MarÃa Teresa PortolÃs PÃrez

List of Publications by Year
in descending order

72 papers	2,573 citations	159358 30 h-index	205818 48 g-index
73 all docs	73 docs citations	73 times ranked	4339 citing authors

#	Article	IF	Citations
1	In vitro biocompatibility assessment of poly($epsiv;-caprolactone) films using L929 mouse fibroblasts. Biomaterials, 2004, 25, 5603-5611.	5.7	252
2	Nanoâ€Graphene Oxide: A Potential Multifunctional Platform for Cancer Therapy. Advanced Healthcare Materials, 2013, 2, 1072-1090.	3.9	154
3	Endocytic Mechanisms of Graphene Oxide Nanosheets in Osteoblasts, Hepatocytes and Macrophages. ACS Applied Materials & Interfaces, 2014, 6, 13697-13706.	4.0	147
4	The effects of graphene oxide nanosheets localized on F-actin filaments on cell-cycle alterations. Biomaterials, 2013, 34, 1562-1569.	5.7	130
5	Interaction of an ordered mesoporous bioactive glass with osteoblasts, fibroblasts and lymphocytes, demonstrating its biocompatibility as a potential bone graft material. Acta Biomaterialia, 2010, 6, 892-899.	4.1	110
6	Multifunctional pH sensitive 3D scaffolds for treatment and prevention of bone infection. Acta Biomaterialia, 2018, 65, 450-461.	4.1	68
7	Vascular Endothelial and Smooth Muscle Cell Culture on NaOH-Treated Poly(É›-caprolactone) Films: A Preliminary Study for Vascular Graft Development. Macromolecular Bioscience, 2005, 5, 415-423.	2.1	67
8	Inhibition of bacterial adhesion on biocompatible zwitterionic SBA-15 mesoporous materials. Acta Biomaterialia, 2011, 7, 2977-2985.	4.1	62
9	In vitro evaluation of graphene oxide nanosheets on immune function. Journal of Colloid and Interface Science, 2014, 432, 221-228.	5.0	61
10	Biocompatibility markers for the study of interactions between osteoblasts and composite biomaterials. Biomaterials, 2009, 30, 45-51.	5.7	52
11	Cell uptake survey of pegylated nanographene oxide. Nanotechnology, 2012, 23, 465103.	1.3	52
12	Subacute Tissue Response to 3D Graphene Oxide Scaffolds Implanted in the Injured Rat Spinal Cord. Advanced Healthcare Materials, 2015, 4, 1861-1868.	3.9	51
13	Characterization of M1 and M2 polarization phenotypes in peritoneal macrophages after treatment with graphene oxide nanosheets. Colloids and Surfaces B: Biointerfaces, 2019, 176, 96-105.	2.5	49
14	Osteoconductive Performance of Carbon Nanotube Scaffolds Homogeneously Mineralized by Flowâ€Through Electrodeposition. Advanced Functional Materials, 2012, 22, 4411-4420.	7.8	46
15	In Vitro Biocompatibility and Antimicrobial Activity of Poly(Îµ-caprolactone)/Montmorillonite Nanocomposites. Biomacromolecules, 2012, 13, 4247-4256.	2.6	45
16	Biocompatibility and levofloxacin delivery of mesoporous materials. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 115-124.	2.0	45
17	Mitochondrial membrane potential and reactive oxygen species content of endothelial and smooth muscle cells cultured on poly(Îµ-caprolactone) films. Biomaterials, 2006, 27, 4706-4714.	5.7	44
18	The induction of lipid peroxidation by E. coli lipopolysaccharide on rat hepatocytes as an important factor in the etiology of endotoxic liver damage. Biochimica Et Biophysica Acta - General Subjects, 1993, 1158, 287-292.	1.1	42

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19	Covalently bonded dendrimer-maghemite nanosystems: nonviral vectors for in vitro gene magnetofection. Journal of Materials Chemistry, 2011, 21, 4598.	6.7	42
20	Osteostatin improves the osteogenic activity of fibroblast growth factor-2 immobilized in Si-doped hydroxyapatite in osteoblastic cells. Acta Biomaterialia, 2012, 8, 2770-2777.	4.1	40
21	Effects of nanocrystalline hydroxyapatites on macrophage polarization. Journal of Materials Chemistry B, 2016, 4, 1951-1959.	2.9	38
22	Transitory oxidative stress in L929 fibroblasts cultured on poly(Îµ-caprolactone) films. Biomaterials, 2005, 26, 5827-5834.	5.7	37
23	Alkaline-treated poly(Îµ-caprolactone) films: Degradation in the presence or absence of fibroblasts. Journal of Biomedical Materials Research - Part A, 2006, 76A, 788-797.	2.1	37
24	The binding ofEscherichia coliendotoxin to isolated rat hepatocytes. FEBS Letters, 1981, 131, 103-107.	1.3	36
25	New Nanocomposite System with Nanocrystalline Apatite Embedded into Mesoporous Bioactive Glass. Chemistry of Materials, 2012, 24, 1100-1106.	3.2	35
26	Tailoring hierarchical mesoâ€“macroporous 3D scaffolds: from nano to macro. Journal of Materials Chemistry B, 2014, 2, 49-58.	2.9	35
27	Evaluation of the in vitro biocompatibility of PMMA/high-load HA/carbon nanostructures bone cement formulations. Journal of Materials Science: Materials in Medicine, 2013, 24, 2787-2796.	1.7	34
28	Nanocrystalline silicon substituted hydroxyapatite effects on osteoclast differentiation and resorptive activity. Journal of Materials Chemistry B, 2014, 2, 2910.	2.9	34
29	Nanocrystallinity effects on osteoblast and osteoclast response to silicon substituted hydroxyapatite. Journal of Colloid and Interface Science, 2016, 482, 112-120.	5.0	34
30	Immobilization and bioactivity evaluation of FGF-1 and FGF-2 on powdered silicon-doped hydroxyapatite and their scaffolds for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2011, 22, 405-416.	1.7	32
31	Endothelial cells derived from circulating progenitors as an effective source to functional endothelialization of NaOHâ€treated poly(Îµâ€caprolactone) films. Journal of Biomedical Materials Research - Part A, 2008, 87A, 964-971.	2.1	30
32	Effect ofEscherichia coli lipopolysaccharide on the microviscosity of liver plasma membranes and hepatocyte suspensions and monolayers. Cell Biochemistry and Function, 1987, 5, 55-61.	1.4	28
33	Hepatic response to the oxidative stress induced by E. coli endotoxin: Glutathione as an index of the acute phase during the endotoxic shock. Molecular and Cellular Biochemistry, 1996, 159, 115-121.	1.4	28
34	L929 fibroblast and Saosâ€2 osteoblast response to hydroxyapatiteâ€Î²TCP/agarose biomaterial. Journal of Biomedical Materials Research - Part A, 2009, 89A, 539-549.	2.1	28
35	Intracellular calcium and pH alterations induced by Escherichia coli endotoxin in rat hepatocytes. Biochimica Et Biophysica Acta - Molecular Cell Research, 1991, 1092, 1-6.	1.9	26
36	In VitroPositive Biocompatibility Evaluation of Glassâ€“Glass Ceramic Thermoseeds for Hyperthermic Treatment of Bone Tumors. Tissue Engineering - Part A, 2008, 14, 617-627.	1.6	26

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37	Nitric oxide production by endothelial cells derived from blood progenitors cultured on NaOH-treated polycaprolactone films: A biofunctionality study. Acta Biomaterialia, 2009, 5, 2045-2053.	4.1	26
38	Ipriflavone-Loaded Mesoporous Nanospheres with Potential Applications for Periodontal Treatment. Nanomaterials, 2020, 10, 2573.	1.9	24
39	Incorporation and effects of mesoporous SiO2-CaO nanospheres loaded with ipriflavone on osteoblast/osteoclast cocultures. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 133, 258-268.	2.0	23
40	Graphene oxide nanosheets increase Candida albicans killing by pro-inflammatory and reparative peritoneal macrophages. Colloids and Surfaces B: Biointerfaces, 2018, 171, 250-259.	2.5	23
41	Response of osteoblasts and preosteoblasts to calcium deficient and Si substituted hydroxyapatites treated at different temperatures. Colloids and Surfaces B: Biointerfaces, 2015, 133, 304-313.	2.5	21
42	Differential effects of graphene oxide nanosheets on Candida albicans phagocytosis by murine peritoneal macrophages. Journal of Colloid and Interface Science, 2018, 512, 665-673.	5.0	21
43	Induction of nitric oxide synthase-2 proceeds with the concomitant downregulation of the endogenous caveolin levels. Journal of Cell Science, 2004, 117, 1687-1697.	1.2	20
44	Influence of the covalent immobilization of graphene oxide in poly(vinyl alcohol) on human osteoblast response. Colloids and Surfaces B: Biointerfaces, 2016, 138, 50-59.	2.5	20
45	Suppression of anoikis by collagen coating of interconnected macroporous nanometric carbonated hydroxyapatite/agarose scaffolds. Journal of Biomedical Materials Research - Part A, 2010, 95A, 793-800.	2.1	19
46	Signaling Pathways of Immobilized FGFâ€2 on Siliconâ€Substituted Hydroxyapatite. Macromolecular Bioscience, 2012, 12, 446-453.	2.1	19
47	In vitro evaluation of glassâ€“glass ceramic thermoseedâ€induced hyperthermia on human osteosarcoma cell line. Journal of Biomedical Materials Research - Part A, 2012, 100A, 64-71.	2.1	19
48	Triggering cell death by nanographene oxide mediated hyperthermia. Nanotechnology, 2014, 25, 035101.	1.3	19
49	MC3T3-E1 pre-osteoblast response and differentiation after graphene oxide nanosheet uptake. Colloids and Surfaces B: Biointerfaces, 2017, 158, 33-40.	2.5	19
50	Design of tunable protein-releasing nanoapatite/hydrogel scaffolds for hard tissue engineering. Materials Chemistry and Physics, 2014, 144, 409-417.	2.0	18
51	An Immunological Approach to the Biocompatibility of Mesoporous SiO2-CaO Nanospheres. International Journal of Molecular Sciences, 2020, 21, 8291.	1.8	17
52	Effects of Human and Porcine Adipose Extracellular Matrices Decellularized by Enzymatic or Chemical Methods on Macrophage Polarization and Immunocompetence. International Journal of Molecular Sciences, 2021, 22, 3847.	1.8	17
53	Binding studies and localization ofEscherichia coli lipopolysaccharide in cultured hepatocytes by an immunocolloidal-gold technique. The Histochemical Journal, 1991, 23, 221-228.	0.6	15
54	High glucose alters the secretome of mechanically stimulated osteocyteâ€like cells affecting osteoclast precursor recruitment and differentiation. Journal of Cellular Physiology, 2017, 232, 3611-3621.	2.0	15

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55	Effects of 3D nanocomposite bioceramic scaffolds on the immune response. Journal of Materials Chemistry B, 2014, 2, 3469.	2.9	14
56	Benefits in the Macrophage Response Due to Graphene Oxide Reduction by Thermal Treatment. International Journal of Molecular Sciences, 2021, 22, 6701.	1.8	14
57	Effective Actions of Ion Release from Mesoporous Bioactive Glass and Macrophage Mediators on the Differentiation of Osteoprogenitor and Endothelial Progenitor Cells. Pharmaceutics, 2021, 13, 1152.	2.0	14
58	Effects of immobilized VEGF on endothelial progenitor cells cultured on silicon substituted and nanocrystalline hydroxyapatites. RSC Advances, 2016, 6, 92586-92595.	1.7	12
59	Effects of Ipriflavone-Loaded Mesoporous Nanospheres on the Differentiation of Endothelial Progenitor Cells and Their Modulation by Macrophages. Nanomaterials, 2021, 11, 1102.	1.9	12
60	Effect of Bile Acids on Butyrate-Sensitive and -Resistant Human Colon Adenocarcinoma Cells. Nutrition and Cancer, 2005, 53, 208-219.	0.9	11
61	Effect of Escherichia coli lipopolysaccharide on the glucagon and insulin binding to isolated rat hepatocytes. Molecular and Cellular Biochemistry, 1984, 65, 37-44.	1.4	10
62	Progenitor-derived endothelial cell response, platelet reactivity and haemocompatibility parameters indicate the potential of NaOH-treated polycaprolactone for vascular tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, 238-247.	1.3	9
63	Early in vitro response of macrophages and T lymphocytes to nanocrystalline hydroxyapatites. Journal of Colloid and Interface Science, 2014, 416, 59-66.	5.0	9
64	Calcium and reactive oxygen species as messengers in endotoxin action on adrenocortical cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1454, 1-10.	1.8	8
65	Involvement of cytochrome b5 in the cytotoxic response to Escherichia coli Lipopolysaccharide. Molecular and Cellular Biochemistry, 1989, 87, 79-84.	1.4	7
66	Action of E. coli endotoxin, IL-1beta and TNF-alpha on antioxidant status of cultured hepatocytes. Molecular and Cellular Biochemistry, 2002, 231, 75-82.	1.4	7
67	Escherichia colilipopolysaccharide effects on proliferating rat liver cells in culture: a morphological and functional study. Tissue and Cell, 1999, 31, 1-7.	1.0	6
68	Effects of bleaching on osteoclast activity and their modulation by osteostatin and fibroblast growth factor 2. Journal of Colloid and Interface Science, 2016, 461, 285-291.	5.0	5
69	Candida albicans/Macrophage Biointerface on Human and Porcine Decellularized Adipose Matrices. Journal of Fungi (Basel, Switzerland), 2021, 7, 392.	1.5	3
70	A Customizable Instrument for Measuring the Mechanical Properties of Thin Biomedical Membranes. Macromolecular Materials and Engineering, 2005, 290, 953-960.	1.7	0
71	Neural Regeneration: Subacute Tissue Response to 3D Graphene Oxide Scaffolds Implanted in the Injured Rat Spinal Cord (Adv. Healthcare Mater. 12/2015). Advanced Healthcare Materials, 2015, 4, 1892-1892.	3.9	0
72	Potentiality of Graphene-Based Materials for Neural Repair. Carbon Nanostructures, 2016, , 159-190.	0.1	0