

# Guang-Ling Song

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

208  
papers

17,852  
citations

62  
h-index

132  
g-index

217  
ext. papers

20,238  
ext. citations

5.3  
avg, IF

7.27  
L-index

#	Paper	IF	Citations
208	The effect of a biofilm-forming bacterium <i>Tenacibaculum mesophilum</i> D-6 on the passive film of stainless steel in the marine environment.. <i>Science of the Total Environment</i> , <b>2022</b> , 815, 152909	10.2	1
207	The controlled in-situ growth of silver-halloysite nanostructure via interaction bonds to reinforce a novel polybenzoxazine composite resin and improve its antifouling and anticorrosion properties. <i>Composites Science and Technology</i> , <b>2022</b> , 221, 109312	8.6	0
206	Intrinsic and extrinsic doping to construct hematite nanorod p-n homojunctions for highly efficient PEC water splitting. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135016	14.7	0
205	Intelligentization of traditional sacrificial anode Zn by Mg-alloying for reinforcing steel. <i>Corrosion Science</i> , <b>2022</b> , 194, 109943	6.8	0
204	Electrochemical Stability and Biofouling Behavior of Differently Polarized Ti Surfaces in Simulated and Natural Seawater. <i>Journal of Materials Engineering and Performance</i> , <b>2022</b> , 31, 2823	1.6	
203	High-energy-capacity metal-air battery based on a magnetron-sputtered MgAl anode. <i>Journal of Power Sources</i> , <b>2022</b> , 520, 230874	8.9	0
202	In-situ repair of marine coatings by a Fe <sub>3</sub> O <sub>4</sub> nanoparticle-modified epoxy resin under seawater. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132827	14.7	0
201	Corrosion of Mg Alloys <b>2022</b> , 46-74		2
200	Prediction of long-term service life of an organic coating based on short-term exposure results. <i>Anti-Corrosion Methods and Materials</i> , <b>2022</b> , ahead-of-print, 269	0.8	
199	Naturally effective inhibition of microbial corrosion by bacterium-alga symbiosis on 304 stainless steel. <i>Journal of Cleaner Production</i> , <b>2022</b> , 131823	10.3	1
198	Electrochemical Characterization of an Oil/Water Alternately Wetted Rotating Cylinder Electrode. <i>Corrosion</i> , <b>2021</b> , 77, 72-84	1.8	0
197	Fabrication of CdSe/ZnIn <sub>2</sub> S <sub>4</sub> modified TiO <sub>2</sub> nanotube composite and its application in photoelectrochemical cathodic protection. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 904, 115884	4.1	1
196	Achieving Ultrahigh Anodic Efficiency via Single-Phase Design of Mg-Zn Alloy Anode for Mg-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
195	A Mg alloy with no hydrogen evolution during dissolution. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	5
194	Influence of dissolved oxygen on the corrosion of mild steel in a simulated cement pore solution under supercritical carbon dioxide. <i>Construction and Building Materials</i> , <b>2021</b> , 311, 125270	6.7	0
193	Surface white spot and pitting corrosion of 316 L stainless steel. <i>Anti-Corrosion Methods and Materials</i> , <b>2021</b> , 68, 1-8	0.8	0
192	The influence of adding samarium on the microstructure, mechanical performance and corrosion behavior of as-extruded AZ41 alloys. <i>Journal of Physics and Chemistry of Solids</i> , <b>2021</b> , 150, 109851	3.9	3

191	The localized corrosion of mild steel in carbonated cement pore solution under supercritical carbon-dioxide in a simulated geothermal environment. <i>Construction and Building Materials</i> , <b>2021</b> , 274, 122035	6.7	3
190	Fabrication and synergistic antibacterial and antifouling effect of an organic/inorganic hybrid coating embedded with nanocomposite Ag@TA-SiO particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 613, 126085	5.1	9
189	Galvanic activity of carbon fiber reinforced polymers and electrochemical behavior of carbon fiber. <i>Corrosion Communications</i> , <b>2021</b> , 1, 26-39		2
188	Corrosion damage in frozen 3.5 wt.% NaCl solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2021</b> , 72, 1396-1409	1.6	0
187	Influence of heat treatment on corrosion behavior of hot rolled Mg5Gd alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2021</b> , 31, 939-951	3.3	6
186	The corrosion of Al-supersaturated Mg matrix and the galvanic effect of secondary phase nanoparticles. <i>Corrosion Science</i> , <b>2021</b> , 184, 109410	6.8	12
185	Improvement of intelligent corrosivity-detection and corrosion-protection for reinforcing steel. <i>Corrosion Science</i> , <b>2021</b> , 184, 109396	6.8	5
184	A burnished and Al-alloyed magnesium surface with improved mechanical and corrosion properties. <i>Corrosion Science</i> , <b>2021</b> , 184, 109395	6.8	5
183	A novel fabrication method of surface-porous Mg-Al alloy and its corrosion property. <i>Materials Today Communications</i> , <b>2021</b> , 27, 102415	2.5	0
182	The anodically polarized Mg surface products and accelerated hydrogen evolution. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	6
181	The Real Current Density Distribution on Mg Surface. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 077505	3.9	2
180	A protective superhydrophobic MgZnAl LDH film on Surface-Alloyed Magnesium. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157550	5.7	14
179	Crevice corrosion of steel rebar in chloride-contaminated concrete. <i>Construction and Building Materials</i> , <b>2021</b> , 296, 123587	6.7	3
178	Ag/SnO <sub>2</sub> /TiO <sub>2</sub> nanotube composite film used in photocathodic protection for stainless steel. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 417, 113353	4.7	3
177	The corrosion damage of an organic coating accelerated by different AC-DC-AC tests. <i>Engineering Failure Analysis</i> , <b>2021</b> , 126, 105461	3.2	2
176	Modified AC-DC-AC method for evaluation of corrosion damage of acrylic varnish paint coating/Q215 steel system. <i>Progress in Organic Coatings</i> , <b>2021</b> , 159, 106401	4.8	1
175	Development of a curcumin-based antifouling and anticorrosion sustainable polybenzoxazine resin composite coating. <i>Composites Part B: Engineering</i> , <b>2021</b> , 225, 109263	10	9
174	A chloride-sensitive corrosion sensor and protector made of an optimized Mg-Al alloy for reinforcing steel. <i>Materials and Design</i> , <b>2021</b> , 210, 110028	8.1	1

173	Self-repairing functionality and corrosion resistance of in-situ Mg-Al LDH film on Al-alloyed AZ31 surface. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	1
172	What activates the Mg surface? A comparison of Mg dissolution mechanisms. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 57, 204-220	9.1	29
171	Micro-galvanic corrosion during formation of epoxy coating. <i>Progress in Organic Coatings</i> , <b>2020</b> , 147, 105799	4.8	5
170	Copper ion accelerated local failure of epoxy coating on NdFeB magnet in immersion conditions. <i>Engineering Failure Analysis</i> , <b>2020</b> , 115, 104677	3.2	1
169	Fluid structure governing the corrosion behavior of mild steel in oil/water mixtures. <i>Corrosion Engineering Science and Technology</i> , <b>2020</b> , 55, 241-252	1.7	4
168	A corrosion resistant die-cast Mg-9Al-1Zn anode with superior discharge performance for Mg-air battery. <i>Materials and Design</i> , <b>2020</b> , 194, 108931	8.1	17
167	Corrosivity of haze constituents to pure Mg. <i>Journal of Magnesium and Alloys</i> , <b>2020</b> , 8, 150-162	8.8	7
166	The Zn <sup>2+</sup> Destabilized Surface Film and Accelerated Corrosion of Magnesium. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 161508	3.9	1
165	Modification, Degradation and Evaluation of a Few Organic Coatings for Some Marine Applications. <i>Corrosion and Materials Degradation</i> , <b>2020</b> , 1, 408-442	2.6	3
164	The marine atmospheric corrosion of pure Mg and Mg alloys in field exposure and lab simulation. <i>Corrosion Engineering Science and Technology</i> , <b>2020</b> , 55, 609-621	1.7	2
163	Modification of an alkyd resin coating by airflow. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2020</b> , 71, 637-645	1.6	1
162	Influence of microstructure of carbon fibre reinforced polymer on the metal in contact. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 560-573	5.5	10
161	Review of Mg alloy corrosion rates. <i>Journal of Magnesium and Alloys</i> , <b>2020</b> , 8, 989-998	8.8	54
160	Salt crystallization-assisted degradation of epoxy resin surface in simulated marine environments. <i>Progress in Organic Coatings</i> , <b>2020</b> , 149, 105932	4.8	4
159	Batch transportation of oil and water for reducing pipeline corrosion. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 195, 107583	4.4	5
158	Microstructure modification and corrosion resistance enhancement of die-cast Mg-Al-Re alloy by Sr alloying. <i>Journal of Magnesium and Alloys</i> , <b>2020</b> , 9, 950-950	8.8	6
157	Facile fabrication of BiVO <sub>4</sub> modified TiO <sub>2</sub> nanotube film photoanode and its photocathodic protection effect on stainless steel. <i>Corrosion Science</i> , <b>2019</b> , 157, 247-255	6.8	36
156	The Inhibitive Effect of Artificial Seawater on Magnesium Corrosion. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900363	3.5	11

155	Carbon quantum dots/Ag sensitized TiO <sub>2</sub> nanotube film for applications in photocathodic protection. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 797, 912-921	5.7	19
154	Review of the atmospheric corrosion of magnesium alloys. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 2003-2016	9.1	61
153	Magnesium alloy anode as a smart corrosivity detector and intelligent sacrificial anode protector for reinforced concrete. <i>Corrosion Science</i> , <b>2019</b> , 155, 13-28	6.8	18
152	Effect of vacuum degree on adhesion strength and corrosion resistance of magnetron sputtered aluminum coating on NdFeB magnet. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 1230-1241	1.6	3
151	Response of a semiliquid epoxy film to a DC plasma. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 16LT01	3	2
150	Corrosion mitigation behavior of an alternately wetted steel electrode in oil/water media. <i>Corrosion Science</i> , <b>2019</b> , 152, 140-152	6.8	10
149	The corrosion of pure Mg accelerated by haze pollutant ammonium sulphate. <i>Corrosion Science</i> , <b>2019</b> , 150, 161-174	6.8	21
148	Design of tailored biodegradable implants: The effect of voltage on electrodeposited calcium phosphate coatings on pure magnesium. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 123-135	3.8	16
147	A novel single-electrode AC probe for rapid monitoring of both instantaneous and accumulated electrochemical parameters in corrosion. <i>Electrochimica Acta</i> , <b>2019</b> , 321, 134664	6.7	2
146	A double-mode cell to measure pitting and crevice corrosion. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 2228-2237	1.6	4
145	Two-dimensional anisotropic electrochemical behavior of carbon fiber. <i>Electrochimica Acta</i> , <b>2019</b> , 326, 135005	6.7	4
144	Corrosion behavior of the joints of carbon fiber reinforced polymers with DP590 steel and Al6022 alloy. <i>Anti-Corrosion Methods and Materials</i> , <b>2019</b> , 66, 479-485	0.8	3
143	Corrosion Control in CO <sub>2</sub> Enhanced Oil Recovery From a Perspective of Multiphase Fluids. <i>Frontiers in Materials</i> , <b>2019</b> , 6,	4	13
142	The Corrosion Behavior of Mg5Y in Nominally Distilled Water. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700986	3.5	6
141	Electric field induced surface modification and impermeability enhancement for a polymer film. <i>AIP Advances</i> , <b>2018</b> , 8, 075102	1.5	2
140	Active corrosion protection by a smart coating based on a MgAl-layered double hydroxide on a cerium-modified plasma electrolytic oxidation coating on Mg alloy AZ31. <i>Corrosion Science</i> , <b>2018</b> , 139, 370-382	6.8	174
139	Effect of the Microstructure of Carbon Fiber Reinforced Polymer on Electrochemical Behavior. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, C647-C656	3.9	8
138	Enhanced photoelectrochemical performances of ZnS-Bi <sub>2</sub> S <sub>3</sub> /TiO <sub>2</sub> /WO <sub>3</sub> composite film for photocathodic protection. <i>Corrosion Science</i> , <b>2018</b> , 143, 31-38	6.8	41

137	A state-of-the-art review on passivation and biofouling of Ti and its alloys in marine environments. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 421-435	9.1	51
136	An Analytical Model for the Corrosion Risk of Water Alternating Gas Injection Wells in CO <sub>2</sub> Enhanced Oil Recovery. <i>Advanced Theory and Simulations</i> , <b>2018</b> , 1, 1800041	3.5	4
135	Galvanic Effect Between Galvanized Steel and Carbon Fiber Reinforced Polymers. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2017</b> , 30, 342-351	2.5	11
134	Corrosion behaviour of friction-bit-joined and weld-bonded AA7075-T6/galvannealed DP980. <i>Science and Technology of Welding and Joining</i> , <b>2017</b> , 22, 455-464	3.7	15
133	Rapid Diffusion and Nanosegregation of Hydrogen in Magnesium Alloys from Exposure to Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38125-38134	9.5	10
132	Tracer Film Growth Study of the Corrosion of Magnesium Alloys AZ31B and ZE10A in 0.01% NaCl Solution. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C367-C375	3.9	14
131	The Surface Films and Their Possible Roles in Mg Corrosion <b>2016</b> , 285-290		1
130	Corrosion and passivation of magnesium alloys. <i>Corrosion Science</i> , <b>2016</b> , 111, 835-845	6.8	204
129	Flow-induced corrosion of absorbable magnesium alloy: In-situ and real-time electrochemical study. <i>Corrosion Science</i> , <b>2016</b> , 104, 277-289	6.8	59
128	Localized Corrosion of Binary Mg-Al Alloy in 0.9 wt% Sodium Chloride Solution. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2016</b> , 29, 46-57	2.5	17
127	Assessment of localized corrosion under simulated physiological conditions of magnesium samples with heterogeneous microstructure: Value of X-ray computed micro-tomography platform. <i>Corrosion Science</i> , <b>2016</b> , 104, 187-196	6.8	10
126	The corrosion and passivity of sputtered Mg-Al alloys. <i>Corrosion Science</i> , <b>2016</b> , 104, 36-46	6.8	22
125	The Surface Films and Their Possible Roles in Mg Corrosion <b>2016</b> , 285-290		0
124	Study of mechanical joint strength of aluminum alloy 7075-T6 and dual phase steel 980 welded by friction bit joining and weld-bonding under corrosion medium. <i>Materials &amp; Design</i> , <b>2015</b> , 69, 37-43		30
123	Film Breakdown and Nano-Porous Mg(OH) <sub>2</sub> Formation from Corrosion of Magnesium Alloys in Salt Solutions. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, C140-C149	3.9	98
122	Influence of hot rolling on the corrosion behavior of several Mg-Al alloys. <i>Corrosion Science</i> , <b>2015</b> , 90, 176-191	6.8	96
121	The anodic surface film and hydrogen evolution on Mg. <i>Corrosion Science</i> , <b>2015</b> , 98, 758-765	6.8	97
120	Stress corrosion cracking of several solution heat-treated Mg-Al alloys. <i>Corrosion Science</i> , <b>2015</b> , 96, 121-132		34

119	Stress corrosion cracking of several hot-rolled binary Mg <sub>2</sub> alloys. <i>Corrosion Science</i> , <b>2015</b> , 98, 6-19	6.8	21
118	Influence of casting porosity on the corrosion behaviour of Mg <sub>0.1</sub> Si. <i>Corrosion Science</i> , <b>2015</b> , 94, 255-269	6.8	21
117	Review of Recent Developments in the Field of Magnesium Corrosion. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 400-453	3.5	452
116	Tracer Film Growth Study of Hydrogen and Oxygen from the Corrosion of Magnesium in Water. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, C395-C404	3.9	26
115	Low apparent valence of Mg during corrosion. <i>Corrosion Science</i> , <b>2014</b> , 88, 434-443	6.8	51
114	The possibility of forming a sacrificial anode coating for Mg. <i>Corrosion Science</i> , <b>2014</b> , 87, 11-14	6.8	25
113	Microstructure and corrosion behavior of die-cast AM60B magnesium alloys in a complex salt solution: A slow positron beam study. <i>Corrosion Science</i> , <b>2014</b> , 81, 65-74	6.8	7
112	Effect of bicarbonate on biodegradation behaviour of pure magnesium in a simulated body fluid. <i>Electrochimica Acta</i> , <b>2014</b> , 115, 56-65	6.7	47
111	Corrosion mechanism and evaluation of anodized magnesium alloys. <i>Corrosion Science</i> , <b>2014</b> , 85, 126-140	6.8	138
110	The Grand Challenges in Electrochemical Corrosion Research. <i>Frontiers in Materials</i> , <b>2014</b> , 1,	4	8
109	Transmission Electron Microscopy Study of Aqueous Film Formation and Evolution on Magnesium Alloys. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, C302-C311	3.9	97
108	Corrosion and electrochemical evaluation of an Al <sub>3</sub> Si <sub>2</sub> Ti aluminum alloy in ethanol solutions. <i>Corrosion Science</i> , <b>2013</b> , 72, 73-81	6.8	31
107	Corrosion of ultra-high-purity Mg in 3.5% NaCl solution saturated with Mg(OH) <sub>2</sub> . <i>Corrosion Science</i> , <b>2013</b> , 75, 78-99	6.8	201
106	Impurity control and corrosion resistance of magnesium-aluminum alloy. <i>Corrosion Science</i> , <b>2013</b> , 77, 143-150	6.8	47
105	Corrosion behaviour in salt spray and in 3.5% NaCl solution saturated with Mg(OH) <sub>2</sub> of as-cast and solution heat-treated binary Mg-RE alloys: RE = Ce, La, Nd, Y, Gd. <i>Corrosion Science</i> , <b>2013</b> , 76, 98-118	6.8	104
104	Corrosion behaviour in salt spray and in 3.5% NaCl solution saturated with Mg(OH) <sub>2</sub> of as-cast and solution heat-treated binary Mg <sub>2</sub> alloys: X=Mn, Sn, Ca, Zn, Al, Zr, Si, Sr. <i>Corrosion Science</i> , <b>2013</b> , 76, 60-97	6.8	150
103	Advances in Mg corrosion and research suggestions. <i>Journal of Magnesium and Alloys</i> , <b>2013</b> , 1, 177-200	8.8	311
102	2-Hydroxy-4-methoxy-acetophenone as an environment-friendly corrosion inhibitor for AZ91D magnesium alloy. <i>Corrosion Science</i> , <b>2013</b> , 74, 35-43	6.8	59

101	Self-corrosion, galvanic corrosion and inhibition of GW103 and AZ91D Mg alloys in ethylene glycol solution. <i>Corrosion Engineering Science and Technology</i> , <b>2013</b> , 48, 155-160	1.7	7
100	Corrosion prevention of magnesium alloys <b>2013</b> ,		29
99	Direct electroless nickel-boron plating on AZ91D magnesium alloy. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 3676-3685	4.4	62
98	Recent progress in corrosion protection of magnesium alloys by organic coatings. <i>Progress in Organic Coatings</i> , <b>2012</b> , 73, 129-141	4.8	270
97	A Study on Tetraphenylporphyrin as a Corrosion Inhibitor for Pure Magnesium. <i>Electrochemical and Solid-State Letters</i> , <b>2012</b> , 15, C13		8
96	Effect of microstructure evolution on corrosion of different crystal surfaces of AZ31 Mg alloy in a chloride containing solution. <i>Corrosion Science</i> , <b>2012</b> , 54, 97-105	6.8	160
95	Grain refined and basal textured surface produced by burnishing for improved corrosion performance of AZ31B Mg alloy. <i>Corrosion Science</i> , <b>2012</b> , 57, 192-201	6.8	183
94	The effect of surface pretreatment on the corrosion performance of Electroless E-coating coated AZ31. <i>Corrosion Science</i> , <b>2012</b> , 62, 61-72	6.8	37
93	Crystal orientation and electrochemical corrosion of polycrystalline Mg. <i>Corrosion Science</i> , <b>2012</b> , 63, 100-112	6.8	139
92	Research on the inhibition mechanism of tetraphenylporphyrin on AZ91D magnesium alloy. <i>Corrosion Science</i> , <b>2012</b> , 63, 367-378	6.8	40
91	An investigation of new barium phosphate chemical conversion coating on AZ31 magnesium alloy. <i>Surface and Coatings Technology</i> , <b>2012</b> , 210, 156-165	4.4	46
90	The Effect of Texture on the Corrosion Behavior of AZ31 Mg Alloy. <i>Jom</i> , <b>2012</b> , 64, 671-679	2.1	61
89	Corrosion study of new surface treatment/coating for AZ31B magnesium alloy. <i>Surface Engineering</i> , <b>2012</b> , 28, 486-490	2.6	9
88	Effect of Additives and Heat Treatment on the Formation and Performance of Electroless Nickel-Boron Plating on AZ91D Mg Alloy. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, D406-D412	3.9	13
87	Galvanic Corrosion and Inhibition of GW103 and AZ91D Mg Alloys Coupled to an Al Alloy in an Ethylene Glycol Solution at Ambient and Elevated Temperatures. <i>Corrosion</i> , <b>2012</b> , 68, 475-488	1.8	6
86	Electroless E-Coating for Magnesium Alloys <b>2012</b> , 229-234		
85	The effect of Mg alloy substrate on Electroless E-coating performance. <i>Corrosion Science</i> , <b>2011</b> , 53, 3500-3508	6.8	24
84	The synergistic inhibition effect of organic silicate and inorganic Zn salt on corrosion of Mg-10Gd-3Y magnesium alloy. <i>Corrosion Science</i> , <b>2011</b> , 53, 4093-4101	6.8	40



83	Corrosion Performance of Mg-Ti Alloys Synthesized by Magnetron Sputtering <b>2011</b> , 611-615		
82	Ultrafine-grained surface layer on Mg <sub>90</sub> Al <sub>10</sub> Zn alloy produced by cryogenic burnishing for enhanced corrosion resistance. <i>Scripta Materialia</i> , <b>2011</b> , 65, 520-523	5.6	109
81	A dipping E-coating for Mg alloys. <i>Progress in Organic Coatings</i> , <b>2011</b> , 70, 252-258	4.8	30
80	The topography of magnetron sputter-deposited Mg <sub>90</sub> Ti alloy thin films. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 125, 548-552	4.4	37
79	Inhibition effect of inorganic and organic inhibitors on the corrosion of Mg <sub>90</sub> Gd <sub>5</sub> Y <sub>2.5</sub> Zr alloy in an ethylene glycol solution at ambient and elevated temperatures. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 10166-10178	6.7	73
78	Corrosion of magnesium alloys <b>2011</b> ,		54
77	Corrosion Performance of Mg-Ti Alloys Synthesized by Magnetron Sputtering <b>2011</b> , 611-615		0
76	Self-deposited E-coating for Mg Alloys <b>2010</b> ,		1
75	Lab Evaluation and Comparison of Corrosion Performance of Mg Alloys. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , <b>2010</b> , 3, 554-564	0.3	3
74	Potential and current distributions of one-dimensional galvanic corrosion systems. <i>Corrosion Science</i> , <b>2010</b> , 52, 455-480	6.8	78
73	Electrochemical reactivity, surface composition and corrosion mechanisms of the complex metallic alloy Al <sub>3</sub> Mg <sub>2</sub> . <i>Corrosion Science</i> , <b>2010</b> , 52, 562-578	6.8	60
72	Microstructure and corrosion performance of a cold sprayed aluminium coating on AZ91D magnesium alloy. <i>Corrosion Science</i> , <b>2010</b> , 52, 3191-3197	6.8	135
71	The influence of yttrium (Y) on the corrosion of Mg <sub>90</sub> binary alloys. <i>Corrosion Science</i> , <b>2010</b> , 52, 3687-3701	6.8	246
70	Crystallographic orientation and electrochemical activity of AZ31 Mg alloy. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 1009-1012	5.1	228
69	Electroless deposition of a pre-film of electrophoresis coating and its corrosion resistance on a Mg alloy. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 2258-2268	6.7	78
68	The surface, microstructure and corrosion of magnesium alloy AZ31 sheet. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 4148-4161	6.7	220
67	Electroless E-Coating: An Innovative Surface Treatment for Magnesium Alloys. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, D77		30
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