Iris De Graeve

List of Publications by Year in descending order

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IDIS DE COAEVE

#	Article	IF	CITATIONS
1	Local Corrosion Behavior of Additive Manufactured AlSiMg Alloy Assessed by SEM and SKPFM. Journal of the Electrochemical Society, 2017, 164, C27-C35.	2.9	95
2	Influence of heat treatments on the corrosion mechanism of additive manufactured AlSi10Mg. Corrosion Science, 2019, 147, 406-415.	6.6	69
3	Influence of Si Content on the Microstructure and Corrosion Behavior of Additive Manufactured Al-Si Alloys. Journal of the Electrochemical Society, 2018, 165, C926-C932.	2.9	38
4	In Situ Scanning Tunneling Microscopy Study of Grain-Dependent Corrosion on Microcrystalline Copper. Journal of Physical Chemistry C, 2014, 118, 25421-25428.	3.1	36
5	Evaluation of the Yasuda parameter for the atmospheric plasma deposition of allyl methacrylate. RSC Advances, 2015, 5, 27449-27457.	3.6	35
6	Galvanostatic Anodizing of Additive Manufactured Al-Si10-Mg Alloy. Journal of the Electrochemical Society, 2017, 164, C1027-C1034.	2.9	30
7	Corrosion and Corrosion Protection of Additively Manufactured Aluminium Alloys—A Critical Review. Materials, 2020, 13, 4804.	2.9	30
8	The Impact of Double Bonds in the APPECVD of Acrylate-Like Precursors. Plasma Processes and Polymers, 2013, 10, 857-863.	3.0	27
9	Surface Characterization of Atmospheric Pressure Plasmaâ€Deposited Allyl Methacrylate and Acrylic Acid Based Coatings. Plasma Processes and Polymers, 2013, 10, 564-571.	3.0	27
10	Deposition and Characterisation of Plasma Polymerised Allyl Methacrylate Based Coatings. Plasma Processes and Polymers, 2012, 9, 799-807.	3.0	21
11	Effect of Zn on the grain boundary precipitates and resulting alkaline etching of recycled Al-Mg-Si-Cu alloys. Journal of Alloys and Compounds, 2019, 794, 435-442.	5.5	20
12	About the Influence of Double Bonds in the APPECVD of Acrylateâ€Like Precursors: A Mass Spectrometry Study of the Plasma Phase. Plasma Processes and Polymers, 2014, 11, 335-344.	3.0	18
13	Role of Si in the Anodizing Behavior of Al-Si Alloys: Additive Manufactured and Cast Al-Si10-Mg. Journal of the Electrochemical Society, 2018, 165, C532-C541.	2.9	18
14	Development of an Electrochemical Procedure for Monitoring Hydrogen Sorption/Desorption in Steel. Journal of the Electrochemical Society, 2017, 164, C747-C757.	2.9	17
15	Fatigue Performance of Ti-6Al-4V Additively Manufactured Specimens with Integrated Capillaries of an Embedded Structural Health Monitoring System. Materials, 2017, 10, 993.	2.9	16
16	Study of the hydrogen uptake in deformed steel using the microcapillary cell technique. Corrosion Science, 2019, 155, 55-66.	6.6	16
17	Plasma Polymerization of a Saturated Branched Hydrocarbon. The Case of Heptamethylnonane. Plasma Processes and Polymers, 2013, 10, 51-59.	3.0	15
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.	2.9	15

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#	Article	IF	CITATIONS
19	Effect of Heat Treatments on the Anodizing Behavior of Additive Manufactured AlSi10Mg. Journal of the Electrochemical Society, 2019, 166, C42-C48.	2.9	13
20	Development of novel surface treatments for corrosion protection of aluminum: self-repairing coatings. Corrosion Reviews, 2018, 36, 55-64.	2.0	12
21	FeS Corrosion Products Formation and Hydrogen Uptake in a Sour Environment for Quenched & Tempered Steel. Metals, 2018, 8, 62.	2.3	12
22	Influence of Plastic Deformation on Dissolution Corrosion of Type 316L Austenitic Stainless Steel in Static, Oxygen-Poor Liquid Lead-Bismuth Eutectic at 500°C. Corrosion, 2017, 73, 1078-1090.	1.1	11
23	Comparison of Electrochemical and Thermal Evaluation of Hydrogen Uptake in Steel Alloys Having Different Microstructures. Journal of the Electrochemical Society, 2018, 165, C787-C793.	2.9	10
24	Thermal Properties of Plasma Deposited Methyl Methacrylate Films in an Atmospheric DBD Reactor. Plasma Processes and Polymers, 2015, 12, 260-270.	3.0	7
25	Deposition Kinetics and Thermal Properties of Atmospheric Plasma Deposited Methacrylate-Like Films. Plasma Processes and Polymers, 2016, 13, 521-533.	3.0	7
26	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.	1.5	4
27	Corrosion performance of powderâ€coated aluminum profiles with increased trace element content. Materials and Corrosion - Werkstoffe Und Korrosion, 2022, 73, 1575-1585.	1.5	4
28	The road to intelligent coloured coatings. Surface Engineering, 2011, 27, 719-723.	2.2	3
29	Humidity Robustness of Plasma-Coated PCBs. Journal of Electronic Materials, 2020, 49, 848-860.	2.2	3
30	On the Zr Electrochemical Conversion of Additively Manufactured AlSi10Mg: The Role of the Microstructure. Journal of the Electrochemical Society, 2021, 168, 121502.	2.9	3
31	Growth kinetics and passive behavior of the native oxide film on additively manufactured AlSi10Mg versus the conventional cast alloy. Corrosion Science, 2022, 203, 110352.	6.6	3
32	Effect of the shear layer on the etching behavior of 6060 aluminum extrusion alloys. Surface and Interface Analysis, 2019, 51, 1251-1259.	1.8	2
33	Effect of Homogenization Temperature and Soaking Time on the Microstructure and Corrosion Properties of a Twin Roll Casted AA3003. Corrosion, 2021, 77, 991-1002.	1.1	1
34	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.	1.1	0