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List of Publications by Year in descending order

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219 papers	7,858 citations	41258 49 h-index	76769 74 g-index
221 all docs	221 docs citations	221 times ranked	4957 citing authors

#	Article	IF	Citations
1	Dual-action smart coatings with a self-healing superhydrophobic surface and anti-corrosion properties. Journal of Materials Chemistry A, 2017, 5, 2355-2364.	5.2	413
2	Additively manufactured biodegradable porous magnesium. Acta Biomaterialia, 2018, 67, 378-392.	4.1	273
3	Additively manufactured biodegradable porous iron. Acta Biomaterialia, 2018, 77, 380-393.	4.1	185
4	Self-healing anticorrosive organic coating based on an encapsulated water reactive silyl ester: Synthesis and proof of concept. Progress in Organic Coatings, 2011, 70, 142-149.	1.9	166
5	Triple-Action Self-Healing Protective Coatings Based on Shape Memory Polymers Containing Dual-Function Microspheres. ACS Applied Materials & Interfaces, 2018, 10, 23369-23379.	4.0	152
6	Inhibitor-loaded conducting polymer capsules for active corrosion protection of coating defects. Corrosion Science, 2016, 112, 138-149.	3.0	123
7	Dual-action self-healing protective coatings with photothermal responsive corrosion inhibitor nanocontainers. Chemical Engineering Journal, 2021, 404, 127118.	6.6	122
8	The effect of inhibitor structure on the corrosion of AA2024 and AA7075. Corrosion Science, 2011, 53, 2184-2190.	3.0	119
9	A rapid screening multi-electrode method for the evaluation of corrosion inhibitors. Electrochimica Acta, 2009, 54, 3402-3411.	2.6	97
10	Timeâ€“frequency methods for trend removal in electrochemical noise data. Electrochimica Acta, 2012, 70, 199-209.	2.6	97
11	Fabrication and characterization of graphene-based carbon hollow spheres for encapsulation of organic corrosion inhibitors. Chemical Engineering Journal, 2018, 352, 909-922.	6.6	97
12	Additively manufactured biodegradable porous zinc. Acta Biomaterialia, 2020, 101, 609-623.	4.1	95
13	Unravelling the corrosion inhibition mechanisms of bi-functional inhibitors by EIS and SEMâ€“EDS. Corrosion Science, 2013, 69, 346-358.	3.0	93
14	SECM study of defect repair in self-healing polymer coatings on metals. Electrochemistry Communications, 2011, 13, 169-173.	2.3	89
15	Novel timeâ€“frequency characterization of electrochemical noise data in corrosion studies using Hilbert spectra. Corrosion Science, 2013, 66, 97-110.	3.0	88
16	Scanning electrochemical microscopy to study the effect of crystallographic orientation on the electrochemical activity of pure copper. Electrochimica Acta, 2014, 116, 89-96.	2.6	87
17	Simplistic correlations between molecular electronic properties and inhibition efficiencies: Do they really exist?. Corrosion Science, 2021, 179, 108856.	3.0	86
18	Initiation and growth of modified Zr-based conversion coatings on multi-metal surfaces. Surface and Coatings Technology, 2013, 236, 284-289.	2.2	82

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19	Towards understanding and prediction of atmospheric corrosion of an Fe/Cu corrosion sensor via machine learning. Corrosion Science, 2020, 170, 108697.	3.0	82
20	The corrosion protection of AA2024-T3 aluminium alloy by leaching of lithium-containing salts from organic coatings. Faraday Discussions, 2015, 180, 511-526.	1.6	81
21	pH responsive Ce(III) loaded polyaniline nanofibers for self-healing corrosion protection of AA2024-T3. Progress in Organic Coatings, 2016, 99, 197-209.	1.9	81
22	The characterisation and performance of Ce(dbp)3-inhibited epoxy coatings. Progress in Organic Coatings, 2011, 70, 91-101.	1.9	77
23	Comparison of the synergistic effects of inhibitor mixtures tailored for enhanced corrosion protection of bare and coated AA2024-T3. Surface and Coatings Technology, 2016, 303, 342-351.	2.2	76
24	Unravelling the Chemical Influence of Water on the PMMA/Aluminum Oxide Hybrid Interface In Situ. Scientific Reports, 2017, 7, 13341.	1.6	76
25	On the importance of irreversibility of corrosion inhibitors for active coating protection of AA2024-T3. Corrosion Science, 2018, 140, 272-285.	3.0	75
26	A Novel Approach for the Evaluation of Under Deposit Corrosion in Marine Environments Using Combined Analysis by Electrochemical Impedance Spectroscopy and Electrochemical Noise. Electrochimica Acta, 2016, 217, 226-241.	2.6	74
27	The influence of pH on corrosion inhibitor selection for 2024-T3 aluminium alloy assessed by high-throughput multielectrode and potentiodynamic testing. Electrochimica Acta, 2010, 55, 2457-2465.	2.6	73
28	Dealloying-driven local corrosion by intermetallic constituent particles and dispersoids in aerospace aluminium alloys. Corrosion Science, 2020, 177, 108947.	3.0	73
29	Enhanced corrosion protection of mild steel by the synergetic effect of zinc aluminum polyphosphate and 2-mercaptobenzimidazole inhibitors incorporated in epoxy-polyamide coatings. Corrosion Science, 2018, 138, 372-379.	3.0	69
30	A comparison of the interfacial bonding properties of carboxylic acid functional groups on zinc and iron substrates. Electrochimica Acta, 2011, 56, 1904-1911.	2.6	68
31	Shape memory composite (SMC) self-healing coatings for corrosion protection. Progress in Organic Coatings, 2016, 97, 261-268.	1.9	68
32	Effect of surface roughness and chemistry on the adhesion and durability of a steel-epoxy adhesive interface. International Journal of Adhesion and Adhesives, 2020, 96, 102450.	1.4	68
33	Transient analysis through Hilbert spectra of electrochemical noise signals for the identification of localized corrosion of stainless steel. Electrochimica Acta, 2013, 104, 84-93.	2.6	66
34	A combined mechanical, microscopic and local electrochemical evaluation of self-healing properties of shape-memory polyurethane coatings. Electrochimica Acta, 2011, 56, 9619-9626.	2.6	65
35	A combinatorial matrix of rare earth chloride mixtures as corrosion inhibitors of AA2024-T3: Optimisation using potentiodynamic polarisation and EIS. Electrochimica Acta, 2012, 67, 95-103.	2.6	64
36	Direct microbial electron uptake as a mechanism for stainless steel corrosion in aerobic environments. Water Research, 2022, 219, 118553.	5.3	63

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37	A Critical Appraisal of the Interpretation of Electrochemical Noise for Corrosion Studies. Corrosion, 2014, 70, 971-987.	0.5	62
38	Lithium salts as leachable corrosion inhibitors and potential replacement for hexavalent chromium in organic coatings for the protection of aluminum alloys. Journal of Coatings Technology Research, 2016, 13, 557-566.	1.2	61
39	A closer look at constituent induced localised corrosion in Al-Cu-Mg alloys. Corrosion Science, 2016, 113, 160-171.	3.0	61
40	In-situ nanoscopic observations of dealloying-driven local corrosion from surface initiation to in-depth propagation. Corrosion Science, 2020, 177, 108912.	3.0	61
41	A combined redox-competition and negative-feedback SECM study of self-healing anticorrosive coatings. Electrochemistry Communications, 2011, 13, 1094-1097.	2.3	59
42	Self-healing epoxy nanocomposite coatings based on dual-encapsulation of nano-carbon hollow spheres with film-forming resin and curing agent. Composites Part B: Engineering, 2019, 175, 107087.	5.9	57
43	Mechanical and Corrosion Protection Properties of a Smart Composite Epoxy Coating with Dual-Encapsulated Epoxy/Polyamine in Carbon Nanospheres. Industrial & Engineering Chemistry Research, 2019, 58, 3033-3046.	1.8	55
44	Influence of HEPES buffer on the local pH and formation of surface layer during in vitro degradation tests of magnesium in DMEM. Progress in Natural Science: Materials International, 2014, 24, 531-538.	1.8	54
45	Ship ballast tanks a review from microbial corrosion and electrochemical point of view. Ocean Engineering, 2013, 70, 188-200.	1.9	53
46	Aminobenzoate modified MgAl hydrotalcites as a novel smart additive of reinforced concrete for anticorrosion applications. Construction and Building Materials, 2013, 47, 1436-1443.	3.2	53
47	The influence of copper content on intergranular corrosion of model AlMgSi(Cu) alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2008, 59, 670-675.	0.8	52
48	Influence of surface hydroxyls on the formation of Zr-based conversion coatings on AA6014 aluminum alloy. Surface and Coatings Technology, 2014, 254, 277-283.	2.2	52
49	Protective Film Formation on AA2024-T3 Aluminum Alloy by Leaching of Lithium Carbonate from an Organic Coating. Journal of the Electrochemical Society, 2016, 163, C45-C53.	1.3	52
50	Extrusion-based 3D printed biodegradable porous iron. Acta Biomaterialia, 2021, 121, 741-756.	4.1	52
51	The relationship between spectral and wavelet techniques for noise analysis. Electrochimica Acta, 2016, 202, 277-287.	2.6	50
52	Electrochemical Evaluation of Corrosion Inhibiting Layers Formed in a Defect from Lithium-Leaching Organic Coatings. Journal of the Electrochemical Society, 2017, 164, C396-C406.	1.3	50
53	An integrated approach in the time, frequency and time-frequency domain for the identification of corrosion using electrochemical noise. Electrochimica Acta, 2016, 222, 627-640.	2.6	49
54	Study of the formation of a protective layer in a defect from lithium-leaching organic coatings. Progress in Organic Coatings, 2016, 99, 80-90.	1.9	49

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55	Towards Cr(VI)-free anodization of aluminum alloys for aerospace adhesive bonding applications: A review. Frontiers of Chemical Science and Engineering, 2017, 11, 465-482.	2.3	49
56	Effects of Zinc Surface Acid-Based Properties on Formation Mechanisms and Interfacial Bonding Properties of Zirconium-Based Conversion Layers. Journal of Physical Chemistry C, 2012, 116, 8426-8436.	1.5	48
57	Zirconium-based conversion film formation on zinc, aluminium and magnesium oxides and their interactions with functionalized molecules. Applied Surface Science, 2017, 423, 817-828.	3.1	48
58	Durable lubricant-infused anodic aluminum oxide surfaces with high-aspect-ratio nanochannels. Chemical Engineering Journal, 2019, 368, 138-147.	6.6	47
59	Role of Surface Oxide Properties on the Aluminum/Epoxy Interfacial Bonding. Journal of Physical Chemistry C, 2013, 117, 4480-4487.	1.5	46
60	Adaptive bidirectional extracellular electron transfer during accelerated microbiologically influenced corrosion of stainless steel. Communications Materials, 2021, 2, .	2.9	46
61	High-throughput channel arrays for inhibitor testing: Proof of concept for AA2024-T3. Corrosion Science, 2009, 51, 2279-2290.	3.0	44
62	XPS Analysis of the Surface Chemistry and Interfacial Bonding of Barrier-Type Cr(VI)-Free Anodic Oxides. Journal of Physical Chemistry C, 2015, 119, 19967-19975.	1.5	44
63	Effect of Anodic Aluminum Oxide Chemistry on Adhesive Bonding of Epoxy. Journal of Physical Chemistry C, 2016, 120, 19670-19677.	1.5	44
64	Probing the formation and degradation of chemical interactions from model molecule/metal oxide to buried polymer/metal oxide interfaces. Npj Materials Degradation, 2019, 3, .	2.6	44
65	The effect of surface pre-conditioning treatments on the local composition of Zr-based conversion coatings formed on aluminium alloys. Applied Surface Science, 2016, 366, 339-347.	3.1	43
66	A filiform corrosion and potentiodynamic polarisation study of some aluminium alloys. Journal of Materials Science, 2000, 35, 1629-1639.	1.7	42
67	A new high-throughput method for corrosion testing. Corrosion Science, 2012, 58, 327-331.	3.0	42
68	The influence of a Zr-based conversion treatment on interfacial bonding strength and stability of epoxy coated carbon steel. Progress in Organic Coatings, 2017, 105, 29-36.	1.9	42
69	Influence of surface pretreatment on phosphate conversion coating on AZ91 Mg alloy. Surface and Coatings Technology, 2019, 359, 414-425.	2.2	42
70	Scanning Kelvin probe force microscopy as a means of predicting the electrochemical characteristics of the surface of a modified AA4xxx/AA3xxx (Al alloys) brazing sheet. Electrochimica Acta, 2013, 88, 330-339.	2.6	41
71	Electrodeposition of Znâ€“Co and Znâ€“Coâ€“Fe alloys from acidic chloride electrolytes. Surface and Coatings Technology, 2007, 202, 84-90.	2.2	39
72	Scanning Kelvin Probe Study of (Oxyhydr)oxide Surface of Aluminum Alloy. Journal of Physical Chemistry C, 2012, 116, 1805-1811.	1.5	39

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73	Detection of microbiologically influenced corrosion by electrochemical noise transients. Electrochimica Acta, 2014, 136, 223-232.	2.6	39
74	Advanced bredigite-containing magnesium-matrix composites for biodegradable bone implant applications. Materials Science and Engineering C, 2017, 79, 647-660.	3.8	39
75	Mechanism of Passive Layer Formation on AA2024-T3 from Alkaline Lithium Carbonate Solutions in the Presence of Sodium Chloride. Journal of the Electrochemical Society, 2018, 165, C60-C70.	1.3	39
76	Application of transient analysis using Hilbert spectra of electrochemical noise to the identification of corrosion inhibition. Electrochimica Acta, 2014, 116, 355-365.	2.6	38
77	Compositional study of a corrosion protective layer formed by leachable lithium salts in a coating defect on AA2024-T3 aluminium alloys. Progress in Organic Coatings, 2018, 119, 65-75.	1.9	37
78	ATR-FTIR in Kretschmann configuration integrated with electrochemical cell as in situ interfacial sensitive tool to study corrosion inhibitors for magnesium substrates. Electrochimica Acta, 2020, 345, 136166.	2.6	37
79	An in situ study of zirconium-based conversion treatment on zinc surfaces. Applied Surface Science, 2015, 356, 837-843.	3.1	36
80	In Situ Characterization of the Initial Effect of Water on Molecular Interactions at the Interface of Organic/Inorganic Hybrid Systems. Scientific Reports, 2017, 7, 45123.	1.6	36
81	The effect of two types of modified Mg-Al hydrotalcites on reinforcement corrosion in cement mortar. Cement and Concrete Research, 2017, 100, 186-202.	4.6	36
82	Acceleration of corrosion of 304 stainless steel by outward extracellular electron transfer of Pseudomonas aeruginosa biofilm. Corrosion Science, 2022, 199, 110159.	3.0	36
83	Cathodic inhibition and anomalous electrodeposition of Znâ€“Co alloys. Electrochimica Acta, 2007, 52, 5444-5452.	2.6	35
84	Molecular Interactions of Electroadsorbed Carboxylic Acid and Succinic Anhydride Monomers on Zinc Surfaces. Journal of Physical Chemistry C, 2011, 115, 17054-17067.	1.5	33
85	The effect of brazing process on microstructure evolution and corrosion performance of a modified AA4XXX/AA3XXX brazing sheet. Corrosion Science, 2012, 58, 242-250.	3.0	33
86	In Situ Study of Buried Metalâ€“Polymer Interfaces Exposed to an Aqueous Solution by an Integrated ATR-FTIR and Electrochemical Impedance Spectroscopy System. Journal of Physical Chemistry C, 2013, 117, 20826-20832.	1.5	32
87	Interface strength and degradation of adhesively bonded porous aluminum oxides. Npj Materials Degradation, 2017, 1, .	2.6	32
88	Quasi in situ analytical TEM to investigate electrochemically induced microstructural changes in alloys: AA2024-T3 as an example. Corrosion Science, 2013, 69, 221-225.	3.0	31
89	Fabrication of copper nanowires via electrodeposition in anodic aluminum oxide templates formed by combined hard anodizing and electrochemical barrier layer thinning. Journal of Electroanalytical Chemistry, 2018, 809, 59-66.	1.9	31
90	Active and passive protection of AA2024-T3 by a hybrid inhibitor doped mesoporous solâ€“gel and top coating system. Surface and Coatings Technology, 2016, 303, 352-361.	2.2	30

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91	Hybrid sol-gel coatings applied on anodized AA2024-T3 for active corrosion protection. Surface and Coatings Technology, 2021, 419, 127251.	2.2	30
92	Corrosion resistance of Znâ€“Coâ€“Fe alloy coatings on high strength steel. Surface and Coatings Technology, 2009, 203, 1415-1422.	2.2	29
93	Durability and Corrosion of Aluminium and Its Alloys: Overview, Property Space, Techniques and Developments. , 0, , .		29
94	Electrodeposition of mixed chromium metal-carbide-oxide coatings from a trivalent chromium-formate electrolyte without a buffering agent. Electrochimica Acta, 2015, 173, 819-826.	2.6	29
95	Localised corrosion: general discussion. Faraday Discussions, 2015, 180, 381-414.	1.6	29
96	Friction surface cladding: An exploratory study of a new solid state cladding process. Journal of Materials Processing Technology, 2016, 229, 769-784.	3.1	29
97	The use of odd random phase electrochemical impedance spectroscopy to study lithium-based corrosion inhibition by active protective coatings. Electrochimica Acta, 2018, 278, 363-373.	2.6	29
98	Tailoring the release of encapsulated corrosion inhibitors from damaged coatings: Controlled release kinetics by overlapping diffusion fronts. Progress in Organic Coatings, 2012, 75, 20-27.	1.9	28
99	Active corrosion protection of various aluminium alloys by lithiumâ€leaching coatings. Surface and Interface Analysis, 2019, 51, 1276-1287.	0.8	28
100	Combined Corrosion and Wear of Aluminium Alloy 7075-T6. Journal of Bio- and Tribo-Corrosion, 2016, 2, 1.	1.2	27
101	The chemical throwing power of lithium-based inhibitors from organic coatings on AA2024-T3. Corrosion Science, 2019, 150, 194-206.	3.0	27
102	Chemisorption of polyester coatings on zirconium-based conversion coated multi-metal substrates and their stability in aqueous environment. Applied Surface Science, 2020, 508, 144771.	3.1	27
103	A morphological study of filiform corrosive attack on chromated and alkaline-cleaned AA2024-T351 aluminium alloy. Corrosion Science, 2004, 46, 1201-1224.	3.0	26
104	The effect of time evolution and timing of the electrochemical data recording of corrosion inhibitor protection of hot-dip galvanized steel. Corrosion Science, 2020, 173, 108780.	3.0	26
105	A morphological study of filiform corrosive attack on cerated AA2024-T351 aluminium alloy. Corrosion Science, 2005, 47, 107-124.	3.0	25
106	An integrated study on the effect of pre- and post-extrusion heat treatments and surface treatment on the filiform corrosion properties of an aluminium extrusion alloy. Corrosion Science, 2005, 47, 2711-2730.	3.0	25
107	Characterization of the passive layer on ferrite and austenite phases of super duplex stainless steel. Applied Surface Science, 2019, 496, 143634.	3.1	25
108	Influence of pretreatments and aging on the adhesion performance of epoxy-coated aluminum. Surface and Coatings Technology, 2013, 215, 260-265.	2.2	24

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109	An investigation of rare earth chloride mixtures: combinatorial optimisation for AA2024â€t3 corrosion inhibition. Surface and Interface Analysis, 2010, 42, 170-174.	0.8	23
110	In Situ Study of Buried Interfacial Bonding Mechanisms of Carboxylic Polymers on Zn Surfaces. Journal of Physical Chemistry C, 2013, 117, 3374-3382.	1.5	23
111	An investigation of the corrosion inhibitive layers generated from lithium oxalateâ€containing organic coating on AA2024â€T3 aluminium alloy. Surface and Interface Analysis, 2016, 48, 798-803.	0.8	23
112	Smart protective coatings with selfâ€sensing and active corrosion protection dual functionality from pH-sensitive calcium carbonate microcontainers. Corrosion Science, 2022, 200, 110254.	3.0	23
113	Water uptake in thin nylon 6 films as measured by electrochemical impedance spectroscopy and magnetic resonance imaging. Electrochimica Acta, 2013, 94, 219-228.	2.6	22
114	An infrared spectroscopic study of sodium silicate adsorption on porous anodic alumina. Surface and Interface Analysis, 2013, 45, 1098-1104.	0.8	22
115	Application of In Situ Liquid Cell Transmission Electron Microscopy in Corrosion Studies: A Critical Review of Challenges and Achievements. Corrosion, 2020, 76, 4-17.	0.5	22
116	Optimization of intrinsic self-healing silicone coatings by benzotriazole loaded mesoporous silica. Surface and Coatings Technology, 2021, 421, 127388.	2.2	22
117	Barrier and adhesion properties of anti-corrosion coatings based on surfactant-free latexes from anhydride-containing polymers. Progress in Organic Coatings, 2009, 65, 94-103.	1.9	21
118	Modified hydrotalcites for improved corrosion protection of reinforcing steel in concrete â€“ preparation, characterization, and assessment in alkaline chloride solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 721-738.	0.8	21
119	The Effect of Environmental Conditions on the Degradation Behavior of Biomass Pellets. Polymers, 2020, 12, 970.	2.0	21
120	Multifunctional ZrB2-rich Zr1-xCrxBy thin films with enhanced mechanical, oxidation, and corrosion properties. Vacuum, 2021, 185, 109990.	1.6	21
121	Adhesion at Al-hydroxide-polymer interfaces: Influence of chemistry and evidence for microscopic self-pinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5637-5647.	2.6	20
122	Electrochemical depth profiling of multilayer metallic structures: An aluminum brazing sheet. Electrochimica Acta, 2012, 77, 285-293.	2.6	20
123	Bonding Mechanisms at Buried Interfaces between Carboxylic Polymers and Treated Zinc Surfaces. Journal of Physical Chemistry C, 2013, 117, 2780-2792.	1.5	20
124	A combined electron probe micro analysis and scanning Kelvin probe force microscopy study of a modified AA4xxx/AA3xxx aluminium brazing sheet. Electrochimica Acta, 2013, 104, 48-63.	2.6	20
125	Simulated and measured response of oxygen SECM-measurements in presence of a corrosion process. Electrochimica Acta, 2014, 146, 556-563.	2.6	20
126	An in situ spectro-electrochemical monitoring of aqueous effects on polymer/metal oxide interfaces. Journal of Electroanalytical Chemistry, 2019, 848, 113311.	1.9	20

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127	Extrusion-based 3D printing of ex situ-alloyed highly biodegradable MRI-friendly porous iron-manganese scaffolds. Acta Biomaterialia, 2021, 134, 774-790.	4.1	20
128	Influence of uniaxial deformation on the corrosion performance of pre-coated packaging steel. Progress in Organic Coatings, 2007, 60, 335-342.	1.9	19
129	Oxygen consumption upon electrochemically polarised zinc. Journal of Applied Electrochemistry, 2014, 44, 747-757.	1.5	19
130	Self-Organized Anodic Oxides on Titanium Alloys Prepared from Glycol- and Glycerol-Based Electrolytes. Materials, 2020, 13, 4743.	1.3	19
131	Additive manufacturing of bioactive and biodegradable porous iron-akermanite composites for bone regeneration. Acta Biomaterialia, 2022, 148, 355-373.	4.1	19
132	The effect of riboflavin on the microbiologically influenced corrosion of pure iron by Shewanella oneidensis MR-1. Bioelectrochemistry, 2022, 147, 108173.	2.4	19
133	Validation of a fast scanning technique for corrosion inhibitor selection: influence of crossâ€contamination on AA2024â€T3. Surface and Interface Analysis, 2010, 42, 205-210.	0.8	18
134	Electrochemical analysis of the adsorption and desorption behaviors of carboxylic acid and anhydride monomers onto zinc surfaces. Electrochimica Acta, 2011, 56, 9317-9323.	2.6	18
135	Studying Chemisorption at Metalâ€“Polymer Interfaces by Complementary Use of Attenuated Total Reflectionâ€“Fourier Transform Infrared Spectroscopy (ATR-FTIR) in the Kretschmann Geometry and Visibleâ€“Infrared Sum-Frequency Generation Spectroscopy (SFG). Journal of Physical Chemistry C, 2020, 124, 7127-7138.	1.5	18
136	On the importance of time-resolved electrochemical evaluation in corrosion inhibitor-screening studies. Npj Materials Degradation, 2020, 4, .	2.6	18
137	Study Of Mercaptobenzimidazoles As Inhibitors For Copper Corrosion: Down to the Molecular Scale. Journal of the Electrochemical Society, 2021, 168, 051504.	1.3	18
138	A combined composition and morphology study of electrodeposited Znâ€“Co and Znâ€“Coâ€“Fe alloy coatings. Surface and Coatings Technology, 2008, 202, 2755-2764.	2.2	17
139	Influence of material related parameters in Sea Water Acidified Accelerated Test, reliability analysis and electrochemical evaluation of the test for aluminum brazing sheet. Corrosion Science, 2011, 53, 3923-3933.	3.0	16
140	Potentiodynamic anodizing of aluminum alloys in Cr(VI)â€free electrolytes. Surface and Interface Analysis, 2016, 48, 946-952.	0.8	16
141	Morphology and photoluminescence of nanostructured oxides grown by copper passivation in aqueous potassium hydroxide solution. Materials Letters, 2017, 198, 89-92.	1.3	16
142	Effect of zirconium-based conversion treatments of zinc, aluminium and magnesium on the chemisorption of ester-functionalized molecules. Applied Surface Science, 2020, 508, 145199.	3.1	16
143	Microstructural degradation during the storage of biomass pellets. Communications Materials, 2021, 2, .	2.9	16
144	Extrusion-based 3D printed magnesium scaffolds with multifunctional MgF₂and MgF₂â€“CaP coatings. Biomaterials Science, 2021, 9, 7159-7182.	2.6	16

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145	Editorsâ€™ Choiceâ€”Dealloying-Driven Cerium Precipitation on Intermetallic Particles in Aerospace Aluminium Alloys. Journal of the Electrochemical Society, 2021, 168, 041505.	1.3	16
146	Li leaching from Lithium Carbonate-primer: An emerging perspective of transport pathway development. Progress in Organic Coatings, 2019, 134, 103-118.	1.9	15
147	Cross-sectional characterization of the conversion layer formed on AA2024-T3 by a lithium-leaching coating. Applied Surface Science, 2020, 512, 145665.	3.1	15
148	Early stages during localized corrosion of AA2024 TEM specimens in chloride environment. Surface and Interface Analysis, 2013, 45, 1619-1625.	0.8	14
149	The role of acidâ€base properties in the interactions across the oxideâ€primer interface in aerospace applications. Surface and Interface Analysis, 2016, 48, 712-720.	0.8	14
150	Aerospace Coatings. Springer Series in Materials Science, 2016, , 315-372.	0.4	14
151	Particle Characterisation and Depletion of Li2CO3 Inhibitor in a Polyurethane Coating. Coatings, 2017, 7, 106.	1.2	14
152	Nanorods grown by copper anodizing in sodium carbonate. Journal of Electroanalytical Chemistry, 2020, 857, 113628.	1.9	14
153	Long-term deterioration of lubricant-infused nanoporous anodic aluminium oxide surface immersed in NaCl solution. Journal of Materials Science and Technology, 2021, 64, 57-65.	5.6	14
154	Experimental insights into anodic oxidation of hexafluoropropylene oxide dimer acid (GenX) on boron-doped diamond anodes. Chemosphere, 2022, 288, 132417.	4.2	14
155	Extrusion-based additive manufacturing of Mg-Zn alloy scaffolds. Journal of Magnesium and Alloys, 2022, 10, 2491-2509.	5.5	14
156	Comparative study of protection of AA 2024-T3 exposed to rare earth salts solutions. Corrosion Engineering Science and Technology, 2014, 49, 674-687.	0.7	13
157	Corrosion reduces wet abrasive wear of structural steel. Scripta Materialia, 2015, 107, 92-95.	2.6	13
158	Adhesive Bonding and Corrosion Performance Investigated as a Function of Aluminum Oxide Chemistry and Adhesives. Corrosion, 2017, 73, 903-914.	0.5	13
159	A Complementary Electrochemical Approach for Time-Resolved Evaluation of Corrosion Inhibitor Performance. Journal of the Electrochemical Society, 2019, 166, C3220-C3232.	1.3	13
160	Hydrogen sorption and desorption related properties of Pd-alloys determined by cyclic voltammetry. Journal of Electroanalytical Chemistry, 2014, 734, 53-60.	1.9	12
161	The effect of conversion bath convection on the formation of Zrâ€based thinâ€film coatings on multiâ€metal surfaces. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 361-367.	0.8	12
162	Laterally-resolved formation mechanism of a lithium-based conversion layer at the matrix and intermetallic particles in aerospace aluminium alloys. Corrosion Science, 2021, 190, 109651.	3.0	12

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163	Nanoscopic and in-situ cross-sectional observations of Li-based conversion coating formation using liquid-phase TEM. Npj Materials Degradation, 2021, 5, .	2.6	11
164	Filiform corrosion imaged beneath protection layers on Al alloys. Nuclear Instruments & Methods in Physics Research B, 2002, 190, 365-369.	0.6	10
165	A combined TEM and SKPFM investigation of the surface layers on rolled AA5050 aluminium alloy using ultraâ€microtomy. Surface and Interface Analysis, 2008, 40, 1157-1163.	0.8	10
166	Particle induced gamma and X-ray emission spectroscopies of lithium based alloy coatings. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 167-172.	0.6	10
167	Improved corrosion protection of titanium implant material by crystallographic texturing of Sr doped calcium phosphate electrodeposits. Thin Solid Films, 2019, 675, 115-121.	0.8	10
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