Isabel B. Leonor

List of Publications by Citations

57 papers	1,591 citations	24 h-index	38 g-index
60 ext. papers	1,726 ext. citations	5.6 avg, IF	4.33 L-index

#	Paper	IF	Citations
57	Natural and Genetically Engineered Proteins for Tissue Engineering. *Progress in Polymer Science*, **2012**, 37, 1-17	29.6	199
56	Designing biomaterials based on biomineralization of bone. *Journal of Materials Chemistry*, **2010**, 20, 2911		134
55	Surface controlled biomimetic coating of polycaprolactone nanofiber meshes to be used as bone extracellular matrix analogues. *Journal of Biomaterials Science, Polymer Edition*, **2008**, 19, 1261-78	3.5	83
54	Antimicrobial functionalized genetically engineered spider silk. *Biomaterials*, **2011**, 32, 4255-66	15.6	76
53	In vitro bioactivity of starch thermoplastic/hydroxyapatite composite biomaterials: an in situ study using atomic force microscopy. *Biomaterials*, **2003**, 24, 579-85	15.6	71
52	Optimized electro- and wet-spinning techniques for the production of polymeric fibrous scaffolds loaded with bisphosphonate and hydroxyapatite. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, 253-63	4.4	67
51	Growth of a bonelike apatite on chitosan microparticles after a calcium silicate treatment. *Acta Biomaterialia*, **2008**, 4, 1349-59	10.8	61
50	Bioactive starch-based scaffolds and human adipose stem cells are a good combination for bone tissue engineering. *Acta Biomaterialia*, **2012**, 8, 3765-76	10.8	57
49	Undifferentiated human adipose-derived stromal/stem cells loaded onto wet-spun starch-polycaprolactone scaffolds enhance bone regeneration: nude mice calvarial defect in vivo study. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 3102-11	5.4	44
48	Novel hydroxyapatite/carboxymethylchitosan composite scaffolds prepared through an innovative "autocatalytic" electroless coprecipitation route. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 470-80	5.4	41
47	Novel starch thermoplastic/Bioglass composites: mechanical properties, degradation behavior and in-vitro bioactivity. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 939-45	4.5	41
46	A tissue engineering approach for periodontal regeneration based on a biodegradable double-layer scaffold and adipose-derived stem cells. *Tissue Engineering - Part A*, **2014**, 20, 2483-92	3.9	39
45	Incorporation of proteins and enzymes at different stages of the preparation of calcium phosphate coatings on a degradable substrate by a biomimetic methodology. *Materials Science and Engineering C*, **2005**, 25, 169-179	8.3	37
44	Spider silk-bone sialoprotein fusion proteins for bone tissue engineering. *Soft Matter*, **2011**, 7, 4964	3.6	36
43	Antimicrobial coating of spider silk to prevent bacterial attachment on silk surgical sutures. *Acta Biomaterialia*, **2019**, 99, 236-246	10.8	34
42	In situ functionalization of wet-spun fibre meshes for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, 104-11	4.4	34
41	Functionalization of different polymers with sulfonic groups as a way to coat them with a biomimetic apatite layer. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1923-30	4.5	34

40	An innovative auto-catalytic deposition route to produce calcium-phosphate coatings on polymeric biomaterials. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 435-41	4.5	30
39	Chitosan scaffolds incorporating lysozyme into CaP coatings produced by a biomimetic route: a novel concept for tissue engineering combining a self-regulated degradation system with in situ pore formation. *Acta Biomaterialia*, **2009**, 5, 3328-36	10.8	29
38	Surface potential change in bioactive polymer during the process of biomimetic apatite formation in a simulated body fluid. *Journal of Materials Chemistry*, **2007**, 17, 4057		28
37	Evaluation of a starch-based double layer scaffold for bone regeneration in a rat model. *Journal of Orthopaedic Research*, **2014**, 32, 904-9	3.8	26
36	AFM study of morphology and mechanical properties of a chimeric spider silk and bone sialoprotein protein for bone regeneration. *Biomacromolecules*, **2011**, 12, 1675-85	6.9	26
35	Design and characterization of a biodegradable double-layer scaffold aimed at periodontal tissue-engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 392-403	4.4	25
34	Platelet Lysate-Loaded Photocrosslinkable Hyaluronic Acid Hydrogels for Periodontal Endogenous Regenerative Technology. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1359-1369	5.5	24
33	Nanostructured interfacial self-assembled peptide-polymer membranes for enhanced mineralization and cell adhesion. *Nanoscale*, **2017**, 9, 13670-13682	7.7	23
32	Calcium-phosphate derived from mineralized algae for bone tissue engineering applications. *Materials Letters*, **2007**, 61, 3495-3499	3.3	23
31	In vivo biological responses to silk proteins functionalized with bone sialoprotein. *Macromolecular Bioscience*, **2013**, 13, 444-54	5.5	22
30	Silk-based biomaterials functionalized with fibronectin type II promotes cell adhesion. *Acta Biomaterialia*, **2017**, 47, 50-59	10.8	20
29	In situ study of partially crystallized Bioglass and hydroxylapatite in vitro bioactivity using atomic force microscopy. *Journal of Biomedical Materials Research Part B*, **2002**, 62, 82-8		20
28	The effects of platelet lysate patches on the activity of tendon-derived cells. *Acta Biomaterialia*, **2018**, 68, 29-40	10.8	17
27	Effects of protein incorporation on calcium phosphate coating. *Materials Science and Engineering C*, **2009**, 29, 913-918	8.3	16
26	Bone marrow stromal cells on a three-dimensional bioactive fiber mesh undergo osteogenic differentiation in the absence of osteogenic media supplements: the effect of silanol groups. *Acta Biomaterialia*, **2014**, 10, 4175-85	10.8	15
25	Biological responses to spider silk-antibiotic fusion protein. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 356-68	4.4	14
24	Biomimetic apatite deposition on polymeric microspheres treated with a calcium silicate solution. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 239-47	3.5	13
23	Silk-Based Antimicrobial Polymers as a New Platform to Design Drug-Free Materials to Impede Microbial Infections. *Macromolecular Bioscience*, **2018**, 18, e1800262	5.5	13

22	Redox activity of melanin from the ink sac of Sepia officinalis by means of colorimetric oxidative assay. *Natural Product Research*, **2016**, 30, 982-6	2.3	12
21	Alkaline treatments to render starch-based biodegradable polymers self-mineralizable. *Journal of Tissue Engineering and Regenerative Medicine*, **2007**, 1, 425-35	4.4	12
20	Combinatorial Effect of Silicon and Calcium Release from Starch-Based Scaffolds on Osteogenic Differentiation of Human Adipose Stem Cells. *ACS Biomaterials Science and Engineering*, **2015**, 1, 760-770	5.5	11
19	Surface Charge of Bioactive Polyethylene Modified with SO3H Groups and Its Apatite Inducing Capability in Simulated Body Fluid. *Key Engineering Materials*, **2005**, 284-286, 453-456	0.4	9
18	Elastic biodegradable starch/ethylene-co-vinyl alcohol fibre-mesh scaffolds for tissue engineering applications. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	8
17	Preparation of Bioactive Coatings on the Surface of Bioinert Polymers through an Innovative Auto-Catalytic Electroless Route. *Key Engineering Materials*, **2005**, 284-286, 203-206	0.4	8
16	Effect of Melanomal Proteins on Sepia Melanin Assembly. *Journal of Macromolecular Science - Physics*, **2015**, 54, 1532-1540	1.4	7
15	Mineralization of Chitosan Membrane Using a Double Diffusion System for Bone Related Applications. *Materials Science Forum*, **2008**, 587-588, 77-81	0.4	7
14	Effecs of the Incorporation of Proteins and Active Enzymes on Biomimetic Calcium-Phosphate Coatings. *Key Engineering Materials*, **2003**, 240-242, 97-100	0.4	7
13	A Graded, Porous Composite of Natural Biopolymers and Octacalcium Phosphate Guides Osteochondral Differentiation of Stem Cells. *Advanced Healthcare Materials*, **2021**, 10, e2001692	10.1	7
12	Calcium phosphates and silicon: exploring methods of incorporation. *Biomaterials Research*, **2017**, 21, 6	16.8	5
11	Unveiling the effect of three-dimensional bioactive fibre mesh scaffolds functionalized with silanol groups on bacteria growth. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 2189-99	5.4	5
10	Silk-Based Biomaterials **2012**, 75-92		5
9	Tailoring the Bioactivity of Natural Origin Inorganic Polymeric Based Systems. *Key Engineering Materials*, **2003**, 240-242, 111-142	0.4	4
8	Incorporation of Proteins with Different Isoelectric Points into Biomimetic Ca-P Coatings: A New Approach to Produce Hybrid Coatings with Tailored Properties. *Key Engineering Materials*, **2006**, 309-311, 755-758	0.4	3
7	Formation of Bone-Like Apatite on Polymeric Surfaces Modified with -SO3H Groups. *Materials Science Forum*, **2006**, 514-516, 966-969	0.4	3
6	Biomimetic Apatite Formation on Different Polymeric Microspheres Modified with Calcium Silicate Solutions. *Key Engineering Materials*, **2006**, 309-311, 279-282	0.4	3
5	A Novel Auto-Catalytic Deposition Methodology to Produce Calcium-Phosphate Coatings on Polymeric Biomaterials. *Key Engineering Materials*, **2000**, 192-195, 83-86	0.4	2

List of Publications

4	Carboxymethylchitosan/Calcium Phosphate Hybrid Materials Prepared by an Innovative Auto-Catalytic Co-Precipitation Method. *Key Engineering Materials*, **2005**, 284-286, 701-704	0.4	1
3	Research Highlights: Highlights from the latest articles in nanomedicine. *Nanomedicine*, **2014**, 9, 573-576	5.6	
2	Surfaces Inducing Biomineralization **2012**, 333-351		
1	Atomic Force Microscopy as a Tool to Study In-Situ the In-Vitro Bioactivity of Starch Thermoplastic/Hydroxylapatite Biomaterials. *Key Engineering Materials*, **2001**, 218-220, 55-60	0.4	