Simone S Silva

List of Publications by Citations

68 papers	3,766 citations	30 h-index	61 g-index
74 ext. papers	4,188 ext. citations	7.5 avg, IF	5.24 L-index

#	Paper	IF	Citations
68	Natural origin biodegradable systems in tissue engineering and regenerative medicine: present status and some moving trends. *Journal of the Royal Society Interface*, **2007**, 4, 999-1030	4.1	843
67	Novel hydroxyapatite/chitosan bilayered scaffold for osteochondral tissue-engineering applications: Scaffold design and its performance when seeded with goat bone marrow stromal cells. *Biomaterials*, **2006**, 27, 6123-37	15.6	387
66	Novel genipin-cross-linked chitosan/silk fibroin sponges for cartilage engineering strategies. *Biomacromolecules*, **2008**, 9, 2764-74	6.9	205
65	Biocompatible ionic liquids: fundamental behaviours and applications. *Chemical Society Reviews*, **2019**, 48, 4317-4335	58.5	151
64	Materials of marine origin: a review on polymers and ceramics of biomedical interest. *International Materials Reviews*, **2012**, 57, 276-306	16.1	146
63	Ionic liquids in the processing and chemical modification of chitin and chitosan for biomedical applications. *Green Chemistry*, **2017**, 19, 1208-1220	10	138
62	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. *Biomatter*, **2012**, 2, 278-89		122
61	Plasma surface modification of chitosan membranes: characterization and preliminary cell response studies. *Macromolecular Bioscience*, **2008**, 8, 568-76	5.5	117
60	Functional nanostructured chitosansiloxane hybrids. *Journal of Materials Chemistry*, **2005**, 15, 3952		110
59	Green processing of porous chitin structures for biomedical applications combining ionic liquids and supercritical fluid technology. *Acta Biomaterialia*, **2011**, 7, 1166-72	10.8	106
58	Physical properties and biocompatibility of chitosan/soy blended membranes. *Journal of Materials Science: Materials in Medicine*, **2005**, 16, 575-9	4.5	99
57	An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. *Acta Biomaterialia*, **2013**, 9, 6790-7	10.8	98
56	Morphology and miscibility of chitosan/soy protein blended membranes. *Carbohydrate Polymers*, **2007**, 70, 25-31	10.3	97
55	Potential applications of natural origin polymer-based systems in soft tissue regeneration. *Critical Reviews in Biotechnology*, **2010**, 30, 200-21	9.4	88
54	Effect of crosslinking in chitosan/aloe vera-based membranes for biomedical applications. *Carbohydrate Polymers*, **2013**, 98, 581-8	10.3	83
53	The use of ionic liquids in the processing of chitosan/silk hydrogels for biomedical applications. *Green Chemistry*, **2012**, 14, 1463	10	74
52	Silk hydrogels from non-mulberry and mulberry silkworm cocoons processed with ionic liquids. *Acta Biomaterialia*, **2013**, 9, 8972-82	10.8	64

51	Cell adhesion and proliferation onto chitosan-based membranes treated by plasma surface modification. *Journal of Biomaterials Applications*, **2011**, 26, 101-16	2.9	63
50	Macroporous hydroxyapatite scaffolds for bone tissue engineering applications: physicochemical characterization and assessment of rat bone marrow stromal cell viability. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 175-86	5.4	63
49	Genipin-modified silk-fibroin nanometric nets. *Macromolecular Bioscience*, **2008**, 8, 766-74	5.5	59
48	Synthesis and characterization of polyurethane-g-chitosan. *European Polymer Journal*, **2003**, 39, 1515-1519	5.2	57
47	Unleashing the potential of supercritical fluids for polymer processing in tissue engineering and regenerative medicine. *Journal of Supercritical Fluids*, **2013**, 79, 177-185	4.2	41
46	In vitro evaluation of the behaviour of human polymorphonuclear neutrophils in direct contact with chitosan-based membranes. *Journal of Biotechnology*, **2007**, 132, 218-26	3.7	39
45	In vivo performance of chitosan/soy-based membranes as wound-dressing devices for acute skin wounds. *Tissue Engineering - Part A*, **2013**, 19, 860-9	3.9	37
44	Fabrication and characterization of Eri silk fibers-based sponges for biomedical application. *Acta Biomaterialia*, **2016**, 32, 178-189	10.8	36
43	Design and functionalization of chitin-based microsphere scaffolds. *Green Chemistry*, **2013**, 15, 3252	10	35
42	Influence of freezing temperature and deacetylation degree on the performance of freeze-dried chitosan scaffolds towards cartilage tissue engineering. *European Polymer Journal*, **2017**, 95, 232-240	5.2	33
41	Fucoidan Hydrogels Photo-Cross-Linked with Visible Radiation As Matrices for Cell Culture. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1151-1161	5.5	30
40	Bio-inspired Aloe vera sponges for biomedical applications. *Carbohydrate Polymers*, **2014**, 112, 264-70	10.3	30
39	In vivo study of dendronlike nanoparticles for stem cells "tune-up": from nano to tissues. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2011**, 7, 914-24	6	30
38	Revealing the potential of squid chitosan-based structures for biomedical applications. *Biomedical Materials (Bristol)*, **2013**, 8, 045002	3.5	29
37	Alternative methodology for chitin□ydroxyapatite composites using ionic liquids and supercritical fluid technology. *Journal of Bioactive and Compatible Polymers*, **2013**, 28, 481-491	2	24
36	Physicochemical Characterization of Novel Chitosan-Soy Protein/ TEOS Porous Hybrids for Tissue Engineering Applications. *Materials Science Forum*, **2006**, 514-516, 1000-1004	0.4	22
35	Natural Polymers in tissue engineering applications **2008**, 145-192		21
34	Chinese Oak Tasar Silkworm Antheraea pernyi Silk Proteins: Current Strategies and Future Perspectives for Biomedical Applications. *Macromolecular Bioscience*, **2019**, 19, e1800252	5.5	19

33	Ionic liquids as foaming agents of semi-crystalline natural-based polymers. *Green Chemistry*, **2012**, 14, 1949	10	17
32	Natural Polymers in Tissue Engineering Applications **2013**, 385-425		15
31	2.11 Polymers of Biological Origin ? **2017**, 228-252		14
30	Chitosan improves the biological performance of soy-based biomaterials. *Tissue Engineering - Part A*, **2010**, 16, 2883-90	3.9	13
29	Marine collagen-chitosan-fucoidan cryogels as cell-laden biocomposites envisaging tissue engineering. *Biomedical Materials (Bristol)*, **2020**, 15, 055030	3.5	12
28	Marine-Derived Polymers in Ionic Liquids: Architectures Development and Biomedical Applications. *Marine Drugs*, **2020**, 18,	6	10
27	Hybrid biodegradable membranes of silane-treated chitosan/soy protein for biomedical applications. *Journal of Bioactive and Compatible Polymers*, **2013**, 28, 385-397	2	9
26	Innovative Technique for the Preparation of Porous Bilayer Hydroxyapatite/Chitosan Scaffolds for Osteochondral Applications. *Key Engineering Materials*, **2006**, 309-311, 927-930	0.4	8
25	Green Solvents Combined with Bioactive Compounds as Delivery Systems: Present Status and Future Trends.. *ACS Applied Bio Materials*, **2021**, 4, 4000-4013	4.1	8
24	Toward Spinning Greener Advanced Silk Fibers by Feeding Silkworms with Nanomaterials. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11872-11887	8.3	7
23	Exploring the Use of Choline Acetate on the Sustainable Development of Chitin-Based Sponges. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13507-13516	8.3	7
22	Ionic Liquid-Mediated Processing of SAIB-Chitin Scaffolds. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 3986-3994	8.3	6
21	Engineered tubular structures based on chitosan for tissue engineering applications. *Journal of Biomaterials Applications*, **2018**, 32, 841-852	2.9	6
20	Dual delivery of hydrophilic and hydrophobic drugs from chitosan/diatomaceous earth composite membranes. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 21	4.5	5
19	Green Pathway for Processing Non-mulberry Antheraea pernyi Silk Fibroin/Chitin-Based Sponges: Biophysical and Biochemical Characterization. *Frontiers in Materials*, **2020**, 7,	4	4
18	Acemannan-based films: an improved approach envisioning biomedical applications. *Materials Research Express*, **2019**, 6, 095406	1.7	4
17	Challenges and opportunities on vegetable oils derived systems for biomedical applications.. *Materials Science and Engineering C*, **2022**, 112720	8.3	4
16	Approach on chitosan/virgin coconut oil-based emulsion matrices as a platform to design superabsorbent materials. *Carbohydrate Polymers*, **2020**, 249, 116839	10.3	3

15	Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells. *Advanced Functional Materials*, **2021**, 31, 2011205	15.6	3
14	Photocrosslinked acemannan-based 3D matrices for in vitro cell culture. *Journal of Materials Chemistry B*, **2019**, 7, 4184-4190	7.3	2
13	An alternative approach to prepare alginate/acemannan 3D architectures. *SN Applied Sciences*, **2019**, 1, 1	1.8	2
12	Fundamentals on biopolymers and global demand **2020**, 3-34		2
11	Soft Constructs for Skin Tissue Engineering **2012**, 537-557		2
10	Marine-origin Polysaccharides for Tissue Engineering and Regenerative Medicine **2020**, 2619-2650		1
9	Angiogenic potential of airbrushed fucoidan/polycaprolactone nanofibrous meshes. *International Journal of Biological Macromolecules*, **2021**, 183, 695-706	7.9	1
8	Fabrication of biocompatible porous SAIB/silk fibroin scaffolds using ionic liquids. *Materials Chemistry Frontiers*, **2021**, 5, 6582-6591	7.8	1
7	Biopolymer membranes in tissue engineering **2020**, 141-163		0
6	Physicochemical features assessment of acemannan-based ternary blended films for biomedical purposes. *Carbohydrate Polymers*, **2021**, 257, 117601	10.3	0
5	Sulfated Seaweed Polysaccharides **2022**, 307-340		0
4	Sulfated Seaweed Polysaccharides **2021**, 1-34		
3	Biomedical exploitation of chitin and chitosan-based matrices via ionic liquid processing **2020**, 471-497		
2	Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells (Adv. Funct. Mater. 35/2021). *Advanced Functional Materials*, **2021**, 31, 2170255	15.6	
1	Chitin and Its Derivatives **2022**, 205-228		