

Violeta Barranco

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/939162/publications.pdf>

Version: 2024-02-01

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	Amorphous Carbon Nanofibers and Their Activated Carbon Nanofibers as Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10302-10307.	1.5	240
2	EIS study of the corrosion behaviour of zinc-based coatings on steel in quiescent 3% NaCl solution. Part 1: directly exposed coatings. <i>Corrosion Science</i> , 2004, 46, 2203-2220.	3.0	170
3	XPS study of the surface chemistry of conventional hot-dip galvanised pure Zn, galvanneal and Zn-Al alloy coatings on steel. <i>Acta Materialia</i> , 2003, 51, 5413-5424.	3.8	139
4	Electrochemical study of tailored sol-gel thin films as pre-treatment prior to organic coating for AZ91 magnesium alloy. <i>Progress in Organic Coatings</i> , 2010, 68, 347-355.	1.9	99
5	Effect of the chemistry and structure of the native oxide surface film on the corrosion properties of commercial AZ31 and AZ61 alloys. <i>Applied Surface Science</i> , 2011, 257, 8558-8568.	3.1	78
6	Composite Electrodes Made from Carbon Cloth as Supercapacitor Material and Manganese and Cobalt Oxide as Battery One. <i>Journal of the Electrochemical Society</i> , 2016, 163, A758-A765.	1.3	65
7	Biocompatibility and Corrosion Protection Behaviour of Hydroxyapatite Sol-Gel-Derived Coatings on Ti6Al4V Alloy. <i>Materials</i> , 2017, 10, 94.	1.3	63
8	Correlation of morphology and barrier properties of thin microwave plasma polymer films on metal substrate. <i>Electrochimica Acta</i> , 2004, 49, 1999-2013.	2.6	51
9	Characterization of roughness and pitting corrosion of surfaces modified by blasting and thermal oxidation. <i>Surface and Coatings Technology</i> , 2010, 204, 3783-3793.	2.2	51
10	Effect of naturally formed oxide films and other variables in the early stages of Mg-alloy corrosion in NaCl solution. <i>Electrochimica Acta</i> , 2011, 56, 4554-4565.	2.6	50
11	Atmospheric corrosion of magnesium alloys AZ31 and AZ61 under continuous condensation conditions. <i>Corrosion Science</i> , 2011, 53, 1865-1872.	3.0	49
12	Polyaniline nanofiber sponge filled graphene foam as high gravimetric and volumetric capacitance electrode. <i>Journal of Power Sources</i> , 2016, 317, 35-42.	4.0	49
13	3D, chemical and electrochemical characterization of blasted Ti6Al4V surfaces: Its influence on the corrosion behaviour. <i>Electrochimica Acta</i> , 2007, 52, 4374-4384.	2.6	46
14	Preparation of sol-gel hybrid materials from γ -methacryloxypropyltrimethoxysilane and tetramethyl orthosilicate: study of the hydrolysis and condensation reactions. <i>Colloid and Polymer Science</i> , 2011, 289, 1875-1883.	1.0	45
15	Dense carbon monoliths for supercapacitors with outstanding volumetric capacitances. <i>Carbon</i> , 2014, 68, 553-562.	5.4	44
16	Tailored thin plasma polymers for the corrosion protection of metals. <i>Surface and Coatings Technology</i> , 2003, 174-175, 996-1001.	2.2	42
17	Influence of substrate composition on corrosion protection of sol-gel thin films on magnesium alloys in 0.6M NaCl aqueous solution. <i>Progress in Organic Coatings</i> , 2014, 77, 1642-1652.	1.9	42
18	Thermal oxidation enhances early interactions between human osteoblasts and alumina blasted Ti6Al4V alloy. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 334-346.	2.1	39

#	ARTICLE	IF	CITATIONS
19	Influence of the microstructure and topography on the barrier properties of oxide scales generated on blasted Ti6Al4V surfaces. <i>Acta Biomaterialia</i> , 2011, 7, 2716-2725.	4.1	38
20	Contribution of Cations and Anions of Aqueous Electrolytes to the Charge Stored at the Electric Electrolyte/Electrode Interface of Carbon-Based Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12053-12062.	1.5	35
21	Biocarbon Monoliths as Supercapacitor Electrodes: Influence of Wood Anisotropy on Their Electrical and Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1806-A1811.	1.3	34
22	A Procedure for Evaluating the Capacity Associated with Battery-Type Electrode and Supercapacitor-Type One in Composite Electrodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, A4034-A4040.	1.3	34
23	Synthesis of copolymer-stabilized silver nanoparticles for coating materials. <i>Colloid and Polymer Science</i> , 2010, 288, 543-553.	1.0	33
24	Correlation between Capacitance and Porosity in Microporous Carbon Monoliths. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5134-5141.	1.5	33
25	Enhancing <i>in vitro</i> biocompatibility and corrosion protection of organic-inorganic hybrid sol-gel films with nanocrystalline hydroxyapatite. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3886-3896.	2.9	31
26	Concentration-dependent effects of titanium and aluminium ions released from thermally oxidized Ti6Al4V alloy on human osteoblasts. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 220-229.	2.1	29
27	Amorphous carbon nanofibres inducing high specific capacitance of deposited hydrous ruthenium oxide. <i>Electrochimica Acta</i> , 2009, 54, 7452-7457.	2.6	29
28	Impact of carbon pores size on ionic liquid based-supercapacitor performance. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 705-712.	5.0	29
29	The effect of low temperature heat treatment on surface chemistry and corrosion resistance of commercial magnesium alloys AZ31 and AZ61 in 0.6MNaCl solution. <i>Corrosion Science</i> , 2014, 80, 461-472.	3.0	28
30	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. <i>Corrosion Science</i> , 2004, 46, 2221-2240.	3.0	27
31	A study on the relationships between corrosion properties and chemistry of thermally oxidised surface films formed on polished commercial magnesium alloys AZ31 and AZ61. <i>Applied Surface Science</i> , 2014, 295, 219-230.	3.1	26
32	<i>E. grandis</i> as a Biocarbons Precursor for Supercapacitor Electrode Application. <i>Waste and Biomass Valorization</i> , 2014, 5, 305-313.	1.8	25
33	In situ cell culture monitoring on a Ti6Al4V surface by electrochemical techniques. <i>Acta Biomaterialia</i> , 2009, 5, 1374-1384.	4.1	24
34	Spectroscopic and electrochemical characterisation of thin cathodic plasma polymer films on iron. <i>Applied Surface Science</i> , 2004, 229, 87-96.	3.1	21
35	Carbon Nanocoils as Unusual Electrode Materials for Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2012, 159, A464-A469.	1.3	17
36	Experimental Apparent Stern-Geary Coefficients for AZ31B Mg Alloy in Physiological Body Fluids for Accurate Corrosion Rate Determination. <i>Metals</i> , 2021, 11, 391.	1.0	16

#	ARTICLE	IF	CITATIONS
37	Graphite Oxide: An Interesting Candidate for Aqueous Supercapacitors. <i>Electrochimica Acta</i> , 2014, 149, 245-251.	2.6	15
38	Triethylphosphite as a network forming agent enhances in vitro biocompatibility and corrosion protection of hybrid organic-inorganic sol-gel coatings for Ti6Al4V alloys. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7955-7963.	2.9	12
39	Large-scale conversion of helical-ribbon carbon nanofibers to a variety of graphene-related materials. <i>RSC Advances</i> , 2016, 6, 57514-57520.	1.7	11
40	A Critical Review of the Application of Electrochemical Techniques for Studying Corrosion of Mg and Mg Alloys: Opportunities and Challenges. , 0, , .		11
41	Comparative EIS and XPS studies of the protective character of thin lacquer films containing CR or P salts formed on galvanised steel, galvaneal and galfan substrates. <i>Electrochimica Acta</i> , 2004, 49, 951-964.	2.6	10
42	Improvement of the adhesion between polyaniline and commercial carbon paper by acid treatment and its application in supercapacitor electrodes. <i>Composite Interfaces</i> , 2016, 23, 133-143.	1.3	10
43	A Measuring Approach to Assess the Corrosion Rate of Magnesium Alloys Using Electrochemical Impedance Spectroscopy. , 0, , .		9
44	Tailored Sol-Gel Coatings as Environmentally Friendly Pre-Treatments for Corrosion Protection. <i>ECS Transactions</i> , 2010, 24, 277-290.	0.3	6
45	Contradictory results of the UVCON and saline immersion tests regarding the evaluation of some inhibitor/lacquer combinations on galvanised coatings. <i>Progress in Organic Coatings</i> , 2004, 50, 199-206.	1.9	5
46	Applications for CO_2 -Activated Carbon Monoliths: EDLC Electrodes. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, E127.	1.1	5
47	The contribution of sulfate ions and protons to the specific capacitance of microporous carbon monoliths. <i>Journal of Power Sources</i> , 2014, 262, 23-28.	4.0	4
48	Native Oxide Films on AZ31 and AZ61 Commercial Magnesium Alloys - Corrosion Behaviour, Effect on Isothermal Oxidation and Sol-gel Thin Film Formation. , 0, , .		3
49	Effect of the incorporation of chromating reagents in an acrylic lacquer applied on galvanised steel, galvaneal and galfan during the UVCON test. <i>Surface and Coatings Technology</i> , 2004, 182, 318-328.	2.2	2
50	A Mathematical Model to Study the Effect of Different Variables on the Potential Distribution in a Damaged Metal/Organic Coating System Using FEM. <i>ECS Transactions</i> , 2010, 24, 101-113.	0.3	1
51	Study of degradation mechanisms of a protective lacquer film formulated with phosphating reagents applied on galvanised steel, galvaneal and galfan in exposure to UV/condensation test. <i>Surface and Coatings Technology</i> , 2004, 182, 251-260.	2.2	0
52	Effect of Isothermal Oxidation and Sol-Gel Thin Film Formation on Corrosion Behaviour of AZ31 and AZ61 Commercial Magnesium Alloys. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0