitation on the electrocrystallisation of nickel-based composite coatings. <i>Journal of Materials Science</i> , 2021, 56, 18463-18476.	1.7	3
58	Fatigue Crack Initiation on Semi-Solid Al <sup>7</sup> Si <sup>4</sup> Mg Castings. <i>Metals</i> , 2022, 12, 1061.	1.0	3
59	Correlation between electrophoretic clearcoats properties and electrochemical characteristics of noble substrates. <i>Progress in Organic Coatings</i> , 2012, 74, 349-355.	1.9	2
60	6th European Pulse Plating Seminar. <i>Transactions of the Institute of Metal Finishing</i> , 2014, 92, 178-179.	0.6	2
61	Promotion of young European scientists in surface technology. <i>Transactions of the Institute of Metal Finishing</i> , 2016, 94, 173-174.	0.6	2
62	Polypyrrole coatings on rheocast aluminum-silicon alloy: A correlation between properties and electrodeposition conditions. <i>Surface and Interface Analysis</i> , 2020, 52, 4-15.	0.8	2
63	Role of Anodic Time in Pulse-Reverse Electrocodeposition of Nano-SiC Particles. <i>Journal of the Electrochemical Society</i> , 2021, 168, 062509.	1.3	2
64	New European Training Network solving corrosion problems on micro- and nanoscale: mCBEEs. <i>Transactions of the Institute of Metal Finishing</i> , 2017, 95, 297-298.	0.6	1
65	European training school for young scientists and EAST Forum 2017. <i>Transactions of the Institute of Metal Finishing</i> , 2017, 95, 237-238.	0.6	1
66	A journey into mCBEEs training, the European training network on corrosion problems at micro- and nanoscale. <i>Transactions of the Institute of Metal Finishing</i> , 2019, 97, 227-229.	0.6	1
67	Surface Treatments on Al Alloys and Composites. , 2022, , 170-178.		1
68	Application of Assaf panel for evaluating throwing power of pulse reverse electroplating on complex geometries. <i>Transactions of the Institute of Metal Finishing</i> , 2018, 96, 258-264.	0.6	0
69	Crevice Corrosion Study of Materials for Propulsion Applications in the Marine Environment. <i>Corrosion Science and Technology</i> , 2015, 14, 288-295.	0.2	0