Teresa M Silva

List of Publications by Year
in descending order

49 papers	1,662 citations	257450 24 h-index	289244 40 g-index
50 all docs	50 docs citations	50 times ranked	2335 citing authors

#	Article	IF	Citations
1	Corrosion behaviour of NiTi alloy. Electrochimica Acta, 2009, 54, 921-926.	5.2	162
2	Corrosion resistance of a composite polymeric coating applied on biodegradable AZ31 magnesium alloy. Acta Biomaterialia, 2013, 9, 8660-8670.	8.3	136
3	Anti-corrosion performance of a new silane coating for corrosion protection of AZ31 magnesium alloy in Hank's solution. Surface and Coatings Technology, 2012, 206, 4368-4375.	4.8	103
4	Electrodeposition and characterization of polypyrrole films on aluminium alloy 6061-T6. Electrochimica Acta, 2008, 53, 4754-4763.	5.2	86
5	Electrodeposition and characterization of nickelâ€“copper metallic foams for application as electrodes for supercapacitors. Journal of Applied Electrochemistry, 2014, 44, 455-465.	2.9	86
6	3D nickel foams with controlled morphologies for hydrogen evolution reaction in highly alkaline media. International Journal of Hydrogen Energy, 2019, 44, 1701-1709.	7.1	63
7	Capacitance and photoelectrochemical studies for the assessment of anodic oxide films on aluminium. Electrochimica Acta, 2004, 49, 4701-4707.	5.2	60
8	â€œIn-vitroâ€•corrosion behaviour of the magnesium alloy with Al and Zn (AZ31) protected with a biodegradable polycaprolactone coating loaded with hydroxyapatite and cephalexin. Electrochimica Acta, 2015, 179, 431-440.	5.2	59
9	Biofunctional composite coating architectures based on polycaprolactone and nanohydroxyapatite for controlled corrosion activity and enhanced biocompatibility of magnesium AZ31 alloy. Materials Science and Engineering C, 2015, 48, 434-443.	7.3	57
10	On the Supercapacitive Behaviour of Anodic Porous WO3-Based Negative Electrodes. Electrochimica Acta, 2017, 232, 192-201.	5.2	55
11	Application of the Mott-Schottky model to select potentials for EIS studies on electrodes for electrochemical charge storage. Electrochimica Acta, 2018, 289, 47-55.	5.2	53
12	Semiconductor electrochemistry approach to passivity and stress corrosion cracking susceptibility of stainless steels. Electrochimica Acta, 2005, 50, 5076-5082.	5.2	50
13	Fabrication of Three-Dimensional Dendritic Niâ€“Co Films By Electrodeposition on Stainless Steel Substrates. Journal of Physical Chemistry C, 2012, 116, 22425-22431.	3.1	47
14	Polyaniline coatings on aluminium alloy 6061-T6: Electrosynthesis and characterization. Electrochimica Acta, 2010, 55, 3580-3588.	5.2	45
15	Copper-cobalt foams as active and stable catalysts for hydrogen release by hydrolysis of sodium borohydride. International Journal of Hydrogen Energy, 2016, 41, 8438-8448.	7.1	41
16	Î±-Co(OH) 2 /carbon nanofoam composite as electrochemical capacitor electrode operating at 2ÂV in aqueous medium. Journal of Power Sources, 2015, 288, 234-242.	7.8	40
17	Hydrogen evolution on nanostructured Niâ€“Cu foams. RSC Advances, 2015, 5, 43456-43461.	3.6	39
18	Enhancement of the Ni-Co hydroxide response as Energy Storage Material by Electrochemically Reduced Graphene Oxide. Electrochimica Acta, 2017, 240, 323-340.	5.2	39

#	Article	IF	Citations
19	Electrodeposited MoO x films as negative electrode materials for redox supercapacitors. Electrochimica Acta, 2017, 225, 19-28.	5.2	37
20	Electronic structure of iridium oxide films formed in neutral phosphate buffer solution. Journal of Electroanalytical Chemistry, 1998, 441, 5-12.	3.8	34
21	Hybrid nickel manganese oxide nanosheetâ€“3D metallic dendrite percolation network electrodes for high-rate electrochemical energy storage. Nanoscale, 2015, 7, 12452-12459.	5.6	34
22	Electrochemical and Laser Raman Spectroscopy Studies of Stainless Steel in 0.15Mâ€‰â€‰â€‰NaCl Solution. Journal of the Electrochemical Society, 1992, 139, 3146-3151.	2.9	28
23	Nickel-cobalt oxide modified with reduced graphene oxide: Performance and degradation for energy storage applications. Journal of Power Sources, 2019, 419, 12-26.	7.8	28
24	Electrochemical characterisation of oxide films formed on Tiî—¸6A1î—¸4V alloy implanted with Ir for bioengineering applications. Electrochimica Acta, 1998, 43, 203-211.	5.2	26
25	Electrodeposition: a versatile, efficient, binder-free and room temperature one-step process to produce MnO₂ electrochemical capacitor electrodes. RSC Advances, 2017, 7, 32038-32043.	3.6	24
26	Characterisation and electrochemical behaviour of electrodeposited Cuâ€“Fe foams applied as pseudocapacitor electrodes. Journal of Electroanalytical Chemistry, 2015, 737, 85-92.	3.8	23
27	Electrochemical response of a high-power asymmetric supercapacitor based on tailored MnOx/Ni foam and carbon cloth in neutral and alkaline electrolytes. Journal of Energy Storage, 2019, 22, 345-353.	8.1	23
28	Electrodeposited reduced-graphene oxide/cobalt oxide electrodes for charge storage applications. Applied Surface Science, 2016, 382, 34-40.	6.1	22
29	One-step process to form a nickel-based/carbon nanofoam composite supercapacitor electrode using Na₂SO₄ as an eco-friendly electrolyte. RSC Advances, 2016, 6, 15920-15928.	3.6	21
30	Capacitance response in an aqueous electrolyte of Nb2O5 nanochannel layers anodically grown in pure molten o-H3PO4. Electrochimica Acta, 2018, 281, 725-737.	5.2	17
31	ELECTROCHEMICAL RESPONSE OF 70Coâ€“30Ni HIGHLY BRANCHED 3D-DENDRITIC STRUCTURES FOR CHARGE STORAGE ELECTRODES. Electrochimica Acta, 2015, 167, 13-19.	5.2	13
32	Fabrication of electrochemically reduced graphene oxide/cobalt oxide composite for charge storage electrodes. Journal of Electroanalytical Chemistry, 2015, 755, 151-157.	3.8	13
33	Pseudocapacitive behaviour of FeSx grown on stainless steel up to 1.8â€¯V in aqueous electrolyte. Journal of Energy Storage, 2019, 26, 100949.	8.1	12
34	Pseudocapacitive response of hydrothermally grown MoS2 crumpled nanosheet on carbon fiber. Materials Chemistry and Physics, 2018, 216, 413-420.	4.0	11
35	Electrodeposited Manganese Oxide on Tailored 3D Bimetallic Nanofoams for Energy Storage Applications. Energy Technology, 2019, 7, 1801139.	3.8	10
36	Hydrothermally grown Ni0.7Zn0.3O directly on carbon fiber paper substrate as an electrode material for energy storage applications. International Journal of Hydrogen Energy, 2016, 41, 9876-9884.	7.1	9

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37	Electrochemical performance of MnOxÂ·nH2O@Ni composite foam electrodes for energy storage in KOH media. Electrochimica Acta, 2018, 281, 39-47.	5.2	9
38	On the growth and mechanical properties of nanostructured cobalt foams by dynamic hydrogen bubble template electrodeposition. Materials Characterization, 2020, 169, 110598.	4.4	9
39	From manganese oxide to manganese sulphide: Synthesis and its effect on electrochemical energy storage performance. Electrochimica Acta, 2021, 389, 138711.	5.2	9
40	Direct electrodeposition of hydrogenated reduced graphene oxide from unsonicated solution and its electrochemical response. Diamond and Related Materials, 2020, 104, 107740.	3.9	8
41	Electrochemical response of iridium oxide for implanted neural stimulating electrodes. Journal of Materials Science: Materials in Medicine, 1996, 7, 261-264.	3.6	6
42	In-Situ Localized pH, pNa and Dissolved O2 Measurements During Charge-Discharge of Mixed Niâ€“Co Hydroxide Electrodes. Journal of the Electrochemical Society, 2020, 167, 080511.	2.9	5
43	Corrosion behaviour of aisi 316l stainless-steel alloys in diabetic serum. Clinical Materials, 1993, 12, 103-106.	0.5	4
44	From Bench-Scale to Prototype: Case Study on a Nickel Hydroxideâ€”Activated Carbon Hybrid Energy Storage Device. Batteries, 2019, 5, 65.	4.5	2
45	Tailored 3D Foams Decorated with Nanostructured Manganese Oxide for Asymmetric Electrochemical Capacitors. Journal of the Electrochemical Society, 2022, 169, 020511.	2.9	2
46	Equilibrium distributions of discrete non-autonomous graphs. Journal of Difference Equations and Applications, 2014, 20, 1190-1200.	1.1	1
47	Simulation of the Electrochemical Response of Cobalt Hydroxide Electrodes for Energy Storage. Batteries, 2022, 8, 37.	4.5	1
48	Convergence time to equilibrium distributions of autonomous and periodic non-autonomous graphs. Linear Algebra and Its Applications, 2016, 488, 199-215.	0.9	0
49	Enhanced control of electrochemical response in metallic materials in neural stimulation electrode applications. , 1996, , .		0