

M João Carmezim

List of Publications by Year in descending order

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56
papers

2,866
citations

172457

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168389

53
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docs citations

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times ranked

3167
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | 3D-printed platform multi-loaded with bioactive, magnetic nanoparticles and an antibiotic for re-growing bone tissue. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120097. | 5.2 | 19 |
| 2 | Cerium phosphate-based inhibitor for smart corrosion protection of WE43 magnesium alloy. <i>Electrochimica Acta</i> , 2021, 365, 137368. | 5.2 | 35 |
| 3 | Effect of the topology on the mechanical properties of porous iron immersed in body fluids. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 1066-1076. | 1.1 | 1 |
| 4 | An Impedimetric Sensor for Levothyroxine Detection towards Point of Care Applications. , 2021, , . | | 0 |
| 5 | Surface and mechanical properties of a nanostructured citrate hydroxyapatite coating on pure titanium. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 108, 103794. | 3.1 | 9 |
| 6 | Citrate zinc hydroxyapatite nanorods with enhanced cytocompatibility and osteogenesis for bone regeneration. <i>Materials Science and Engineering C</i> , 2020, 115, 111147. | 7.3 | 35 |
| 7 | Direct electrodeposition of hydrogenated reduced graphene oxide from unsonicated solution and its electrochemical response. <i>Diamond and Related Materials</i> , 2020, 104, 107740. | 3.9 | 8 |
| 8 | Novel smart and self-healing cerium phosphate-based corrosion inhibitor for AZ31 magnesium alloy. <i>Corrosion Science</i> , 2020, 170, 108648. | 6.6 | 85 |
| 9 | Pseudocapacitive behaviour of FeS _x grown on stainless steel up to 1.8 V in aqueous electrolyte. <i>Journal of Energy Storage</i> , 2019, 26, 100949. | 8.1 | 12 |
| 10 | Production of bioactive hydroxyapatite coating by coblast process for orthopedic implants. , 2019, , . | | 1 |
| 11 | Reduced graphene oxide nanoplatform loaded with nickel-cobalt oxide nanoparticles: Controllable synthesis and physical chemical properties. <i>Materials and Design</i> , 2018, 142, 66-73. | 7.0 | 4 |
| 12 | Self-healing ceria-modified coating for corrosion protection of AZ31 magnesium alloy. <i>Corrosion Science</i> , 2018, 142, 12-21. | 6.6 | 134 |
| 13 | Pseudocapacitive response of hydrothermally grown MoS ₂ crumpled nanosheet on carbon fiber. <i>Materials Chemistry and Physics</i> , 2018, 216, 413-420. | 4.0 | 11 |
| 14 | Ni _x Co _{1-x} (OH) ₂ nanosheets on carbon nanofoam paper as high areal capacity electrodes for hybrid supercapacitors. <i>Energy</i> , 2017, 126, 208-216. | 8.8 | 69 |
| 15 | Layered Ni(OH) ₂ -Co(OH) ₂ films prepared by electrodeposition as charge storage electrodes for hybrid supercapacitors. <i>Scientific Reports</i> , 2017, 7, 39980. | 3.3 | 126 |
| 16 | Electrodeposited MoO _x films as negative electrode materials for redox supercapacitors. <i>Electrochimica Acta</i> , 2017, 225, 19-28. | 5.2 | 37 |
| 17 | Electrodeposition: a versatile, efficient, binder-free and room temperature one-step process to produce MnO ₂ electrochemical capacitor electrodes. <i>RSC Advances</i> , 2017, 7, 32038-32043. | 3.6 | 24 |
| 18 | Electrolytes in Metal Oxide Supercapacitors. , 2017, , 49-78. | | 5 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Current transient and in situ AFM studies of initial growth stages of electrochemically deposited nickel cobalt hydroxide nanosheet films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12368-12374. | 2.8 | 9 |
| 20 | Copper-cobalt foams as active and stable catalysts for hydrogen release by hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8438-8448. | 7.1 | 41 |
| 21 | Hydrothermally grown Ni _{0.7} Zn _{0.3} O directly on carbon fiber paper substrate as an electrode material for energy storage applications. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9876-9884. | 7.1 | 9 |
| 22 | Hydrogen bubbling-induced micro/nano porous MnO ₂ films prepared by electrodeposition for pseudocapacitor electrodes. <i>Electrochimica Acta</i> , 2016, 202, 166-174. | 5.2 | 30 |
| 23 | Electrodeposited reduced-graphene oxide/cobalt oxide electrodes for charge storage applications. <i>Applied Surface Science</i> , 2016, 382, 34-40. | 6.1 | 22 |
| 24 | One-step process to form a nickel-based/carbon nanofoam composite supercapacitor electrode using Na ₂ SO ₄ as an eco-friendly electrolyte. <i>RSC Advances</i> , 2016, 6, 15920-15928. | 3.6 | 21 |
| 25 | Nanostructured "Anastacia"™ flowers for Zn coating by electrodepositing ZnO at room temperature. <i>Applied Surface Science</i> , 2015, 332, 152-158. | 6.1 | 8 |
| 26 | ELECTROCHEMICAL RESPONSE OF 70Co/30Ni HIGHLY BRANCHED 3D-DENDRITIC STRUCTURES FOR CHARGE STORAGE ELECTRODES. <i>Electrochimica Acta</i> , 2015, 167, 13-19. | 5.2 | 13 |
| 27 | Hybrid nickel manganese oxide nanosheet/3D metallic dendrite percolation network electrodes for high-rate electrochemical energy storage. <i>Nanoscale</i> , 2015, 7, 12452-12459. | 5.6 | 34 |
| 28 | ±-Co(OH) ₂ /carbon nanofoam composite as electrochemical capacitor electrode operating at 2ÅV in aqueous medium. <i>Journal of Power Sources</i> , 2015, 288, 234-242. | 7.8 | 40 |
| 29 | in-vitro corrosion behaviour of the magnesium alloy with Al and Zn (AZ31) protected with a biodegradable polycaprolactone coating loaded with hydroxyapatite and cephalixin. <i>Electrochimica Acta</i> , 2015, 179, 431-440. | 5.2 | 59 |
| 30 | Parallel nano-assembling of a multifunctional GO/HapNP coating on ultrahigh-purity magnesium for biodegradable implants. <i>Applied Surface Science</i> , 2015, 345, 387-393. | 6.1 | 29 |
| 31 | Morphological changes and electrochemical response of mixed nickel manganese oxides as charge storage electrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10875-10882. | 10.3 | 35 |
| 32 | Structural evolution, magnetic properties and electrochemical response of MnCo ₂ O ₄ nanosheet films. <i>RSC Advances</i> , 2015, 5, 27844-27852. | 3.6 | 42 |
| 33 | Fabrication of electrochemically reduced graphene oxide/cobalt oxide composite for charge storage electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 755, 151-157. | 3.8 | 13 |
| 34 | Cathodic electrodeposition and electrochemical response of manganese oxide pseudocapacitor electrodes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16355-16364. | 7.1 | 25 |
| 35 | Characterisation and electrochemical behaviour of electrodeposited Cu/Fe foams applied as pseudocapacitor electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 737, 85-92. | 3.8 | 23 |
| 36 | Electrodeposition and isothermal aging of Co and Mn layers on stainless steel for interconnectors: Initial stages of spinel phase formation. <i>Journal of Power Sources</i> , 2014, 255, 251-259. | 7.8 | 29 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Electrodeposition and characterization of nickel-copper metallic foams for application as electrodes for supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 455-465. | 2.9 | 86 |
| 38 | Titania Films Obtained by Powerful Pulsed Discharge Oxidation in Phosphoric Acid Electrolytes. <i>Journal of the Electrochemical Society</i> , 2014, 161, D73-D78. | 2.9 | 6 |
| 39 | Anti-corrosion performance of a new silane coating for corrosion protection of AZ31 magnesium alloy in Hank's solution. <i>Surface and Coatings Technology</i> , 2012, 206, 4368-4375. | 4.8 | 103 |
| 40 | Fabrication of Three-Dimensional Dendritic Ni-Co Films By Electrodeposition on Stainless Steel Substrates. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22425-22431. | 3.1 | 47 |
| 41 | The corrosion behaviour of rare-earth containing magnesium alloys in borate buffer solution. <i>Electrochimica Acta</i> , 2011, 56, 1535-1545. | 5.2 | 65 |
| 42 | The electrochemical behaviour of stainless steel AISI 304 in alkaline solutions with different pH in the presence of chlorides. <i>Electrochimica Acta</i> , 2011, 56, 5280-5289. | 5.2 | 213 |
| 43 | A two-step surface treatment, combining anodisation and silanisation, for improved corrosion protection of the Mg alloy WE54. <i>Progress in Organic Coatings</i> , 2010, 69, 143-149. | 3.9 | 31 |
| 44 | Passive behavior of magnesium alloys (Mg-Zr) containing rare-earth elements in alkaline media. <i>Electrochimica Acta</i> , 2010, 55, 2482-2489. | 5.2 | 38 |
| 45 | The passive behaviour of AISI 316 in alkaline media and the effect of pH: A combined electrochemical and analytical study. <i>Electrochimica Acta</i> , 2010, 55, 6174-6181. | 5.2 | 220 |
| 46 | Study of passive films formed on mild steel in alkaline media by the application of anodic potentials. <i>Materials Chemistry and Physics</i> , 2009, 114, 962-972. | 4.0 | 125 |
| 47 | Corrosion behaviour of NiTi alloy. <i>Electrochimica Acta</i> , 2009, 54, 921-926. | 5.2 | 162 |
| 48 | Composition and corrosion resistance of cerium conversion films on the AZ31 magnesium alloy and its relation to the salt anion. <i>Applied Surface Science</i> , 2008, 254, 1806-1814. | 6.1 | 99 |
| 49 | Characterization of rare-earth conversion films formed on the AZ31 magnesium alloy and its relation with corrosion protection. <i>Applied Surface Science</i> , 2007, 253, 6922-6931. | 6.1 | 190 |
| 50 | The influence of copper and chromium on the semiconducting behaviour of passive films formed on weathering steels. <i>Thin Solid Films</i> , 2006, 515, 2167-2172. | 1.8 | 11 |
| 51 | Capacitance behaviour of passive films on ferritic and austenitic stainless steel. <i>Corrosion Science</i> , 2005, 47, 581-591. | 6.6 | 288 |
| 52 | Manganese and Iron Speciation in Chromium Oxide Films over Steel. <i>Key Engineering Materials</i> , 2002, 230-232, 311-314. | 0.4 | 1 |
| 53 | Electrochemical behaviour of thermally treated Cr-oxide films deposited on stainless steel. <i>Corrosion Science</i> , 2002, 44, 451-465. | 6.6 | 63 |
| 54 | Corrosion resistant coloured chromium oxide coatings on stainless steel. <i>Pigment and Resin Technology</i> , 1998, 27, 243-246. | 0.9 | 2 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Improving the passivating efficiency of conversion films on stainless steel by thermal treatment. Thin Solid Films, 1995, 258, 194-197. | 1.8 | 7 |
| 56 | Chemical study of passivating chromium oxide films by soft X-ray absorption spectroscopy. Analyst, The, 1994, 119, 609. | 3.5 | 12 |