Mikhail L Zheludkevich

List of Publications by Year
in descending order

294 papers	18,671 citations	10956 71 h-index	15683 125 g-index
296 all docs	296 docs citations	296 times ranked	7661 citing authors

#	Article	IF	Citations
1	Layer-by-Layer Assembled Nanocontainers for Self-Healing Corrosion Protection. Advanced Materials, 2006, 18, 1672-1678.	11.1	653
2	Anticorrosion Coatings with Self-Healing Effect Based on Nanocontainers Impregnated with Corrosion Inhibitor. Chemistry of Materials, 2007, 19, 402-411.	3.2	556
3	Nanostructured solâ€"gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. Electrochimica Acta, 2005, 51, 208-217.	2.6	498
4	Active protection coatings with layered double hydroxide nanocontainers of corrosion inhibitor. Corrosion Science, 2010, 52, 602-611.	3.0	456
5	Solâ€"gel coatings for corrosion protection of metals. Journal of Materials Chemistry, 2005, 15, 5099.	6.7	454
6	Plasma electrolytic oxidation coatings with particle additions â€" A review. Surface and Coatings Technology, 2016, 307, 1165-1182.	2.2	408
7	Active Anticorrosion Coatings with Halloysite Nanocontainers. Journal of Physical Chemistry C, 2008, 112, 958-964.	1.5	340
8	â€œSmartâ€•coatings for active corrosion protection based on multi-functional micro and nanocontainers. Electrochimica Acta, 2012, 82, 314-323.	2.6	340
9	Triazole and thiazole derivatives as corrosion inhibitors for AA2024 aluminium alloy. Corrosion Science, 2005, 47, 3368-3383.	3.0	324
10	Mechanism of Corrosion Inhibition of AA2024 by Rare-Earth Compounds. Journal of Physical Chemistry B, 2006, 110, 5515-5528.	1.2	315
11	Enhancement of Active Corrosion Protection via Combination of Inhibitor-Loaded Nanocontainers. ACS Applied Materials & Interfaces, 2010, 2, 1528-1535.	4.0	302
12	High effective organic corrosion inhibitors for 2024 aluminium alloy. Electrochimica Acta, 2007, 52, 7231-7247.	2.6	287
13	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. Progress in Organic Coatings, 2007, 58, 127-135.	1.9	280
14	Novel Inorganic Host Layered Double Hydroxides Intercalated with Guest Organic Inhibitors for Anticorrosion Applications. ACS Applied Materials & Interfaces, 2009, 1, 2353-2362.	4.0	277
15	Role of intermetallic phases in localized corrosion of AA5083. Electrochimica Acta, 2007, 52, 7651-7659.	2.6	267
16	Evaluation of self-healing ability in protective coatings modified with combinations of layered double hydroxides and cerium molibdate nanocontainers filled with corrosion inhibitors. Electrochimica Acta, 2012, 60, 31-40.	2.6	263
17	Corrosion protective properties of nanostructured solâ€"gel hybrid coatings to AA2024-T3. Surface and Coatings Technology, 2006, 200, 3084-3094.	2.2	253
18	Novel hybrid solâ€"gel coatings for corrosion protection of AZ31B magnesium alloy. Electrochimica Acta, 2008, 53, 4773-4783.	2.6	253

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19	Znâ€“Al layered double hydroxides as chloride nanotraps in active protective coatings. Corrosion Science, 2012, 55, 1-4.	3.0	242
20	Plasma electrolytic oxidation coatings on Mg alloy with addition of SiO2 particles. Electrochimica Acta, 2016, 187, 20-33.	2.6	219
21	CeO2-filled solâ€“gel coatings for corrosion protection of AA2024-T3 aluminium alloy. Corrosion Science, 2009, 51, 2304-2315.	3.0	217
22	Comprehensive screening of Mg corrosion inhibitors. Corrosion Science, 2017, 128, 224-240.	3.0	206
23	Silica nanocontainers for active corrosion protection. Nanoscale, 2012, 4, 1287.	2.8	205
24	Mg-Ca binary alloys as anodes for primary Mg-air batteries. Journal of Power Sources, 2018, 396, 109-118.	4.0	193
25	Hydroxyapatite Microparticles as Feedback-Active Reservoirs of Corrosion Inhibitors. ACS Applied Materials & Interfaces, 2010, 2, 3011-3022.	4.0	187
26	Electrochemical study of inhibitor-containing organicâ€“inorganic hybrid coatings on AA2024. Corrosion Science, 2009, 51, 1012-1021.	3.0	186
27	Influence of inhibitor addition on the corrosion protection performance of solâ€“gel coatings on AA2024. Progress in Organic Coatings, 2008, 63, 352-361.	1.9	181
28	Oxide nanoparticle reservoirs for storage and prolonged release of the corrosion inhibitors. Electrochemistry Communications, 2005, 7, 836-840.	2.3	177
29	Nanostructured LDH-container layer with active protection functionality. Journal of Materials Chemistry, 2011, 21, 15464.	6.7	174
30	The use of pre-treatments based on doped silane solutions for improved corrosion resistance of galvanised steel substrates. Surface and Coatings Technology, 2006, 200, 4240-4250.	2.2	167
31	The corrosion resistance of hot dip galvanised steel and AA2024-T3 pre-treated with bis-[triethoxysilylpropyl] tetrasulfide solutions doped with Ce(NO3)3. Corrosion Science, 2006, 48, 3740-3758.	3.0	155
32	Inhibitor-doped solâ€“gel coatings for corrosion protection of magnesium alloy AZ31. Surface and Coatings Technology, 2010, 204, 1479-1486.	2.2	155
33	Selecting medium for corrosion testing of bioabsorbable magnesium and other metals â€“ A critical review. Corrosion Science, 2020, 171, 108722.	3.0	152
34	Complex anticorrosion coating for ZK30 magnesium alloy. Electrochimica Acta, 2009, 55, 131-141.	2.6	145
35	The effect of iron re-deposition on the corrosion of impurity-containing magnesium. Physical Chemistry Chemical Physics, 2016, 18, 1279-1291.	1.3	140
36	Self-healing protective coatings with â€œgreenâ€•chitosan based pre-layer reservoir of corrosion inhibitor. Journal of Materials Chemistry, 2011, 21, 4805.	6.7	134

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37	Influence of preparation conditions of Layered Double Hydroxide conversion films on corrosion protection. Electrochimica Acta, 2014, 117, 164-171.	2.6	134
38	On the application of electrochemical impedance spectroscopy to study the self-healing properties of protective coatings. Electrochemistry Communications, 2007, 9, 2622-2628.	2.3	123
39	The synergistic combination of bis-silane and CeO2Â·ZrO2 nanoparticles on the electrochemical behaviour of galvanised steel in NaCl solutions. Electrochimica Acta, 2008, 53, 5913-5922.	2.6	120
40	Monitoring local spatial distribution of Mg2+, pH and ionic currents. Electrochemistry Communications, 2008, 10, 259-262.	2.3	118
41	Localized electrochemical study of corrosion inhibition in microdefects on coated AZ31 magnesium alloy. Electrochimica Acta, 2010, 55, 5401-5406.	2.6	117
42	TiOx self-assembled networks prepared by templating approach as nanostructured reservoirs for self-healing anticorrosion pre-treatments. Electrochemistry Communications, 2006, 8, 421-428.	2.3	116
43	Chitosan-based self-healing protective coatings doped with cerium nitrate for corrosion protection of aluminum alloy 2024. Progress in Organic Coatings, 2012, 75, 8-13.	1.9	116
44	Solâ€Gel/Polyelectrolyte Active Corrosion Protection System. Advanced Functional Materials, 2008, 18, 3137-3147.	7.8	115
45	Modification of bis-silane solutions with rare-earth cations for improved corrosion protection of galvanized steel substrates. Progress in Organic Coatings, 2006, 57, 67-77.	1.9	109
46	Insights into plasma electrolytic oxidation treatment with particle addition. Corrosion Science, 2015, 101, 201-207.	3.0	107
47	The corrosion resistance of hot dip galvanized steel pretreated with Bis-functional silanes modified with microsilica. Surface and Coatings Technology, 2006, 200, 2875-2885.	2.2	103
48	Corrosion protection properties of inhibitor containing hybrid PEO-epoxy coating on magnesium. Corrosion Science, 2018, 140, 99-110.	3.0	103
49	A new concept for corrosion inhibition of magnesium: Suppression of iron re-deposition. Electrochemistry Communications, 2016, 62, 5-8.	2.3	100
50	The role of individual components of simulated body fluid on the corrosion behavior of commercially pure Mg. Corrosion Science, 2019, 147, 81-93.	3.0	97
51	Corrosion protection of AA2024-T3 by LDH conversion films. Analysis of SVET results. Electrochimica Acta, 2016, 210, 215-224.	2.6	96
52	Mutual interplay of ZnO micro- and nanowires and methylene blue during cyclic photocatalysis process. Journal of Environmental Chemical Engineering, 2019, 7, 103016.	3.3	92
53	Investigation of the formation mechanisms of plasma electrolytic oxidation coatings on Mg alloy AM50 using particles. Electrochimica Acta, 2016, 196, 680-691.	2.6	91
54	Plasma anodized ZE41 magnesium alloy sealed with hybrid epoxy-silane coating. Corrosion Science, 2013, 73, 300-308.	3.0	90

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55	Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition. Surface and Coatings Technology, 2015, 269, 155-169.	2.2	90
56	Interlayer intercalation and arrangement of 2-mercaptobenzothiazolate and 1,2,3-benzotriazolate anions in layered double hydroxides: In situ X-ray diffraction study. Journal of Solid State Chemistry, 2016, 233, 158-165.	1.4	90
57	Analytical characterisation and corrosion behaviour of bis-[triethoxysilylpropyl]tetrasulphide pre-treated AA2024-T3. Corrosion Science, 2005, 47, 869-881.	3.0	87
58	Bioactive plasma electrolytic oxidation coatings on Mg-Ca alloy to control degradation behaviour. Surface and Coatings Technology, 2017, 315, 454-467.	2.2	87
59	Microstructure and corrosion behavior of Ca/P coatings prepared on magnesium by plasma electrolytic oxidation. Surface and Coatings Technology, 2017, 319, 359-369.	2.2	87
60	Clarifying the decisive factors for utilization efficiency of Mg anodes for primary aqueous batteries. Journal of Power Sources, 2019, 441, 227201.	4.0	86
61	Active corrosion protection coating for a ZE41 magnesium alloy created by combining PEO and solâ€“gel techniques. RSC Advances, 2016, 6, 12553-12560.	1.7	84
62	Polyelectrolyte-modified layered double hydroxide nanocontainers as vehicles for combined inhibitors. RSC Advances, 2015, 5, 39916-39929.	1.7	82
63	Cerium-based sealing of PEO coated AM50 magnesium alloy. Surface and Coatings Technology, 2015, 269, 145-154.	2.2	80
64	Microâ€arc oxidation of magnesium alloys: A review. Journal of Materials Science and Technology, 2022, 118, 158-180.	5.6	79
65	Active corrosion protection of AA2024 by solâ€“gel coatings with cerium molybdate nanowires. Electrochimica Acta, 2013, 112, 236-246.	2.6	78
66	Sealing of tartaric sulfuric (TSA) anodized AA2024 with nanostructured LDH layers. RSC Advances, 2016, 6, 13942-13952.	1.7	76
67	A novel bilayer system comprising LDH conversion layer and sol-gel coating for active corrosion protection of AA2024. Corrosion Science, 2018, 143, 299-313.	3.0	76
68	The effect of small-molecule bio-relevant organic components at low concentration on the corrosion of commercially pure Mg and Mg-0.8Ca alloy: An overall perspective. Corrosion Science, 2019, 153, 258-271.	3.0	76
69	Ca/In micro alloying as a novel strategy to simultaneously enhance power and energy density of primary Mg-air batteries from anode aspect. Journal of Power Sources, 2020, 472, 228528.	4.0	76
70	Approaching â€œstainless magnesiumâ€• by Ca micro-alloying. Materials Horizons, 2021, 8, 589-596.	6.4	76
71	Synergistic corrosion inhibition on galvanically coupled metallic materials. Electrochemistry Communications, 2012, 20, 101-104.	2.3	75
72	3D reconstruction of plasma electrolytic oxidation coatings on Mg alloy via synchrotron radiation tomography. Corrosion Science, 2018, 139, 395-402.	3.0	74

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73	Flash-PEO as an alternative to chromate conversion coatings for corrosion protection of Mg alloy. Corrosion Science, 2021, 180, 109189.	3.0	74
74	Preparation and corrosion protective properties of nanostructured titania-containing hybrid solâ€"gel coatings on AA2024. Progress in Organic Coatings, 2008, 62, 226-235.	1.9	73
75	Corrosion inhibition of pure Mg containing a high level of iron impurity in pH neutral NaCl solution. Corrosion Science, 2018, 142, 222-237.	3.0	72
76	Nanocontainer-based corrosion sensing coating. Nanotechnology, 2013, 24, 415502.	1.3	70
77	Active protection of Mg alloy by composite PEO coating loaded with corrosion inhibitors. Applied Surface Science, 2020, 504, 144462.	3.1	68
78	Revealing the impact of second phase morphology on discharge properties of binary Mg-Ca anodes for primary Mg-air batteries. Corrosion Science, 2019, 153, 225-235.	3.0	67
79	Feedback active coatings based on incorporated nanocontainers. Journal of Materials Chemistry, 2006, 16, 4561-4566.	6.7	66
80	The Reduction of Dissolved Oxygen During Magnesium Corrosion. ChemistryOpen, 2018, 7, 664-668.	0.9	66
81	Layered double hydroxides (LDHs) as functional materials for the corrosion protection of aluminum alloys: A review. Applied Materials Today, 2020, 21, 100857.	2.3	65
82	Plasma electrolytic oxidation of AZ31 and AZ91 magnesium alloys: Comparison of coatings formation mechanism. Journal of Magnesium and Alloys, 2020, 8, 587-600.	5.5	64
83	Insight into physical interpretation of high frequency time constant in electrochemical impedance spectra of Mg. Corrosion Science, 2021, 187, 109501.	3.0	64
84	Anion exchange in Znâ€"Al layered double hydroxides: In situ X-ray diffraction study. Chemical Physics Letters, 2010, 495, 73-76.	1.2	63
85	Local pH and Its Evolution Near Mg Alloy Surfaces Exposed to Simulated Body Fluids. Advanced Materials Interfaces, 2018, 5, 1800169.	1.9	63
86	Active self-healing coating for galvanically coupled multi-material assemblies. Electrochemistry Communications, 2014, 41, 51-54.	2.3	62
87	Formation of self-lubricating PEO coating via in-situ incorporation of PTFE particles. Surface and Coatings Technology, 2018, 337, 379-388.	2.2	61
88	Microstructural influence on corrosion behavior of MgZnGe alloy in NaCl solution. Journal of Alloys and Compounds, 2019, 783, 179-192.	2.8	61
89	Corrosion inhibition of copper in aqueous chloride solution by 1H-1,2,3-triazole and 1,2,4-triazole and their combinations: electrochemical, Raman and theoretical studies. Physical Chemistry Chemical Physics, 2017, 19, 6113-6129.	1.3	60
90	Functionalized chitosan-based coatings for active corrosion protection. Surface and Coatings Technology, 2013, 226, 51-59.	2.2	59

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91	Chitosan as a Smart Coating for Controlled Release of Corrosion Inhibitor 2-Mercaptobenzothiazole. ECS Electrochemistry Letters, 2013, 2, C19-C22.	1.9	59
92	The effect of pulse waveforms on surface morphology, composition and corrosion behavior of Al 2 O 3 and Al 2 O 3 /TiO 2 nano-composite PEO coatings on 7075 aluminum alloy. Surface and Coatings Technology, 2017, 324, 208-221.	2.2	57
93	Active sensing coating for early detection of corrosion processes. RSC Advances, 2014, 4, 17780.	1.7	56
94	Synergetic active corrosion protection of AA2024-T3 by 2D- anionic and 3D-cationic nanocontainers loaded with Ce and mercaptobenzothiazole. Corrosion Science, 2018, 135, 35-45.	3.0	55
95	Influence of particle additions on corrosion and wear resistance of plasma electrolytic oxidation coatings on Mg alloy. Surface and Coatings Technology, 2018, 352, 1-14.	2.2	54
96	High-energy and durable aqueous magnesium batteries: Recent advances and perspectives. Energy Storage Materials, 2021, 43, 238-247.	9.5	54
97	Corrosion and discharge properties of Ca/Ge micro-alloyed Mg anodes for primary aqueous Mg batteries. Corrosion Science, 2020, 177, 108958.	3.0	53
98	Cerium cinnamate as an environmentally benign inhibitor pigment for epoxy coatings on AA 2024-T3. Progress in Organic Coatings, 2014, 77, 765-773.	1.9	52
99	Influence of surface pre-treatment on the deposition and corrosion properties of hydrophobic coatings on a magnesium alloy. Corrosion Science, 2016, 112, 483-494.	3.0	52
100	PEO coatings design for Mg-Ca alloy for cardiovascular stent and bone regeneration applications. Materials Science and Engineering C, 2019, 105, 110026.	3.8	52
101	Layered double hydroxide based active corrosion protective sealing of plasma electrolytic oxidation/sol-gel composite coating on AA2024. Applied Surface Science, 2019, 494, 829-840.	3.1	52
102	A multi-electrode cell for high-throughput SVET screening of corrosion inhibitors. Corrosion Science, 2010, 52, 3146-3149.	3.0	51
103	Comparative X-ray diffraction and infrared spectroscopy study of Znâ€"Al layered double hydroxides: Vanadate vs nitrate. Chemical Physics, 2012, 397, 102-108.	0.9	51
104	Corrosion behaviour of WC-10% AISI 304 cemented carbides. Corrosion Science, 2015, 100, 322-331.	3.0	51
105	Galvanic corrosion of Ti6Al4V -AA2024 joints in aircraft environment: Modelling and experimental validation. Corrosion Science, 2019, 157, 70-78.	3.0	51
106	Characterization and corrosion behavior of binary Mg-Ga alloys. Materials Characterization, 2017, 128, 85-99.	1.9	50
107	The wear characteristics of CeO2 containing nanocomposite coating made by aluminate-based PEO on AM 50 magnesium alloy. Surface and Coatings Technology, 2019, 357, 626-637.	2.2	49
108	Lanthanide Salts as Corrosion Inhibitors for AA5083. Mechanism and Efficiency of Corrosion Inhibition. Journal of the Electrochemical Society, 2008, 155, C169.	1.3	48

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109	Influence of sol-gel process parameters on the protection properties of solâ€“gel coatings applied on AA2024. Surface and Coatings Technology, 2014, 246, 6-16.	2.2	48
110	Molybdate intercalated hydrotalcite/graphene oxide composite as corrosion inhibitor for carbon steel. Surface and Coatings Technology, 2020, 399, 126165.	2.2	48
111	Localized currents and pH distribution studied during corrosion of MA8 Mg alloy in the cell culture medium. Corrosion Science, 2020, 170, 108689.	3.0	47
112	Influence of electrical parameters on particle uptake during plasma electrolytic oxidation processing of AM50 Mg alloy. Surface and Coatings Technology, 2016, 289, 179-185.	2.2	46
113	Nanoporous magnesium. Nano Research, 2018, 11, 6428-6435.	5.8	46
114	Control of the Mg alloy biodegradation via PEO and polymer-containing coatings. Corrosion Science, 2021, 182, 109254.	3.0	46
115	Surface evaluation and electrochemical behaviour of doped silane pre-treatments on galvanised steel substrates. Progress in Organic Coatings, 2007, 59, 214-223.	1.9	45
116	Performance boost for primary magnesium cells using iron complexing agents as electrolyte additives. Scientific Reports, 2018, 8, 7578.	1.6	45
117	Cerium molybdate nanowires for active corrosion protection of aluminium alloys. Corrosion Science, 2012, 58, 41-51.	3.0	44
118	Effects of graphene nanosheets on the ceramic coatings formed on Ti6Al4V alloy drill pipe by plasma electrolytic oxidation. Journal of Alloys and Compounds, 2019, 789, 996-1007.	2.8	44
119	Prediction of the internal corrosion rate for oil and gas pipeline: Implementation of ensemble learning techniques. Journal of Natural Gas Science and Engineering, 2022, 99, 104425.	2.1	44
120	Double Perovskite Sr₂FeMoO₆ Films Prepared by Electrophoretic Deposition. ACS Applied Materials & Interfaces, 2014, 6, 19201-19206.	4.0	41
121	Zn-Al LDH growth on AA2024 and zinc and their intercalation with chloride: Comparison of crystal structure and kinetics. Applied Surface Science, 2020, 501, 144027.	3.1	41
122	EIS Study of Amine Cured Epoxy-silica-zirconia Sol-gel Coatings for Corrosion Protection of the Aluminium Alloy EN AW 6063. Portugaliae Electrochimica Acta, 2013, 31, 307-319.	0.4	40
123	Double-Ligand Strategy to Construct an Inhibitor-Loaded Zn-MOF and Its Corrosion Protection Ability for Aluminum Alloy 2A12. ACS Applied Materials & Interfaces, 2021, 13, 51685-51694.	4.0	40
124	In silico screening of modulators of magnesium dissolution. Corrosion Science, 2020, 163, 108245.	3.0	38
125	The Corrosion Performance and Mechanical Properties of Mg-Zn Based Alloysâ€”A Review. Corrosion and Materials Degradation, 2020, 1, 92-158.	1.0	38
126	MgAl-V2O7 4- LDHs/(PEI/MXene)10 composite film for magnesium alloy corrosion protection. Journal of Materials Science and Technology, 2021, 91, 28-39.	5.6	38

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127	A first-principles analysis of the charge transfer in magnesium corrosion. Scientific Reports, 2020, 10, 15006.	1.6	37
128	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
129	Tailoring electrolyte additives for controlled Mg-Ca anode activity in aqueous Mg-air batteries. Journal of Power Sources, 2020, 460, 228106.	4.0	37
130	Micropotentiometric mapping of local distributions of Zn2+ relevant to corrosion studies. Electrochemistry Communications, 2010, 12, 394-397.	2.3	36
131	Photodegradation of 2-mercaptobenzothiazole and 1,2,3-benzotriazole corrosion inhibitors in aqueous solutions and organic solvents. Physical Chemistry Chemical Physics, 2014, 16, 25152-25160.	1.3	36
132	Validating the early corrosion sensing functionality in poly (ether imide) coatings for enhanced protection of magnesium alloy AZ31. Corrosion Science, 2018, 140, 307-320.	3.0	36
133	One-step synthesis and growth mechanism of nitrate intercalated ZnAl LDH conversion coatings on zinc. Chemical Communications, 2019, 55, 6878-6881.	2.2	36
134	Clarifying the influence of albumin on the initial stages of magnesium corrosion in Hank's balanced salt solution. Journal of Magnesium and Alloys, 2020, , .	5.5	36
135	Tailoring the Mg-air primary battery performance using strong complexing agents as electrolyte additives. Journal of Power Sources, 2020, 453, 227880.	4.0	36
136	Hierarchically organized Liâ€“Al-LDH nano-flakes: a low-temperature approach to seal porous anodic oxide on aluminum alloys. RSC Advances, 2017, 7, 35357-35367.	1.7	34
137	Data Science Based Mg Corrosion Engineering. Frontiers in Materials, 2019, 6, .	1.2	34
138	Initial stages of localized corrosion at cut-edges of adhesively bonded Zn and Zn-Al-Mg galvanized steel. Electrochimica Acta, 2016, 211, 126-141.	2.6	33
139	Microstructure controls the corrosion behavior of a lean biodegradable Mgâ€“2Zn alloy. Acta Biomaterialia, 2020, 107, 349-361.	4.1	32
140	In situ surface film evolution during Mg aqueous corrosion in presence of selected carboxylates. Corrosion Science, 2020, 171, 108484.	3.0	32
141	Recent Advances on the Application of Layered Double Hydroxides in Concreteâ€"A Review. Materials, 2020, 13, 1426.	1.3	32
142	Plasma electrolytic oxidation of zinc alloy in a phosphate-aluminate electrolyte. Applied Surface Science, 2020, 505, 144552.	3.1	31
143	Influence of secondary phases of AlSi9Cu3 alloy on the plasma electrolytic oxidation coating formation process. Journal of Materials Science and Technology, 2020, 50, 75-85.	5.6	31
144	Mechanisms of Localized Corrosion Inhibition of AA2024 by Cerium Molybdate Nanowires. Journal of Physical Chemistry C, 2013, 117, 5811-5823.	1.5	30

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145	High rate oxygen reduction reaction during corrosion of ultra-high-purity magnesium. Npj Materials Degradation, 2020, 4, .	2.6	30
146	Electrochemical behaviour of the MA8 Mg alloy in minimum essential medium. Corrosion Science, 2020, 168, 108552.	3.0	30
147	A SVET investigation on the modification of zinc dust reactivity. Progress in Organic Coatings, 2008, 63, 282-290.	1.9	29
148	Electrochemical deposition of zinc from deep eutectic solvent on barrier alumina layers. Electrochimica Acta, 2015, 170, 284-291.	2.6	29
149	How Density Functional Theory Surface Energies May Explain the Morphology of Particles, Nanosheets, and Conversion Films Based on Layered Double Hydroxides. Journal of Physical Chemistry C, 2017, 121, 2211-2220.	1.5	29
150	Synergistic Mixture of Electrolyte Additives: A Route to a High-Efficiency Mgâ€“Air Battery. Journal of Physical Chemistry Letters, 2020, 11, 8790-8798.	2.1	29
151	Biodegradation behaviour of Fe-based alloys in Hanksâ€™ Balanced Salt Solutions: Part I. material characterisation and corrosion testing. Bioactive Materials, 2022, 7, 426-440.	8.6	28
152	Volta Potential of Oxidized Aluminum Studied by Scanning Kelvin Probe Force Microscopy. Journal of Physical Chemistry C, 2010, 114, 8474-8484.	1.5	27
153	The stress corrosion cracking behaviour of biomedical Mg-1Zn alloy in synthetic or natural biological media. Corrosion Science, 2020, 175, 108876.	3.0	27
154	Corrosion behavior of Mg wires for ureteral stent in artificial urine solution. Corrosion Science, 2021, 189, 109567.	3.0	27
155	Thermal Behavior of Layered Double Hydroxide Znâ€“Alâ€“Pyrovanadate: Composition, Structure Transformations, and Recovering Ability. Journal of Physical Chemistry C, 2013, 117, 4152-4157.	1.5	26
156	Influence of stripping and cooling atmospheres on surface properties and corrosion of zinc galvanizing coatings. Applied Surface Science, 2016, 389, 144-156.	3.1	26
157	Effect of unequal levels of deformation and fragmentation on the electrochemical response of friction stir welded AA2024-T3 alloy. Electrochimica Acta, 2019, 313, 271-281.	2.6	26
158	Galvanically Stimulated Degradation of Carbon-Fiber Reinforced Polymer Composites: A Critical Review. Materials, 2019, 12, 651.	1.3	26
159	Indium chloride as an electrolyte additive for primary aqueous Mg batteries. Electrochimica Acta, 2021, 373, 137916.	2.6	26
160	Investigation of electrode distance impact on PEO coating formation assisted by simulation. Applied Surface Science, 2016, 388, 304-312.	3.1	25
161	Modification of zinc powder to improve the corrosion resistance of weldable primers. Progress in Organic Coatings, 2010, 69, 184-192.	1.9	24
162	Formation of photocatalytic plasma electrolytic oxidation coatings on magnesium alloy by incorporation of TiO2 particles. Surface and Coatings Technology, 2016, 307, 287-291.	2.2	24

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163	Influence of water purity on the corrosion behavior of Mg0.5ZnX (X=Ca, Ge) alloys. Corrosion Science, 2019, 153, 62-73.	3.0	24
164	Exploring the corrosion inhibition mechanism of 8-hydroxyquinoline for a PEO-coated magnesium alloy. Corrosion Science, 2022, 203, 110344.	3.0	24
165	Active protective Alâ€“Ce alloy coating electrodeposited from ionic liquid. Electrochemistry Communications, 2010, 12, 729-732.	2.3	23
166	Boron doped nanocrystalline diamond microelectrodes for the detection of Zn2+ and dissolved O2. Electrochimica Acta, 2012, 76, 487-494.	2.6	23
167	Characterisation and corrosion behaviour of plasma electrolytic oxidation coatings on high pressure die cast Mgâ€“5Alâ€“0.4Mnâ€“xCe (x=0, 0.5, 1) alloys. Surface and Coatings Technology, 2015, 269, 200-211.	2.2	23
168	A computational UVâ€“Vis spectroscopic study of the chemical speciation of 2-mercaptobenzothiazole corrosion inhibitor in aqueous solution. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	23
169	Revealing physical interpretation of time constants in electrochemical impedance spectra of Mg via Tribo-EIS measurements. Electrochimica Acta, 2022, 404, 139582.	2.6	23
170	Active Corrosion Protection by Nanoparticles and Conversion Films of Layered Double Hydroxides. Corrosion, 2014, 70, 436-445.	0.5	22
171	Interaction effect between different constituents in silicate-containing electrolyte on PEO coatings on Mg alloy. Surface and Coatings Technology, 2016, 307, 825-836.	2.2	22
172	Role of Phase Composition of PEO Coatings on AA2024 for In-Situ LDH Growth. Coatings, 2017, 7, 190.	1.2	22
173	Influence of cathodic duty cycle on the properties of tungsten containing Al 2 O 3 /TiO 2 PEO nano-composite coatings. Surface and Coatings Technology, 2018, 340, 210-221.	2.2	22
174	Enhancement of discharge performance for aqueous Mg-air batteries in 2,6-dihydroxybenzoate-containing electrolyte. Chemical Engineering Journal, 2022, 429, 132369.	6.6	22
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