Joana Silva-Correia

List of Publications by Citations

84 papers	2,464 citations	33 h-index	47 g-index
88 ext. papers	2,950 ext. citations	6.5 avg, IF	5.26 L-index

#	Paper	IF	Citations
84	Gellan gum-based hydrogels for intervertebral disc tissue-engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, e97-107	4.4	170
83	Bilayered silk/silk-nanoCaP scaffolds for osteochondral tissue engineering: In vitro and in vivo assessment of biological performance. *Acta Biomaterialia*, **2015**, 12, 227-241	10.8	115
82	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. *Pharmacology & Therapeutics*, **2018**, 184, 201-211	13.9	90
81	Angiogenic potential of gellan-gum-based hydrogels for application in nucleus pulposus regeneration: in vivo study. *Tissue Engineering - Part A*, **2012**, 18, 1203-12	3.9	85
80	Recent progress in gellan gum hydrogels provided by functionalization strategies. *Journal of Materials Chemistry B*, **2016**, 4, 6164-6174	7.3	84
79	Biocompatibility evaluation of ionic- and photo-crosslinked methacrylated gellan gum hydrogels: in vitro and in vivo study. *Advanced Healthcare Materials*, **2013**, 2, 568-75	10.1	77
78	Rheological and mechanical properties of acellular and cell-laden methacrylated gellan gum hydrogels. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 3438-46	5.4	74
77	Development of gellan gum-based microparticles/hydrogel matrices for application in the intervertebral disc regeneration. *Tissue Engineering - Part C: Methods*, **2011**, 17, 961-72	2.9	74
76	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. *Acta Biomaterialia*, **2018**, 77, 155-171	10.8	66
75	Biopolymers and polymers in the search of alternative treatments for meniscal regeneration: State of the art and future trends. *Applied Materials Today*, **2018**, 12, 51-71	6.6	65
74	Current strategies for treatment of intervertebral disc degeneration: substitution and regeneration possibilities. *Biomaterials Research*, **2017**, 21, 22	16.8	61
73	Biomechanical and cellular segmental characterization of human meniscus: building the basis for Tissue Engineering therapies. *Osteoarthritis and Cartilage*, **2014**, 22, 1271-81	6.2	54
72	Bioactive macro/micro porous silk fibroin/nano-sized calcium phosphate scaffolds with potential for bone-tissue-engineering applications. *Nanomedicine*, **2013**, 8, 359-78	5.6	53
71	Phenotypic analysis of the Arabidopsis heat stress response during germination and early seedling development. *Plant Methods*, **2014**, 10, 7	5.8	52
70	Hydrogels in acellular and cellular strategies for intervertebral disc regeneration. *Journal of Tissue Engineering and Regenerative Medicine*, **2013**, 7, 85-98	4.4	52
69	Tissue engineering strategies applied in the regeneration of the human intervertebral disk. *Biotechnology Advances*, **2013**, 31, 1514-31	17.8	52
68	Migration of "bioabsorbable" screws in ACL repair. How much do we know? A systematic review. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2013**, 21, 986-94	5.5	51

67	Tumor Growth Suppression Induced by Biomimetic Silk Fibroin Hydrogels. *Scientific Reports*, **2016**, 6, 31037	4.9	48
66	Engineering bioinks for 3D bioprinting. *Biofabrication*, **2021**, 13,	10.5	48
65	Hydrogels for nucleus replacement--facing the biomechanical challenge. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 14, 67-77	4.1	47
64	Current concepts: tissue engineering and regenerative medicine applications in the ankle joint. *Journal of the Royal Society Interface*, **2014**, 11, 20130784	4.1	46
63	Gellan Gum-Based Hydrogel Bilayered Scaffolds for Osteochondral Tissue Engineering. *Key Engineering Materials*, **2013**, 587, 255-260	0.4	43
62	Fast Setting Silk Fibroin Bioink for Bioprinting of Patient-Specific Memory-Shape Implants. *Advanced Healthcare Materials*, **2017**, 6, 1701021	10.1	41
61	Nanotechnology in peripheral nerve repair and reconstruction. *Advanced Drug Delivery Reviews*, **2019**, 148, 308-343	18.5	40
60	Nanocellulose reinforced gellan-gum hydrogels as potential biological substitutes for annulus fibrosus tissue regeneration. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 897-908	6	40
59	Self-mineralizing Ca-enriched methacrylated gellan gum beads for bone tissue engineering. *Acta Biomaterialia*, **2019**, 93, 74-85	10.8	39
58	Hydrogel-based scaffolds to support intrathecal stem cell transplantation as a gateway to the spinal cord: clinical needs, biomaterials, and imaging technologies. *Npj Regenerative Medicine*, **2018**, 3, 8	15.8	39
57	Custom-tailored tissue engineered polycaprolactone scaffolds for total disc replacement. *Biofabrication*, **2015**, 7, 015008	10.5	39
56	Silk-based anisotropical 3D biotextiles for bone regeneration. *Biomaterials*, **2017**, 123, 92-106	15.6	37
55	Peripheral Nerve Injury: Current Challenges, Conventional Treatment Approaches, and New Trends in Biomaterials-Based Regenerative Strategies. *ACS Biomaterials Science and Engineering*, **2017**, 3, 3098-3122	5.5	37
54	Rapidly responsive silk fibroin hydrogels as an artificial matrix for the programmed tumor cells death. *PLoS ONE*, **2018**, 13, e0194441	3.7	37
53	Biological performance of cell-encapsulated methacrylated gellan gum-based hydrogels for nucleus pulposus regeneration. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 637-648	4.4	36
52	The Meniscus in Normal and Osteoarthritic Tissues: Facing the Structure Property Challenges and Current Treatment Trends. *Annual Review of Biomedical Engineering*, **2019**, 21, 495-521	12	35
51	Development of nanofiber-reinforced hydrogel scaffolds for nucleus pulposus regeneration by a combination of electrospinning and spraying technique. *Journal of Applied Polymer Science*, **2013**, 128, 1158-1163	2.9	32
50	Biological evaluation of intervertebral disc cells in different formulations of gellan gum-based hydrogels. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 265-75	4.4	31

49	Investigation of cell adhesion in chitosan membranes for peripheral nerve regeneration. *Materials Science and Engineering C*, **2017**, 71, 1122-1134	8.3	30
48	Injectable gellan-gum/hydroxyapatite-based bilayered hydrogel composites for osteochondral tissue regeneration. *Applied Materials Today*, **2018**, 12, 309-321	6.6	29
47	In vivo biofunctional evaluation of hydrogels for disc regeneration. *European Spine Journal*, **2014**, 23, 19-26	2.7	29
46	Tunable Enzymatically Cross-Linked Silk Fibroin Tubular Conduits for Guided Tissue Regeneration. *Advanced Healthcare Materials*, **2018**, 7, e1800186	10.1	25
45	Engineering patient-specific bioprinted constructs for treatment of degenerated intervertebral disc. *Materials Today Communications*, **2019**, 19, 506-512	2.5	22
44	Gellan Gum-based luminal fillers for peripheral nerve regeneration: an in vivo study in the rat sciatic nerve repair model. *Biomaterials Science*, **2018**, 6, 1059-1075	7.4	21
43	Optical projection tomography as a tool for 3D imaging of hydrogels. *Biomedical Optics Express*, **2014**, 5, 3443-9	3.5	21
42	Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. *Langmuir*, **2016**, 32, 5173-82	4	20
41	Enhanced performance of chitosan/keratin membranes with potential application in peripheral nerve repair. *Biomaterials Science*, **2019**, 7, 5451-5466	7.4	18
40	Incorporation of resident macrophages in engineered tissues: Multiple cell type response to microenvironment controlled macrophage-laden gelatine hydrogels. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 330-340	4.4	17
39	Gellan Gum-Based Hydrogels for Osteochondral Repair. *Advances in Experimental Medicine and Biology*, **2018**, 1058, 281-304	3.6	15
38	Anti-angiogenic potential of VEGF blocker dendron loaded on to gellan gum hydrogels for tissue engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e669-e678	4.4	15
37	2.11 Polymers of Biological Origin ? **2017**, 228-252		14
36	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. *Chemistry of Materials*, **2020**, 32, 8733-8746	9.6	14
35	The Meniscus: Basic Science **2013**, 7-14		13
34	A semiautomated microfluidic platform for real-time investigation of nanoparticlesTcellular uptake and cancer cellsTtracking. *Nanomedicine*, **2017**, 12, 581-596	5.6	12
33	Methacrylated gellan gum and hyaluronic acid hydrogel blends for image-guided neurointerventions. *Journal of Materials Chemistry B*, **2020**, 8, 5928-5937	7.3	12
32	Engineering Silk Fibroin-Based Nerve Conduit with Neurotrophic Factors for Proximal Protection after Peripheral Nerve Injury. *Advanced Healthcare Materials*, **2021**, 10, e2000753	10.1	12

31	Vascularization Approaches in Tissue Engineering: Recent Developments on Evaluation Tests and Modulation.. *ACS Applied Bio Materials*, **2021**, 4, 2941-2956	4.1	11
30	Future Trends in the Treatment of Meniscus Lesions: From Repair to Regeneration **2013**, 103-112		10
29	Advanced Regenerative Strategies for Human Knee Meniscus. *Studies in Mechanobiology, Tissue Engineering and Biomaterials*, **2017**, 271-285	0.5	9
28	Silk-Fibroin/Methacrylated Gellan Gum Hydrogel As An Novel Scaffold For Application In Meniscus Cell-Based Tissue Engineering. *Arthroscopy - Journal of Arthroscopic and Related Surgery*, **2013**, 29, e53-e55	5.4	8
27	Entrapped in cage (EiC) scaffolds of 3D-printed polycaprolactone and porous silk fibroin for meniscus tissue engineering. *Biofabrication*, **2020**, 12, 025028	10.5	7
26	Meniscal Repair: Indications, Techniques, and Outcome **2016**, 125-142		7
25	Meniscal Lesions: From Basic Science to Clinical Management in Footballers **2017**, 145-163		6
24	Histology-Ultrastructure-Biology **2016**, 23-33		6
23	Biomaterials Developments for Brain Tissue Engineering. *Advances in Experimental Medicine and Biology*, **2018**, 1078, 323-346	3.6	6
22	Posterior talar process as a suitable cell source for treatment of cartilage and osteochondral defects of the talus. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1949-1962	4.4	5
21	Natural-Based Hydrogels: From Processing to Applications **2017**, 1-27		5
20	The Role of Arthroscopy in the Treatment of Degenerative Meniscus Tear **2016**, 107-117		5
19	Current advances in solid free-form techniques for osteochondral tissue engineering. *Bio-Design and Manufacturing*, **2018**, 1, 171-181	4.7	5
18	Recent advances on 3D printing of patient-specific implants for fibrocartilage tissue regeneration. *Journal of 3D Printing in Medicine*, **2018**, 2, 129-140	1.5	5
17	Indirect printing of hierarchical patient-specific scaffolds for meniscus tissue engineering. *Bio-Design and Manufacturing*, **2019**, 2, 225-241	4.7	5
16	Basics of the Meniscus. *Studies in Mechanobiology, Tissue Engineering and Biomaterials*, **2017**, 237-247	0.5	5
15	A strategy for the identification of new abiotic stress determinants in Arabidopsis using web-based data mining and reverse genetics. *OMICS A Journal of Integrative Biology*, **2011**, 15, 935-47	3.8	5
14	Microfluidics for Angiogenesis Research. *Advances in Experimental Medicine and Biology*, **2020**, 1230, 97-119	3.6	5

13	Human Meniscus: From Biology to Tissue Engineering Strategies **2013**, 1-16		4
12	Gellan Gum-based Hydrogels for Tissue Engineering Applications **2016**, 320-336		4
11	Hippocampal cytogenesis abrogation impairs inter-regional communication between the hippocampus and prefrontal cortex and promotes the time-dependent manifestation of emotional and cognitive deficits. *Molecular Psychiatry*, **2021**,	15.1	3
10	Understanding Heat Stress Tolerance of Suspended Cells in the Model Plant Populus euphratica. *ISRN Forestry*, **2012**, 2012, 1-5		2
9	Human Meniscus: From Biology to Tissue Engineering Strategies **2015**, 1089-1102		2
8	Horseradish Peroxidase-Crosslinked Calcium-Containing Silk Fibroin Hydrogels as Artificial Matrices for Bone Cancer Research. *Macromolecular Bioscience*, **2021**, 21, e2000425	5.5	2
7	Deep learning in bioengineering and biofabrication: a powerful technology boosting translation from research to clinics. *Journal of 3D Printing in Medicine*,	1.5	1
6	Cytocompatible manganese dioxide-based hydrogel nanoreactors for MRI imaging.. *Materials Science and Engineering C*, **2021**, 112575	8.3	1
5	Methacrylated Gellan Gum/Poly-l-lysine Polyelectrolyte Complex Beads for Cell-Based Therapies. *ACS Biomaterials Science and Engineering*, **2021**, 7, 4898-4913	5.5	1
4	Macromolecular modulation of a 3D hydrogel construct differentially regulates human stem cell tissue-to-tissue interface.. *Materials Science and Engineering C*, **2021**, 112611	8.3	0
3	Head, Low-Back and Muscle Injuries in Athletes: PRP and Stem Cells in Sports-Related Diseases **2014**, 273-311		
2	Injectable Polymeric System Based on Polysaccharides for Therapy **2021**, 1-18		
1	Injectable Polymeric System Based on Polysaccharides for Therapy **2022**, 1045-1062		