

Mf Montemor

List of Publications by Year in descending order

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259
papers

15,518
citations

11646

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21539

114
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267
all docs

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docs citations

267
times ranked

9753
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional and smart coatings for corrosion protection: A review of recent advances. <i>Surface and Coatings Technology</i> , 2014, 258, 17-37.	4.8	808
2	Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. <i>Electrochimica Acta</i> , 2005, 51, 208-217.	5.2	498
3	Chloride-induced corrosion on reinforcing steel: from the fundamentals to the monitoring techniques. <i>Cement and Concrete Composites</i> , 2003, 25, 491-502.	10.7	398
4	Capacitance behaviour of passive films on ferritic and austenitic stainless steel. <i>Corrosion Science</i> , 2005, 47, 581-591.	6.6	288
5	High effective organic corrosion inhibitors for 2024 aluminium alloy. <i>Electrochimica Acta</i> , 2007, 52, 7231-7247.	5.2	287
6	Evaluation of self-healing ability in protective coatings modified with combinations of layered double hydroxides and cerium molybdate nanocontainers filled with corrosion inhibitors. <i>Electrochimica Acta</i> , 2012, 60, 31-40.	5.2	263
7	Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3. <i>Surface and Coatings Technology</i> , 2006, 200, 3084-3094.	4.8	253
8	Novel hybrid sol-gel coatings for corrosion protection of AZ31B magnesium alloy. <i>Electrochimica Acta</i> , 2008, 53, 4773-4783.	5.2	253
9	Metal Oxide and Hydroxide-Based Aqueous Supercapacitors: From Charge Storage Mechanisms and Functional Electrode Engineering to Need-Tailored Devices. <i>Advanced Science</i> , 2019, 6, 1801797.	11.2	250
10	Chemical composition and corrosion protection of silane films modified with CeO ₂ nanoparticles. <i>Electrochimica Acta</i> , 2009, 54, 5179-5189.	5.2	245
11	Zn-Al layered double hydroxides as chloride nanotraps in active protective coatings. <i>Corrosion Science</i> , 2012, 55, 1-4.	6.6	242
12	The passive behaviour of AISI 316 in alkaline media and the effect of pH: A combined electrochemical and analytical study. <i>Electrochimica Acta</i> , 2010, 55, 6174-6181.	5.2	220
13	Electrochemical assessment of the self-healing properties of Ce-doped silane solutions for the pre-treatment of galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2005, 54, 276-284.	3.9	218
14	The electrochemical behaviour of stainless steel AISI 304 in alkaline solutions with different pH in the presence of chlorides. <i>Electrochimica Acta</i> , 2011, 56, 5280-5289.	5.2	213
15	Silanes and rare earth salts as chromate replacers for pre-treatments on galvanised steel. <i>Electrochimica Acta</i> , 2004, 49, 2927-2935.	5.2	211
16	Electrochemical study of modified bis-[triethoxysilylpropyl] tetrasulfide silane films applied on the AZ31 Mg alloy. <i>Electrochimica Acta</i> , 2007, 52, 7486-7495.	5.2	208
17	Semiconducting properties of thermally grown oxide films on AISI 304 stainless steel. <i>Corrosion Science</i> , 2000, 42, 687-702.	6.6	202
18	Chemical composition and electronic structure of the oxide films formed on 316L stainless steel and nickel based alloys in high temperature aqueous environments. <i>Corrosion Science</i> , 2000, 42, 1635-1650.	6.6	191

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19	Characterization of rare-earth conversion films formed on the AZ31 magnesium alloy and its relation with corrosion protection. <i>Applied Surface Science</i> , 2007, 253, 6922-6931.	6.1	190
20	Hydroxyapatite Microparticles as Feedback-Active Reservoirs of Corrosion Inhibitors. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3011-3022.	8.0	187
21	Oxide nanoparticle reservoirs for storage and prolonged release of the corrosion inhibitors. <i>Electrochemistry Communications</i> , 2005, 7, 836-840.	4.7	177
22	“SMART”-protective ability of water based epoxy coatings loaded with CaCO ₃ microbeads impregnated with corrosion inhibitors applied on AA2024 substrates. <i>Electrochimica Acta</i> , 2012, 83, 439-447.	5.2	177
23	The use of pre-treatments based on doped silane solutions for improved corrosion resistance of galvanised steel substrates. <i>Surface and Coatings Technology</i> , 2006, 200, 4240-4250.	4.8	167
24	Hybrid epoxy-silane coatings for improved corrosion protection of Mg alloy. <i>Corrosion Science</i> , 2013, 67, 82-90.	6.6	162
25	Influence of incorporated Mo and Nb on the Mott-Schottky behaviour of anodic films formed on AISI 304L. <i>Corrosion Science</i> , 2010, 52, 2813-2818.	6.6	156
26	The corrosion resistance of hot dip galvanised steel and AA2024-T3 pre-treated with bis-[triethoxysilylpropyl] tetrasulfide solutions doped with Ce(NO ₃) ₃ . <i>Corrosion Science</i> , 2006, 48, 3740-3758.	6.6	155
27	Cerium salt activated nanoparticles as fillers for silane films: Evaluation of the corrosion inhibition performance on galvanised steel substrates. <i>Electrochimica Acta</i> , 2007, 52, 6976-6987.	5.2	147
28	The role of Mo in the chemical composition and semiconductive behaviour of oxide films formed on stainless steels. <i>Corrosion Science</i> , 1999, 41, 17-34.	6.6	142
29	Effect of fly ash on concrete reinforcement corrosion studied by EIS. <i>Cement and Concrete Composites</i> , 2000, 22, 175-185.	10.7	137
30	Corrosion resistance of a composite polymeric coating applied on biodegradable AZ31 magnesium alloy. <i>Acta Biomaterialia</i> , 2013, 9, 8660-8670.	8.3	136
31	Self-healing ceria-modified coating for corrosion protection of AZ31 magnesium alloy. <i>Corrosion Science</i> , 2018, 142, 12-21.	6.6	134
32	Electrochemical and analytical investigation of passive films formed on stainless steels in alkaline media. <i>Cement and Concrete Composites</i> , 2012, 34, 1075-1081.	10.7	131
33	Corrosion Behavior of Stainless Steel Rebars Embedded in Concrete: an Electrochemical Impedance Spectroscopy Study. <i>Electrochimica Acta</i> , 2014, 124, 218-224.	5.2	129
34	Layered Ni(OH) ₂ -Co(OH) ₂ films prepared by electrodeposition as charge storage electrodes for hybrid supercapacitors. <i>Scientific Reports</i> , 2017, 7, 39980.	3.3	126
35	Study of passive films formed on mild steel in alkaline media by the application of anodic potentials. <i>Materials Chemistry and Physics</i> , 2009, 114, 962-972.	4.0	125
36	Analytical characterization of silane films modified with cerium activated nanoparticles and its relation with the corrosion protection of galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2008, 63, 330-337.	3.9	124

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37	The synergistic combination of bis-silane and CeO ₂ -ZrO ₂ nanoparticles on the electrochemical behaviour of galvanised steel in NaCl solutions. <i>Electrochimica Acta</i> , 2008, 53, 5913-5922.	5.2	120
38	TiO _x self-assembled networks prepared by templating approach as nanostructured reservoirs for self-healing anticorrosion pre-treatments. <i>Electrochemistry Communications</i> , 2006, 8, 421-428.	4.7	116
39	Composition and corrosion behaviour of galvanised steel treated with rare-earth salts: the effect of the cation. <i>Progress in Organic Coatings</i> , 2002, 44, 111-120.	3.9	115
40	Self healing ability of inhibitor-containing nanocapsules loaded in epoxy coatings applied on aluminium 5083 and galvanized substrates. <i>Electrochimica Acta</i> , 2014, 140, 282-293.	5.2	114
41	Composition and behaviour of cerium films on galvanised steel. <i>Progress in Organic Coatings</i> , 2001, 43, 274-281.	3.9	111
42	The combined use of scanning vibrating electrode technique and micro-potentiometry to assess the self-repair processes in defects on "smart" coatings applied to galvanized steel. <i>Electrochimica Acta</i> , 2011, 56, 4475-4488.	5.2	111
43	Modification of bis-silane solutions with rare-earth cations for improved corrosion protection of galvanized steel substrates. <i>Progress in Organic Coatings</i> , 2006, 57, 67-77.	3.9	109
44	Corrosion behaviour of rebars in fly ash mortar exposed to carbon dioxide and chlorides. <i>Cement and Concrete Composites</i> , 2002, 24, 45-53.	10.7	108
45	The corrosion resistance of hot dip galvanized steel pretreated with Bis-functional silanes modified with microsilica. <i>Surface and Coatings Technology</i> , 2006, 200, 2875-2885.	4.8	103
46	Anti-corrosion performance of a new silane coating for corrosion protection of AZ31 magnesium alloy in Hank's solution. <i>Surface and Coatings Technology</i> , 2012, 206, 4368-4375.	4.8	103
47	A comparative study on the corrosion resistance of AA2024-T3 substrates pre-treated with different silane solutions. <i>Progress in Organic Coatings</i> , 2005, 54, 322-331.	3.9	99
48	Composition and corrosion resistance of cerium conversion films on the AZ31 magnesium alloy and its relation to the salt anion. <i>Applied Surface Science</i> , 2008, 254, 1806-1814.	6.1	99
49	An electrochemical and analytical approach to the inhibition mechanism of an amino-alcohol-based corrosion inhibitor for reinforced concrete. <i>Electrochimica Acta</i> , 2003, 48, 3509-3518.	5.2	98
50	Electrochemical study of modified non-functional bis-silane layers on Al alloy 2024-T3. <i>Corrosion Science</i> , 2008, 50, 1258-1266.	6.6	97
51	Coffee-derived activated carbon from second biowaste for supercapacitor applications. <i>Waste Management</i> , 2021, 120, 280-289.	7.4	97
52	Multiprobe chloride sensor for in situ monitoring of reinforced concrete structures. <i>Cement and Concrete Composites</i> , 2006, 28, 233-236.	10.7	96
53	Epoxy coatings modified with a new cerium phosphate inhibitor for smart corrosion protection of steel. <i>Corrosion Science</i> , 2019, 159, 108128.	6.6	95
54	Electrochemical behaviour of amino alcohol-based inhibitors used to control corrosion of reinforcing steel. <i>Electrochimica Acta</i> , 2004, 49, 2753-2760.	5.2	87

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55	Analytical characterisation and corrosion behaviour of bis-[triethoxysilylpropyl]tetrasulphide pre-treated AA2024-T3. <i>Corrosion Science</i> , 2005, 47, 869-881.	6.6	87
56	An electrochemical and analytical assessment on the early corrosion behaviour of galvanised steel pretreated with aminosilanes. <i>Surface and Coatings Technology</i> , 2005, 192, 284-290.	4.8	86
57	Electrodeposition and characterization of polypyrrole films on aluminium alloy 6061-T6. <i>Electrochimica Acta</i> , 2008, 53, 4754-4763.	5.2	86
58	Electrodeposition and characterization of nickel-copper metallic foams for application as electrodes for supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 455-465.	2.9	86
59	pH-sensitive polymeric particles with increased inhibitor-loading capacity as smart additives for corrosion protective coatings for AA2024. <i>Electrochimica Acta</i> , 2014, 145, 123-131.	5.2	85
60	Silane/TiO ₂ coating to control the corrosion rate of magnesium alloys in simulated body fluid. <i>Corrosion Science</i> , 2016, 104, 152-161.	6.6	85
61	Large-scale synthesis of free-standing N-doped graphene using microwave plasma. <i>Scientific Reports</i> , 2018, 8, 12595.	3.3	85
62	Novel smart and self-healing cerium phosphate-based corrosion inhibitor for AZ31 magnesium alloy. <i>Corrosion Science</i> , 2020, 170, 108648.	6.6	85
63	Multifunctional epoxy coatings combining a mixture of traps and inhibitor loaded nanocontainers for corrosion protection of AA2024-T3. <i>Corrosion Science</i> , 2014, 85, 147-159.	6.6	82
64	Electrochemical study of modified cerium-silane bi-layer on Al alloy 2024-T3. <i>Corrosion Science</i> , 2009, 51, 1238-1250.	6.6	80
65	Chemical composition and semiconducting behaviour of stainless steel passive films in contact with artificial seawater. <i>Corrosion Science</i> , 1998, 40, 481-494.	6.6	76
66	Analytical Characterization of the Passive Film Formed on Steel in Solutions Simulating the Concrete Interstitial Electrolyte. <i>Corrosion</i> , 1998, 54, 347-353.	1.1	76
67	Comparison of the synergistic effects of inhibitor mixtures tailored for enhanced corrosion protection of bare and coated AA2024-T3. <i>Surface and Coatings Technology</i> , 2016, 303, 342-351.	4.8	76
68	Properties enhancement of Ni-P electrodeposited coatings by the incorporation of nanoscale Y ₂ O ₃ particles. <i>Applied Surface Science</i> , 2018, 457, 956-967.	6.1	76
69	The corrosion performance of organosilane based pre-treatments for coatings on galvanised steel. <i>Progress in Organic Coatings</i> , 2000, 38, 17-26.	3.9	74
70	Electrochemical and analytical study of corrosion inhibition on carbon steel in HCl medium by 1,12-bis(1,2,4-triazolyl)dodecane. <i>Corrosion Science</i> , 2005, 47, 447-459.	6.6	74
71	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. <i>Surface and Coatings Technology</i> , 2019, 372, 121-133.	4.8	74
72	Analytical characterisation and corrosion behaviour of bis-aminosilane coatings modified with carbon nanotubes activated with rare-earth salts applied on AZ31 Magnesium alloy. <i>Surface and Coatings Technology</i> , 2008, 202, 4766-4774.	4.8	72

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73	Ni _x Co _{1-x} (OH) ₂ nanosheets on carbon nanofoam paper as high areal capacity electrodes for hybrid supercapacitors. <i>Energy</i> , 2017, 126, 208-216.	8.8	69
74	Corrosion behaviour of reinforcing steel exposed to an amino alcohol based corrosion inhibitor. <i>Cement and Concrete Composites</i> , 2005, 27, 671-678.	10.7	68
75	Tannin: A natural corrosion inhibitor for aluminum alloys. <i>Progress in Organic Coatings</i> , 2019, 135, 368-381.	3.9	67
76	Galvanic coupling between carbon steel and austenitic stainless steel in alkaline media. <i>Electrochimica Acta</i> , 2002, 47, 2271-2279.	5.2	65
77	The corrosion behaviour of rare-earth containing magnesium alloys in borate buffer solution. <i>Electrochimica Acta</i> , 2011, 56, 1535-1545.	5.2	65
78	β-FeOOH and amorphous Ni-Mn hydroxide on carbon nanofoam paper electrodes for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2612-2624.	10.3	63
79	3D nickel foams with controlled morphologies for hydrogen evolution reaction in highly alkaline media. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1701-1709.	7.1	63
80	Corrosion inhibition synergies on a model Al-Cu-Mg sample studied by localized scanning electrochemical techniques. <i>Corrosion Science</i> , 2016, 112, 408-417.	6.6	61
81	In-vitro corrosion behaviour of the magnesium alloy with Al and Zn (AZ31) protected with a biodegradable polycaprolactone coating loaded with hydroxyapatite and cephalexin. <i>Electrochimica Acta</i> , 2015, 179, 431-440.	5.2	59
82	Biofunctional composite coating architectures based on polycaprolactone and nanohydroxyapatite for controlled corrosion activity and enhanced biocompatibility of magnesium AZ31 alloy. <i>Materials Science and Engineering C</i> , 2015, 48, 434-443.	7.3	57
83	Semiconducting properties of oxide and passive films formed on AISI 304 stainless steel and Alloy 600. <i>Journal of the Brazilian Chemical Society</i> , 2002, 13, 433.	0.6	56
84	On the Supercapacitive Behaviour of Anodic Porous WO ₃ -Based Negative Electrodes. <i>Electrochimica Acta</i> , 2017, 232, 192-201.	5.2	55
85	Quasi-simultaneous measurements of ionic currents by vibrating probe and pH distribution by ion-selective microelectrode. <i>Electrochemistry Communications</i> , 2011, 13, 20-23.	4.7	54
86	Application of the Mott-Schottky model to select potentials for EIS studies on electrodes for electrochemical charge storage. <i>Electrochimica Acta</i> , 2018, 289, 47-55.	5.2	53
87	Biobased self-healing polyurethane coating with Zn micro-flakes for corrosion protection of AA7475. <i>Chemical Engineering Journal</i> , 2021, 404, 126478.	12.7	53
88	Chloride-induced corrosion behavior of reinforcing steel in spent fluid cracking catalyst modified mortars. <i>Cement and Concrete Research</i> , 2013, 47, 1-7.	11.0	51
89	Novel healing coatings based on natural-derived polyurethane modified with tannins for corrosion protection of AA2024-T3. <i>Corrosion Science</i> , 2020, 162, 108213.	6.6	51
90	Analytical and microscopic characterisation of modified bis-[triethoxysilylpropyl] tetrasulphide silane films on magnesium AZ31 substrates. <i>Progress in Organic Coatings</i> , 2007, 60, 228-237.	3.9	50

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91	Effect of cerium (IV) ions on the anticorrosion properties of siloxane-poly(methyl methacrylate) based film applied on tin coated steel. <i>Electrochimica Acta</i> , 2010, 55, 5100-5109.	5.2	49
92	Improving the corrosion protection properties of organically modified silicate-epoxy coatings by incorporation of organic and inorganic inhibitors. <i>Progress in Organic Coatings</i> , 2011, 72, 653-662.	3.9	48
93	Fabrication of Three-Dimensional Dendritic Ni-Co Films By Electrodeposition on Stainless Steel Substrates. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22425-22431.	3.1	47
94	Characterization and performance evaluation of Pt-Ru electrocatalysts supported on different carbon materials for direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 910-920.	7.1	47
95	Evolution of the in vitro degradation of Zn-Mg alloys under simulated physiological conditions. <i>RSC Advances</i> , 2017, 7, 28224-28233.	3.6	47
96	Surface evaluation and electrochemical behaviour of doped silane pre-treatments on galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2007, 59, 214-223.	3.9	45
97	Polyaniline coatings on aluminium alloy 6061-T6: Electrosynthesis and characterization. <i>Electrochimica Acta</i> , 2010, 55, 3580-3588.	5.2	45
98	Electrochemical study of the corrosion inhibition ability of smart-coatings applied on AA2024. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2183-2192.	2.5	44
99	Influence of the addition of SiO ₂ nanoparticles to a hybrid coating applied on an AZ31 alloy for early corrosion protection. <i>Surface and Coatings Technology</i> , 2016, 303, 372-384.	4.8	43
100	Influence of pH on Properties of Oxide Films Formed on Type 316L Stainless Steel, Alloy 600, and Alloy 690 in High-Temperature Aqueous Environments. <i>Corrosion</i> , 2003, 59, 11-21.	1.1	42
101	Assessing concrete carbonation resistance through air permeability measurements. <i>Construction and Building Materials</i> , 2015, 82, 304-309.	7.2	42
102	Structural evolution, magnetic properties and electrochemical response of MnCo ₂ O ₄ nanosheet films. <i>RSC Advances</i> , 2015, 5, 27844-27852.	3.6	42
103	How is the chemical bonding of W-Si-N sputtered coatings?. <i>Surface and Coatings Technology</i> , 2001, 142-144, 964-970.	4.8	41
104	Electrochemical and analytical assessment of galvanized steel reinforcement pre-treated with Ce and La salts under alkaline media. <i>Cement and Concrete Composites</i> , 2006, 28, 256-266.	10.7	41
105	Copper-cobalt foams as active and stable catalysts for hydrogen release by hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8438-8448.	7.1	41
106	Self-healing ability based on hydrogen bonds in organic coatings for corrosion protection of AA1200. <i>Corrosion Science</i> , 2020, 177, 108984.	6.6	41
107	The corrosion potential of stainless steel rebars in concrete: Temperature effect. <i>Corrosion Science</i> , 2012, 65, 556-560.	6.6	40
108	Co(OH) ₂ /carbon nanofoam composite as electrochemical capacitor electrode operating at 2V in aqueous medium. <i>Journal of Power Sources</i> , 2015, 288, 234-242.	7.8	40

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109	Hydrogen evolution on nanostructured Ni-Cu foams. RSC Advances, 2015, 5, 43456-43461.	3.6	39
110	Smart composite coatings for corrosion protection of aluminium alloys in aerospace applications. , 2016, , 85-121.		39
111	Enhancement of the Ni-Co hydroxide response as Energy Storage Material by Electrochemically Reduced Graphene Oxide. Electrochimica Acta, 2017, 240, 323-340.	5.2	39
112	Cerium oxide loaded with Gum Arabic as environmentally friendly anti-corrosion additive for protection of coated steel. Materials and Design, 2021, 198, 109361.	7.0	39
113	Advanced Carbon-Nickel Sulfide Hybrid Nanostructures: Extending the Limits of Battery-Type Electrodes for Redox-Based Supercapacitor Applications. ACS Applied Materials & Interfaces, 2021, 13, 20559-20572.	8.0	39
114	Passive behavior of magnesium alloys (Mg-Zr) containing rare-earth elements in alkaline media. Electrochimica Acta, 2010, 55, 2482-2489.	5.2	38
115	Electrodeposited MoO _x films as negative electrode materials for redox supercapacitors. Electrochimica Acta, 2017, 225, 19-28.	5.2	37
116	Synthesis and properties of polyelectrolyte multilayered microcapsules reinforced smart coatings. Journal of Materials Science, 2019, 54, 12079-12094.	3.7	36
117	The early corrosion behaviour of hot dip galvanised steel pre-treated with bis-1,2-(triethoxysilyl)ethane. Progress in Organic Coatings, 2004, 51, 188-194.	3.9	35
118	Morphological changes and electrochemical response of mixed nickel manganese oxides as charge storage electrodes. Journal of Materials Chemistry A, 2015, 3, 10875-10882.	10.3	35
119	Hybrid coatings with collagen and chitosan for improved bioactivity of Mg alloys. Surface and Coatings Technology, 2018, 341, 103-113.	4.8	35
120	Cerium phosphate-based inhibitor for smart corrosion protection of WE43 magnesium alloy. Electrochimica Acta, 2021, 365, 137368.	5.2	35
121	Hybrid nickel manganese oxide nanosheet-3D metallic dendrite percolation network electrodes for high-rate electrochemical energy storage. Nanoscale, 2015, 7, 12452-12459.	5.6	34
122	New Insights into Antibiofilm Effect of a Nanosized ZnO Coating against the Pathogenic Methicillin Resistant <i>Staphylococcus aureus</i> . ACS Applied Materials & Interfaces, 2017, 9, 28157-28167.	8.0	34
123	Influence of apple phytochemicals in ZnO nanoparticles formation, photoluminescence and biocompatibility for biomedical applications. Materials Science and Engineering C, 2019, 101, 76-87.	7.3	34
124	Free-standing N-Graphene as conductive matrix for Ni(OH) ₂ based supercapacitive electrodes. Electrochimica Acta, 2020, 334, 135592.	5.2	33
125	Influence of Unsupported Concrete Media in Corrosion Assessment for Steel Reinforcing Concrete by Electrochemical Impedance Spectroscopy. Electrochimica Acta, 2014, 124, 52-60.	5.2	32
126	A two-step surface treatment, combining anodisation and silanisation, for improved corrosion protection of the Mg alloy WE54. Progress in Organic Coatings, 2010, 69, 143-149.	3.9	31

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127	Localised corrosion assesment of crambe-oil-based polyurethane coatings applied on the ASTM 1200 aluminum alloy. <i>Corrosion Science</i> , 2016, 111, 422-435.	6.6	31
128	Mechanisms of Localized Corrosion Inhibition of AA2024 by Cerium Molybdate Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5811-5823.	3.1	30
129	Hydrogen bubbling-induced micro/nano porous MnO ₂ films prepared by electrodeposition for pseudocapacitor electrodes. <i>Electrochimica Acta</i> , 2016, 202, 166-174.	5.2	30
130	Redox active materials for metal compound based hybrid electrochemical energy storage: a perspective view. <i>Applied Surface Science</i> , 2017, 422, 492-497.	6.1	30
131	Electrodeposition and isothermal aging of Co and Mn layers on stainless steel for interconnectors: Initial stages of spinel phase formation. <i>Journal of Power Sources</i> , 2014, 255, 251-259.	7.8	29
132	Parallel nano-assembling of a multifunctional GO/HapNP coating on ultrahigh-purity magnesium for biodegradable implants. <i>Applied Surface Science</i> , 2015, 345, 387-393.	6.1	29
133	Synthesis and characterisation of Ni ²⁺ /Ni ²⁺ -P ³⁺ -CeO ₂ duplex composite coatings. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 391-404.	2.9	29
134	Calcium carbonate particles loaded with triethanolamine and polyethylenimine for enhanced corrosion protection of epoxy coated steel. <i>Corrosion Science</i> , 2020, 167, 108548.	6.6	29
135	Deposition of hybrid 3-GPTMS's film on AA2024-T3: Dependence of film morphology and protectiveness performance on coating conditions. <i>Progress in Organic Coatings</i> , 2012, 73, 264-271.	3.9	28
136	In vitro degradation of ZnO flowered coated Zn-Mg alloys in simulated physiological conditions. <i>Materials Science and Engineering C</i> , 2017, 70, 112-120.	7.3	28
137	Corrosion prevention of AA2024-T3 aluminum alloy with a polyaniline/poly(³ -glycidoxypropyltrimethoxysilane) bi-layer coating: Comparative study with polyaniline mono-layer feature. <i>Surface and Coatings Technology</i> , 2018, 337, 1-11.	4.8	28
138	Nickel-cobalt oxide modified with reduced graphene oxide: Performance and degradation for energy storage applications. <i>Journal of Power Sources</i> , 2019, 419, 12-26.	7.8	28
139	Enhancement of mechanical and corrosion resistance properties of electrodeposited Ni ²⁺ -P ³⁺ -TiC composite coatings. <i>Scientific Reports</i> , 2021, 11, 5327.	3.3	26
140	Cathodic electrodeposition and electrochemical response of manganese oxide pseudocapacitor electrodes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16355-16364.	7.1	25
141	Artificial aging route for assessing the potential efficacy of consolidation treatments applied to porous carbonate stones. <i>Materials and Design</i> , 2017, 120, 10-21.	7.0	25
142	Autonomous self-healing in epoxy coatings provided by high efficiency isophorone diisocyanate (IPDI) microcapsules for protection of carbon steel. <i>Progress in Organic Coatings</i> , 2020, 139, 105445.	3.9	25
143	Surface studies on acrylic bone cement. <i>International Journal of Pharmaceutics</i> , 2004, 278, 181-186.	5.2	24
144	Electrodeposition: a versatile, efficient, binder-free and room temperature one-step process to produce MnO ₂ electrochemical capacitor electrodes. <i>RSC Advances</i> , 2017, 7, 32038-32043.	3.6	24

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145	Electrochemical study of polyaniline coating electropolymerized onto AA2024-T3 aluminium alloy: Physical properties and anticorrosion performance. <i>Synthetic Metals</i> , 2017, 234, 145-153.	3.9	24
146	The corrosion inhibition mechanisms of Ce(III) ions and triethanolamine on graphite-AA2024-T3 galvanic couples revealed by localised electrochemical techniques. <i>Corrosion Science</i> , 2019, 150, 207-217.	6.6	24
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