

Herman Terryn

List of Publications by Year in descending order

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543
papers

15,957
citations

15466

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42291

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552
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552
docs citations

552
times ranked

11686
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-action smart coatings with a self-healing superhydrophobic surface and anti-corrosion properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2355-2364.	5.2	413
2	Corrosion behaviour of different tempers of AA7075 aluminium alloy. <i>Electrochimica Acta</i> , 2004, 49, 2851-2862.	2.6	282
3	Formation of a cerium-based conversion coating on AA2024: relationship with the microstructure. <i>Surface and Coatings Technology</i> , 2004, 176, 365-381.	2.2	234
4	Effect of inclusions modified by rare earth elements (Ce, La) on localized marine corrosion in Q460NH weathering steel. <i>Corrosion Science</i> , 2017, 129, 82-90.	3.0	197
5	Influence of the anodizing temperature on the porosity and the mechanical properties of the porous anodic oxide film. <i>Surface and Coatings Technology</i> , 2007, 201, 7310-7317.	2.2	192
6	Electrochemical characterisation of aluminium AA7075-T6 and solution heat treated AA7075 using a micro-capillary cell. <i>Electrochimica Acta</i> , 2003, 48, 3239-3247.	2.6	163
7	Effect of solution heat treatment on galvanic coupling between intermetallics and matrix in AA7075-T6. <i>Corrosion Science</i> , 2003, 45, 1733-1746.	3.0	158
8	Interaction of Anhydride and Carboxylic Acid Compounds with Aluminum Oxide Surfaces Studied Using Infrared Reflection Absorption Spectroscopy. <i>Langmuir</i> , 2004, 20, 6308-6317.	1.6	155
9	Effect of bath concentration and curing time on the structure of non-functional thin organosilane layers on aluminium. <i>Electrochimica Acta</i> , 2003, 48, 1245-1255.	2.6	154
10	Triple-Action Self-Healing Protective Coatings Based on Shape Memory Polymers Containing Dual-Function Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23369-23379.	4.0	152
11	Role of Al ₂ O ₃ inclusions on the localized corrosion of Q460NH weathering steel in marine environment. <i>Corrosion Science</i> , 2018, 138, 96-104.	3.0	146
12	The role of crystal diversity in understanding mass transfer in nanoporous materials. <i>Nature Materials</i> , 2016, 15, 401-406.	13.3	142
13	A Generalized Electrochemical Aggregative Growth Mechanism. <i>Journal of the American Chemical Society</i> , 2013, 135, 11550-11561.	6.6	140
14	Correlation between hydroxyl fraction and O/Al atomic ratio as determined from XPS spectra of aluminium oxide layers. <i>Surface and Interface Analysis</i> , 2004, 36, 81-88.	0.8	137
15	Acid-Base Characterization of Aluminum Oxide Surfaces with XPS. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6017-6024.	1.2	137
16	XPS study of the atmospheric corrosion of copper alloys of archaeological interest. <i>Surface and Interface Analysis</i> , 2004, 36, 876-879.	0.8	130
17	Electrochemical synthesis of thin HKUST-1 layers on copper mesh. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 209-213.	2.2	126
18	Comparison of the morphology and corrosion performance of Cr(VI)- and Cr(III)-based conversion coatings on zinc. <i>Surface and Coatings Technology</i> , 2005, 199, 92-104.	2.2	124

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19	Inhibitor-loaded conducting polymer capsules for active corrosion protection of coating defects. <i>Corrosion Science</i> , 2016, 112, 138-149.	3.0	123
20	Dual-action self-healing protective coatings with photothermal responsive corrosion inhibitor nanocontainers. <i>Chemical Engineering Journal</i> , 2021, 404, 127118.	6.6	122
21	Colour properties of barrier anodic oxide films on aluminium and titanium studied with total reflectance and spectroscopic ellipsometry. <i>Surface and Coatings Technology</i> , 2004, 185, 303-310.	2.2	120
22	SKPFM and SEM study of the deposition mechanism of Zr/Ti based pre-treatment on AA6016 aluminum alloy. <i>Surface and Coatings Technology</i> , 2007, 201, 7668-7685.	2.2	120
23	New Insights into the Early Stages of Nanoparticle Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2322-2329.	1.5	118
24	Influence of substrate microstructure on the growth of anodic oxide layers. <i>Electrochimica Acta</i> , 2004, 49, 1127-1140.	2.6	114
25	Influence of the Iron Oxide Acid-Base Properties on the Chemisorption of Model Epoxy Compounds Studied by XPS. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13177-13184.	1.5	108
26	A Shape-Recovery Polymer Coating for the Corrosion Protection of Metallic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 175-183.	4.0	106
27	A transmission electron microscopy study of hard anodic oxide layers on AlSi(Cu) alloys. <i>Electrochimica Acta</i> , 2004, 49, 3169-3177.	2.6	101
28	A Review on Anodizing of Aerospace Aluminum Alloys for Corrosion Protection. <i>Coatings</i> , 2020, 10, 1106.	1.2	100
29	SECM study of defect repair in self-healing polymer coatings on metals. <i>Electrochemistry Communications</i> , 2011, 13, 169-173.	2.3	89
30	Study of the Self-Assembling of <i>n</i> -Octylphosphonic Acid Layers on Aluminum Oxide. <i>Langmuir</i> , 2008, 24, 13450-13456.	1.6	88
31	Scanning electrochemical microscopy to study the effect of crystallographic orientation on the electrochemical activity of pure copper. <i>Electrochimica Acta</i> , 2014, 116, 89-96.	2.6	87
32	A Close-up of the Effect of Iron Oxide Type on the Interfacial Interaction between Epoxy and Carbon Steel: Combined Molecular Dynamics Simulations and Quantum Mechanics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11014-11026.	1.5	87
33	Determination of the thickness of thin silane films on aluminium surfaces by means of spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2001, 384, 37-45.	0.8	86
34	Improving the adhesion between epoxy coatings and aluminium substrates. <i>Progress in Organic Coatings</i> , 2004, 51, 339-350.	1.9	86
35	Investigation of the barrier properties of silanes on cold rolled steel. <i>Electrochimica Acta</i> , 2004, 49, 2997-3004.	2.6	86
36	Silane coating of metal substrates: Complementary use of electrochemical, optical and thermal analysis for the evaluation of film properties. <i>Progress in Organic Coatings</i> , 2007, 59, 224-229.	1.9	86

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37	Characterization of chromate conversion coatings on zinc using XPS and SKPFM. Surface and Coatings Technology, 2005, 197, 168-176.	2.2	84
38	Transversal Load Sensing With Fiber Bragg Gratings in Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2009, 21, 6-8.	1.3	83
39	Interaction of Ester Functional Groups with Aluminum Oxide Surfaces Studied Using Infrared Reflection Absorption Spectroscopy. Langmuir, 2004, 20, 6318-6326.	1.6	82
40	Initiation and growth of modified Zr-based conversion coatings on multi-metal surfaces. Surface and Coatings Technology, 2013, 236, 284-289.	2.2	82
41	<i>In situ</i> electrochromic efficiency of a nickel oxide thin film: origin of electrochemical process and electrochromic degradation. Journal of Materials Chemistry C, 2018, 6, 646-653.	2.7	82
42	Towards understanding and prediction of atmospheric corrosion of an Fe/Cu corrosion sensor via machine learning. Corrosion Science, 2020, 170, 108697.	3.0	82
43	Investigation of the self-healing properties of shape memory polyurethane coatings with the $\hat{\epsilon}$ odd random phase multisine TM electrochemical impedance spectroscopy. Electrochimica Acta, 2010, 55, 6195-6203.	2.6	81
44	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
45	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
46	Electronic properties of thermally formed thin iron oxide films. Electrochimica Acta, 2007, 52, 7617-7625.	2.6	76
47	Unravelling the Chemical Influence of Water on the PMMA/Aluminum Oxide Hybrid Interface In Situ. Scientific Reports, 2017, 7, 13341.	1.6	76
48	Investigation of anodic aluminium oxide layers by electrochemical impedance spectroscopy. Journal of Applied Electrochemistry, 1990, 20, 798-803.	1.5	75
49	Composition and thickness of non-functional organosilane films coated on aluminium studied by means of infra-red spectroscopic ellipsometry. Thin Solid Films, 2003, 441, 76-84.	0.8	75
50	Ageing of aluminium oxide surfaces and their subsequent reactivity towards bonding with organic functional groups. Applied Surface Science, 2004, 235, 465-474.	3.1	75
51	Comprehensive Study of the Electrodeposition of Nickel Nanostructures from Deep Eutectic Solvents: Self-Limiting Growth by Electrolysis of Residual Water. Journal of Physical Chemistry C, 2017, 121, 9337-9347.	1.5	75
52	On the importance of irreversibility of corrosion inhibitors for active coating protection of AA2024-T3. Corrosion Science, 2018, 140, 272-285.	3.0	75
53	XPS investigations on cesium uranates: mixed valency behaviour of uranium. Journal of Nuclear Materials, 2000, 277, 28-36.	1.3	73
54	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

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55	Dealloying-driven local corrosion by intermetallic constituent particles and dispersoids in aerospace aluminium alloys. <i>Corrosion Science</i> , 2020, 177, 108947.	3.0	73
56	Corrosion protection properties and interfacial adhesion mechanism of an epoxy/polyamide coating applied on the steel surface decorated with cerium oxide nanofilm: Complementary experimental, molecular dynamics (MD) and first principle quantum mechanics (QM) simulation methods. <i>Applied Surface Science</i> , 2017, 419, 650-669.	3.1	69
57	Study of initiation and development of local burning phenomena during anodizing of aluminium under controlled convection. <i>Electrochimica Acta</i> , 2008, 54, 270-279.	2.6	68
58	A comparison of the interfacial bonding properties of carboxylic acid functional groups on zinc and iron substrates. <i>Electrochimica Acta</i> , 2011, 56, 1904-1911.	2.6	68
59	Stability, Assembly, and Particle/Solvent Interactions of Pd Nanoparticles Electrodeposited from a Deep Eutectic Solvent. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14381-14389.	1.5	68
60	Shape memory composite (SMC) self-healing coatings for corrosion protection. <i>Progress in Organic Coatings</i> , 2016, 97, 261-268.	1.9	68
61	Inhibitor evaluation in different simulated concrete pore solution for the protection of steel rebars. <i>Construction and Building Materials</i> , 2016, 124, 887-896.	3.2	68
62	Effect of surface roughness and chemistry on the adhesion and durability of a steel-epoxy adhesive interface. <i>International Journal of Adhesion and Adhesives</i> , 2020, 96, 102450.	1.4	68
63	Study of the effect of different aluminium surface pretreatments on the deposition of thin non-functional silane coatings. <i>Surface and Interface Analysis</i> , 2004, 36, 681-684.	0.8	66
64	Chromate Conversion Coating on Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2004, 151, B59.	1.3	65
65	A combined mechanical, microscopic and local electrochemical evaluation of self-healing properties of shape-memory polyurethane coatings. <i>Electrochimica Acta</i> , 2011, 56, 9619-9626.	2.6	65
66	IRSE study on effect of thermal curing on the chemistry and thickness of organosilane films coated on aluminium. <i>Applied Surface Science</i> , 2003, 211, 259-269.	3.1	64
67	Micro-Raman spectroscopy for the study of corrosion products on copper alloys: setting up of a reference database and studying works of art. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 732-738.	1.2	64
68	Lithium salts as leachable corrosion inhibitors and potential replacement for hexavalent chromium in organic coatings for the protection of aluminum alloys. <i>Journal of Coatings Technology Research</i> , 2016, 13, 557-566.	1.2	61
69	A closer look at constituent induced localised corrosion in Al-Cu-Mg alloys. <i>Corrosion Science</i> , 2016, 113, 160-171.	3.0	61
70	Tunable nanoporous silicon oxide templates by swift heavy ion tracks technology. <i>Nanotechnology</i> , 2016, 27, 115305.	1.3	61
71	Water Adsorption and Dissociation on Polycrystalline Copper Oxides: Effects of Environmental Contamination and Experimental Protocol. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1000-1008.	1.2	61
72	In-situ nanoscopic observations of dealloying-driven local corrosion from surface initiation to in-depth propagation. <i>Corrosion Science</i> , 2020, 177, 108912.	3.0	61

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73	A Review on Adhesively Bonded Aluminium Joints in the Automotive Industry. <i>Metals</i> , 2020, 10, 730.	1.0	61
74	TFAA chemical derivatization and XPS. Analysis of OH and NHx polymers. <i>Surface and Interface Analysis</i> , 2009, 41, 421-429.	0.8	60
75	Effect of neighboring grains on the microscopic corrosion behavior of a grain in polycrystalline copper. <i>Corrosion Science</i> , 2013, 67, 179-183.	3.0	60
76	Micro Raman spectroscopy used for the study of corrosion products on copper alloys: study of the chemical composition of artificial patinas used for restoration purposes. <i>Analyst, The</i> , 2005, 130, 550.	1.7	58
77	Characterization of thin water-based silane pre-treatments on aluminium with the incorporation of nano-dispersed CeO ₂ particles. <i>Surface and Coatings Technology</i> , 2010, 205, 603-613.	2.2	58
78	Self-healing property characterization of reversible thermoset coatings. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 805-809.	2.0	58
79	The Role of Nanocluster Aggregation, Coalescence, and Recrystallization in the Electrochemical Deposition of Platinum Nanostructures. <i>Chemistry of Materials</i> , 2014, 26, 2396-2406.	3.2	58
80	Electrodeposition of Ag nanoparticles onto carbon coated TEM grids A direct approach to study early stages of nucleation. <i>Electrochemistry Communications</i> , 2010, 12, 1706-1709.	2.3	57
81	Cut-edge corrosion study on painted aluminum rich metallic coated steel by scanning vibrating electrode and micro-potentiometric techniques. <i>Electrochimica Acta</i> , 2012, 61, 107-117.	2.6	57
82	Texture comparison between room temperature rolled and cryogenically rolled pure copper. <i>Acta Materialia</i> , 2015, 95, 224-235.	3.8	57
83	Detailed characterisation of the flow resistance of commercial sub-2 $\frac{1}{4}$ m reversed-phase columns. <i>Journal of Chromatography A</i> , 2008, 1178, 108-117.	1.8	56
84	Late antique glass distribution and consumption in Cyprus: a chemical study. <i>Journal of Archaeological Science</i> , 2015, 61, 213-222.	1.2	55
85	Towards a better understanding of localised corrosion induced by typical non-metallic inclusions in low-alloy steels. <i>Corrosion Science</i> , 2021, 179, 109150.	3.0	55
86	Study of the Composition of Zirconium based Chromium free Conversion Layers on Aluminium. <i>Transactions of the Institute of Metal Finishing</i> , 1995, 73, 91-95.	0.6	53
87	Characterisation of conversion layers on aluminium by means of electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 1995, 40, 479-486.	2.6	53
88	Influence of Local Heat Development on Film Thickness for Anodizing Aluminum in Sulfuric Acid. <i>Journal of the Electrochemical Society</i> , 2003, 150, B158.	1.3	53
89	The influence of copper content on intergranular corrosion of model AlMgSi(Cu) alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2008, 59, 670-675.	0.8	52
90	Influence of surface hydroxyls on the formation of Zr-based conversion coatings on AA6014 aluminum alloy. <i>Surface and Coatings Technology</i> , 2014, 254, 277-283.	2.2	52

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91	Protective Film Formation on AA2024-T3 Aluminum Alloy by Leaching of Lithium Carbonate from an Organic Coating. <i>Journal of the Electrochemical Society</i> , 2016, 163, C45-C53.	1.3	52
92	On controlling the anodic electrochemical film deposition of HKUST-1 metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 302-310.	2.2	52
93	Cathodic delamination of polyurethane films on oxide covered steel – Combined adhesion and interface electrochemical studies. <i>Corrosion Science</i> , 2009, 51, 1664-1670.	3.0	51
94	Optical properties of thin iron oxide films on steel. <i>Surface and Interface Analysis</i> , 2006, 38, 489-493.	0.8	50
95	Atmospheric corrosion modeling. <i>Corrosion Reviews</i> , 2014, 32, 73-100.	1.0	50
96	Electrochemical Evaluation of Corrosion Inhibiting Layers Formed in a Defect from Lithium-Leaching Organic Coatings. <i>Journal of the Electrochemical Society</i> , 2017, 164, C396-C406.	1.3	50
97	Study of the formation of a protective layer in a defect from lithium-leaching organic coatings. <i>Progress in Organic Coatings</i> , 2016, 99, 80-90.	1.9	49
98	Towards Cr(VI)-free anodization of aluminum alloys for aerospace adhesive bonding applications: A review. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 465-482.	2.3	49
99	Effects of Zinc Surface Acid-Based Properties on Formation Mechanisms and Interfacial Bonding Properties of Zirconium-Based Conversion Layers. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8426-8436.	1.5	48
100	An integrated modeling approach for atmospheric corrosion in presence of a varying electrolyte film. <i>Electrochimica Acta</i> , 2016, 187, 714-723.	2.6	48
101	Zirconium-based conversion film formation on zinc, aluminium and magnesium oxides and their interactions with functionalized molecules. <i>Applied Surface Science</i> , 2017, 423, 817-828.	3.1	48
102	Atomistic Insight into the Electrochemical Double Layer of Choline Chloride-Urea Deep Eutectic Solvents: Clustered Interfacial Structuring. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6296-6304.	2.1	48
103	Comparison between the influence of applied electrode and electrolyte temperatures on porous anodizing of aluminium. <i>Electrochimica Acta</i> , 2010, 55, 3957-3965.	2.6	47
104	Durable lubricant-infused anodic aluminum oxide surfaces with high-aspect-ratio nanochannels. <i>Chemical Engineering Journal</i> , 2019, 368, 138-147.	6.6	47
105	Role of Surface Oxide Properties on the Aluminum/Epoxy Interfacial Bonding. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4480-4487.	1.5	46
106	A Green, Simple Chemical Route for the Synthesis of Pure Nanocalcite Crystals. <i>Crystal Growth and Design</i> , 2015, 15, 573-580.	1.4	45
107	Reviewing machine learning of corrosion prediction in a data-oriented perspective. <i>Npj Materials Degradation</i> , 2022, 6, .	2.6	45
108	Development of an optical model for steady state porous anodic films on aluminium formed in phosphoric acid. <i>Thin Solid Films</i> , 1998, 320, 241-252.	0.8	44

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109	XPS Analysis of the Surface Chemistry and Interfacial Bonding of Barrier-Type Cr(VI)-Free Anodic Oxides. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19967-19975.	1.5	44
110	Effect of Anodic Aluminum Oxide Chemistry on Adhesive Bonding of Epoxy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19670-19677.	1.5	44
111	Probing the formation and degradation of chemical interactions from model molecule/metal oxide to buried polymer/metal oxide interfaces. <i>Npj Materials Degradation</i> , 2019, 3, .	2.6	44
112	Hydrogen chloride removal from hydrogen gas by adsorption on hydrated ion-exchanged zeolites. <i>Chemical Engineering Journal</i> , 2020, 381, 122512.	6.6	44
113	The effect of surface pre-conditioning treatments on the local composition of Zr-based conversion coatings formed on aluminium alloys. <i>Applied Surface Science</i> , 2016, 366, 339-347.	3.1	43
114	Influence of water content and applied potential on the electrodeposition of Ni coatings from deep eutectic solvents. <i>Electrochimica Acta</i> , 2019, 319, 690-704.	2.6	43
115	N-Doped TiO ₂ Photocatalyst Coatings Synthesized by a Cold Atmospheric Plasma. <i>Langmuir</i> , 2019, 35, 7161-7168.	1.6	43
116	Highly Robust MOF Polymeric Beads with a Controllable Size for Molecular Separations. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13694-13703.	4.0	43
117	Odd random phase multisine EIS for organic coating analysis. <i>Progress in Organic Coatings</i> , 2010, 69, 215-218.	1.9	42
118	Iron speciation in soda-lime-silica glass: a comparison of XANES and UV-vis-NIR spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1552-1561.	1.6	42
119	The influence of a Zr-based conversion treatment on interfacial bonding strength and stability of epoxy coated carbon steel. <i>Progress in Organic Coatings</i> , 2017, 105, 29-36.	1.9	42
120	New insights into the mechanism of localised corrosion induced by TiN-containing inclusions in high strength low alloy steel. <i>Journal of Materials Science and Technology</i> , 2022, 124, 141-149.	5.6	42
121	Fabrication and Chromatographic Performance of Porous-Shell Pillar-Array Columns. <i>Analytical Chemistry</i> , 2010, 82, 7208-7217.	3.2	41
122	Bragg Grating Inscription in GeO ₂ -Doped Microstructured Optical Fibers. <i>Journal of Lightwave Technology</i> , 2010, 28, 1459-1467.	2.7	41
123	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. <i>Electrochimica Acta</i> , 2013, 88, 330-339.	2.6	41
124	Double Perovskite Sr ₂ FeMoO ₆ Films Prepared by Electrophoretic Deposition. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19201-19206.	4.0	41
125	Geometry influence on corrosion in dynamic thin film electrolytes. <i>Electrochimica Acta</i> , 2016, 209, 149-158.	2.6	40
126	Chromate Conversion Coating on Aluminum Alloys. <i>Journal of the Electrochemical Society</i> , 2004, 151, B370.	1.3	39

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127	Influence of the surface pre-treatment prior to the film synthesis, on the corrosion protection of iron with polypyrrole films. <i>Electrochimica Acta</i> , 2006, 51, 1695-1703.	2.6	39
128	Electrodeposition of Zn-Co and Zn-Co-Fe alloys from acidic chloride electrolytes. <i>Surface and Coatings Technology</i> , 2007, 202, 84-90.	2.2	39
129	Scanning Kelvin Probe Study of (Oxyhydr)oxide Surface of Aluminum Alloy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1805-1811.	1.5	39
130	Mechanism of Passive Layer Formation on AA2024-T3 from Alkaline Lithium Carbonate Solutions in the Presence of Sodium Chloride. <i>Journal of the Electrochemical Society</i> , 2018, 165, C60-C70.	1.3	39
131	Use of optical methods to characterize thin silane films coated on aluminium. <i>Surface and Interface Analysis</i> , 2002, 34, 25-29.	0.8	38
132	Using Raman spectroscopy as a tool for the detection of iron in glass. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1789-1795.	1.2	38
133	Characterization of various aluminium oxide layers by means of spectroscopic ellipsometry. <i>Applied Physics A: Solids and Surfaces</i> , 1992, 54, 72-78.	1.4	37
134	Control Over the Pressure Sensitivity of Bragg Grating-Based Sensors in Highly Birefringent Microstructured Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 527-529.	1.3	37
135	Mechanism of corrosion protection of hot-dip aluminium-silicon coatings on steel studied by electrochemical depth profiling. <i>Corrosion Science</i> , 2013, 76, 325-336.	3.0	37
136	Compositional study of a corrosion protective layer formed by leachable lithium salts in a coating defect on AA2024-T3 aluminium alloys. <i>Progress in Organic Coatings</i> , 2018, 119, 65-75.	1.9	37
137	ATR-FTIR in Kretschmann configuration integrated with electrochemical cell as in situ interfacial sensitive tool to study corrosion inhibitors for magnesium substrates. <i>Electrochimica Acta</i> , 2020, 345, 136166.	2.6	37
138	Kinetic plot and particle size distribution analysis to discuss the performance limits of sub-2 μ m and supra-2 μ m particle columns. <i>Journal of Chromatography A</i> , 2008, 1204, 1-10.	1.8	36
139	Comparison between wet deposition and plasma deposition of silane coatings on aluminium. <i>Progress in Organic Coatings</i> , 2010, 69, 126-132.	1.9	36
140	Atomic force microscopy-based study of self-healing coatings based on reversible polymer network systems. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 40-46.	1.4	36
141	In Situ Scanning Tunneling Microscopy Study of Grain-Dependent Corrosion on Microcrystalline Copper. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25421-25428.	1.5	36
142	An in situ study of zirconium-based conversion treatment on zinc surfaces. <i>Applied Surface Science</i> , 2015, 356, 837-843.	3.1	36
143	In Situ Characterization of the Initial Effect of Water on Molecular Interactions at the Interface of Organic/Inorganic Hybrid Systems. <i>Scientific Reports</i> , 2017, 7, 45123.	1.6	36
144	Review on modelling of corrosion under droplet electrolyte for predicting atmospheric corrosion rate. <i>Journal of Materials Science and Technology</i> , 2021, 62, 254-267.	5.6	36

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145	Cathodic inhibition and anomalous electrodeposition of Zn-Co alloys. <i>Electrochimica Acta</i> , 2007, 52, 5444-5452.	2.6	35
146	The formation and characterisation of ultra-thin films containing Ag nanoparticles. <i>Journal of Materials Chemistry</i> , 2008, 18, 199-206.	6.7	35
147	The kinetic analysis of isothermal curing reaction of an epoxy resin-glassflake nanocomposite. <i>Thermochimica Acta</i> , 2012, 549, 81-86.	1.2	35
148	Evaluation of the Yasuda parameter for the atmospheric plasma deposition of allyl methacrylate. <i>RSC Advances</i> , 2015, 5, 27449-27457.	1.7	35
149	Growth mechanisms of spatially separated copper dendrites in pores of a SiO ₂ template. <i>Philosophical Magazine</i> , 2017, 97, 2268-2283.	0.7	35
150	The electrograining of aluminium in hydrochloric acid. II. Formation of ETCH products. <i>Corrosion Science</i> , 1991, 32, 1173-1188.	3.0	34
151	Quantitative chemical composition of thin films with infrared spectroscopic ellipsometry: application to hydrated oxide films on aluminium. <i>Surface and Interface Analysis</i> , 2003, 35, 387-394.	0.8	34
152	Silane solution stability and film morphology of water-based bis-1,2-(triethoxysilyl)ethane for thin-film deposition on aluminium. <i>Progress in Organic Coatings</i> , 2008, 63, 38-42.	1.9	34
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