Mu00f3nica A Fernu00e1ndez Lorenzo

List of Publications by Year
in descending order

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	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
2	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
3	Characterization and antimicrobial effect of a bioinspired thymol coating formed on titanium surface by one-step immersion treatment. Dental Materials, 2020, 36, 1495-1507.	3.5	6
4	Effect of degradation products of iron-bioresorbable implants on the physiological behavior of macrophages in vitro. Metallomics, 2020, 12, 1841-1850.	2.4	11
5	Synergistic effect of carboxypterin and methylene blue applied to antimicrobial photodynamic therapy against mature biofilm of Klebsiella pneumoniae. Heliyon, 2020, 6, e03522.	3.2	20
6	Self-sterilizing ormosils surfaces based on photo-synzthesized silver nanoparticles. Colloids and Surfaces B: Biointerfaces, 2018, 164, 144-154.	5.0	13
7	Comparative study of transdermal drug delivery systems of resveratrol: High efficiency of deformable liposomes. Materials Science and Engineering C, 2018, 90, 356-364.	7.3	35
8	Corrosion protection of AZ31 alloy and constrained bacterial adhesion mediated by a polymeric coating obtained from a phytocompound. Colloids and Surfaces B: Biointerfaces, 2018, 172, 187-196.	5.0	22
9	Is there any difference in the biological impact of soluble and insoluble degradation products of iron-containing biomaterials?. Colloids and Surfaces B: Biointerfaces, 2017, 160, 238-246.	5.0	13
10	Time-Lapse Evaluation of Interactions Between Biodegradable Mg Particles and Cells. Microscopy and Microanalysis, 2016, 22, 1-12.	0.4	18
11	Impact of molecular structure of two natural phenolic isomers on the protective characteristics of electropolymerized nanolayers formed on copper. Electrochimica Acta, 2016, 215, 289-297.	5.2	8
12	Effective inhibition of the early copper ion burst release by purine adsorption in simulated uterine fluids. Electrochimica Acta, 2016, 189, 54-63.	5.2	12
13	Degradation of bioabsorbable Mg-based alloys: Assessment of the effects of insoluble corrosion products and joint effects of alloying components on mammalian cells. Materials Science and Engineering C, 2016, 58, 372-380.	7.3	24
14	Cytotoxicity of corrosion products of degradable Fe-based stents: Relevance of pH and insoluble products. Colloids and Surfaces B: Biointerfaces, 2015, 128, 480-488.	5.0	32
15	Photodynamic inactivation induced by carboxypterin: a novel non-toxic bactericidal strategy against planktonic cells and biofilms ofStaphylococcus aureus. Biofouling, 2015, 31, 459-468.	2.2	23
16	Cellular response to rare earth mixtures (La and Gd) as components of degradable Mg alloys for medical applications. Colloids and Surfaces B: Biointerfaces, 2014, 117, 312-321.	5.0	35
17	Decrease in Cytotoxicity of Copper-Based Intrauterine Devices (IUD) Pretreated with 6-Mercaptopurine and Pterin as Biocompatible Corrosion Inhibitors. ACS Applied Materials & Interfaces, 2013, 5, 249-255.	8.0	19
18	Synergistic cytotoxic effects of ions released by zincâ€“aluminum bronze and the metallic salts on osteoblastic cells. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2129-2140.	4.0	6

#	Article	IF	Citations
19	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
20	Reduction of the â€œburst releaseâ€•of copper ions from copper-based intrauterine devices by organic inhibitors. Contraception, 2012, 85, 91-98.	1.5	25
21	Synergistic antimicrobial effect against early biofilm formation: micropatterned surface plus antibiotic treatment. International Journal of Antimicrobial Agents, 2012, 40, 221-226.	2.5	21
22	Do phosphate ions affect the biodegradation rate of fluoride-treated Mg?. Materials Letters, 2012, 68, 149-152.	2.6	10
23	Biological effects of magnesium particles degradation on UMR-106 cell line: Influence of fluoride treatments. Colloids and Surfaces B: Biointerfaces, 2011, 88, 471-476.	5.0	21
24	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
25	Biocompatibility of magnesium particles evaluated by in vitro cytotoxicity and genotoxicity assays. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 99B, 111-119.	3.4	25
26	Comment on â€œThe interaction of cells and bacteria with surfaces structured at the nanometre scaleâ€• Acta Biomaterialia, 2011, 7, 1934-1935.	8.3	1
27	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
28	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
29	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
30	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
31	Corrosion inhibition of powder metallurgy Mg by fluoride treatmentsâ˜†. Acta Biomaterialia, 2010, 6, 1772-1782.	8.3	116
32	Critical discussion of the results from different corrosion studies of Mg and Mg alloys for biomaterial applicationsâ˜†. Acta Biomaterialia, 2010, 6, 1749-1755.	8.3	201
33	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
34	Organization ofPseudomonas fluorescenson Chemically Different Nano/Microstructured Surfaces. ACS Applied Materials & Interfaces, 2010, 2, 2530-2539.	8.0	30
35	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
36	Assessment of cytotoxic and cytogenetic effects of a 1,2,5-thiadiazole derivative on CHO-K1 cells. Its application as corrosion inhibitor. Journal of Hazardous Materials, 2009, 170, 1173-1178.	12.4	20

#	Article	IF	Citations
37	Is the early fragmentation of intrauterine devices caused by stress corrosion cracking?. Acta Biomaterialia, 2009, 5, 3240-3246.	8.3	7
38	Effects of copper ions released from metallic copper on CHO-K1 cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2009, 672, 45-50.	1.7	29
39	Submicron Trenches Reduce the Pseudomonas fluorescens Colonization Rate on Solid Surfaces. ACS Applied Materials & Interfaces, 2009, 1, 136-143.	8.0	43
40	Biomaterial Interface Investigated by Electrochemical Impedance Spectroscopy. Advanced Engineering Materials, 2008, 10, B33.	3.5	47
41	Relationship between radial diffusion of copper ions released from a metal disk and cytotoxic effects. Comparison with results obtained using extracts. Bioelectrochemistry, 2008, 72, 94-101.	4.6	15
42	Influence of Surface Sub-micropattern on the Adhesion of Pioneer Bacteria on Metals. Artificial Organs, 2008, 32, 292-298.	1.9	18
43	Nano/Microscale Order Affects the Early Stages of Biofilm Formation on Metal Surfaces. Langmuir, 2007, 23, 11206-11210.	3.5	123
44	Influence of the nano-micro structure of the surface on bacterial adhesion. Materials Research, 2007, 10, 11-14.	1.3	75
45	Enhancement of Glutaraldehyde Biocidal Efficacy by the Application of an Electric Field. Effect on Sessile Cells and on Cells Released by the Biofilm. World Journal of Microbiology and Biotechnology, 2005, 21, 1077-1081.	3.6	4
46	Metallic Dental Material BiocompatibilityinOsteoblastlikeCells: Correlation with Metal Ion Release. Biological Trace Element Research, 2004, 100, 151-168.	3.5	77
47	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
48	Microstructural characteristics of thin biofilms through optical and scanning electron microscopy. World Journal of Microbiology and Biotechnology, 2003, 19, 805-810.	3.6	15
49	Title is missing!. Journal of Applied Electrochemistry, 2002, 32, 157-164.	2.9	8
50	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 591-598.	2.9	4
51	Electrochemical behaviour of titanium in fluoride-containing saliva. Journal of Applied Electrochemistry, 2000, 30, 95-100.	2.9	32
52	Use of dissolved ozone for controlling planktonic and sessile bacteria in industrial cooling systems. International Biodeterioration and Biodegradation, 1999, 44, 201-207.	3.9	32
53	The electro-oxidation of glucose on microcolumnar gold electrodes in different neutral solutions. Journal of Electroanalytical Chemistry, 1992, 323, 149-162.	3.8	38
54	Electrochemical behaviour of copper in potassium thiocyanate solutionâ€"II. Analysis of potentiostatic current transients. Electrochimica Acta, 1987, 32, 231-238.	5.2	12

#	Article	IF	Citations
55	Electrochemical study of endodontic silver cones used in root canal therapy. Biomaterials, 1986, 7, 297-300.	11.4	1
56	The electrooxidation of glucose on platinum electrodes in buffered media. Bioelectrochemistry, 1983, 10, 239-249.	1.0	39
57	Potentiodynamic Study of Glucose Electroâ€Oxidation at Bright Platinum Electrodes. Journal of the Electrochemical Society, 1982, 129, 2207-2213.	2.9	50
58	503â€”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
59	Comparative study of the electrochemical behaviour of glucose and other compounds of biological interest. Bioelectrochemistry, 1982, 9, 469-487.	1.0	29