Sofia G Caridade

List of Publications by Citations

55 papers	3,405 citations	29 h-index	57 g-index
57 ext. papers	3,763 ext. citations	6.6 avg, IF	5.14 L-index

#	Paper	IF	Citations
55	Three-dimensional plotted scaffolds with controlled pore size gradients: Effect of scaffold geometry on mechanical performance and cell seeding efficiency. *Acta Biomaterialia*, **2011**, 7, 1009-18	10.8	402
54	Electrically conductive chitosan/carbon scaffolds for cardiac tissue engineering. *Biomacromolecules*, **2014**, 15, 635-43	6.9	248
53	Genipin-cross-linked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 465-75	5.4	247
52	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. *Acta Biomaterialia*, **2012**, 8, 289-301	10.8	237
51	Chitosan/bioactive glass nanoparticle composite membranes for periodontal regeneration. *Acta Biomaterialia*, **2012**, 8, 4173-80	10.8	170
50	Gellan gum-based hydrogels for intervertebral disc tissue-engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, e97-107	4.4	170
49	Development of Injectable Hyaluronic Acid/Cellulose Nanocrystals Bionanocomposite Hydrogels for Tissue Engineering Applications. *Bioconjugate Chemistry*, **2015**, 26, 1571-81	6.3	138
48	Free-standing polyelectrolyte membranes made of chitosan and alginate. *Biomacromolecules*, **2013**, 14, 1653-60	6.9	117
47	An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. *Acta Biomaterialia*, **2013**, 9, 6790-7	10.8	98
46	New poly(epsilon-caprolactone)/chitosan blend fibers for tissue engineering applications. *Acta Biomaterialia*, **2010**, 6, 418-28	10.8	93
45	Stimuli-responsive chitosan-starch injectable hydrogels combined with encapsulated adipose-derived stromal cells for articular cartilage regeneration. *Soft Matter*, **2010**, 6, 5184	3.6	87
44	Extraction and physico-chemical characterization of a versatile biodegradable polysaccharide obtained from green algae. *Carbohydrate Research*, **2010**, 345, 2194-200	2.9	86
43	Chitosan membranes containing micro or nano-size bioactive glass particles: evolution of biomineralization followed by in situ dynamic mechanical analysis. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 20, 173-83	4.1	85
42	Effect of crosslinking in chitosan/aloe vera-based membranes for biomedical applications. *Carbohydrate Polymers*, **2013**, 98, 581-8	10.3	83
41	Chondrogenic potential of injectable κ-carrageenan hydrogel with encapsulated adipose stem cells for cartilage tissue-engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 550-63	4.4	79
40	The use of ionic liquids in the processing of chitosan/silk hydrogels for biomedical applications. *Green Chemistry*, **2012**, 14, 1463	10	74
39	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

38	Tailored freestanding multilayered membranes based on chitosan and alginate. *Biomacromolecules*, **2014**, 15, 3817-26	6.9	70
37	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
36	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
35	Myoconductive and osteoinductive free-standing polysaccharide membranes. *Acta Biomaterialia*, **2015**, 15, 139-49	10.8	51
34	Enzymatic Degradation of Polysaccharide-Based Layer-by-Layer Structures. *Biomacromolecules*, **2016**, 17, 1347-57	6.9	50
33	Compact Saloplastic Membranes of Natural Polysaccharides for Soft Tissue Engineering. *Chemistry of Materials*, **2015**, 27, 7490-7502	9.6	47
32	pH Responsiveness of Multilayered Films and Membranes Made of Polysaccharides. *Langmuir*, **2015** , 31, 11318-28	4	46
31	Asymmetric PDLLA membranes containing Bioglass for guided tissue regeneration: characterization and in vitro biological behavior. *Dental Materials*, **2013**, 29, 427-36	5.7	46
30	Nanoengineering Hybrid Supramolecular Multilayered Biomaterials Using Polysaccharides and Self-Assembling Peptide Amphiphiles. *Advanced Functional Materials*, **2017**, 27, 1605122	15.6	42
29	Adhesive free-standing multilayer films containing sulfated levan for biomedical applications. *Acta Biomaterialia*, **2018**, 69, 183-195	10.8	42
28	Chitosan-alginate multilayered films with gradients of physicochemical cues. *Journal of Materials Chemistry B*, **2015**, 3, 4555-4568	7.3	35
27	Processing of novel bioactive polymeric matrixes for tissue engineering using supercritical fluid technology. *Materials Science and Engineering C*, **2009**, 29, 2110-2115	8.3	35
26	Revealing the potential of squid chitosan-based structures for biomedical applications. *Biomedical Materials (Bristol)*, **2013**, 8, 045002	3.5	29
25	Synthesis and characterization of bioactive biodegradable chitosan composite spheres with shape memory capability. *Journal of Non-Crystalline Solids*, **2016**, 432, 158-166	3.9	26
24	Bioactivity and viscoelastic characterization of chitosan/bioglass composite membranes. *Macromolecular Bioscience*, **2012**, 12, 1106-13	5.5	26
23	Development of an injectable system based on elastin-like recombinamer particles for tissue engineering applications. *Soft Matter*, **2011**, 7, 6426	3.6	26
22	Effect of solvent-dependent viscoelastic properties of chitosan membranes on the permeation of 2-phenylethanol. *Carbohydrate Polymers*, **2009**, 75, 651-659	10.3	25
21	Control of Cell Alignment and Morphology by Redesigning ECM-Mimetic Nanotopography on Multilayer Membranes. *Advanced Healthcare Materials*, **2017**, 6, 1601462	10.1	18

20	Unraveling the effect of the hydration level on the molecular mobility of nanolayered polymeric systems. *Macromolecular Rapid Communications*, **2015**, 36, 405-12	4.8	16
19	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
18	Chitosan Membranes Exhibiting Shape Memory Capability by the Action of Controlled Hydration. *Polymers*, **2014**, 6, 1178-1186	4.5	15
17	Screening of Nanocomposite Scaffolds Arrays Using Superhydrophobic-Wettable Micropatterns. *Advanced Functional Materials*, **2017**, 27, 1701219	15.6	14
16	Polysaccharide-based freestanding multilayered membranes exhibiting reversible switchable properties. *Soft Matter*, **2016**, 12, 1200-9	3.6	14
15	Transport of small anionic and neutral solutes through chitosan membranes: dependence on cross-linking and chelation of divalent cations. *Biomacromolecules*, **2008**, 9, 2132-8	6.9	13
14	Injectable Hyaluronic Acid Hydrogels Enriched with Platelet Lysate as a Cryostable Off-the-Shelf System for Cell-Based Therapies. *Regenerative Engineering and Translational Medicine*, **2017**, 3, 53-69	2.4	12
13	Biomedical films of graphene nanoribbons and nanoflakes with natural polymers. *RSC Advances*, **2017**, 7, 27578-27594	3.7	12
12	Engineering Membranes for Bone Regeneration. *Tissue Engineering - Part A*, **2017**, 23, 1502-1533	3.9	12
11	High performance free-standing films by layer-by-layer assembly of graphene flakes and ribbons with natural polymers. *Journal of Materials Chemistry B*, **2016**, 4, 7718-7730	7.3	12
10	Membranes of poly(dl-lactic acid)/Bioglass with asymmetric bioactivity for biomedical applications. *Journal of Bioactive and Compatible Polymers*, **2012**, 27, 429-440	2	11
9	Biomineralization in chitosan/Bioglass composite membranes under different dynamic mechanical conditions. *Materials Science and Engineering C*, **2013**, 33, 4480-3	8.3	10
8	Hybrid biodegradable membranes of silane-treated chitosan/soy protein for biomedical applications. *Journal of Bioactive and Compatible Polymers*, **2013**, 28, 385-397	2	9
7	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
6	Nanostructured Biopolymer/Few-Layer Graphene Freestanding Films with Enhanced Mechanical and Electrical Properties. *Macromolecular Materials and Engineering*, **2018**, 303, 1700316	3.9	5
5	Moldable Superhydrophobic Surfaces. *Advanced Materials Interfaces*, **2016**, 3, 1600074	4.6	5
4	Homogeneous poly(L-lactic acid)/chitosan blended films. *Polymers for Advanced Technologies*, **2014**, 25, 1492-1500	3.2	4
3	Sublingual protein delivery by a mucoadhesive patch made of natural polymers. *Acta Biomaterialia*, **2021**, 128, 222-235	10.8	4

2	Bioactivity and Viscoelastic Characterization in Physiological Simulated Conditions of Chitosan/Bioglass Composite Membranes. *Materials Science Forum*, **2010**, 636-637, 26-30	0.4	3
1	Biomaterials: Nanoengineering Hybrid Supramolecular Multilayered Biomaterials Using Polysaccharides and Self-Assembling Peptide Amphiphiles (Adv. Funct. Mater. 17/2017). *Advanced Functional Materials*, **2017**, 27,	15.6	2