

# Caterina Zanella

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

873

citations

17

h-index

27

g-index

70

ext. papers

1,063

ext. citations

3.6

avg, IF

4.59

L-index

#	Paper	IF	Citations
69	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> , <b>2022</b> , 585, 152730	6.7	0
68	Surface Treatments on Al Alloys and Composites <b>2022</b> , 170-178		1
67	Effect of the synthesis parameters of in situ grown Mg-Al LDHs on the filiform corrosion susceptibility of painted AA5005. <i>Electrochimica Acta</i> , <b>2021</b> , 381, 138288	6.7	2
66	A Study of the Localized Ceria Coating Deposition on Fe-Rich Intermetallics in an AlSiFe Cast Alloy. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
65	Studying the Microstructural Effect of Selective Laser Melting and Electropolishing on the Performance of Maraging Steel. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 6588-6605	1.6	4
64	Role of Anodic Time in Pulse-Reverse Electrocodeposition of Nano-SiC Particles. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 062509	3.9	0
63	Electrocodeposition of Ni composites and surface treatment of SiC nano-particles. <i>Surface and Coatings Technology</i> , <b>2021</b> , 406, 126663	4.4	4
62	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> , <b>2021</b> , 99, 29-37	1.3	1
61	The Effect of Co-Deposition of SiC Sub-Micron Particles and Heat Treatment on Wear Behaviour of NiB Coatings. <i>Coatings</i> , <b>2021</b> , 11, 180	2.9	2
60	Effects of SiC particles codeposition and ultrasound agitation on the electrocrystallisation of nickel-based composite coatings. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 18463	4.3	0
59	Wear resistance and self-lubrication of electrodeposited Ni-SiC:MoS <sub>2</sub> mixed particles composite coatings. <i>Surface and Coatings Technology</i> , <b>2021</b> , 421, 127400	4.4	4
58	Influence of Fe-rich intermetallics and their segregation on anodising properties of Al-Si-Mg rheocast alloys. <i>Surface and Coatings Technology</i> , <b>2021</b> , 422, 127570	4.4	1
57	Electrodeposition of NiSn-rGO Composite Coatings from Deep Eutectic Solvents and Their Physicochemical Characterization. <i>Metals</i> , <b>2020</b> , 10, 1455	2.3	6
56	Polypyrrole coatings on rheocast aluminum-silicon alloy: A correlation between properties and electrodeposition conditions. <i>Surface and Interface Analysis</i> , <b>2020</b> , 52, 4-15	1.5	1
55	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> , <b>2020</b> , 402, 126502	4.4	4
54	Wear Behavior of Ni-Based Composite Coatings with Dual Nano-SiC: Graphite Powder Mix. <i>Coatings</i> , <b>2020</b> , 10, 1060	2.9	5
53	MgAl-LDH/graphene protective film: Insight into LDH-graphene interaction. <i>Surface and Coatings Technology</i> , <b>2020</b> , 401, 126253	4.4	8

52	Electrodeposition of Photocatalytic Sn <sub>2</sub> Si Matrix Composite Coatings Embedded with Doped TiO <sub>2</sub> Particles. <i>Coatings</i> , <b>2020</b> , 10, 775	2.9	4
51	Optimizing Heat Treatment for Electroplated NiP and NiP/SiC Coatings. <i>Coatings</i> , <b>2020</b> , 10, 1179	2.9	6
50	A Study of Anodising Behaviour of Al-Si Components Produced by Rheocasting. <i>Solid State Phenomena</i> , <b>2019</b> , 285, 39-44	0.4	1
49	Electropolymerization and Possible Corrosion Protection Effect of Polypyrrole Coatings on AA1050 (UNS A91050) in NaCl Solutions. <i>Corrosion</i> , <b>2019</b> , 75, 745-755	1.8	5
48	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> , <b>2019</b> , 97, 227-229	1.3	1
47	Application of a Molybdenum and Tungsten Disulfide Coating to Improve Tribological Properties of Orthodontic Archwires. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	12
46	Hardness and corrosion behaviour of anodised Al-Si produced by rheocasting. <i>Materials and Design</i> , <b>2019</b> , 173, 107764	8.1	13
45	Microstructural, Surface Topology and Nanomechanical Characterization of Electrodeposited Ni-P/SiC Nanocomposite Coatings. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2901	2.6	11
44	The Effects of Additives, Particles Load and Current Density on Codeposition of SiC Particles in NiP Nanocomposite Coatings. <i>Coatings</i> , <b>2019</b> , 9, 554	2.9	12
43	Electrochemical Behavior of Conventional and Rheo-High-Pressure Die Cast Low Silicon Aluminum Alloys in NaCl Solutions. <i>Corrosion</i> , <b>2019</b> , 75, 1339-1353	1.8	0
42	Electrochemical performance of polypyrrole coatings electrodeposited on rheocast aluminum-silicon components. <i>Progress in Organic Coatings</i> , <b>2019</b> , 137, 105307	4.8	3
41	Electrocodeposition of Nano-SiC Particles by Pulse-Reverse Under an Adapted Waveform. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, D804-D809	3.9	8
40	Comparative Study of Ni-Sn Alloys Electrodeposited from Choline Chloride-Based Ionic Liquids in Direct and Pulsed Current. <i>Coatings</i> , <b>2019</b> , 9, 801	2.9	5
39	Effect of SiC particle size and heat-treatment on microhardness and corrosion resistance of NiP electrodeposited coatings. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 1080-1087	5.7	17
38	Effect of Segregation and Surface Condition on Corrosion of Rheo-HPDC AlSi Alloys. <i>Metals</i> , <b>2018</b> , 8, 209	2.3	7
37	Effect of high-pressure torsion on microstructure, mechanical properties and corrosion resistance of cast pure Mg. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 16585-16597	4.3	26
36	Application of Assaf panel for evaluating throwing power of pulse reverse electroplating on complex geometries. <i>Transactions of the Institute of Metal Finishing</i> , <b>2018</b> , 96, 258-264	1.3	
35	Control of silver throwing power by pulse reverse electroplating. <i>Transactions of the Institute of Metal Finishing</i> , <b>2017</b> , 95, 25-30	1.3	3

34	Effect of Si Content and Morphology on Corrosion Resistance of Anodized Cast Al-Si Alloys. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C435-C441	3.9	14
33	New European Training Network solving corrosion problems on micro- and nanoscale: mCBEEs. <i>Transactions of the Institute of Metal Finishing</i> , <b>2017</b> , 95, 297-298	1.3	1
32	Study of selective deposition mechanism of cerium-based conversion coating on Rheo-HPDC aluminium-silicon alloys. <i>Electrochimica Acta</i> , <b>2017</b> , 255, 449-462	6.7	30
31	European training school for young scientists and EAST Forum 2017. <i>Transactions of the Institute of Metal Finishing</i> , <b>2017</b> , 95, 237-238	1.3	1
30	Deposition and Characterization of Cerium-Based Conversion Coating on HPDC Low Si Content Aluminum Alloy. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C581-C590	3.9	15
29	Promotion of young European scientists in surface technology. <i>Transactions of the Institute of Metal Finishing</i> , <b>2016</b> , 94, 173-174	1.3	2
28	Finite element modeling of silver electrodeposition for evaluation of thickness distribution on complex geometries. <i>Materials and Design</i> , <b>2016</b> , 90, 693-703	8.1	6
27	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> , <b>2016</b> , 101, 254-262	8.1	28
26	Stress corrosion cracking (SCC) failure in marine areas of fixed guards for climbing. <i>Corrosion Engineering Science and Technology</i> , <b>2015</b> , 50, 462-466	1.7	6
25	Abrasion resistance of vitreous enamel coatings in function of frit composition and particles presence. <i>Wear</i> , <b>2015</b> , 332-333, 702-709	3.5	27
24	Crevice Corrosion Study of Materials for Propulsion Applications in the Marine Environment. <i>Corrosion Science and Technology</i> , <b>2015</b> , 14, 288-295		
23	Influence of mill additives on vitreous enamel properties. <i>Materials &amp; Design</i> , <b>2014</b> , 55, 880-887		36
22	Inhibition of the Cu65/Zn35 brass corrosion by natural extract of <i>Camellia sinensis</i> . <i>Applied Surface Science</i> , <b>2014</b> , 307, 209-216	6.7	31
21	Effect of pulse current on the electrodeposition of copper from choline chloride-ethylene glycol. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1657-1663	2.6	19
20	Influence of the electrochemical behavior of metal substrates on the properties of cataphoretic clearcoat. <i>Progress in Organic Coatings</i> , <b>2014</b> , 77, 1987-1992	4.8	10
19	Corrosion protection of silver coated reflectors by atomic layer deposited Al <sub>2</sub> O <sub>3</sub> . <i>Solar Energy</i> , <b>2014</b> , 101, 167-175	6.8	24
18	6th European Pulse Plating Seminar. <i>Transactions of the Institute of Metal Finishing</i> , <b>2014</b> , 92, 178-179	1.3	1
17	Influence of anodic pulses and periodic current reversion on electrodeposits. <i>Transactions of the Institute of Metal Finishing</i> , <b>2014</b> , 92, 336-341	1.3	11

16	Electrical Conductivity of SiOCN Ceramics by the Powder-Solution-Composite Technique. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2525-2530	3.8	14
15	Ultra-Fine Grained Degradable Magnesium for Biomedical Applications. <i>Rare Metal Materials and Engineering</i> , <b>2014</b> , 43, 2561-2566		21
14	Effect of electrodeposition parameters on chemical and morphological characteristics of CuSn coatings from a methanesulfonic acid electrolyte. <i>Surface and Coatings Technology</i> , <b>2013</b> , 236, 394-399	4.4	26
13	Properties of AZ91 alloy produced by spark plasma sintering and extrusion. <i>Powder Metallurgy</i> , <b>2013</b> , 56, 405-410	1.9	9
12	Elastic grain interaction in electrodeposited nanocomposite Nickel matrix coatings. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 2499-2505	4.4	7
11	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> , <b>2012</b> , 47, 7175-7180	4.3	21
10	Correlation between electrophoretic clearcoats properties and electrochemical characteristics of noble substrates. <i>Progress in Organic Coatings</i> , <b>2012</b> , 74, 349-355	4.8	1
9	Evaluation of aesthetic durability of waterborne polyurethane coatings applied on wood for interior applications. <i>Progress in Organic Coatings</i> , <b>2011</b> , 72, 81-87	4.8	82
8	Corrosion properties of micro- and nanocomposite copper matrix coatings produced from a copper pyrophosphate bath under pulse current. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 3438-3447	4.4	29
7	Study of the influence of sonication during the electrodeposition of nickel matrix nanocomposite coatings on the protective properties. <i>Corrosion Reviews</i> , <b>2011</b> , 29,	3.2	11
6	Resistance to localized corrosion of pure Ni, micro- and nano-SiC composite electrodeposits. <i>Pure and Applied Chemistry</i> , <b>2010</b> , 83, 295-308	2.1	13
5	Effect of ultrasound vibration during electrodeposition of NiSiC nanocomposite coatings. <i>Surface Engineering</i> , <b>2010</b> , 26, 511-518	2.6	40
4	Scaling-up of the electrodeposition process of nano-composite coating for corrosion and wear protection. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 7876-7883	6.7	31
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> , <b>2009</b> , 39, 31-38	2.6	66
2	Comparison of organic coating accelerated tests and natural weathering considering meteorological data. <i>Progress in Organic Coatings</i> , <b>2007</b> , 59, 244-250	4.8	60
1	Metal-Matrix Nanocomposite Coatings Produced by Electrodeposition	2.97-3.17	