Nuno M Neves

List of Publications by Year in Descending Order

193 papers	7,641 citations	47 h-index	83 g-index
203 ext. papers	8,506 ext. citations	6.3 avg, IF	5.9 L-index

#	Paper	IF	Citations
193	Study of the immunologic response of marine-derived collagen and gelatin extracts for tissue engineering applications.. *Acta Biomaterialia*, **2022**,	10.8	1
192	Sulfated Seaweed Polysaccharides **2022**, 307-340		0
191	Erythrocyte-derived liposomes for the treatment of inflammatory diseases.. *Journal of Drug Targeting*, **2022**, 1-44	5.4	0
190	Microfluidic-driven mixing of high molecular weight polymeric complexes for precise nanoparticle downsizing.. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2022**, 102560	6	0
189	Biomedical Applications of Fibers Produced by Electrospinning, Microfluidic Spinning and Combinations of Both **2022**, 251-295		
188	Arteriovenous access in hemodialysis: A multidisciplinary perspective for future solutions. *International Journal of Artificial Organs*, **2021**, 44, 3-16	1.9	3
187	Microfluidic mixing system for precise PLGA-PEG nanoparticles size control. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2021**, 40, 102482	6	4
186	Precision biomaterials in cancer theranostics and modelling. *Biomaterials*, **2021**, 280, 121299	15.6	5
185	Chondrogenic differentiation induced by extracellular vesicles bound to a nanofibrous substrate. *Npj Regenerative Medicine*, **2021**, 6, 79	15.8	2
184	Microfluidic-assisted electrospinning, an alternative to coaxial, as a controlled dual drug release system to treat inflammatory arthritic diseases.. *Materials Science and Engineering C*, **2021**, 112585	8.3	0
183	Sulfated Seaweed Polysaccharides **2021**, 1-34		
182	RESTORE Survey on the Public Perception of Advanced Therapies and ATMPs in Europe-Why the European Union Should Invest More!. *Frontiers in Medicine*, **2021**, 8, 739987	4.9	3
181	Impact of surface topography on the bacterial attachment to micro- and nano-patterned polymer films.. *Surfaces and Interfaces*, **2021**, 27, 101494	4.1	2
180	A biocompatible and injectable hydrogel to boost the efficacy of stem cells in neurodegenerative diseases treatment. *Life Sciences*, **2021**, 287, 120108	6.8	3
179	Modulating inflammation through the neutralization of Interleukin-6 and tumor necrosis factor-□ by biofunctionalized nanoparticles. *Journal of Controlled Release*, **2021**, 331, 491-502	11.7	4
178	Fucoidan/chitosan nanoparticles functionalized with anti-ErbB-2 target breast cancer cells and impair tumor growth in vivo. *International Journal of Pharmaceutics*, **2021**, 600, 120548	6.5	6
177	A New Chalcone Derivative with Promising Antiproliferative and Anti-Invasion Activities in Glioblastoma Cells. *Molecules*, **2021**, 26,	4.8	1

176	Glutathione Reductase-Sensitive Polymeric Micelles for Controlled Drug Delivery on Arthritic Diseases. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3229-3241	5.5	6
175	New Vascular Graft Using the Decellularized Human Chorion Membrane. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3423-3433	5.5	1
174	Renal Regeneration: The Role of Extracellular Matrix and Current ECM-Based Tissue Engineered Strategies. *Advanced Healthcare Materials*, **2021**, 10, e2100160	10.1	4
173	Recapitulation of Thymic Function by Tissue Engineering Strategies. *Advanced Healthcare Materials*, **2021**, 10, e2100773	10.1	0
172	Angiogenic potential of airbrushed fucoidan/polycaprolactone nanofibrous meshes. *International Journal of Biological Macromolecules*, **2021**, 183, 695-706	7.9	1
171	Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. *Advanced Biology*, **2021**, 5, e2101019		4
170	Particulate kidney extracellular matrix: bioactivity and proteomic analysis of a novel scaffold from porcine origin. *Biomaterials Science*, **2021**, 9, 186-198	7.4	5
169	Biofunctionalized Liposomes to Monitor Rheumatoid Arthritis Regression Stimulated by Interleukin-23 Neutralization. *Advanced Healthcare Materials*, **2021**, 10, e2001570	10.1	12
168	Retinoic Acid Benefits Glomerular Organotypic Differentiation from Adult Renal Progenitor Cells In Vitro. *Stem Cell Reviews and Reports*, **2021**, 17, 1406-1419	7.3	2
167	Antibacterial activity testing methods for hydrophobic patterned surfaces. *Scientific Reports*, **2021**, 11, 6675	4.9	8
166	Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications. *Macromol*, **2021**, 1, 49-63		9
165	Decellularized kidney extracellular matrix bioinks recapitulate renal 3D microenvironment. *Biofabrication*, **2021**, 13,	10.5	6
164	Cellular Uptake of Three Different Nanoparticles in an Inflammatory Arthritis Scenario versus Normal Conditions. *Molecular Pharmaceutics*, **2021**, 18, 3235-3246	5.6	2
163	Fishroesomes as carriers with antioxidant and anti-inflammatory bioactivities. *Biomedicine and Pharmacotherapy*, **2021**, 140, 111680	7.5	1
162	Biomimetic and cell-based nanocarriers - New strategies for brain tumor targeting. *Journal of Controlled Release*, **2021**, 337, 482-493	11.7	3
161	Fabrication of biomimetic patterned PCL membranes mimicking the complexity of Rubus fruticosus leaves surface. *Colloids and Surfaces B: Biointerfaces*, **2021**, 206, 111910	6	2
160	Development of alginate-based hydrogels for blood vessel engineering.. *Materials Science and Engineering C*, **2021**, 112588	8.3	2
159	Co-cultures of renal progenitors and endothelial cells on kidney decellularized matrices replicate the renal tubular environment in vitro. *Acta Physiologica*, **2020**, 230, e13491	5.6	5

158	Fucoidan Immobilized at the Surface of a Fibrous Mesh Presents Toxic Effects over Melanoma Cells, But Not over Noncancer Skin Cells. *Biomacromolecules*, **2020**, 21, 2745-2754	6.9	5
157	Surface biofunctionalization to improve the efficacy of biomaterial substrates to be used in regenerative medicine. *Materials Horizons*, **2020**, 7, 2258-2275	14.4	9
156	A review on fucoidan antitumor strategies: From a biological active agent to a structural component of fucoidan-based systems. *Carbohydrate Polymers*, **2020**, 239, 116131	10.3	44
155	Exploring the Gelation Mechanisms and Cytocompatibility of Gold (III)-Mediated Regenerated and Thiolated Silk Fibroin Hydrogels. *Biomolecules*, **2020**, 10,	5.9	3
154	Spatial immobilization of endogenous growth factors to control vascularization in bone tissue engineering. *Biomaterials Science*, **2020**, 8, 2577-2589	7.4	21
153	Yicathins B and C and Analogues: Total Synthesis, Lipophilicity and Biological Activities. *ChemMedChem*, **2020**, 15, 749-755	3.7	8
152	Electrospun colourimetric sensors for detecting volatile amines. *Sensors and Actuators B: Chemical*, **2020**, 322, 128570	8.5	10
151	Fibronectin Bound to a Fibrous Substrate Has Chondrogenic Induction Properties. *Biomacromolecules*, **2020**, 21, 1368-1378	6.9	8
150	Bone Regeneration Using Duckʼs Feet-Derived Collagen Scaffold as an Alternative Collagen Source. *Advances in Experimental Medicine and Biology*, **2020**, 1250, 3-13	3.6	
149	Application of Gellan Gum-Based Scaffold for Regenerative Medicine. *Advances in Experimental Medicine and Biology*, **2020**, 1249, 15-37	3.6	0
148	In Vivo Evaluation of the Biocompatibility of Biomaterial Device. *Advances in Experimental Medicine and Biology*, **2020**, 1250, 109-124	3.6	7
147	Phospholipid-induced silk fibroin hydrogels and their potential as cell carriers for tissue regeneration. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 160-172	4.4	11
146	Sardine Roe as a Source of Lipids To Produce Liposomes. *ACS Biomaterials Science and Engineering*, **2020**, 6, 1017-1029	5.5	5
145	Growing evidence supporting the use of mesenchymal stem cell therapies in multiple sclerosis: A systematic review. *Multiple Sclerosis and Related Disorders*, **2020**, 38, 101860	4	7
144	Method to decellularize the human chorion membrane. *Methods in Cell Biology*, **2020**, 157, 23-35	1.8	1
143	Dual-functional liposomes for curcumin delivery and accelerating silk fibroin hydrogel formation. *International Journal of Pharmaceutics*, **2020**, 589, 119844	6.5	6
142	Tubular Fibrous Scaffolds Functionalized with Tropoelastin as a Small-Diameter Vascular Graft. *Biomacromolecules*, **2020**, 21, 3582-3595	6.9	6
141	Antioxidant and Anti-Inflammatory Activities of Cytocompatible Extracts: A Comparison between Traditional and Soxhlet Extraction. *Antioxidants*, **2020**, 9,	7.1	10

140	Fibronectin-Functionalized Fibrous Meshes as a Substrate to Support Cultures of Thymic Epithelial Cells. *Biomacromolecules*, **2020**, 21, 4771-4780	6.9	3
139	Marine-origin Polysaccharides for Tissue Engineering and Regenerative Medicine **2020**, 2619-2650		1
138	Decellularized Human Chorion Membrane as a Novel Biomaterial for Tissue Regeneration. *Biomolecules*, **2020**, 10,	5.9	10
137	Chondrogenesis-inductive nanofibrous substrate using both biological fluids and mesenchymal stem cells from an autologous source. *Materials Science and Engineering C*, **2019**, 98, 1169-1178	8.3	12
136	Biodegradable polymers: an update on drug delivery in bone and cartilage diseases. *Expert Opinion on Drug Delivery*, **2019**, 16, 795-813	8	18
135	Extracellular matrix electrospun membranes for mimicking natural renal filtration barriers. *Materials Science and Engineering C*, **2019**, 103, 109866	8.3	21
134	Biofunctional Nanofibrous Substrate for Local TNF-Capturing as a Strategy to Control Inflammation in Arthritic Joints. *Nanomaterials*, **2019**, 9,	5.4	6
133	Fucoidan from Fucus vesiculosus inhibits new blood vessel formation and breast tumor growth in vivo. *Carbohydrate Polymers*, **2019**, 223, 115034	10.3	27
132	Influence of PDLA nanoparticles size on drug release and interaction with cells. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 482-493	5.4	9
131	Micro/Nano Scaffolds for Osteochondral Tissue Engineering. *Advances in Experimental Medicine and Biology*, **2018**, 1058, 125-139	3.6	8
130	Fish sarcoplasmic proteins as a high value marine material for wound dressing applications. *Colloids and Surfaces B: Biointerfaces*, **2018**, 167, 310-317	6	10
129	Interleukin-6 Neutralization by Antibodies Immobilized at the Surface of Polymeric Nanoparticles as a Therapeutic Strategy for Arthritic Diseases. *ACS Applied Materials & Interfaces*, **2018**, 10, 13839-13850	9.5	25
128	The Use of Electrospinning Technique on Osteochondral Tissue Engineering. *Advances in Experimental Medicine and Biology*, **2018**, 1058, 247-263	3.6	10
127	Development of non-orthogonal 3D-printed scaffolds to enhance their osteogenic performance. *Biomaterials Science*, **2018**, 6, 1569-1579	7.4	20
126	The functionalization of natural polymer-coated gold nanoparticles to carry bFGF to promote tissue regeneration. *Journal of Materials Chemistry B*, **2018**, 6, 2104-2115	7.3	8
125	P3 UNDERSTANDING THE ENDOTHELIAL □SMOOTH MUSCLE □FIBROBLASTIC CELLS INTERACTIONS ON A TISSUE-ENGINEERED VASCULAR GRAFT. *Artery Research*, **2018**, 24, 80	2.2	
124	The Role of Natural-Based Biomaterials in Advanced Therapies for Autoimmune Diseases. *Advances in Experimental Medicine and Biology*, **2018**, 1077, 127-146	3.6	1
123	Gemcitabine delivered by fucoidan/chitosan nanoparticles presents increased toxicity over human breast cancer cells. *Nanomedicine*, **2018**, 13, 2037-2050	5.6	31

122	Calcium sequestration by fungal melanin inhibits calcium-calmodulin signalling to prevent LC3-associated phagocytosis. *Nature Microbiology*, **2018**, 3, 791-803	26.6	44
121	In vitro chondrogenic commitment of human Wharton's jelly stem cells by co-culture with human articular chondrocytes. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1876-1887	4.4	10
120	Chondroitin sulfate immobilization at the surface of electrospun nanofiber meshes for cartilage tissue regeneration approaches. *Applied Surface Science*, **2017**, 403, 112-125	6.7	32
119	The Key Role of Sulfation and Branching on Fucoidan Antitumor Activity. *Macromolecular Bioscience* , **2017**, 17, 1600340	5.5	58
118	Electrospun Nanofibrous Meshes Cultured With Wharton's Jelly Stem Cell: An Alternative for Cartilage Regeneration, Without the Need of Growth Factors. *Biotechnology Journal*, **2017**, 12, 1700073	5.6	13
117	Self-assembled Hydrogel Fiber Bundles from Oppositely Charged Polyelectrolytes Mimic Micro-/nanoscale Hierarchy of Collagen. *Advanced Functional Materials*, **2017**, 27, 1606273	15.6	47
116	Reinforcement of poly-l-lactic acid electrospun membranes with strontium borosilicate bioactive glasses for bone tissue engineering. *Acta Biomaterialia*, **2016**, 44, 168-77	10.8	41
115	Recent Developments on Chitosan Applications in Regenerative Medicine **2016**, 221-243		1
114	Dual release of a hydrophilic and a hydrophobic osteogenic factor from a single liposome. *RSC Advances*, **2016**, 6, 114599-114612	3.7	6
113	Delivery Systems Made of Natural-Origin Polymers for Tissue Engineering and Regenerative Medicine Applications **2016**, 581-611		3
112	Processing of Biomedical Devices for Tissue Engineering and Regenerative Medicine Applications **2016**, 475-493		
111	Advanced In-Vitro Cell Culture Methods Using Natural Biomaterials **2016**, 551-561		
110	Advanced polymer composites and structures for bone and cartilage tissue engineering **2016**, 123-142		2
109	Starch-Based Blends in Tissue Engineering **2016**, 244-257		2
108	Challenges and Opportunities of Natural Biomaterials for Advanced Devices and Therapies **2016**, 629-633		2
107	Intrinsic Antibacterial Borosilicate Glasses for Bone Tissue Engineering Applications. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1143-1150	5.5	19
106	Extracellular Vesicles Derived from Osteogenically Induced Human Bone Marrow Mesenchymal Stem Cells Can Modulate Lineage Commitment. *Stem Cell Reports*, **2016**, 6, 284-91	8	55
105	Gellan Gum-based Hydrogels for Tissue Engineering Applications **2016**, 320-336		4

104	In Vitro Biological Testing in the Development of New Devices **2016**, 532-550		
103	Testing Natural Biomaterials in Animal Models **2016**, 562-579		4
102	Final Comments and Remarks **2016**, 649-650		
101	Engineering Enriched Microenvironments with Gradients of Platelet Lysate in Hydrogel Fibers. *Biomacromolecules*, **2016**, 17, 1985-97	6.9	15
100	Depth (Z-axis) control of cell morphologies on micropatterned surfaces. *Journal of Bioactive and Compatible Polymers*, **2015**, 30, 555-567	2	2
99	Antibacterial activity of chitosan nanofiber meshes with liposomes immobilized releasing gentamicin. *Acta Biomaterialia*, **2015**, 18, 196-205	10.8	122
98	Nanoparticle-based bioactive agent release systems for bone and cartilage tissue engineering. *Regenerative Therapy*, **2015**, 1, 109-118	3.7	41
97	Osteogenic differentiation of human mesenchymal stem cells in the absence of osteogenic supplements: A surface-roughness gradient study. *Acta Biomaterialia*, **2015**, 28, 64-75	10.8	97
96	Regulation of human mesenchymal stem cell osteogenesis by specific surface density of fibronectin: a gradient study. *ACS Applied Materials & Interfaces*, **2015**, 7, 2367-75	9.5	29
95	Conditioned medium as a strategy for human stem cells chondrogenic differentiation. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 714-23	4.4	30
94	On the use of dexamethasone-loaded liposomes to induce the osteogenic differentiation of human mesenchymal stem cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 1056-66	4.4	25
93	Hierarchical scaffolds enhance osteogenic differentiation of human Wharton‡s jelly derived stem cells. *Biofabrication*, **2015**, 7, 035009	10.5	16
92	Bottom-up approach to construct microfabricated multi-layer scaffolds for bone tissue engineering. *Biomedical Microdevices*, **2014**, 16, 69-78	3.7	16
91	Bio-Inspired Integration of Natural Materials **2014**, 125-150		5
90	Immobilization of bioactive factor-loaded liposomes on the surface of electrospun nanofibers targeting tissue engineering. *Biomaterials Science*, **2014**, 2, 1195-1209	7.4	46
89	Liposomes in tissue engineering and regenerative medicine. *Journal of the Royal Society Interface*, **2014**, 11, 20140459	4.1	198
88	Biofunctional nanofibrous substrate comprising immobilized antibodies and selective binding of autologous growth factors. *Biomacromolecules*, **2014**, 15, 2196-205	6.9	27
87	Instructive nanofibrous scaffold comprising runt-related transcription factor 2 gene delivery for bone tissue engineering. *ACS Nano*, **2014**, 8, 8082-94	16.7	69

86	Hyaluronic acid/poly-l-lysine bilayered silica nanoparticles enhance the osteogenic differentiation of human mesenchymal stem cells. *Journal of Materials Chemistry B*, **2014**, 2, 6939-6946	7.3	36
85	In vitro degradation and in vivo biocompatibility of chitosan–poly(butylene succinate) fiber mesh scaffolds. *Journal of Bioactive and Compatible Polymers*, **2014**, 29, 137-151	2	72
84	Influence of scaffold composition over in vitro osteogenic differentiation of hBMSCs and in vivo inflammatory response. *Journal of Biomaterials Applications*, **2014**, 28, 1430-42	2.9	7
83	Differential regulation of osteogenic differentiation of stem cells on surface roughness gradients. *Biomaterials*, **2014**, 35, 9023-32	15.6	194
82	Automating the processing steps for obtaining bone tissue-engineered substitutes: from imaging tools to bioreactors. *Tissue Engineering - Part B: Reviews*, **2014**, 20, 567-77	7.9	14
81	Size Also Matters in Biodegradable Composite Microfiber Reinforced by Chitosan Nanofibers. *Materials Research Society Symposia Proceedings*, **2014**, 1621, 59-69		1
80	Unveiling the effects of the secretome of mesenchymal progenitors from the umbilical cord in different neuronal cell populations. *Biochimie*, **2013**, 95, 2297-303	4.6	36
79	Tissue engineering and regenerative medicine: past, present, and future. *International Review of Neurobiology*, **2013**, 108, 1-33	4.4	69
78	Processing ulvan into 2D structures: cross-linked ulvan membranes as new biomaterials for drug delivery applications. *International Journal of Pharmaceutics*, **2012**, 426, 76-81	6.5	66
77	Gradual pore formation in natural origin scaffolds throughout subcutaneous implantation. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 599-612	5.4	15
76	An automated two-phase system for hydrogel microbead production. *Biofabrication*, **2012**, 4, 035003	10.5	10
75	Structural Natural Composites **2012**, 1		
74	Microfabricated photocrosslinkable polyelectrolyte-complex of chitosan and methacrylated gellan gum. *Journal of Materials Chemistry*, **2012**, 22, 17262-17271		38
73	The secretome of stem cells isolated from the adipose tissue and Wharton jelly acts differently on central nervous system derived cell populations. *Stem Cell Research and Therapy*, **2012**, 3, 18	8.3	88
72	Osteogenic differentiation of two distinct subpopulations of human adipose-derived stem cells: an in vitro and in vivo study. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 1-11	4.4	42
71	Chitosan-poly(butylene succinate) scaffolds and human bone marrow stromal cells induce bone repair in a mouse calvaria model. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 21-8	4.4	58
70	Synergistic effect of scaffold composition and dynamic culturing environment in multilayered systems for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, e24-30	4.4	14
69	Development of micropatterned surfaces of poly(butylene succinate) by micromolding for guided tissue engineering. *Acta Biomaterialia*, **2012**, 8, 1490-7	10.8	28

68	Endothelial differentiation of human stem cells seeded onto electrospun polyhydroxybutyrate/polyhydroxybutyrate-co-hydroxyvalerate fiber mesh. *PLoS ONE*, **2012**, 7, e35422	3.7	63
67	Design of nano- and microfiber combined scaffolds by electrospinning of collagen onto starch-based fiber meshes: a man-made equivalent of natural extracellular matrix. *Tissue Engineering - Part A*, **2011**, 17, 463-73	3.9	51
66	Natural Origin Materials for Bone Tissue Engineering Properties, Processing, and Performance **2011**, 557-586		7
65	Scaffolds based bone tissue engineering: the role of chitosan. *Tissue Engineering - Part B: Reviews*, **2011**, 17, 331-47	7.9	248
64	Micro- and Nanotechnology in Tissue Engineering **2011**, 3-29		6
63	In vivo biodistribution of carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in rats. *Journal of Bioactive and Compatible Polymers*, **2011**, 26, 619-627	2	18
62	Novel melt-processable chitosan-polybutylene succinate fibre scaffolds for cartilage tissue engineering. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 773-88	3.5	24
61	Human bone marrow mesenchymal stem cells: a systematic reappraisal via the genostem experience. *Stem Cell Reviews and Reports*, **2011**, 7, 32-42	6.4	59
60	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
59	Chondrogenic differentiation of human bone marrow mesenchymal stem cells in chitosan-based scaffolds using a flow-perfusion bioreactor. *Journal of Tissue Engineering and Regenerative Medicine* , **2011**, 5, 722-32	4.4	67
58	The influence of patterned nanofiber meshes on human mesenchymal stem cell osteogenesis. *Macromolecular Bioscience*, **2011**, 11, 978-87	5.5	43
57	Performance of biodegradable microcapsules of poly(butylene succinate), poly(butylene succinate-co-adipate) and poly(butylene terephthalate-co-adipate) as drug encapsulation systems. *Colloids and Surfaces B: Biointerfaces*, **2011**, 84, 498-507	6	32
56	Improvement of electrospun polymer fiber meshes pore size by femtosecond laser irradiation. *Applied Surface Science*, **2011**, 257, 4091-4095	6.7	21
55	Impact of biological agents and tissue engineering approaches on the treatment of rheumatic diseases. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 331-9	7.9	10
54	Dynamic culture of osteogenic cells in biomimetically coated poly(caprolactone) nanofibre mesh constructs. *Tissue Engineering - Part A*, **2010**, 16, 557-63	3.9	22
53	Development and characterization of a novel hybrid tissue engineering-based scaffold for spinal cord injury repair. *Tissue Engineering - Part A*, **2010**, 16, 45-54	3.9	96
52	Cartilage tissue engineering using electrospun PCL nanofiber meshes and MSCs. *Biomacromolecules* , **2010**, 11, 3228-36	6.9	136
51	Gellan gum injectable hydrogels for cartilage tissue engineering applications: in vitro studies and preliminary in vivo evaluation. *Tissue Engineering - Part A*, **2010**, 16, 343-53	3.9	120

50	High nonlinear optical anisotropy of urea nanofibers. *Europhysics Letters*, **2010**, 91, 28007	1.6	14
49	Role of human umbilical cord mesenchymal progenitors conditioned media in neuronal/glial cell densities, viability, and proliferation. *Stem Cells and Development*, **2010**, 19, 1067-74	4.4	37
48	Solving cell infiltration limitations of electrospun nanofiber meshes for tissue engineering applications. *Nanomedicine*, **2010**, 5, 539-54	5.6	64
47	Biodegradable nanofibers-reinforced microfibrous composite scaffolds for bone tissue engineering. *Tissue Engineering - Part A*, **2010**, 16, 3599-609	3.9	39
46	Development of new chitosan/carrageenan nanoparticles for drug delivery applications. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 1265-72	5.4	85
45	Gellan gum: a new biomaterial for cartilage tissue engineering applications. *Journal of Biomedical Materials Research - Part A*, **2010**, 93, 852-63	5.4	111
44	Modified Gellan Gum hydrogels with tunable physical and mechanical properties. *Biomaterials*, **2010**, 31, 7494-502	15.6	271
43	Carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in central nervous systems-regenerative medicine: effects on neuron/glial cell viability and internalization efficiency. *Macromolecular Bioscience*, **2010**, 10, 1130-40	5.5	20
42	Melt processing of chitosan-based fibers and fiber-mesh scaffolds for the engineering of connective tissues. *Macromolecular Bioscience*, **2010**, 10, 1495-504	5.5	17
41	Osteogenic induction of hBMSCs by electrospun scaffolds with dexamethasone release functionality. *Biomaterials*, **2010**, 31, 5875-85	15.6	144
40	Chitosan/polyester-based scaffolds for cartilage tissue engineering: assessment of extracellular matrix formation. *Acta Biomaterialia*, **2010**, 6, 1149-57	10.8	107
39	Surface modification of a biodegradable composite by UV laser ablation: in vitro biological performance. *Journal of Tissue Engineering and Regenerative Medicine*, **2010**, 4, 444-53	4.4	4
38	Synthesis of polymer-based triglycine sulfate nanofibres by electrospinning. *Journal Physics D: Applied Physics*, **2009**, 42, 205403	3	3
37	Melt-based compression-molded scaffolds from chitosan-polyester blends and composites: Morphology and mechanical properties. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 489-504	5.4	80
36	Hierarchical starch-based fibrous scaffold for bone tissue engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2009**, 3, 37-42	4.4	170
35	Performance of new gellan gum hydrogels combined with human articular chondrocytes for cartilage regeneration when subcutaneously implanted in nude mice. *Journal of Tissue Engineering and Regenerative Medicine*, **2009**, 3, 493-500	4.4	56
34	Surface modification of electrospun polycaprolactone nanofiber meshes by plasma treatment to enhance biological performance. *Small*, **2009**, 5, 1195-206	11	196
33	Degradable particulate composite reinforced with nanofibres for biomedical applications. *Acta Biomaterialia*, **2009**, 5, 1104-14	10.8	37

32	Evaluation of extracellular matrix formation in polycaprolactone and starch-compounded polycaprolactone nanofiber meshes when seeded with bovine articular chondrocytes. *Tissue Engineering - Part A*, **2009**, 15, 377-85	3.9	54
31	Expression, purification and osteogenic bioactivity of recombinant human BMP-4, -9, -10, -11 and -14. *Protein Expression and Purification*, **2009**, 63, 89-94	2	32
30	Effects of Starch/ Polycaprolactone-based Blends for Spinal Cord Injury Regeneration in Neurons/Glial Cells Viability and Proliferation. *Journal of Bioactive and Compatible Polymers*, **2009**, 24, 235-248	2	15
29	Osteogenic differentiation of human bone marrow mesenchymal stem cells seeded on melt based chitosan scaffolds for bone tissue engineering applications. *Biomacromolecules*, **2009**, 10, 2067-73	6.9	109
28	The effect of chitosan on the in vitro biological performance of chitosan-poly(butylene succinate) blends. *Biomacromolecules*, **2008**, 9, 1139-45	6.9	49
27	Assessment of the suitability of chitosan/polybutylene succinate scaffolds seeded with mouse mesenchymal progenitor cells for a cartilage tissue engineering approach. *Tissue Engineering - Part A*, **2008**, 14, 1651-61	3.9	45
26	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
25	Electrospinning: processing technique for tissue engineering scaffolding. *International Materials Reviews*, **2008**, 53, 257-274	16.1	125
24	Hydrogels for spinal cord injury regeneration **2008**, 570-594		2
23	Processing of starch-based blends for biomedical applications **2008**, 85-105		1
22	Adhesion, Proliferation, and Osteogenic Differentiation of a Mouse Mesenchymal Stem Cell Line (BMC9) Seeded on Novel Melt-Based Chitosan/Polyester 3D Porous Scaffolds. *Tissue Engineering - Part A*, **2008**, 14, 1049-1057	3.9	64
21	Phenotypic and functional characterisation of ovine mesenchymal stem cells: application to a cartilage defect model. *Annals of the Rheumatic Diseases*, **2008**, 67, 288-95	2.4	88
20	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
19	Electrospun nanostructured scaffolds for tissue engineering applications. *Nanomedicine*, **2007**, 2, 929-42	5.6	161
18	Water absorption and degradation characteristics of chitosan-based polyesters and hydroxyapatite composites. *Macromolecular Bioscience*, **2007**, 7, 354-63	5.5	86
17	Tissue engineering using natural polymers **2007**, 197-217		3
16	Biodegradable nanomats produced by electrospinning: expanding multifunctionality and potential for tissue engineering. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 862-82	1.3	60
15	Patterning of polymer nanofiber meshes by electrospinning for biomedical applications. *International Journal of Nanomedicine*, **2007**, 2, 433-48	7.3	46

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