

Elisabet Engel Lopez

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

3,100
citations

31
h-index

53
g-index

100
ext. papers

3,562
ext. citations

6.8
avg, IF

5.28
L-index

#	Paper	IF	Citations
97	Biofabrication of tissue constructs by 3D bioprinting of cell-laden microcarriers. <i>Biofabrication</i> , 2014 , 6, 035020	10.5	256
96	Nanotechnology in regenerative medicine: the materials side. <i>Trends in Biotechnology</i> , 2008 , 26, 39-47	15.1	244
95	Dynamics of bone marrow-derived endothelial progenitor cell/mesenchymal stem cell interaction in co-culture and its implications in angiogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 400, 284-91	3.4	145
94	Disassembling bacterial extracellular matrix with DNase-coated nanoparticles to enhance antibiotic delivery in biofilm infections. <i>Journal of Controlled Release</i> , 2015 , 209, 150-8	11.7	140
93	Relevance of PEG in PLA-based blends for tissue engineering 3D-printed scaffolds. <i>Materials Science and Engineering C</i> , 2014 , 38, 55-62	8.3	137
92	Spatial organization of osteoblast fibronectin matrix on titanium surfaces: effects of roughness, chemical heterogeneity and surface energy. <i>Acta Biomaterialia</i> , 2010 , 6, 291-301	10.8	89
91	Extracellular calcium and CaSR drive osteoinduction in mesenchymal stromal cells. <i>Acta Biomaterialia</i> , 2014 , 10, 2824-33	10.8	81
90	Extracellular calcium modulates in vitro bone marrow-derived Flk-1+ CD34+ progenitor cell chemotaxis and differentiation through a calcium-sensing receptor. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 156-61	3.4	78
89	Foamed surfactant solution as a template for self-setting injectable hydroxyapatite scaffolds for bone regeneration. <i>Acta Biomaterialia</i> , 2010 , 6, 876-85	10.8	72
88	Ion reactivity of calcium-deficient hydroxyapatite in standard cell culture media. <i>Acta Biomaterialia</i> , 2011 , 7, 4242-52	10.8	70
87	Instructive microenvironments in skin wound healing: Biomaterials as signal releasing platforms. <i>Advanced Drug Delivery Reviews</i> , 2018 , 129, 95-117	18.5	68
86	Neurogenesis and vascularization of the damaged brain using a lactate-releasing biomimetic scaffold. <i>Biomaterials</i> , 2014 , 35, 4769-81	15.6	68
85	Angiogenesis in bone regeneration: tailored calcium release in hybrid fibrous scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7512-22	9.5	64
84	Analysis of the degradation and the tissue response to bi-layered 3D-printed scaffolds combining PLA and biphasic PLA/bioglass components - Guidance of the inflammatory response as basis for osteochondral regeneration. <i>Bioactive Materials</i> , 2017 , 2, 208-223	16.7	63
83	Human-osteoblast proliferation and differentiation on grit-blasted and bioactive titanium for dental applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 1105-11	4.5	60
82	Control of microenvironmental cues with a smart biomaterial composite promotes endothelial progenitor cell angiogenesis. <i>European Cells and Materials</i> , 2012 , 24, 90-106; discussion 106	4.3	58
81	A PLA/calcium phosphate degradable composite material for bone tissue engineering: an in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1503-13	4.5	56

80	Discerning the role of topography and ion exchange in cell response of bioactive tissue engineering scaffolds. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1341-51	3.9	54
79	Chondroinductive Alginate-Based Hydrogels Having Graphene Oxide for 3D Printed Scaffold Fabrication. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4343-4357	9.5	52
78	Inducing functional radial glia-like progenitors from cortical astrocyte cultures using micropatterned PMMA. <i>Biomaterials</i> , 2012 , 33, 1759-70	15.6	50
77	Electrospun Conducting and Biocompatible Uniaxial and Core-Shell Fibers Having Poly(lactic acid), Poly(ethylene glycol), and Polyaniline for Cardiac Tissue Engineering. <i>ACS Omega</i> , 2019 , 4, 3660-3672	3.9	43
76	Co-Assembled and Microfabricated Bioactive Membranes. <i>Advanced Functional Materials</i> , 2013 , 23, 430-438	13.6	42
75	Osteoblast-like cellular response to dynamic changes in the ionic extracellular environment produced by calcium-deficient hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2509-20	4.5	40
74	Bioactive membranes for bone regeneration applications: effect of physical and biomolecular signals on mesenchymal stem cell behavior. <i>Acta Biomaterialia</i> , 2014 , 10, 134-41	10.8	39
73	Role of ECM/peptide coatings on SDF-1 α -triggered mesenchymal stromal cell migration from microcarriers for cell therapy. <i>Acta Biomaterialia</i> , 2015 , 18, 59-67	10.8	35
72	Development of tailored and self-mineralizing citric acid-crosslinked hydrogels for in situ bone regeneration. <i>Biomaterials</i> , 2015 , 68, 42-53	15.6	35
71	Mesenchymal stem cell differentiation on microstructured poly (methyl methacrylate) substrates. <i>Annals of Anatomy</i> , 2009 , 191, 136-44	2.9	35
70	Engineering membrane scaffolds with both physical and biomolecular signaling. <i>Acta Biomaterialia</i> , 2012 , 8, 998-1009	10.8	33
69	Enhanced cell-material interactions through the biofunctionalization of polymeric surfaces with engineered peptides. <i>Biomacromolecules</i> , 2013 , 14, 2690-702	6.9	33
68	Transparent micro- and nanopatterned poly(lactic acid) for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 76, 781-7	5.4	32
67	The proangiogenic potential of a novel calcium releasing biomaterial: Impact on cell recruitment. <i>Acta Biomaterialia</i> , 2016 , 29, 435-445	10.8	31
66	A bioactive elastin-like recombinamer reduces unspecific protein adsorption and enhances cell response on titanium surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 225-33	6	31
65	Fabrication of hierarchical micro-nanotopographies for cell attachment studies. <i>Nanotechnology</i> , 2013 , 24, 255305	3.4	31
64	Hybrid Organic-Inorganic Scaffolding Biomaterials for Regenerative Therapies. <i>Current Organic Chemistry</i> , 2014 , 18, 2299-2314	1.7	30
63	Layer-by-layer bioassembly of cellularized polylactic acid porous membranes for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 78	4.5	29

62	Hierarchically engineered fibrous scaffolds for bone regeneration. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130684	4.1	29
61	The effect of the composition of PLA films and lactate release on glial and neuronal maturation and the maintenance of the neuronal progenitor niche. <i>Biomaterials</i> , 2013 , 34, 2221-33	15.6	28
60	Perfusion cell seeding on large porous PLA/calcium phosphate composite scaffolds in a perfusion bioreactor system under varying perfusion parameters. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 1011-8	5.4	28
59	Biomolecular functionalization for enhanced cell-material interactions of poly(methyl methacrylate) surfaces. <i>International Journal of Energy Production and Management</i> , 2015 , 2, 167-75	5.3	26
58	Injectable and fast resorbable calcium phosphate cement for body-setting bone grafts. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 2049-56	4.5	26
57	Micro- and nanostructuring of poly(ethylene-2,6-naphthalate) surfaces, for biomedical applications, using polymer replication techniques. <i>Nanotechnology</i> , 2005 , 16, 369-375	3.4	26
56	Modular bioink for 3D printing of biocompatible hydrogels: sol-gel polymerization of hybrid peptides and polymers. <i>RSC Advances</i> , 2017 , 7, 12231-12235	3.7	24
55	Wound healing-promoting effects stimulated by extracellular calcium and calcium-releasing nanoparticles on dermal fibroblasts. <i>Nanotechnology</i> , 2018 , 29, 395102	3.4	24
54	Surface modifications of silicon nitride for cellular biosensor applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1839-50	4.5	24
53	Towards 4th generation biomaterials: a covalent hybrid polymer-ormoglass architecture. <i>Nanoscale</i> , 2015 , 7, 15349-61	7.7	23
52	Effect of blasting treatment and Fn coating on MG63 adhesion and differentiation on titanium: a gene expression study using real-time RT-PCR. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 617-27	4.5	22
51	Streptococcus sanguinis adhesion on titanium rough surfaces: effect of shot-blasting particles. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 1913-22	4.5	22
50	3D silicon doped hydroxyapatite scaffolds decorated with Elastin-like Recombinamers for bone regenerative medicine. <i>Acta Biomaterialia</i> , 2016 , 45, 349-356	10.8	21
49	Development of a Self-Assembled Peptide/Methylcellulose-Based Bioink for 3D Bioprinting. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900353	3.9	21
48	Modular polylactic acid microparticle-based scaffolds prepared via microfluidic emulsion/solvent displacement process: fabrication, characterization, and in vitro mesenchymal stem cells interaction study. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 720-32	5.4	20
47	Directional alignment of MG63 cells on polymer surfaces containing point microstructures. <i>Small</i> , 2007 , 3, 871-9	11	20
46	Surface characterization of completely degradable composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 1125-30	4.5	19
45	Proteinaceous Hydrogels for Bioengineering Advanced 3D Tumor Models. <i>Advanced Science</i> , 2021 , 8, 2003129	13.6	19

44	Nanotechnology Approaches in Chronic Wound Healing. <i>Advances in Wound Care</i> , 2021 , 10, 234-256	4.8	18
43	Calcium phosphate glass improves angiogenesis capacity of poly(lactic acid) scaffolds and stimulates differentiation of adipose tissue-derived mesenchymal stromal cells to the endothelial lineage. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 932-41	5.4	17
42	Effect of structure, topography and chemistry on fibroblast adhesion and morphology. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1781-7	4.5	16
41	The proangiogenic potential of a novel calcium releasing composite biomaterial: Orthotopic in vivo evaluation. <i>Acta Biomaterialia</i> , 2017 , 54, 377-385	10.8	15
40	A novel hybrid nanofibrous strategy to target progenitor cells for cost-effective in situ angiogenesis. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6967-6978	7.3	14
39	PEG hydrogel containing calcium-releasing particles and mesenchymal stromal cells promote vessel maturation. <i>Acta Biomaterialia</i> , 2018 , 67, 53-65	10.8	13
38	Materials Surface Effects on Biological Interactions. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 233-252	0.1	11
37	Optimization of blend parameters for the fabrication of polycaprolactone-silicon based ormoglass nanofibers by electrospinning. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1287-93	3.5	10
36	Hydrogel co-networks of gelatine methacrylate and poly(ethylene glycol) diacrylate sustain 3D functional in vitro models of intestinal mucosa. <i>Biofabrication</i> , 2020 , 12, 025008	10.5	10
35	Poly(lactic acid) organogel as versatile scaffolding technique. <i>Polymer</i> , 2017 , 113, 81-91	3.9	9
34	Fast-degrading PLA/ORMOGLASS fibrous composite scaffold leads to a calcium-rich angiogenic environment. <i>International Journal of Nanomedicine</i> , 2017 , 12, 4901-4919	7.3	8
33	Differential neuronal and glial behavior on flat and micro patterned chitosan films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 158, 569-577	6	8
32	Nanoembossed Polymer Substrates for Biomedical Surface Interaction Studies. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 4588-4594	1.3	8
31	Engineering Cell-Derived Matrices: From 3D Models to Advanced Personalized Therapies. <i>Advanced Functional Materials</i> , 2020 , 30, 2000496	15.6	7
30	Development of a Three-Dimensional Bioengineered Platform for Articular Cartilage Regeneration. <i>Biomolecules</i> , 2019 , 10,	5.9	7
29	Chitosan/PEGDA based scaffolds as bioinspired materials to control in vitro angiogenesis. <i>Materials Science and Engineering C</i> , 2021 , 118, 111420	8.3	7
28	Influence of fabrication parameters in cellular microarrays for stem cell studies. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1525-33	4.5	6
27	Alendronate and etidronate do not regulate interleukin 6 and 11 synthesis in normal human osteoblasts in culture. <i>Calcified Tissue International</i> , 2003 , 72, 228-35	3.9	6

26	Poly-l/dl-lactic acid films functionalized with collagen IV as carrier substrata for corneal epithelial stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 177, 121-129	6	6
25	Feasible and pure PO-CaO nanoglasses: An in-depth NMR study of synthesis for the modulation of the bioactive ion release. <i>Acta Biomaterialia</i> , 2019 , 94, 574-584	10.8	4
24	Electrochemical microelectrodes for improved spatial and temporal characterization of aqueous environments around calcium phosphate cements. <i>Acta Biomaterialia</i> , 2012 , 8, 386-93	10.8	4
23	Soft-Tissue-Mimicking Using Hydrogels for the Development of Phantoms.. <i>Gels</i> , 2022 , 8,	4.2	4
22	Real-Time Bioluminescence Imaging of Cell Distribution, Growth, and Differentiation in a Three-Dimensional Scaffold Under Interstitial Perfusion for Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 864-72	2.9	4
21	Bone Biology and Regeneration 2014 , 315-342		3
20	Development of Provisional Extracellular Matrix on Biomaterials Interface: Lessons from In Vitro Cell Culture. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 19-43	0.1	3
19	Lactate promotes cardiomyocyte dedifferentiation through metabolic reprogramming		3
18	Polymers for bone repair 2019 , 179-197		3
17	Polymeric Composite Dressings Containing Calcium-Releasing Nanoparticles Accelerate Wound Healing in Diabetic Mice. <i>Advances in Wound Care</i> , 2021 , 10, 301-316	4.8	3
16	Development and Angiogenic Potential of Cell-Derived Microtissues Using Microcarrier-Template. <i>Biomedicines</i> , 2021 , 9,	4.8	3
15	Therapeutic Potential of Articular Cartilage Regeneration using Tissue Engineering Based on Multiphase Designs 2019 ,		2
14	An efficient and reproducible method to culture Bergmann and cortical radial glia using textured PMMA. <i>Journal of Neuroscience Methods</i> , 2014 , 232, 93-101	3	2
13	Cell Behaviour of Calcium Phosphate Bone Cement Modified with a Protein-Based Foaming Agent. <i>Key Engineering Materials</i> , 2005 , 284-286, 117-120	0.4	2
12	Layer-by-layer modification effects on a nanopore μ inner surface of polycarbonate track-etched membranes.. <i>RSC Advances</i> , 2020 , 10, 35930-35940	3.7	2
11	Chemotactic TEG3 CellsUGuiding Platforms Based on PLA Fibers Functionalized With the SDF-1 β /CXCL12 Chemokine for Neural Regeneration Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 627805	5.8	2
10	A microphysiological system combining electrospun fibers and electrical stimulation for the maturation of highly anisotropic cardiac tissue. <i>Biofabrication</i> , 2021 , 13,	10.5	2
9	Development of a novel automatable fabrication method based on electrospinning co electrospaying for rotator cuff augmentation patches. <i>PLoS ONE</i> , 2019 , 14, e0224661	3.7	2

8	Tuning multilayered polymeric self-standing films for controlled release of L-lactate by electrical stimulation. <i>Journal of Controlled Release</i> , 2021 , 330, 669-683	11.7	2
7	Development of Cell-Derived Matrices for Three-Dimensional Cancer Cell Models. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44108-44123	9.5	2
6	Bioprinting Decellularized Breast Tissue for the Development of Three-Dimensional Breast Cancer Models. <i>ACS Applied Materials & Interfaces</i> ,	9.5	2
5	Modulation of Biological Properties of Silicon Nitride for Biosensor Applications by Self-Assembled Monolayers. <i>Advances in Science and Technology</i> , 2006 , 53, 122-127	0.1	1
4	Engineered microtissues for the bystander therapy against cancer. <i>Materials Science and Engineering C</i> , 2021 , 121, 111854	8.3	1
3	Nanoembossed polymer substrates for biomedical surface interaction studies. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 4588-94	1.3	1
2	Biofunctionalization of polymeric surfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1745-8	0.9	
1	Effect of Ionic Exchange on Osteoblast Behaviour on Bioactive Tissue Engineering Substrates. <i>Key Engineering Materials</i> , 2007 , 361-363, 1051-1054	0.4	