

# Reynier I Revilla

## List of Publications by Year in descending order

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39  
papers

1,106  
citations

643344

15  
h-index

466096

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docs citations

39  
times ranked

802  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trend Removal in Measurements of Best Linear Time-Varying Approximations With Application to Operando Electrochemical Impedance Spectroscopy. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	11
2	The Hot-Stamping Effect on the Corrosion Properties of the 22MnB5 Steel Coated with Hot-Dip Aluminum-Silicon Assessed by a Salt Spray Test and Raman Spectroscopy. Corrosion, 2022, 78, 339-349.	0.5	0
3	New insights into the mechanism of localised corrosion induced by TiN-containing inclusions in high strength low alloy steel. Journal of Materials Science and Technology, 2022, 124, 141-149.	5.6	42
4	Growth kinetics and passive behavior of the native oxide film on additively manufactured AlSi10Mg versus the conventional cast alloy. Corrosion Science, 2022, 203, 110352.	3.0	3
5	Towards a better understanding of localised corrosion induced by typical non-metallic inclusions in low-alloy steels. Corrosion Science, 2021, 179, 109150.	3.0	55
6	Effect of Sr Addition to a Modified AA3003 on Microstructural and Corrosion Properties. Journal of the Electrochemical Society, 2021, 168, 021506.	1.3	2
7	Effect of Homogenization Temperature and Soaking Time on the Microstructure and Corrosion Properties of a Twin Roll Casted AA3003. Corrosion, 2021, 77, 991-1002.	0.5	1
8	Depth profiling approach to evaluate the influence of hot stamping on the local electrochemical behaviour and galvanic series of hot-dip Al-Si coating on 22MnB5 steel. Corrosion Science, 2021, 185, 109435.	3.0	9
9	Influence of austenitisation temperatures during hot stamping on the local electrochemical behaviour of 22MnB5 steel coated with hot-dip Al-Si. Corrosion Science, 2021, 190, 109673.	3.0	15
10	On the Zr Electrochemical Conversion of Additively Manufactured AlSi10Mg: The Role of the Microstructure. Journal of the Electrochemical Society, 2021, 168, 121502.	1.3	3
11	Effect of simulated brazing on the microstructure and corrosion behavior of twin roll cast AA3003. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 60-69.	0.8	4
12	Exploration and mechanism analysis: The maximum ultraviolet luminescence limits of ZnO/few-layer graphene composite films. Applied Surface Science, 2020, 503, 144169.	3.1	5
13	Microstructure and corrosion behavior of 316L stainless steel prepared using different additive manufacturing methods: A comparative study bringing insights into the impact of microstructure on their passivity. Corrosion Science, 2020, 176, 108914.	3.0	83
14	Corrosion and Corrosion Protection of Additively Manufactured Aluminium Alloys A Critical Review. Materials, 2020, 13, 4804.	1.3	30
15	Electrochemical behaviour of 22MnB5 steel coated with hot-dip Al-Si before and after hot-stamping process investigated by means of scanning Kelvin probe microscopy. Corrosion Science, 2020, 174, 108811.	3.0	10
16	EIS comparative study and critical Equivalent Electrical Circuit (EEC) analysis of the native oxide layer of additive manufactured and wrought 316L stainless steel. Corrosion Science, 2020, 167, 108480.	3.0	69
17	Mechanism of the Polarized Absorption of CVD-Prepared Carbon Nanofibers to TE Waves in the Subterahertz Band. Journal of Physical Chemistry C, 2020, 124, 24957-24969.	1.5	4
18	On the Impact of Si Content and Porosity Artifacts on the Anodizing Behavior of Additive Manufactured Al-Si Alloys. Journal of the Electrochemical Society, 2019, 166, C530-C537.	1.3	15

#	ARTICLE	IF	CITATIONS
19	Probing the Metal Oxide/Polymer Molecular Hybrid Interfaces with Nanoscale Resolution Using AFM-IR. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26178-26184.	1.5	17
20	Electrochemical characterization of plasma coatings on printed circuit boards. <i>Progress in Organic Coatings</i> , 2019, 137, 105256.	1.9	7
21	Insights into Cycling Aging of $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Induced by Surface Inhomogeneity: A Post-mortem Analysis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30046-30058.	1.5	15
22	Effect of Heat Treatments on the Anodizing Behavior of Additive Manufactured AlSi10Mg. <i>Journal of the Electrochemical Society</i> , 2019, 166, C42-C48.	1.3	13
23	Influence of heat treatments on the corrosion mechanism of additive manufactured AlSi10Mg. <i>Corrosion Science</i> , 2019, 147, 406-415.	3.0	69
24	Role of $\text{Al}_2\text{O}_3$ inclusions on the localized corrosion of Q460NH weathering steel in marine environment. <i>Corrosion Science</i> , 2018, 138, 96-104.	3.0	146
25	Direct Correlation between Local Surface Potential Measured by Kelvin Probe Force Microscope and Electrochemical Potential of $\text{LiNi}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode at Different State of Charge. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28556-28563.	1.5	16
26	Influence of Si Content on the Microstructure and Corrosion Behavior of Additive Manufactured Al-Si Alloys. <i>Journal of the Electrochemical Society</i> , 2018, 165, C926-C932.	1.3	38
27	On the use of SKPFM for in situ studies of the repassivation of the native oxide film on aluminium in air. <i>Electrochemistry Communications</i> , 2018, 93, 162-165.	2.3	22
28	Role of Si in the Anodizing Behavior of Al-Si Alloys: Additive Manufactured and Cast Al-Si10-Mg. <i>Journal of the Electrochemical Society</i> , 2018, 165, C532-C541.	1.3	18
29	Local Corrosion Behavior of Additive Manufactured AlSiMg Alloy Assessed by SEM and SKPFM. <i>Journal of the Electrochemical Society</i> , 2017, 164, C27-C35.	1.3	95
30	Effect of inclusions modified by rare earth elements (Ce, La) on localized marine corrosion in Q460NH weathering steel. <i>Corrosion Science</i> , 2017, 129, 82-90.	3.0	197
31	Galvanostatic Anodizing of Additive Manufactured Al-Si10-Mg Alloy. <i>Journal of the Electrochemical Society</i> , 2017, 164, C1027-C1034.	1.3	30
32	The jump-into-contact effect in biased AFM probes on dielectric films and its application to quantify the dielectric permittivity of thin layers. <i>Nanotechnology</i> , 2016, 27, 265705.	1.3	3
33	Quantifying dielectric permittivity based on the electrowetting effects on the adhesion force behavior using scanning probe microscopy. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 1479-1486.	1.4	2
34	Large Electric Field-Enhanced Hardness Effect in a $\text{SiO}_2$ Film. <i>Scientific Reports</i> , 2015, 4, 4523.	1.6	7
35	Local surface charge dissipation studied using force spectroscopy method of atomic force microscopy. <i>Surface and Interface Analysis</i> , 2015, 47, 657-662.	0.8	3
36	Autocorrelation Analysis Combined with a Wavelet Transform Method to Detect and Remove Cosmic Rays in a Single Raman Spectrum. <i>Applied Spectroscopy</i> , 2015, 69, 984-992.	1.2	16

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37	Comparative Method To Quantify Dielectric Constant at Nanoscale Using Atomic Force Microscopy. Journal of Physical Chemistry C, 2014, 118, 5556-5562.	1.5	12
38	Electrowetting Phenomenon on Nanostructured Surfaces Studied by Using Atomic Force Microscopy. Journal of Physical Chemistry C, 2012, 116, 14311-14317.	1.5	10
39	Nanoscale Electrowetting Effects Observed by Using Friction Force Microscopy. Langmuir, 2011, 27, 7603-7608.	1.6	9