

# M João Carmezim

## List of Publications by Year in descending order

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56  
papers

2,866  
citations

172457

29  
h-index

168389

53  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3167  
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacitance behaviour of passive films on ferritic and austenitic stainless steel. <i>Corrosion Science</i> , 2005, 47, 581-591.	6.6	288
2	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
3	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
4	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
5	Corrosion behaviour of NiTi alloy. <i>Electrochimica Acta</i> , 2009, 54, 921-926.	5.2	162
6	Self-healing ceria-modified coating for corrosion protection of AZ31 magnesium alloy. <i>Corrosion Science</i> , 2018, 142, 12-21.	6.6	134
7	Layered Ni(OH) <sub>2</sub> -Co(OH) <sub>2</sub> films prepared by electrodeposition as charge storage electrodes for hybrid supercapacitors. <i>Scientific Reports</i> , 2017, 7, 39980.	3.3	126
8	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
9	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
10	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
11	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
12	Novel smart and self-healing cerium phosphate-based corrosion inhibitor for AZ31 magnesium alloy. <i>Corrosion Science</i> , 2020, 170, 108648.	6.6	85
13	Ni <sub>x</sub> Co <sub>1-x</sub> (OH) <sub>2</sub> nanosheets on carbon nanofoam paper as high areal capacity electrodes for hybrid supercapacitors. <i>Energy</i> , 2017, 126, 208-216.	8.8	69
14	The corrosion behaviour of rare-earth containing magnesium alloys in borate buffer solution. <i>Electrochimica Acta</i> , 2011, 56, 1535-1545.	5.2	65
15	Electrochemical behaviour of thermally treated Cr-oxide films deposited on stainless steel. <i>Corrosion Science</i> , 2002, 44, 451-465.	6.6	63
16	<i>in-vitro</i> corrosion behaviour of the magnesium alloy with Al and Zn (AZ31) protected with a biodegradable polycaprolactone coating loaded with hydroxyapatite and cephalexin. <i>Electrochimica Acta</i> , 2015, 179, 431-440.	5.2	59
17	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
18	Structural evolution, magnetic properties and electrochemical response of MnCo <sub>2</sub> O <sub>4</sub> nanosheet films. <i>RSC Advances</i> , 2015, 5, 27844-27852.	3.6	42

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19	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
20	$\text{Ni-Co(OH)}_2$ /carbon nanofoam composite as electrochemical capacitor electrode operating at 2V in aqueous medium. <i>Journal of Power Sources</i> , 2015, 288, 234-242.	7.8	40
21	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
22	Electrodeposited $\text{MoO}_x$ films as negative electrode materials for redox supercapacitors. <i>Electrochimica Acta</i> , 2017, 225, 19-28.	5.2	37
23	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
24	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
25	Cerium phosphate-based inhibitor for smart corrosion protection of WE43 magnesium alloy. <i>Electrochimica Acta</i> , 2021, 365, 137368.	5.2	35
26	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
27	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
28	Hydrogen bubbling-induced micro/nano porous $\text{MnO}_2$ films prepared by electrodeposition for pseudocapacitor electrodes. <i>Electrochimica Acta</i> , 2016, 202, 166-174.	5.2	30
29	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
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	Cathodic electrodeposition and electrochemical response of manganese oxide pseudocapacitor electrodes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16355-16364.	7.1	25
32	Electrodeposition: a versatile, efficient, binder-free and room temperature one-step process to produce $\text{MnO}_2$ electrochemical capacitor electrodes. <i>RSC Advances</i> , 2017, 7, 32038-32043.	3.6	24
33	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
34	Electrodeposited reduced-graphene oxide/cobalt oxide electrodes for charge storage applications. <i>Applied Surface Science</i> , 2016, 382, 34-40.	6.1	22
35	One-step process to form a nickel-based/carbon nanofoam composite supercapacitor electrode using $\text{Na}_2\text{SO}_4$ as an eco-friendly electrolyte. <i>RSC Advances</i> , 2016, 6, 15920-15928.	3.6	21
36	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

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37	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
38	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
39	Chemical study of passivating chromium oxide films by soft X-ray absorption spectroscopy. <i>Analyst</i> , 1994, 119, 609.	3.5	12
40	Pseudocapacitive behaviour of FeSx grown on stainless steel up to 1.8V in aqueous electrolyte. <i>Journal of Energy Storage</i> , 2019, 26, 100949.	8.1	12
41	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
42	Pseudocapacitive response of hydrothermally grown MoS2 crumpled nanosheet on carbon fiber. <i>Materials Chemistry and Physics</i> , 2018, 216, 413-420.	4.0	11
43	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
44	Hydrothermally grown Ni <sub>0.7</sub> Zn <sub>0.3</sub> 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
45	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
46	Nanostructured "Anastacia" flowers for Zn coating by electrodepositing ZnO at room temperature. <i>Applied Surface Science</i> , 2015, 332, 152-158.	6.1	8
47	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
48	Improving the passivating efficiency of conversion films on stainless steel by thermal treatment. <i>Thin Solid Films</i> , 1995, 258, 194-197.	1.8	7
49	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
50	Electrolytes in Metal Oxide Supercapacitors. , 2017, , 49-78.		5
51	Reduced graphene oxide nanoplatfrom loaded with nickel-cobalt oxide nanoparticles: Controllable synthesis and physical chemical properties. <i>Materials and Design</i> , 2018, 142, 66-73.	7.0	4
52	Corrosion resistant coloured chromium oxide coatings on stainless steel. <i>Pigment and Resin Technology</i> , 1998, 27, 243-246.	0.9	2
53	Manganese and Iron Speciation in Chromium Oxide Films over Steel. <i>Key Engineering Materials</i> , 2002, 230-232, 311-314.	0.4	1
54	Production of bioactive hydroxyapatite coating by coblast process for orthopedic implants. , 2019, , .		1

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55	Effect of the topology on the mechanical properties of porous iron immersed in body fluids. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 1066-1076.	1.1	1
56	An Impedimetric Sensor for Levothyroxine Detection towards Point of Care Applications. , 2021, , .		0