

# Iris De Graeve

## List of Publications by Year in descending order

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34  
papers

638  
citations

567247

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580810

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times ranked

513  
citing authors

| #  | 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 Plasma-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 Acrylate-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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|----|--|-----|-----------|
| 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 500Å°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€œcoated 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         |