Isabel B. Leonor

List of Publications by Year in Descending Order

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	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
56	Antimicrobial coating of spider silk to prevent bacterial attachment on silk surgical sutures. *Acta Biomaterialia*, **2019**, 99, 236-246	10.8	34
55	The effects of platelet lysate patches on the activity of tendon-derived cells. *Acta Biomaterialia*, **2018**, 68, 29-40	10.8	17
54	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
53	Calcium phosphates and silicon: exploring methods of incorporation. *Biomaterials Research*, **2017**, 21, 6	16.8	5
52	Platelet Lysate-Loaded Photocrosslinkable Hyaluronic Acid Hydrogels for Periodontal Endogenous Regenerative Technology. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1359-1369	5.5	24
51	Nanostructured interfacial self-assembled peptide-polymer membranes for enhanced mineralization and cell adhesion. *Nanoscale*, **2017**, 9, 13670-13682	7.7	23
50	Silk-based biomaterials functionalized with fibronectin type II promotes cell adhesion. *Acta Biomaterialia*, **2017**, 47, 50-59	10.8	20
49	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
48	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
47	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
46	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
45	Effect of Melanomal Proteins on Sepia Melanin Assembly. *Journal of Macromolecular Science - Physics*, **2015**, 54, 1532-1540	1.4	7
44	Research Highlights: Highlights from the latest articles in nanomedicine. *Nanomedicine*, **2014**, 9, 573-576	5.6	
43	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
42	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
41	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

40	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
39	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
38	In vivo biological responses to silk proteins functionalized with bone sialoprotein. *Macromolecular Bioscience*, **2013**, 13, 444-54	5.5	22
37	Natural and Genetically Engineered Proteins for Tissue Engineering. *Progress in Polymer Science*, **2012**, 37, 1-17	29.6	199
36	Surfaces Inducing Biomineralization **2012**, 333-351		
35	Silk-Based Biomaterials **2012**, 75-92		5
34	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
33	Biological responses to spider silk-antibiotic fusion protein. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 356-68	4.4	14
32	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
31	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
30	Spider silk-bone sialoprotein fusion proteins for bone tissue engineering. *Soft Matter*, **2011**, 7, 4964	3.6	36
29	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
28	Antimicrobial functionalized genetically engineered spider silk. *Biomaterials*, **2011**, 32, 4255-66	15.6	76
27	Designing biomaterials based on biomineralization of bone. *Journal of Materials Chemistry*, **2010**, 20, 2911		134
26	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
25	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
24	Effects of protein incorporation on calcium phosphate coating. *Materials Science and Engineering C*, **2009**, 29, 913-918	8.3	16
23	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

22	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
21	Mineralization of Chitosan Membrane Using a Double Diffusion System for Bone Related Applications. *Materials Science Forum*, **2008**, 587-588, 77-81	0.4	7
20	Growth of a bonelike apatite on chitosan microparticles after a calcium silicate treatment. *Acta Biomaterialia*, **2008**, 4, 1349-59	10.8	61
19	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
18	Alkaline treatments to render starch-based biodegradable polymers self-mineralizable. *Journal of Tissue Engineering and Regenerative Medicine*, **2007**, 1, 425-35	4.4	12
17	Calcium-phosphate derived from mineralized algae for bone tissue engineering applications. *Materials Letters*, **2007**, 61, 3495-3499	3.3	23
16	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
15	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
14	Formation of Bone-Like Apatite on Polymeric Surfaces Modified with -SO3H Groups. *Materials Science Forum*, **2006**, 514-516, 966-969	0.4	3
13	Biomimetic Apatite Formation on Different Polymeric Microspheres Modified with Calcium Silicate Solutions. *Key Engineering Materials*, **2006**, 309-311, 279-282	0.4	3
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	Tailoring the Bioactivity of Natural Origin Inorganic-Polymeric Based Systems. *Key Engineering Materials*, **2003**, 240-242, 111-142	0.4	4

4	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
3	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
2	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	
1	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