

# Mu00f3nica A Fernu00e1ndez Lorenzo

## List of Publications by Year in descending order

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59  
papers

2,182  
citations

201674

27  
h-index

223800

46  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical discussion of the results from different corrosion studies of Mg and Mg alloys for biomaterial applications. Acta Biomaterialia, 2010, 6, 1749-1755.	8.3	201
2	Comparative study of the cytotoxic and genotoxic effects of titanium oxide and aluminium oxide nanoparticles in Chinese hamster ovary (CHO-K1) cells. Journal of Hazardous Materials, 2010, 177, 711-718.	12.4	167
3	Spontaneous adsorption of silver nanoparticles on Ti/TiO2 surfaces. Antibacterial effect on Pseudomonas aeruginosa. Journal of Colloid and Interface Science, 2010, 350, 402-408.	9.4	145
4	Nano/Microscale Order Affects the Early Stages of Biofilm Formation on Metal Surfaces. Langmuir, 2007, 23, 11206-11210.	3.5	123
5	Degradation of magnesium and its alloys: Dependence on the composition of the synthetic biological media. Journal of Biomedical Materials Research - Part A, 2009, 90A, 487-495.	4.0	120
6	Corrosion inhibition of powder metallurgy Mg by fluoride treatments. Acta Biomaterialia, 2010, 6, 1772-1782.	8.3	116
7	Metallic Dental Material Biocompatibility in Osteoblast-like Cells: Correlation with Metal Ion Release. Biological Trace Element Research, 2004, 100, 151-168.	3.5	77
8	Influence of the nano-micro structure of the surface on bacterial adhesion. Materials Research, 2007, 10, 11-14.	1.3	75
9	Cytotoxicity of Copper Ions Released from Metal: Variation with the Exposure Period and Concentration Gradients. Biological Trace Element Research, 2004, 102, 129-142.	3.5	57
10	Comparative study of fluoride conversion coatings formed on biodegradable powder metallurgy Mg: The effect of chlorides at physiological level. Materials Science and Engineering C, 2011, 31, 858-865.	7.3	52
11	Potentiodynamic Study of Glucose Electro-Oxidation at Bright Platinum Electrodes. Journal of the Electrochemical Society, 1982, 129, 2207-2213.	2.9	50
12	Biomaterial Interface Investigated by Electrochemical Impedance Spectroscopy. Advanced Engineering Materials, 2008, 10, B33.	3.5	47
13	Response of UMR 106 cells exposed to titanium oxide and aluminum oxide nanoparticles. Journal of Biomedical Materials Research - Part A, 2010, 92A, 80-86.	4.0	47
14	Submicron Trenches Reduce the Pseudomonas fluorescens Colonization Rate on Solid Surfaces. ACS Applied Materials & Interfaces, 2009, 1, 136-143.	8.0	43
15	Does over-exposure to copper ions released from metallic copper induce cytotoxic and genotoxic effects on mammalian cells?. Contraception, 2010, 81, 343-349.	1.5	43
16	Have flagella a preferred orientation during early stages of biofilm formation?: AFM study using patterned substrates. Colloids and Surfaces B: Biointerfaces, 2011, 82, 536-542.	5.0	41
17	Chlorhexidine delivery system from titanium/polybenzyl acrylate coating: Evaluation of cytotoxicity and early bacterial adhesion. Journal of Dentistry, 2012, 40, 329-337.	4.1	40
18	The electrooxidation of glucose on platinum electrodes in buffered media. Bioelectrochemistry, 1983, 10, 239-249.	1.0	39

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19	The electro-oxidation of glucose on microcolumnar gold electrodes in different neutral solutions. <i>Journal of Electroanalytical Chemistry</i> , 1992, 323, 149-162.	3.8	38
20	Cellular response to rare earth mixtures (La and Gd) as components of degradable Mg alloys for medical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 117, 312-321.	5.0	35
21	Comparative study of transdermal drug delivery systems of resveratrol: High efficiency of deformable liposomes. <i>Materials Science and Engineering C</i> , 2018, 90, 356-364.	7.3	35
22	Use of dissolved ozone for controlling planktonic and sessile bacteria in industrial cooling systems. <i>International Biodeterioration and Biodegradation</i> , 1999, 44, 201-207.	3.9	32
23	Electrochemical behaviour of titanium in fluoride-containing saliva. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 95-100.	2.9	32
24	Cytotoxicity of corrosion products of degradable Fe-based stents: Relevance of pH and insoluble products. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 128, 480-488.	5.0	32
25	Organization of <i>Pseudomonas fluorescens</i> on Chemically Different Nano/Microstructured Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2530-2539.	8.0	30
26	Comparative study of the electrochemical behaviour of glucose and other compounds of biological interest. <i>Bioelectrochemistry</i> , 1982, 9, 469-487.	1.0	29
27	Effects of copper ions released from metallic copper on CHO-K1 cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 672, 45-50.	1.7	29
28	Biocompatibility of magnesium particles evaluated by <i>in vitro</i> cytotoxicity and genotoxicity assays. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 99B, 111-119.	3.4	25
29	Reduction of the "burst release" of copper ions from copper-based intrauterine devices by organic inhibitors. <i>Contraception</i> , 2012, 85, 91-98.	1.5	25
30	Degradation of bioabsorbable Mg-based alloys: Assessment of the effects of insoluble corrosion products and joint effects of alloying components on mammalian cells. <i>Materials Science and Engineering C</i> , 2016, 58, 372-380.	7.3	24
31	Photodynamic inactivation induced by carboxypterin: a novel non-toxic bactericidal strategy against planktonic cells and biofilms of <i>Staphylococcus aureus</i> . <i>Biofouling</i> , 2015, 31, 459-468.	2.2	23
32	Corrosion protection of AZ31 alloy and constrained bacterial adhesion mediated by a polymeric coating obtained from a phytocompound. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 172, 187-196.	5.0	22
33	Biological effects of magnesium particles degradation on UMR-106 cell line: Influence of fluoride treatments. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 471-476.	5.0	21
34	Synergistic antimicrobial effect against early biofilm formation: micropatterned surface plus antibiotic treatment. <i>International Journal of Antimicrobial Agents</i> , 2012, 40, 221-226.	2.5	21
35	Assessment of cytotoxic and cytogenetic effects of a 1,2,5-thiadiazole derivative on CHO-K1 cells. Its application as corrosion inhibitor. <i>Journal of Hazardous Materials</i> , 2009, 170, 1173-1178.	12.4	20
36	Synergistic effect of carboxypterin and methylene blue applied to antimicrobial photodynamic therapy against mature biofilm of <i>Klebsiella pneumoniae</i> . <i>Heliyon</i> , 2020, 6, e03522.	3.2	20

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37	Decrease in Cytotoxicity of Copper-Based Intrauterine Devices (IUD) Pretreated with 6-Mercaptopurine and Pterin as Biocompatible Corrosion Inhibitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 249-255.	8.0	19
38	Influence of Surface Sub-micropattern on the Adhesion of Pioneer Bacteria on Metals. <i>Artificial Organs</i> , 2008, 32, 292-298.	1.9	18
39	Time-Lapse Evaluation of Interactions Between Biodegradable Mg Particles and Cells. <i>Microscopy and Microanalysis</i> , 2016, 22, 1-12.	0.4	18
40	Microstructural characteristics of thin biofilms through optical and scanning electron microscopy. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 805-810.	3.6	15
41	Relationship between radial diffusion of copper ions released from a metal disk and cytotoxic effects. Comparison with results obtained using extracts. <i>Bioelectrochemistry</i> , 2008, 72, 94-101.	4.6	15
42	Is there any difference in the biological impact of soluble and insoluble degradation products of iron-containing biomaterials?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 238-246.	5.0	13
43	Self-sterilizing ormosils surfaces based on photo-synthesized silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 144-154.	5.0	13
44	Electrochemical behaviour of copper in potassium thiocyanate solution. II. Analysis of potentiostatic current transients. <i>Electrochimica Acta</i> , 1987, 32, 231-238.	5.2	12
45	Effective inhibition of the early copper ion burst release by purine adsorption in simulated uterine fluids. <i>Electrochimica Acta</i> , 2016, 189, 54-63.	5.2	12
46	Effect of degradation products of iron-bioresorbable implants on the physiological behavior of macrophages <i>in vitro</i> . <i>Metallomics</i> , 2020, 12, 1841-1850.	2.4	11
47	Do phosphate ions affect the biodegradation rate of fluoride-treated Mg?. <i>Materials Letters</i> , 2012, 68, 149-152.	2.6	10
48	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 157-164.	2.9	8
49	Impact of molecular structure of two natural phenolic isomers on the protective characteristics of electropolymerized nanolayers formed on copper. <i>Electrochimica Acta</i> , 2016, 215, 289-297.	5.2	8
50	Is the early fragmentation of intrauterine devices caused by stress corrosion cracking?. <i>Acta Biomaterialia</i> , 2009, 5, 3240-3246.	8.3	7
51	Synergistic cytotoxic effects of ions released by zinc-aluminum bronze and the metallic salts on osteoblastic cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 2129-2140.	4.0	6
52	Characterization and antimicrobial effect of a bioinspired thymol coating formed on titanium surface by one-step immersion treatment. <i>Dental Materials</i> , 2020, 36, 1495-1507.	3.5	6
53	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2001, 31, 591-598.	2.9	4
54	Enhancement of Glutaraldehyde Biocidal Efficacy by the Application of an Electric Field. Effect on Sessile Cells and on Cells Released by the Biofilm. <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 1077-1081.	3.6	4

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55	Environmentally Induced Changes of Commercial Carbon Nanotubes in Aqueous Suspensions. Adaptive Behavior of Bacteria in Biofilms. ACS Omega, 2021, 6, 5197-5208.	3.5	4
56	Electrochemical study of endodontic silver cones used in root canal therapy. Biomaterials, 1986, 7, 297-300.	11.4	1
57	Comment on "The interaction of cells and bacteria with surfaces structured at the nanometre scale". Acta Biomaterialia, 2011, 7, 1934-1935.	8.3	1
58	Different Impact of Suspended Al2O3 Nanoparticles on Microbial Communities: Formation of 2D-Networks (Without Humic Acids) or 3D-Colonies (With Humic Acids). Microbial Ecology, 2023, 85, 137-145.	2.8	1
59	Comparative study of the electrochemical behaviour of glucose and other compounds of biological interest. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 141, 469-487.	0.1	0