Violeta Barranco

List of Publications by Year in descending order

52 papers	1,975 citations	201385 27 h-index	243296 44 g-index
52 all docs	52 docs citations	52 times ranked	2776 citing authors

#	Article	IF	Citations
1	Experimental Apparent Sternâ€“Geary Coefficients for AZ31B Mg Alloy in Physiological Body Fluids for Accurate Corrosion Rate Determination. Metals, 2021, 11, 391.	1.0	16
2	Impact of carbon pores size on ionic liquid based-supercapacitor performance. Journal of Colloid and Interface Science, 2021, 588, 705-712.	5.0	29
3	A Procedure for Evaluating the Capacity Associated with Battery-Type Electrode and Supercapacitor-Type One in Composite Electrodes. Journal of the Electrochemical Society, 2018, 165, A4034-A4040.	1.3	34
4	Contribution of Cations and Anions of Aqueous Electrolytes to the Charge Stored at the Electric Electrolyte/Electrode Interface of Carbon-Based Supercapacitors. Journal of Physical Chemistry C, 2017, 121, 12053-12062.	1.5	35
5	Biocompatibility and Corrosion Protection Behaviour of Hydroxyapatite Sol-Gel-Derived Coatings on Ti6Al4V Alloy. Materials, 2017, 10, 94.	1.3	63
6	Effect of Isothermal Oxidation and Sol-Gel Thin Film Formation on Corrosion Behaviour of AZ31 and AZ61 Commercial Magnesium Alloys. ECS Meeting Abstracts, 2017, , .	0.0	0
7	Polyaniline nanofiber sponge filled graphene foam as high gravimetric and volumetric capacitance electrode. Journal of Power Sources, 2016, 317, 35-42.	4.0	49
8	Large-scale conversion of helical-ribbon carbon nanofibers to a variety of graphene-related materials. RSC Advances, 2016, 6, 57514-57520.	1.7	11
9	Composite Electrodes Made from Carbon Cloth as Supercapacitor Material and Manganese and Cobalt Oxide as Battery One. Journal of the Electrochemical Society, 2016, 163, A758-A765.	1.3	65
10	Improvement of the adhesion between polyaniline and commercial carbon paper by acid treatment and its application in supercapacitor electrodes. Composite Interfaces, 2016, 23, 133-143.	1.3	10
11	Applications for <scp>CO</scp>₂â€Activated Carbon Monoliths: <scp>II</scp>. <scp>EDLC</scp> Electrodes. International Journal of Applied Ceramic Technology, 2015, 12, E127.	1.1	5
12	Graphite Oxide: An Interesting Candidate for Aqueous Supercapacitors. Electrochimica Acta, 2014, 149, 245-251.	2.6	15
13	A study on the relationships between corrosion properties and chemistry of thermally oxidised surface films formed on polished commercial magnesium alloys AZ31 and AZ61. Applied Surface Science, 2014, 295, 219-230.	3.1	26
14	E. grandis as a Biocarbons Precursor for Supercapacitor Electrode Application. Waste and Biomass Valorization, 2014, 5, 305-313.	1.8	25
15	Triethylphosphite as a network forming agent enhances in vitro biocompatibility and corrosion protection of hybrid organicâ€“inorganic solâ€“gel coatings for Ti6Al4V alloys. Journal of Materials Chemistry B, 2014, 2, 7955-7963.	2.9	12
16	Influence of substrate composition on corrosion protection of solâ€“gel thin films on magnesium alloys in 0.6M NaCl aqueous solution. Progress in Organic Coatings, 2014, 77, 1642-1652.	1.9	42
17	Biocarbon Monoliths as Supercapacitor Electrodes: Influence of Wood Anisotropy on Their Electrical and Electrochemical Properties. Journal of the Electrochemical Society, 2014, 161, A1806-A1811.	1.3	34
18	Enhancing in vitro biocompatibility and corrosion protection of organicâ€“inorganic hybrid solâ€“gel films with nanocrystalline hydroxyapatite. Journal of Materials Chemistry B, 2014, 2, 3886-3896.	2.9	31

#	ARTICLE	IF	CITATIONS
19	The effect of low temperature heat treatment on surface chemistry and corrosion resistance of commercial magnesium alloys AZ31 and AZ61 in 0.6MNaCl solution. Corrosion Science, 2014, 80, 461-472.	3.0	28
20	Dense carbon monoliths for supercapacitors with outstanding volumetric capacitances. Carbon, 2014, 68, 553-562.	5.4	44
21	The contribution of sulfate ions and protons to the specific capacitance of microporous carbon monoliths. Journal of Power Sources, 2014, 262, 23-28.	4.0	4
22	Correlation between Capacitance and Porosity in Microporous Carbon Monoliths. Journal of Physical Chemistry C, 2014, 118, 5134-5141.	1.5	33
23	Carbon Nanocoils as Unusual Electrode Materials for Supercapacitors. Journal of the Electrochemical Society, 2012, 159, A464-A469.	1.3	17
24	Atmospheric corrosion of magnesium alloys AZ31 and AZ61 under continuous condensation conditions. Corrosion Science, 2011, 53, 1865-1872.	3.0	49
25	Preparation of solâ€“gel hybrid materials from Î³-methacryloxypropyltrimethoxysilane and tetramethyl orthosilicate: study of the hydrolysis and condensation reactions. Colloid and Polymer Science, 2011, 289, 1875-1883.	1.0	45
26	Influence of the microstructure and topography on the barrier properties of oxide scales generated on blasted Ti6Al4V surfaces. Acta Biomaterialia, 2011, 7, 2716-2725.	4.1	38
27	Effect of naturally formed oxide films and other variables in the early stages of Mg-alloy corrosion in NaCl solution. Electrochimica Acta, 2011, 56, 4554-4565.	2.6	50
28	Effect of the chemistry and structure of the native oxide surface film on the corrosion properties of commercial AZ31 and AZ61 alloys. Applied Surface Science, 2011, 257, 8558-8568.	3.1	78
29	Synthesis of copolymer-stabilized silver nanoparticles for coating materials. Colloid and Polymer Science, 2010, 288, 543-553.	1.0	33
30	Electrochemical study of tailored solâ€“gel thin films as pre-treatment prior to organic coating for AZ91 magnesium alloy. Progress in Organic Coatings, 2010, 68, 347-355.	1.9	99
31	Characterization of roughness and pitting corrosion of surfaces modified by blasting and thermal oxidation. Surface and Coatings Technology, 2010, 204, 3783-3793.	2.2	51
32	A Mathematical Model to Study the Effect of Different Variables on the Potential Distribution in a Damaged Metal/Organic Coating System Using FEM. ECS Transactions, 2010, 24, 101-113.	0.3	1
33	Tailored Sol-Gel Coatings as Environmentally Friendly Pre-Treatments for Corrosion Protection. ECS Transactions, 2010, 24, 277-290.	0.3	6
34	Amorphous Carbon Nanofibers and Their Activated Carbon Nanofibers as Supercapacitor Electrodes. Journal of Physical Chemistry C, 2010, 114, 10302-10307.	1.5	240
35	Amorphous carbon nanofibres inducing high specific capacitance of deposited hydrous ruthenium oxide. Electrochimica Acta, 2009, 54, 7452-7457.	2.6	29
36	In situ cell culture monitoring on a Tiâ€“6Alâ€“4V surface by electrochemical techniques. Acta Biomaterialia, 2009, 5, 1374-1384.	4.1	24

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37	Thermal oxidation enhances early interactions between human osteoblasts and alumina blasted Ti6Al4V alloy. Journal of Biomedical Materials Research - Part A, 2007, 81A, 334-346.	2.1	39
38	3D, chemical and electrochemical characterization of blasted TI6Al4V surfaces: Its influence on the corrosion behaviour. Electrochimica Acta, 2007, 52, 4374-4384.	2.6	46
39	Concentration-dependent effects of titanium and aluminium ions released from thermally oxidized Ti6Al4V alloy on human osteoblasts. Journal of Biomedical Materials Research - Part A, 2006, 77A, 220-229.	2.1	29
40	Contradictory results of the UVCON and saline immersion tests regarding the evaluation of some inhibitor/lacquer combinations on galvanised coatings. Progress in Organic Coatings, 2004, 50, 199-206.	1.9	5
41	Comparative EIS and XPS studies of the protective character of thin lacquer films containing CR or P salts formed on galvanised steel, galvanneal and galfan substrates. Electrochimica Acta, 2004, 49, 951-964.	2.6	10
42	Study of degradation mechanisms of a protective lacquer film formulated with phosphating reagents applied on galvanised steel, galvanneal and galfan in exposure to UV/condensation test. Surface and Coatings Technology, 2004, 182, 251-260.	2.2	0
43	Effect of the incorporation of chromating reagents in an acrylic lacquer applied on galvanised steel, galvanneal and galfan during the UVCON test. Surface and Coatings Technology, 2004, 182, 318-328.	2.2	2
44	Spectroscopic and electrochemical characterisation of thin cathodic plasma polymer films on iron. Applied Surface Science, 2004, 229, 87-96.	3.1	21
45	Correlation of morphology and barrier properties of thin microwave plasma polymer films on metal substrate. Electrochimica Acta, 2004, 49, 1999-2013.	2.6	51
46	EIS study of the corrosion behaviour of zinc-based coatings on steel in quiescent 3% NaCl solution. Part 1: directly exposed coatings. Corrosion Science, 2004, 46, 2203-2220.	3.0	170
47	EIS study of the corrosion behaviour of zinc-based coatings on steel in quiescent 3% NaCl solution. Part 2: coatings covered with an inhibitor-containing lacquer. Corrosion Science, 2004, 46, 2221-2240.	3.0	27
48	Tailored thin plasma polymers for the corrosion protection of metals. Surface and Coatings Technology, 2003, 174-175, 996-1001.	2.2	42
49	XPS study of the surface chemistry of conventional hot-dip galvanised pure Zn, galvanneal and Znâ€“Al alloy coatings on steel. Acta Materialia, 2003, 51, 5413-5424.	3.8	139
50	Native Oxide Films on AZ31 and AZ61 Commercial Magnesium Alloys â€“ Corrosion Behaviour, Effect on Isothermal Oxidation and Solâ€“gel Thin Film Formation. , 0, , .		3
51	A Measuring Approach to Assess the Corrosion Rate of Magnesium Alloys Using Electrochemical Impedance Spectroscopy. , 0, , .		9
52	A Critical Review of the Application of Electrochemical Techniques for Studying Corrosion of Mg and Mg Alloys: Opportunities and Challenges. , 0, , .		11