

# Nick Birbilis

## 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.

382  
papers

20,431  
citations

75  
h-index

128  
g-index

402  
ext. papers

24,537  
ext. citations

4.8  
avg, IF

7.45  
L-index

#	Paper	IF	Citations
382	Corrosion-resistant Mg(OH) <sub>2</sub> /Mg-Fe layered double hydroxide (LDH) composite films on magnesium alloy WE43. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2022</b> , 131, 104169	5.3	1
381	On the pitting behaviour of laser powder bed fusion prepared 316L stainless steel upon post-processing heat treatments. <i>Corrosion Science</i> , <b>2022</b> , 197, 110060	6.8	0
380	A Review of Corrosion under Insulation: A Critical Issue in the Oil and Gas Industry. <i>Metals</i> , <b>2022</b> , 12, 5612.3	2.3	2
379	cardiGAN: A generative adversarial network model for design and discovery of multi principal element alloys. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 125, 81-96	9.1	0
378	A Closer Look at the Passivity and Transpassive Dissolution of Chromium Using Atomic Spectroelectrochemistry <b>2022</b> , 1, 011501		0
377	Optimisation of alloy composition for highly-formable magnesium sheet. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2022</b> , 29, 1388-1395	3.1	3
376	Insight into the Effect of Mg(OH) <sub>2</sub> Films vs. Noble Element Enrichment on the Global and Local Cathodic Activation of Corroding Mg. <i>Corrosion</i> , <b>2021</b> , 77, 115-133	1.8	0
375	Localized Atmospheric Corrosion of Magnesium-Aluminum Alloys Produced by Semisolid Casting: A 2D and 3D Investigation. <i>Corrosion</i> , <b>2021</b> , 77, 242-253	1.8	0
374	Influence of second phase particles on the mechanical properties of a high solute Al-Zn-Mg alloy fabricated through laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 897, 162958	5.7	
373	Improved intergranular corrosion resistance of Al-Mg-Mn alloys with Sc and Zr additions.. <i>Micron</i> , <b>2021</b> , 154, 103202	2.3	0
372	In Vitro Biocompatibility of Surface Corrosion Films upon Magnesium. <i>Corrosion</i> , <b>2021</b> , 77, 218-227	1.8	
371	A low-cost, low-density, and corrosion resistant AlFeMnSi compositionally complex alloy. <i>Npj Materials Degradation</i> , <b>2021</b> , 5,	5.7	2
370	Deformation modes during room temperature tension of fine-grained pure magnesium. <i>Acta Materialia</i> , <b>2021</b> , 206, 116648	8.4	10
369	On the heat treatment and mechanical properties of a high solute AlZnMg alloy processed through laser powder bed fusion process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 807, 140857	5.3	10
368	On the dynamic passivity and corrosion resistance of a low cost and low density multi-principal-element alloy produced via commodity metals. <i>Electrochemistry Communications</i> , <b>2021</b> , 125, 106989	5.1	8
367	In Situ Investigation of the Role of Hydrogen Evolution on the Estimated Metastable Pit Sizes in an Al-Mg Alloy. <i>Corrosion</i> , <b>2021</b> , 77, 923-932	1.8	
366	The reliability of metastable pit sizes estimated from dissolution current in aluminium alloys. <i>Corrosion Science</i> , <b>2021</b> , 182, 109276	6.8	2

365	Understanding the formation of (Al,Si) <sub>3</sub> Sc and V-phase (AlSc <sub>2</sub> Si <sub>2</sub> ) in Al-Si-Sc alloys via ex situ heat treatments and in situ transmission electron microscopy studies. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 861, 158511	5.7	9
364	A perspective on corrosion of multi-principal element alloys. <i>Npj Materials Degradation</i> , <b>2021</b> , 5,	5.7	18
363	Growth Kinetics of Multi-Oxide Passive Film Formed Upon the Multi-Principal Element Alloy AlTiVCr: Effect of Transpassive Dissolution of V and Cr. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 051506	3.9	2
362	The effect of post-processing heat treatment on the microstructure, residual stress and mechanical properties of selective laser melted 316L stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 821, 141611	5.3	15
361	On the effect of build orientation and residual stress on the corrosion of 316L stainless steel prepared by selective laser melting. <i>Corrosion Science</i> , <b>2021</b> , 179, 109149	6.8	16
360	Advances in LDH coatings on Mg alloys for biomedical applications: A corrosion perspective. <i>Applied Clay Science</i> , <b>2021</b> , 202, 105948	5.2	19
359	Toward a Physical Description of the Role of Germanium in Moderating Cathodic Activation of Magnesium. <i>Corrosion</i> , <b>2021</b> , 77, 134-147	1.8	1
358	The composition-dependent oxidation film formation in Mg-Li-Al alloys. <i>Corrosion Science</i> , <b>2021</b> , 187, 109508	6.8	3
357	Critical review of the state of the art in multi-material fabrication via directed energy deposition. <i>Current Opinion in Solid State and Materials Science</i> , <b>2021</b> , 25, 100924	12	18
356	Effect of multiaxial deformation on structure, mechanical properties, and corrosion resistance of a Mg-Ca alloy. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	1
355	On the corrosion of a high solute Al-Zn-Mg alloy produced by laser powder bed fusion. <i>Corrosion Science</i> , <b>2021</b> , 189, 109626	6.8	2
354	Element-resolved electrochemical analysis of the passivity of additively manufactured stainless steel 316L. <i>Corrosion Science</i> , <b>2021</b> , 189, 109576	6.8	5
353	Corrosion resistant and tough multi-principal element Cr-Co-Ni alloys. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 884, 161107	5.7	4
352	Clarifying the Role of Mg <sub>2</sub> Si and Si in Localized Corrosion of Aluminum Alloys by Quasi In Situ Transmission Electron Microscopy. <i>Corrosion</i> , <b>2020</b> , 76, 464-475	1.8	11
351	Effect of energy density on the interface evolution of stainless steel 316L deposited upon INC 625 via directed energy deposition. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 13314-13328	4.3	12
350	Reply to "Comment on 'Atomistic Mechanisms of Mg Insertion Reactions in Group XIV Anodes for Mg-Ion Batteries'". <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 14739-14740	9.5	
349	On the Microstructure and Electrochemical Properties of Additively Manufactured Duplex Stainless Steels Produced Using Laser-Powder Bed Fusion. <i>Corrosion</i> , <b>2020</b> , 76, 871-883	1.8	13
348	Corrosion of mild steel under insulation [The effect of dissolved metal ions. <i>Corrosion Engineering Science and Technology</i> , <b>2020</b> , 55, 322-330	1.7	7

347	The defining role of interface crystallography in corrosion of a two-phase pearlitic steel. <i>Philosophical Magazine</i> , <b>2020</b> , 100, 1439-1453	1.6	2
346	Real-time dissolution of a compositionally complex alloy using inline ICP and correlation with XPS. <i>Npj Materials Degradation</i> , <b>2020</b> , 4,	5.7	12
345	Unravelling the characteristics of Al-alloy corrosion at the atomic to nanometre scale by transmission electron microscopy. <i>MATEC Web of Conferences</i> , <b>2020</b> , 326, 01007	0.3	
344	CES & T special edition to commemorate the contribution of Professor Brian Cherry to corrosion engineering. <i>Corrosion Engineering Science and Technology</i> , <b>2020</b> , 55, 281-282	1.7	
343	Effect of build height on the properties of large format stainless steel 316L fabricated via directed energy deposition. <i>Additive Manufacturing</i> , <b>2020</b> , 34, 101205	6.1	15
342	A detailed microstructural and corrosion analysis of magnesium alloy WE43 manufactured by selective laser melting. <i>Additive Manufacturing</i> , <b>2020</b> , 35, 101321	6.1	14
341	Electrochemical studies on the effect of residual stress on the corrosion of 316L manufactured by selective laser melting. <i>Corrosion Science</i> , <b>2020</b> , 164, 108314	6.8	51
340	The effect of hydrogen on the early stages of oxidation of a magnesium alloy. <i>Corrosion Science</i> , <b>2020</b> , 165, 108391	6.8	6
339	On the in-situ aqueous stability of an Mg-Li-(Al-Y-Zr) alloy: Role of Li. <i>Corrosion Science</i> , <b>2020</b> , 164, 108348	6.8	18
338	Element-resolved electrochemical analysis of transpassive dissolution and repassivation behavior of the multi-principal element alloy AlTiVCr. <i>Electrochimica Acta</i> , <b>2020</b> , 362, 137104	6.7	13
337	Laser polished fused deposition poly-lactic acid objects for personalized orthopaedic application. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	1
336	Exploring the possibility of a stainless steel and glass composite produced by additive manufacturing. <i>Materials and Design</i> , <b>2020</b> , 196, 109179	8.1	3
335	Molecular mechanisms of thermal instability in hybrid perovskite light absorbers for photovoltaic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17765-17779	13	5
334	Improving the property profile of a bioresorbable Mg-Y-Nd-Zr alloy by deformation treatments. <i>Materialia</i> , <b>2020</b> , 13, 100841	3.2	11
333	High-temperature oxidation behaviour of Al <sub>x</sub> FeCrCoNi and AlTiVCr compositionally complex alloys. <i>Npj Materials Degradation</i> , <b>2020</b> , 4,	5.7	10
332	On the in-situ characterisation of metastable pitting using 316L stainless steel as a case study. <i>Corrosion Science</i> , <b>2020</b> , 177, 109004	6.8	7
331	Laser powder bed fusion of high solute Al-Zn-Mg alloys: Processing, characterisation and properties. <i>Materials and Design</i> , <b>2020</b> , 196, 109183	8.1	9
330	Oxidation and electrical properties of chromium-iron alloys in a corrosive molten electrolyte environment. <i>Scientific Reports</i> , <b>2020</b> , 10, 14833	4.9	4

329	On the early stages of localised atmospheric corrosion of magnesium-aluminium alloys. <i>Scientific Reports</i> , <b>2020</b> , 10, 20972	4.9	2
328	Low anisotropy of fatigue crack growth in Al-5.8Mg-0.25Sc. <i>International Journal of Fatigue</i> , <b>2019</b> , 125, 170-178	5	9
327	Understanding the effects of PBF process parameter interplay on Ti-6Al-4V surface properties. <i>PLoS ONE</i> , <b>2019</b> , 14, e0221198	3.7	11
326	Characterisation of Li in the surface film of a corrosion resistant Mg-Li(-Al-Y-Zr) alloy. <i>Applied Surface Science</i> , <b>2019</b> , 494, 1066-1071	6.7	17
325	Investigating ion release using inline ICP during in situ scratch testing of an Mg-Li(-Al-Y-Zr) alloy. <i>Electrochemistry Communications</i> , <b>2019</b> , 99, 46-50	5.1	18
324	Temporal Evolution of Anodically Activated Cathodic Kinetics on Magnesium Through Atmospheric Exposure. <i>Corrosion</i> , <b>2019</b> , 75, 687-692	1.8	1
323	In Operando Analysis of Passive Film Growth on Ni-Cr and Ni-Cr-Mo Alloys in Chloride Solutions. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, C3241-C3253	3.9	16
322	Effects of Calcium on Strength and Microstructural Evolution of Extruded Alloys Based on Mg-3Al-1Zn-0.3Mn. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 4344-4363	2.3	29
321	Interfacial study of the formation mechanism of corrosion resistant strontium phosphate coatings upon Mg-3Al-4.3Ca-0.1Mn. <i>Corrosion Science</i> , <b>2019</b> , 151, 143-153	6.8	29
320	Microstructural evolution, electrochemical and corrosion properties of Al CoCrFeNiTi high entropy alloys. <i>Materials and Design</i> , <b>2019</b> , 170, 107698	8.1	95
319	On the optimum soil moisture for underground corrosion in different soil types. <i>Corrosion Science</i> , <b>2019</b> , 159, 108116	6.8	17
318	Corrosion behavior of Mg <sub>3</sub> Gd <sub>1</sub> Zn <sub>0.4</sub> Zr alloy with and without stacking faults. <i>Journal of Magnesium and Alloys</i> , <b>2019</b> , 7, 240-248	8.8	28
317	Simultaneous improvement in corrosion resistance and hardness of a model 2xxx series Al-Cu alloy with the microstructural variation caused by Sc and Zr additions. <i>Corrosion Science</i> , <b>2019</b> , 158, 108095	6.8	33
316	Understanding the enhanced rates of hydrogen evolution on dissolving magnesium. <i>Electrochemistry Communications</i> , <b>2019</b> , 104, 106482	5.1	24
315	Enrichment efficiency of noble alloying elements on magnesium and effect on hydrogen evolution. <i>Corrosion Science</i> , <b>2019</b> , 151, 206-218	6.8	10
314	Precipitation strengthening in an ultralight magnesium alloy. <i>Nature Communications</i> , <b>2019</b> , 10, 1003	17.4	47
313	Optimised Composition and Process Design to Develop Sc-Enhanced Wrought Al-Si Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 1431-1438	0.3	
312	Analysing the degree of sensitisation in 5xxx series aluminium alloys using artificial neural networks: A tool for alloy design. <i>Corrosion Science</i> , <b>2019</b> , 150, 268-278	6.8	16

311	The role of grain structure characteristics on the localised corrosion feature in the 1445 Al-Cu-Li alloy. <i>Materials Characterization</i> , <b>2019</b> , 158, 109981	3.9	10
310	Microstructure and corrosion evolution of additively manufactured aluminium alloy AA7075 as a function of ageing. <i>Npj Materials Degradation</i> , <b>2019</b> , 3,	5.7	17
309	Ion Agglomeration and Transport in MgCl-Based Electrolytes for Rechargeable Magnesium Batteries. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7856-7862	6.4	8
308	On the Mitigation of Corrosion Under Insulation (CUI) of Mild Steel Using Local Cathodic Protection. <i>Corrosion</i> , <b>2019</b> , 75, 1541-1551	1.8	7
307	Perspective on the Role of Mg <sub>17</sub> Al <sub>12</sub> Phase in the Corrosion of Mg Alloy AZ91, by O. Lunder, J.E. Lein, T.Kr. Aune, and K. Nisancioglu, <i>Corrosion</i> 45, 9 (1989): p. 741-748. <i>Corrosion</i> , <b>2019</b> , 75, 1016-1017	1.8	1
306	Effect of Sm additions on the microstructure and corrosion behavior of magnesium alloy AZ91. <i>Corrosion Science</i> , <b>2019</b> , 149, 144-152	6.8	42
305	Investigating the Structure of the Surface Film on a Corrosion Resistant Mg-Li(-Al-Y-Zr) Alloy. <i>Corrosion</i> , <b>2019</b> , 75, 80-89	1.8	19
304	Aqueous electrochemistry of the magnesium surface: Thermodynamic and kinetic profiles. <i>Corrosion Science</i> , <b>2019</b> , 147, 53-68	6.8	29
303	A detailed HAADF-STEM study of precipitate evolution in Mg <sub>2</sub> Sn alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 531-543	5.7	35
302	Atomistic Mechanisms of Mg Insertion Reactions in Group XIV Anodes for Mg-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 774-783	9.5	11
301	On the Characterization of a Hitherto Unreported Icosahedral Quasicrystal Phase in Additively Manufactured Aluminum Alloy AA7075. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 529-533	2.3	13
300	Recent advances in biodegradation controls over Mg alloys for bone fracture management: A review. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 535-544	9.1	110
299	Anodic activation of Mg in the presence of In <sup>3+</sup> ions in dilute sodium chloride solution. <i>Electrochimica Acta</i> , <b>2019</b> , 293, 199-210	6.7	9
298	Magnesium extrusion alloys: a review of developments and prospects. <i>International Materials Reviews</i> , <b>2019</b> , 64, 27-62	16.1	165
297	Quasi-in-situ STEM-EDS insight into the role of Ag in the corrosion behaviour of Mg-Gd-Zr alloys. <i>Corrosion Science</i> , <b>2018</b> , 136, 106-118	6.8	30
296	Defining the Post-Machined Sub-surface in Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 2281-2292	2.3	8
295	Impact of Annealing Prior to Solution Treatment on Aging Precipitates and Intergranular Corrosion Behavior of Al-Cu-Li Alloy 2050. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 2471-2486	2.3	6
294	A closer inspection of a grain boundary immune to intergranular corrosion in a sensitised Al-Mg alloy. <i>Corrosion Science</i> , <b>2018</b> , 133, 1-5	6.8	34

293	Microstructure and corrosion properties of the low-density single-phase compositionally complex alloy AlTiVCr. <i>Corrosion Science</i> , <b>2018</b> , 133, 386-396	6.8	52
292	On the Precipitation in an Ag-Containing Mg-Gd-Zr Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 673-694	2.3	36
291	Chromate replacement: what does the future hold?. <i>Npj Materials Degradation</i> , <b>2018</b> , 2,	5.7	87
290	A Closer Look at the Role of Nanometer Scale Solute-Rich Stacking Faults in the Localized Corrosion of a Magnesium Alloy GZ31K. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, C310-C316	3.9	10
289	Exploring As-Cast PbCaSn-Mg Anodes for Improved Performance in Copper Electrowinning. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 1453-1463	2.5	0
288	Additive Manufacturing of Titanium Alloys for Orthopedic Applications: A Materials Science Viewpoint. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800172	3.5	26
287	Simultaneously improving the corrosion resistance and strength of magnesium via low levels of Zn and Ge additions. <i>Corrosion Science</i> , <b>2018</b> , 140, 18-29	6.8	34
286	An Examination of the Composition and Microstructure of Coarse Intermetallic Particles in AA2099-T8, Including Li Detection. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 325-341	0.5	14
285	Coupled Electro-Chemical-Soil Model to Evaluate the Influence of Soil Aeration on Underground Metal Pipe Corrosion. <i>Corrosion</i> , <b>2018</b> , 74, 1177-1191	1.8	14
284	Unexpected Interface Corrosion and Sensitization Susceptibility in Additively Manufactured Austenitic Stainless Steel. <i>Corrosion</i> , <b>2018</b> , 74, 153-157	1.8	19
283	Achieving exceptionally high strength in Mg3Al1Zn-0.3Mn extrusions via suppressing intergranular deformation. <i>Acta Materialia</i> , <b>2018</b> , 160, 97-108	8.4	58
282	On the corrosion of additively manufactured aluminium alloy AA2024 prepared by selective laser melting. <i>Corrosion Science</i> , <b>2018</b> , 143, 93-106	6.8	54
281	The role of microstructure and microchemistry on intergranular corrosion of aluminium alloy AA7085-T7452. <i>Corrosion Science</i> , <b>2018</b> , 143, 414-427	6.8	39
280	On the corrosion, electrochemistry and microstructure of Al-Cu-Li alloy AA2050 as a function of ageing. <i>Materialia</i> , <b>2018</b> , 1, 25-36	3.2	19
279	Correlation of intergranular corrosion behaviour with microstructure in Al-Cu-Li alloy. <i>Corrosion Science</i> , <b>2018</b> , 139, 215-226	6.8	35
278	Clarifying the Dissolution Mechanisms and Electrochemistry of Mg2Si as a Function of Solution pH. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, C497-C501	3.9	16
277	Reducing the corrosion rate of magnesium via microalloying additions of group 14 and 15 elements. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 184-195	6.7	57
276	Composition and microstructure dependent corrosion behaviour of Mg-Li alloys. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 55-64	6.7	115

275	A review of deep learning in the study of materials degradation. <i>Npj Materials Degradation</i> , <b>2018</b> , 2,	5.7	57
274	Investigating the Effect of Ferrous Ions on the Anomalous Hydrogen Evolution on Magnesium in Acidic Ferrous Chloride Solution. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, C916-C925	3.9	10
273	Strengthening of Magnesium Alloy WE43 by Rotary Swaging. <i>Materials Science Forum</i> , <b>2018</b> , 941, 808-813.	3.4	5
272	Use of Sodium Bicarbonate as a Chloride-Free Aqueous Electrolyte to Explore Film Formation and the Negative Difference Effect on Pure Magnesium. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, C849-C859	3.9	14
271	Corrosion of Additively Manufactured Alloys: A Review. <i>Corrosion</i> , <b>2018</b> , 74, 1318-1350	1.8	107
270	A Surface Study of the Native Oxide upon a Compositionally Complex Alloy. <i>Corrosion</i> , <b>2018</b> , 74, 1312-1318	1.8	11
269	A closer look at the role of Zn in the microstructure and corrosion of an Al-Cu-Li alloy. <i>Corrosion Science</i> , <b>2018</b> , 145, 220-231	6.8	16
268	On the Development and Application of an In-House Fabricated Mg <sup>2+</sup> -Ion Selective Microelectrode (ISME) for Assessing Mg Corrosion. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, C771-C776	3.9	7
267	A comparative study of the role of Ag in microstructures and mechanical properties of Mg-Gd and Mg-Y alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 731, 609-622	5.3	39
266	Numerical Simulation of Micro-Galvanic Corrosion in Al Alloys: Effect of Geometric Factors. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C75-C84	3.9	31
265	The Effect of Absorbed Hydrogen on the Corrosion of Steels: Review, Discussion, and Implications. <i>Corrosion</i> , <b>2017</b> , 73, 426-436	1.8	20
264	Development of ( $\{10\bar{1}0\}$ ) Texture During Tensile Test at Room Temperature. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 521-524	0.3	
263	Strength, corrosion resistance, and biocompatibility of ultrafine-grained Mg alloys after different modes of severe plastic deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 194, 012004	0.4	24
262	Fundamentals and advances in magnesium alloy corrosion. <i>Progress in Materials Science</i> , <b>2017</b> , 89, 92-193.	12.2	788
261	Li reactivity during the surface pretreatment of Al-Li alloy AA2050-T3. <i>Electrochimica Acta</i> , <b>2017</b> , 243, 207-219	6.7	19
260	The Role of Surface Films and Dissolution Products on the Negative Difference Effect for Magnesium: Comparison of Cl <sup>-</sup> versus Cl <sup>-</sup> free Solutions. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C300-C311	3.9	37
259	Understanding multi-element alloy passivation in acidic solutions using operando methods. <i>Electrochemistry Communications</i> , <b>2017</b> , 80, 44-47	5.1	34
258	On The Corrosion and Metastable Pitting Characteristics of 316L Stainless Steel Produced by Selective Laser Melting. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, C250-C257	3.9	139



257	A closer look at the in vitro electrochemical characterisation of titanium alloys for biomedical applications using in-situ methods. <i>Acta Biomaterialia</i> , <b>2017</b> , 54, 469-478	10.8	33
256	Evolution of Grain Boundary Precipitates in an Al-Cu-Li Alloy During Aging. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 51-56	2.3	28
255	An Experimental Survey of the Cathodic Activation of Metals Including Mg, Sc, Gd, La, Al, Sn, Pb, and Ge in Dilute Chloride Solutions of Varying pH. <i>Corrosion</i> , <b>2017</b> , 73, 494-505	1.8	22
254	Formation of a phosphate conversion coating on bioresorbable Mg-based metallic glasses and its effect on corrosion performance. <i>Corrosion Science</i> , <b>2017</b> , 129, 214-225	6.8	26
253	Super-formable pure magnesium at room temperature. <i>Nature Communications</i> , <b>2017</b> , 8, 972	17.4	113
252	On the Intergranular Corrosion and Hardness Evolution of 6xxx Series Al Alloys as a Function of Si:Mg Ratio, Cu Content, and Aging Condition. <i>Corrosion</i> , <b>2017</b> , 73, 1280-1295	1.8	32
251	An Overview of High-energy Ball Milled Nanocrystalline Aluminum Alloys. <i>SpringerBriefs in Materials</i> , <b>2017</b> ,	0.5	10
250	Corrosion of high entropy alloys. <i>Npj Materials Degradation</i> , <b>2017</b> , 1,	5.7	169
249	In situ XRD investigation of the evolution of surface layers on Pb-alloy anodes. <i>Powder Diffraction</i> , <b>2017</b> , 32, S54-S60	1.8	1
248	The effect of reversion heat treatment on the degree of sensitisation for aluminium alloy AA5083. <i>Corrosion Science</i> , <b>2017</b> , 126, 324-333	6.8	23
247	On the enhanced corrosion resistance of a selective laser melted austenitic stainless steel. <i>Scripta Materialia</i> , <b>2017</b> , 141, 94-98	5.6	167
246	Corrosion Performance of Friction Stir Linear Lap Welded AM60B Joints. <i>Jom</i> , <b>2017</b> , 69, 2335-2344	2.1	9
245	Experiment-based modelling of grain boundary $\beta$ phase (MgAl) evolution during sensitisation of aluminium alloy AA5083. <i>Scientific Reports</i> , <b>2017</b> , 7, 2961	4.9	20
244	A lightweight single-phase AlTiVCr compositionally complex alloy. <i>Acta Materialia</i> , <b>2017</b> , 123, 115-124	8.4	97
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240	High-Energy Ball Milling Parameters in Production of Nanocrystalline Al Alloys. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 7-28	0.5	7

239	Mechanical Properties of High-Energy Ball Milled Nanocrystalline Al Alloys. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 45-59	0.5	1
238	Thermal Stability of High-Energy Ball Milled Al Alloys. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 61-69	0.5	1
237	Future Work and Possible Applications of Nanocrystalline Al Alloys as Produced by High-Energy Ball Milling. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 95-99	0.5	2
236	Corrosion Behaviour of High-Energy Ball Milled Nanocrystalline Al Alloys. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 71-94	0.5	1
235	Consolidation of High-Energy Ball Milled Nanocrystalline Al Powders. <i>SpringerBriefs in Materials</i> , <b>2017</b> , 29-43	0.5	
234	Improving Formability of Mg <sub>92</sub> Al <sub>7</sub> Zr Sheet Alloy by Microalloying of Zn. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 1763-1769	3.5	36
233	Effect of water presence on choline chloride-2urea ionic liquid and coating platings from the hydrated ionic liquid. <i>Scientific Reports</i> , <b>2016</b> , 6, 29225	4.9	97
232	Enhanced Tensile Properties of Mg Sheets by a Unique Thermomechanical Processing Method. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5709-5713	2.3	7
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222	An electrochemical quartz crystal microbalance study of magnesium dissolution. <i>Applied Surface Science</i> , <b>2016</b> , 360, 342-348	6.7	7

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220	In-Situ Monitoring of Alloy Dissolution and Residual Film Formation during the Pretreatment of Al-Alloy AA2024-T3. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, C240-C251	3.9	17
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217	An artificial neural network for predicting corrosion rate and hardness of magnesium alloys. <i>Materials and Design</i> , <b>2016</b> , 90, 1034-1043	8.1	26
216	A Survey of Sensitization in 5xxx Series Aluminum Alloys. <i>Corrosion</i> , <b>2016</b> , 72, 144-159	1.8	63
215	Osteoanabolic Implant Materials for Orthopedic Treatment. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1740-52	10.1	20
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180	The Influence of Iron, Manganese, and Zirconium on the Corrosion of Magnesium: An Artificial Neural Network Approach. <i>Corrosion</i> , <b>2015</b> , 71, 199-208	1.8	18
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177	Hydrogen Evolution During Anodic Polarization of Mg Alloyed with Li, Ca, or Fe. <i>Corrosion</i> , <b>2015</b> , 71, 224-233	2.83	34
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129	Summary of Concluding Remarks. <i>SpringerBriefs in Materials</i> , <b>2014</b> , 95-104	0.5	
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