

Mikhail L Zheludkevich

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296
ext. papers

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avg, IF

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#	Paper	IF	Citations
289	Layer-by-Layer Assembled Nanocontainers for Self-Healing Corrosion Protection. <i>Advanced Materials</i> , 2006 , 18, 1672-1678	24	581
288	Anticorrosion Coatings with Self-Healing Effect Based on Nanocontainers Impregnated with Corrosion Inhibitor. <i>Chemistry of Materials</i> , 2007 , 19, 402-411	9.6	489
287	Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. <i>Electrochimica Acta</i> , 2005 , 51, 208-217	6.7	439
286	Sol-gel coatings for corrosion protection of metals. <i>Journal of Materials Chemistry</i> , 2005 , 15, 5099		399
285	Active protection coatings with layered double hydroxide nanocontainers of corrosion inhibitor. <i>Corrosion Science</i> , 2010 , 52, 602-611	6.8	394
284	Active Anticorrosion Coatings with Halloysite Nanocontainers. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 958-964	3.8	302
283	Triazole and thiazole derivatives as corrosion inhibitors for AA2024 aluminium alloy. <i>Corrosion Science</i> , 2005 , 47, 3368-3383	6.8	288
282	Smart coatings for active corrosion protection based on multi-functional micro and nanocontainers. <i>Electrochimica Acta</i> , 2012 , 82, 314-323	6.7	281
281	Plasma electrolytic oxidation coatings with particle additions [A review]. <i>Surface and Coatings Technology</i> , 2016 , 307, 1165-1182	4.4	271
280	Enhancement of active corrosion protection via combination of inhibitor-loaded nanocontainers. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1528-35	9.5	266
279	Mechanism of corrosion inhibition of AA2024 by rare-earth compounds. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5515-28	3.4	263
278	High effective organic corrosion inhibitors for 2024 aluminium alloy. <i>Electrochimica Acta</i> , 2007 , 52, 7231-7247	6.7	247
277	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. <i>Progress in Organic Coatings</i> , 2007 , 58, 127-135	4.8	247
276	Novel inorganic host layered double hydroxides intercalated with guest organic inhibitors for anticorrosion applications. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2353-62	9.5	235
275	Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3. <i>Surface and Coatings Technology</i> , 2006 , 200, 3084-3094	4.4	230
274	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	6.7	222
273	Novel hybrid sol-gel coatings for corrosion protection of AZ31B magnesium alloy. <i>Electrochimica Acta</i> , 2008 , 53, 4773-4783	6.7	214

272	Role of intermetallic phases in localized corrosion of AA5083. <i>Electrochimica Acta</i> , 2007 , 52, 7651-7659	6.7	213
271	ZnAl layered double hydroxides as chloride nanotraps in active protective coatings. <i>Corrosion Science</i> , 2012 , 55, 1-4	6.8	201
270	CeO ₂ -filled sol-gel coatings for corrosion protection of AA2024-T3 aluminium alloy. <i>Corrosion Science</i> , 2009 , 51, 2304-2315	6.8	189
269	Electrochemical study of inhibitor-containing organic-inorganic hybrid coatings on AA2024. <i>Corrosion Science</i> , 2009 , 51, 1012-1021	6.8	172
268	Plasma electrolytic oxidation coatings on Mg alloy with addition of SiO ₂ particles. <i>Electrochimica Acta</i> , 2016 , 187, 20-33	6.7	170
267	Silica nanocontainers for active corrosion protection. <i>Nanoscale</i> , 2012 , 4, 1287-98	7.7	170
266	Oxide nanoparticle reservoirs for storage and prolonged release of the corrosion inhibitors. <i>Electrochemistry Communications</i> , 2005 , 7, 836-840	5.1	163
265	Hydroxyapatite microparticles as feedback-active reservoirs of corrosion inhibitors. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3011-22	9.5	162
264	Influence of inhibitor addition on the corrosion protection performance of sol-gel coatings on AA2024. <i>Progress in Organic Coatings</i> , 2008 , 63, 352-361	4.8	153
263	Nanostructured LDH-container layer with active protection functionality. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15464		144
262	Inhibitor-doped sol-gel coatings for corrosion protection of magnesium alloy AZ31. <i>Surface and Coatings Technology</i> , 2010 , 204, 1479-1486	4.4	136
261	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	4.4	136
260	Complex anticorrosion coating for ZK30 magnesium alloy. <i>Electrochimica Acta</i> , 2009 , 55, 131-141	6.7	125
259	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	6.8	123
258	Self-healing protective coatings with green chitosan based pre-layer reservoir of corrosion inhibitor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4805		119
257	Comprehensive screening of Mg corrosion inhibitors. <i>Corrosion Science</i> , 2017 , 128, 224-240	6.8	118
256	On the application of electrochemical impedance spectroscopy to study the self-healing properties of protective coatings. <i>Electrochemistry Communications</i> , 2007 , 9, 2622-2628	5.1	114
255	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	5.1	112

254	The effect of iron re-deposition on the corrosion of impurity-containing magnesium. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1279-91	3.6	106
253	Influence of preparation conditions of Layered Double Hydroxide conversion films on corrosion protection. <i>Electrochimica Acta</i> , 2014 , 117, 164-171	6.7	106
252	Chitosan-based self-healing protective coatings doped with cerium nitrate for corrosion protection of aluminum alloy 2024. <i>Progress in Organic Coatings</i> , 2012 , 75, 8-13	4.8	105
251	Localized electrochemical study of corrosion inhibition in microdefects on coated AZ31 magnesium alloy. <i>Electrochimica Acta</i> , 2010 , 55, 5401-5406	6.7	105
250	Mg-Ca binary alloys as anodes for primary Mg-air batteries. <i>Journal of Power Sources</i> , 2018 , 396, 109-1188.9		104
249	Sol-Gel/Polyelectrolyte Active Corrosion Protection System. <i>Advanced Functional Materials</i> , 2008 , 18, 3137-3147	15.6	102
248	Monitoring local spatial distribution of Mg ²⁺ , pH and ionic currents. <i>Electrochemistry Communications</i> , 2008 , 10, 259-262	5.1	102
247	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	4.8	96
246	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	6.7	94
245	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	4.4	93
244	Analytical characterisation and corrosion behaviour of bis-[triethoxysilylpropyl]tetrasulphide pre-treated AA2024-T3. <i>Corrosion Science</i> , 2005 , 47, 869-881	6.8	81
243	Insights into plasma electrolytic oxidation treatment with particle addition. <i>Corrosion Science</i> , 2015 , 101, 201-207	6.8	78
242	A new concept for corrosion inhibition of magnesium: Suppression of iron re-deposition. <i>Electrochemistry Communications</i> , 2016 , 62, 5-8	5.1	72
241	Interlayer intercalation and arrangement of 2-mercaptobenzothiazolate and 1,2,3-benzotriazolate anions in layered double hydroxides: In situ X-ray diffraction study. <i>Journal of Solid State Chemistry</i> , 2016 , 233, 158-165	3.3	70
240	Investigation of the formation mechanisms of plasma electrolytic oxidation coatings on Mg alloy AM50 using particles. <i>Electrochimica Acta</i> , 2016 , 196, 680-691	6.7	70
239	Mutual interplay of ZnO micro- and nanowires and methylene blue during cyclic photocatalysis process. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103016	6.8	69
238	Preparation and corrosion protective properties of nanostructured titania-containing hybrid sol-gel coatings on AA2024. <i>Progress in Organic Coatings</i> , 2008 , 62, 226-235	4.8	68
237	Plasma anodized ZE41 magnesium alloy sealed with hybrid epoxy-silane coating. <i>Corrosion Science</i> , 2013 , 73, 300-308	6.8	67

236	Corrosion protection of AA2024-T3 by LDH conversion films. Analysis of SVET results. <i>Electrochimica Acta</i> , 2016 , 210, 215-224	6.7	67
235	Polyelectrolyte-modified layered double hydroxide nanocontainers as vehicles for combined inhibitors. <i>RSC Advances</i> , 2015 , 5, 39916-39929	3.7	64
234	Active corrosion protection coating for a ZE41 magnesium alloy created by combining PEO and sol-gel techniques. <i>RSC Advances</i> , 2016 , 6, 12553-12560	3.7	64
233	Active corrosion protection of AA2024 by sol-gel coatings with cerium molybdate nanowires. <i>Electrochimica Acta</i> , 2013 , 112, 236-246	6.7	63
232	Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition. <i>Surface and Coatings Technology</i> , 2015 , 269, 155-169	4.4	62
231	Corrosion protection properties of inhibitor containing hybrid PEO-epoxy coating on magnesium. <i>Corrosion Science</i> , 2018 , 140, 99-110	6.8	62
230	Sealing of tartaric sulfuric (TSA) anodized AA2024 with nanostructured LDH layers. <i>RSC Advances</i> , 2016 , 6, 13942-13952	3.7	61
229	Synergistic corrosion inhibition on galvanically coupled metallic materials. <i>Electrochemistry Communications</i> , 2012 , 20, 101-104	5.1	61
228	Microstructure and corrosion behavior of Ca/P coatings prepared on magnesium by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2017 , 319, 359-369	4.4	60
227	Feedback active coatings based on incorporated nanocontainers. <i>Journal of Materials Chemistry</i> , 2006 , 16, 4561-4566		60
226	Selecting medium for corrosion testing of bioabsorbable magnesium and other metals – A critical review. <i>Corrosion Science</i> , 2020 , 171, 108722	6.8	57
225	Active self-healing coating for galvanically coupled multi-material assemblies. <i>Electrochemistry Communications</i> , 2014 , 41, 51-54	5.1	57
224	Cerium-based sealing of PEO coated AM50 magnesium alloy. <i>Surface and Coatings Technology</i> , 2015 , 269, 145-154	4.4	57
223	The role of individual components of simulated body fluid on the corrosion behavior of commercially pure Mg. <i>Corrosion Science</i> , 2019 , 147, 81-93	6.8	56
222	3D reconstruction of plasma electrolytic oxidation coatings on Mg alloy via synchrotron radiation tomography. <i>Corrosion Science</i> , 2018 , 139, 395-402	6.8	55
221	Bioactive plasma electrolytic oxidation coatings on Mg-Ca alloy to control degradation behaviour. <i>Surface and Coatings Technology</i> , 2017 , 315, 454-467	4.4	54
220	Nanocontainer-based corrosion sensing coating. <i>Nanotechnology</i> , 2013 , 24, 415502	3.4	54
219	Chitosan as a Smart Coating for Controlled Release of Corrosion Inhibitor 2-Mercaptobenzothiazole. <i>ECS Electrochemistry Letters</i> , 2013 , 2, C19-C22		51

218	Anion exchange in ZnAl layered double hydroxides: In situ X-ray diffraction study. <i>Chemical Physics Letters</i> , 2010 , 495, 73-76	2.5	51
217	A novel bilayer system comprising LDH conversion layer and sol-gel coating for active corrosion protection of AA2024. <i>Corrosion Science</i> , 2018 , 143, 299-313	6.8	49
216	Synergetic active corrosion protection of AA2024-T3 by 2D- anionic and 3D-cationic nanocontainers loaded with Ce and mercaptobenzothiazole. <i>Corrosion Science</i> , 2018 , 135, 35-45	6.8	46
215	Active sensing coating for early detection of corrosion processes. <i>RSC Advances</i> , 2014 , 4, 17780	3.7	46
214	Functionalized chitosan-based coatings for active corrosion protection. <i>Surface and Coatings Technology</i> , 2013 , 226, 51-59	4.4	46
213	Formation of self-lubricating PEO coating via in-situ incorporation of PTFE particles. <i>Surface and Coatings Technology</i> , 2018 , 337, 379-388	4.4	45
212	Corrosion inhibition of pure Mg containing a high level of iron impurity in pH neutral NaCl solution. <i>Corrosion Science</i> , 2018 , 142, 222-237	6.8	45
211	Comparative X-ray diffraction and infrared spectroscopy study of ZnAl layered double hydroxides: Vanadate vs nitrate. <i>Chemical Physics</i> , 2012 , 397, 102-108	2.3	45
210	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. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6113-6129	3.6	44
209	Revealing the impact of second phase morphology on discharge properties of binary Mg-Ca anodes for primary Mg-air batteries. <i>Corrosion Science</i> , 2019 , 153, 225-235	6.8	43
208	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. <i>Corrosion Science</i> , 2019 , 153, 258-271	6.8	43
207	Influence of surface pre-treatment on the deposition and corrosion properties of hydrophobic coatings on a magnesium alloy. <i>Corrosion Science</i> , 2016 , 112, 483-494	6.8	43
206	A multi-electrode cell for high-throughput SVET screening of corrosion inhibitors. <i>Corrosion Science</i> , 2010 , 52, 3146-3149	6.8	43
205	Cerium cinnamate as an environmentally benign inhibitor pigment for epoxy coatings on AA 2024-T3. <i>Progress in Organic Coatings</i> , 2014 , 77, 765-773	4.8	42
204	Lanthanide Salts as Corrosion Inhibitors for AA5083. Mechanism and Efficiency of Corrosion Inhibition. <i>Journal of the Electrochemical Society</i> , 2008 , 155, C169	3.9	40
203	Cerium molybdate nanowires for active corrosion protection of aluminium alloys. <i>Corrosion Science</i> , 2012 , 58, 41-51	6.8	39
202	Clarifying the decisive factors for utilization efficiency of Mg anodes for primary aqueous batteries. <i>Journal of Power Sources</i> , 2019 , 441, 227201	8.9	38
201	Double perovskite Sr(2)FeMoO(6) films prepared by electrophoretic deposition. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19201-6	9.5	38

200	Influence of sol-gel process parameters on the protection properties of sol-gel coatings applied on AA2024. <i>Surface and Coatings Technology</i> , 2014 , 246, 6-16	4.4	38
199	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. <i>Surface and Coatings Technology</i> , 2017 , 324, 208-221	4.4	37
198	Local pH and Its Evolution Near Mg Alloy Surfaces Exposed to Simulated Body Fluids. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800169	4.6	37
197	Surface evaluation and electrochemical behaviour of doped silane pre-treatments on galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2007 , 59, 214-223	4.8	36
196	Active protection of Mg alloy by composite PEO coating loaded with corrosion inhibitors. <i>Applied Surface Science</i> , 2020 , 504, 144462	6.7	36
195	Influence of electrical parameters on particle uptake during plasma electrolytic oxidation processing of AM50 Mg alloy. <i>Surface and Coatings Technology</i> , 2016 , 289, 179-185	4.4	35
194	The Reduction of Dissolved Oxygen During Magnesium Corrosion. <i>ChemistryOpen</i> , 2018 , 7, 664-668	2.3	35
193	Corrosion behaviour of WC-10% AISI 304 cemented carbides. <i>Corrosion Science</i> , 2015 , 100, 322-331	6.8	34
192	EIS Study of Amine Cured Epoxy-silica-zirconia Sol-gel Coatings for Corrosion Protection of the Aluminium Alloy EN AW 6063. <i>Portugaliae Electrochimica Acta</i> , 2013 , 31, 307-319	2.4	33
191	Microstructural influence on corrosion behavior of MgZnGe alloy in NaCl solution. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 179-192	5.7	33
190	Nanoporous magnesium. <i>Nano Research</i> , 2018 , 11, 6428-6435	10	33
189	Characterization and corrosion behavior of binary Mg-Ga alloys. <i>Materials Characterization</i> , 2017 , 128, 85-99	3.9	32
188	Influence of particle additions on corrosion and wear resistance of plasma electrolytic oxidation coatings on Mg alloy. <i>Surface and Coatings Technology</i> , 2018 , 352, 1-14	4.4	32
187	The wear characteristics of CeO ₂ containing nanocomposite coating made by aluminate-based PEO on AM 50 magnesium alloy. <i>Surface and Coatings Technology</i> , 2019 , 357, 626-637	4.4	32
186	Layered double hydroxide based active corrosion protective sealing of plasma electrolytic oxidation/sol-gel composite coating on AA2024. <i>Applied Surface Science</i> , 2019 , 494, 829-840	6.7	31
185	Micropotentiometric mapping of local distributions of Zn ²⁺ relevant to corrosion studies. <i>Electrochemistry Communications</i> , 2010 , 12, 394-397	5.1	31
184	Effects of graphene nanosheets on the ceramic coatings formed on Ti6Al4V alloy drill pipe by plasma electrolytic oxidation. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 996-1007	5.7	30
183	Photodegradation of 2-mercaptobenzothiazole and 1,2,3-benzotriazole corrosion inhibitors in aqueous solutions and organic solvents. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25152-60	3.6	30

182	PEO coatings design for Mg-Ca alloy for cardiovascular stent and bone regeneration applications. <i>Materials Science and Engineering C</i> , 2019 , 105, 110026	8.3	29
181	Performance boost for primary magnesium cells using iron complexing agents as electrolyte additives. <i>Scientific Reports</i> , 2018 , 8, 7578	4.9	28
180	Electrochemical deposition of zinc from deep eutectic solvent on barrier alumina layers. <i>Electrochimica Acta</i> , 2015 , 170, 284-291	6.7	27
179	Mechanisms of Localized Corrosion Inhibition of AA2024 by Cerium Molybdate Nanowires. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5811-5823	3.8	27
178	A SVET investigation on the modification of zinc dust reactivity. <i>Progress in Organic Coatings</i> , 2008 , 63, 282-290	4.8	27
177	Plasma electrolytic oxidation of AZ31 and AZ91 magnesium alloys: Comparison of coatings formation mechanism. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 587-600	8.8	27
176	Layered double hydroxides (LDHs) as functional materials for the corrosion protection of aluminum alloys: A review. <i>Applied Materials Today</i> , 2020 , 21, 100857	6.6	26
175	Volta Potential of Oxidized Aluminum Studied by Scanning Kelvin Probe Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8474-8484	3.8	25
174	How Density Functional Theory Surface Energies May Explain the Morphology of Particles, Nanosheets, and Conversion Films Based on Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2211-2220	3.8	24
173	Ca/In micro alloying as a novel strategy to simultaneously enhance power and energy density of primary Mg-air batteries from anode aspect. <i>Journal of Power Sources</i> , 2020 , 472, 228528	8.9	24
172	Initial stages of localized corrosion at cut-edges of adhesively bonded Zn and Zn-Al-Mg galvanized steel. <i>Electrochimica Acta</i> , 2016 , 211, 126-141	6.7	24
171	Thermal Behavior of Layered Double Hydroxide ZnAl ₂ Pyrovanadate: Composition, Structure Transformations, and Recovering Ability. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4152-4157	3.8	24
170	Hierarchically organized LiAl-LDH nano-flakes: a low-temperature approach to seal porous anodic oxide on aluminum alloys. <i>RSC Advances</i> , 2017 , 7, 35357-35367	3.7	24
169	Localized currents and pH distribution studied during corrosion of MA8 Mg alloy in the cell culture medium. <i>Corrosion Science</i> , 2020 , 170, 108689	6.8	23
168	Galvanic corrosion of Ti6Al4V-AA2024 joints in aircraft environment: Modelling and experimental validation. <i>Corrosion Science</i> , 2019 , 157, 70-78	6.8	22
167	Molybdate intercalated hydrotalcite/graphene oxide composite as corrosion inhibitor for carbon steel. <i>Surface and Coatings Technology</i> , 2020 , 399, 126165	4.4	22
166	One-step synthesis and growth mechanism of nitrate intercalated ZnAl LDH conversion coatings on zinc. <i>Chemical Communications</i> , 2019 , 55, 6878-6881	5.8	21
165	Modification of zinc powder to improve the corrosion resistance of weldable primers. <i>Progress in Organic Coatings</i> , 2010 , 69, 184-192	4.8	21

164	Zn-Al LDH growth on AA2024 and zinc and their intercalation with chloride: Comparison of crystal structure and kinetics. <i>Applied Surface Science</i> , 2020 , 501, 144027	6.7	21
163	Tailoring electrolyte additives for controlled Mg-Ca anode activity in aqueous Mg-air batteries. <i>Journal of Power Sources</i> , 2020 , 460, 228106	8.9	21
162	Tailoring the Mg-air primary battery performance using strong complexing agents as electrolyte additives. <i>Journal of Power Sources</i> , 2020 , 453, 227880	8.9	20
161	Impedance behaviour of anodic TiO ₂ films prepared by galvanostatic anodisation and powerful pulsed discharge in electrolyte. <i>Electrochimica Acta</i> , 2012 , 76, 453-461	6.7	20
160	In silico screening of modulators of magnesium dissolution. <i>Corrosion Science</i> , 2020 , 163, 108245	6.8	20
159	Approaching "stainless magnesium" by Ca micro-alloying. <i>Materials Horizons</i> , 2021 , 8, 589-596	14.4	20
158	Characterisation and corrosion behaviour of plasma electrolytic oxidation coatings on high pressure die cast Mg ₉₅ Al _{0.4} Mn _{0.4} Ce (x = 0, 0.5, 1) alloys. <i>Surface and Coatings Technology</i> , 2015 , 269, 200-211	4.4	19
157	Active Corrosion Protection by Nanoparticles and Conversion Films of Layered Double Hydroxides. <i>Corrosion</i> , 2014 , 70, 436-445	1.8	19
156	Active protective Al ₂ O ₃ alloy coating electrodeposited from ionic liquid. <i>Electrochemistry Communications</i> , 2010 , 12, 729-732	5.1	19
155	Insight into physical interpretation of high frequency time constant in electrochemical impedance spectra of Mg. <i>Corrosion Science</i> , 2021 , 187, 109501	6.8	19
154	Influence of stripping and cooling atmospheres on surface properties and corrosion of zinc galvanizing coatings. <i>Applied Surface Science</i> , 2016 , 389, 144-156	6.7	19
153	Effect of unequal levels of deformation and fragmentation on the electrochemical response of friction stir welded AA2024-T3 alloy. <i>Electrochimica Acta</i> , 2019 , 313, 271-281	6.7	18
152	Influence of water purity on the corrosion behavior of Mg _{0.5} Zn _x (X=Ca, Ge) alloys. <i>Corrosion Science</i> , 2019 , 153, 62-73	6.8	18
151	Boron doped nanocrystalline diamond microelectrodes for the detection of Zn ²⁺ and dissolved O ₂ . <i>Electrochimica Acta</i> , 2012 , 76, 487-494	6.7	18
150	Flash-PEO as an alternative to chromate conversion coatings for corrosion protection of Mg alloy. <i>Corrosion Science</i> , 2021 , 180, 109189	6.8	18
149	Interaction effect between different constituents in silicate-containing electrolyte on PEO coatings on Mg alloy. <i>Surface and Coatings Technology</i> , 2016 , 307, 825-836	4.4	18
148	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	6.7	17
147	Influence of cathodic duty cycle on the properties of tungsten containing Al ₂ O ₃ /TiO ₂ PEO nano-composite coatings. <i>Surface and Coatings Technology</i> , 2018 , 340, 210-221	4.4	17

146	Investigation of electrode distance impact on PEO coating formation assisted by simulation. <i>Applied Surface Science</i> , 2016 , 388, 304-312	6.7	17
145	Corrosion and discharge properties of Ca/Ge micro-alloyed Mg anodes for primary aqueous Mg batteries. <i>Corrosion Science</i> , 2020 , 177, 108958	6.8	17
144	Galvanically Stimulated Degradation of Carbon-Fiber Reinforced Polymer Composites: A Critical Review. <i>Materials</i> , 2019 , 12,	3.5	16
143	Data Science Based Mg Corrosion Engineering. <i>Frontiers in Materials</i> , 2019 , 6,	4	16
142	High rate oxygen reduction reaction during corrosion of ultra-high-purity magnesium. <i>Npj Materials Degradation</i> , 2020 , 4,	5.7	16
141	In situ surface film evolution during Mg aqueous corrosion in presence of selected carboxylates. <i>Corrosion Science</i> , 2020 , 171, 108484	6.8	16
140	Novel diamond microelectrode for pH sensing. <i>Electrochemistry Communications</i> , 2014 , 40, 31-34	5.1	16
139	A model describing the growth of a PEO coating on AM50 Mg alloy under constant voltage mode. <i>Electrochimica Acta</i> , 2017 , 251, 461-474	6.7	16
138	Plasma electrolytic oxidation of zinc alloy in a phosphate-aluminate electrolyte. <i>Applied Surface Science</i> , 2020 , 505, 144552	6.7	16
137	Control of the Mg alloy biodegradation via PEO and polymer-containing coatings. <i>Corrosion Science</i> , 2021 , 182, 109254	6.8	16
136	Validating the early corrosion sensing functionality in poly (ether imide) coatings for enhanced protection of magnesium alloy AZ31. <i>Corrosion Science</i> , 2018 , 140, 307-320	6.8	16
135	Role of Phase Composition of PEO Coatings on AA2024 for In-Situ LDH Growth. <i>Coatings</i> , 2017 , 7, 190	2.9	15
134	New fluorinated diamond microelectrodes for localized detection of dissolved oxygen. <i>Sensors and Actuators B: Chemical</i> , 2014 , 204, 544-551	8.5	15
133	Barrier properties of polyurethane coil coatings treated by microwave plasma polymerization. <i>Surface and Coatings Technology</i> , 2006 , 200, 4040-4049	4.4	15
132	Antimicrobial activity of 2-mercaptobenzothiazole released from environmentally friendly nanostructured layered double hydroxides. <i>Journal of Applied Microbiology</i> , 2017 , 122, 1207-1218	4.7	14
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