Nuno M Neves

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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.

193
papers7,641
citations47
h-index83
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ext. papers8,506
ext. citations6.3
avg, IF5.9
L-index

#	Paper	IF	Citations
193	Natural origin biodegradable systems in tissue engineering and regenerative medicine: present status and some moving trends. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 999-1030	4.1	843
192	Bioinert, biodegradable and injectable polymeric matrix composites for hard tissue replacement: state of the art and recent developments. <i>Composites Science and Technology</i> , 2004 , 64, 789-817	8.6	343
191	Modified Gellan Gum hydrogels with tunable physical and mechanical properties. <i>Biomaterials</i> , 2010 , 31, 7494-502	15.6	271
190	Scaffolds based bone tissue engineering: the role of chitosan. <i>Tissue Engineering - Part B: Reviews</i> , 2011 , 17, 331-47	7.9	248
189	Liposomes in tissue engineering and regenerative medicine. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140459	4.1	198
188	Properties of melt processed chitosan and aliphatic polyester blends. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 403, 57-68	5.3	197
187	Surface modification of electrospun polycaprolactone nanofiber meshes by plasma treatment to enhance biological performance. <i>Small</i> , 2009 , 5, 1195-206	11	196
186	Differential regulation of osteogenic differentiation of stem cells on surface roughness gradients. <i>Biomaterials</i> , 2014 , 35, 9023-32	15.6	194
185	Hierarchical starch-based fibrous scaffold for bone tissue engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009 , 3, 37-42	4.4	170
184	Electrospun nanostructured scaffolds for tissue engineering applications. <i>Nanomedicine</i> , 2007 , 2, 929-4	1 2 5.6	161
183	Osteogenic induction of hBMSCs by electrospun scaffolds with dexamethasone release functionality. <i>Biomaterials</i> , 2010 , 31, 5875-85	15.6	144
182	Cartilage tissue engineering using electrospun PCL nanofiber meshes and MSCs. <i>Biomacromolecules</i> , 2010 , 11, 3228-36	6.9	136
181	Electrospinning: processing technique for tissue engineering scaffolding. <i>International Materials Reviews</i> , 2008 , 53, 257-274	16.1	125
180	Antibacterial activity of chitosan nanofiber meshes with liposomes immobilized releasing gentamicin. <i>Acta Biomaterialia</i> , 2015 , 18, 196-205	10.8	122
179	Gellan gum injectable hydrogels for cartilage tissue engineering applications: in vitro studies and preliminary in vivo evaluation. <i>Tissue Engineering - Part A</i> , 2010 , 16, 343-53	3.9	120
178	Gellan gum: a new biomaterial for cartilage tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 852-63	5.4	111
177	Osteogenic differentiation of human bone marrow mesenchymal stem cells seeded on melt based chitosan scaffolds for bone tissue engineering applications. <i>Biomacromolecules</i> , 2009 , 10, 2067-73	6.9	109

176	Chitosan/polyester-based scaffolds for cartilage tissue engineering: assessment of extracellular matrix formation. <i>Acta Biomaterialia</i> , 2010 , 6, 1149-57	10.8	107
175	Osteogenic differentiation of human mesenchymal stem cells in the absence of osteogenic supplements: A surface-roughness gradient study. <i>Acta Biomaterialia</i> , 2015 , 28, 64-75	10.8	97
174	Development and characterization of a novel hybrid tissue engineering-based scaffold for spinal cord injury repair. <i>Tissue Engineering - Part A</i> , 2010 , 16, 45-54	3.9	96
173	The secretome of stem cells isolated from the adipose tissue and Wharton jelly acts differently on central nervous system derived cell populations. <i>Stem Cell Research and Therapy</i> , 2012 , 3, 18	8.3	88
172	Phenotypic and functional characterisation of ovine mesenchymal stem cells: application to a cartilage defect model. <i>Annals of the Rheumatic Diseases</i> , 2008 , 67, 288-95	2.4	88
171	Water absorption and degradation characteristics of chitosan-based polyesters and hydroxyapatite composites. <i>Macromolecular Bioscience</i> , 2007 , 7, 354-63	5.5	86
170	Development of new chitosan/carrageenan nanoparticles for drug delivery applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 92, 1265-72	5.4	85
169	Surface controlled biomimetic coating of polycaprolactone nanofiber meshes to be used as bone extracellular matrix analogues. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 1261-78	3.5	83
168	Melt-based compression-molded scaffolds from chitosan-polyester blends and composites: Morphology and mechanical properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 489-	-504	80
167	In vitro degradation and in vivo biocompatibility of chitosanpoly(butylene succinate) fiber mesh scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2014 , 29, 137-151	2	72
166	Instructive nanofibrous scaffold comprising runt-related transcription factor 2 gene delivery for bone tissue engineering. <i>ACS Nano</i> , 2014 , 8, 8082-94	16.7	69
165	Tissue engineering and regenerative medicine: past, present, and future. <i>International Review of Neurobiology</i> , 2013 , 108, 1-33	4.4	69
164	Optimized electro- and wet-spinning techniques for the production of polymeric fibrous scaffolds loaded with bisphosphonate and hydroxyapatite. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 253-63	4.4	67
163	Chondrogenic differentiation of human bone marrow mesenchymal stem cells in chitosan-based scaffolds using a flow-perfusion bioreactor. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 722-32	4.4	67
162	Processing ulvan into 2D structures: cross-linked ulvan membranes as new biomaterials for drug delivery applications. <i>International Journal of Pharmaceutics</i> , 2012 , 426, 76-81	6.5	66
161	Solving cell infiltration limitations of electrospun nanofiber meshes for tissue engineering applications. <i>Nanomedicine</i> , 2010 , 5, 539-54	5.6	64
160	Adhesion, Proliferation, and Osteogenic Differentiation of a Mouse Mesenchymal Stem Cell Line (BMC9) Seeded on Novel Melt-Based Chitosan/Polyester 3D Porous Scaffolds. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1049-1057	3.9	64
159	Endothelial differentiation of human stem cells seeded onto electrospun polyhydroxybutyrate/polyhydroxybutyrate-co-hydroxyvalerate fiber mesh. <i>PLoS ONE</i> , 2012 , 7, e35422	3.7	63

158	Biodegradable nanomats produced by electrospinning: expanding multifunctionality and potential for tissue engineering. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 862-82	1.3	60
157	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
156	The Key Role of Sulfation and Branching on Fucoidan Antitumor Activity. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600340	5.5	58
155	Chitosan-poly(butylene succinate) scaffolds and human bone marrow stromal cells induce bone repair in a mouse calvaria model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 21-8	4.4	58
154	Hydroxyapatite Reinforced Chitosan and Polyester Blends for Biomedical Applications. <i>Macromolecular Materials and Engineering</i> , 2005 , 290, 1157-1165	3.9	57
153	Performance of new gellan gum hydrogels combined with human articular chondrocytes for cartilage regeneration when subcutaneously implanted in nude mice. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009 , 3, 493-500	4.4	56
152	Extracellular Vesicles Derived from Osteogenically Induced Human Bone Marrow Mesenchymal Stem Cells Can Modulate Lineage Commitment. <i>Stem Cell Reports</i> , 2016 , 6, 284-91	8	55
151	Structure/mechanical behavior relationships in crossed-lamellar sea shells. <i>Materials Science and Engineering C</i> , 2005 , 25, 113-118	8.3	55
150	The morphology, mechanical properties and ageing behavior of porous injection molded starch-based blends for tissue engineering scaffolding. <i>Materials Science and Engineering C</i> , 2005 , 25, 195-200	8.3	55
149	Evaluation of extracellular matrix formation in polycaprolactone and starch-compounded polycaprolactone nanofiber meshes when seeded with bovine articular chondrocytes. <i>Tissue Engineering - Part A</i> , 2009 , 15, 377-85	3.9	54
148	Design of nano- and microfiber combined scaffolds by electrospinning of collagen onto starch-based fiber meshes: a man-made equivalent of natural extracellular matrix. <i>Tissue Engineering - Part A</i> , 2011 , 17, 463-73	3.9	51
147	The effect of chitosan on the in vitro biological performance of chitosan-poly(butylene succinate) blends. <i>Biomacromolecules</i> , 2008 , 9, 1139-45	6.9	49
146	Self-assembled Hydrogel Fiber Bundles from Oppositely Charged Polyelectrolytes Mimic Micro-/nanoscale Hierarchy of Collagen. <i>Advanced Functional Materials</i> , 2017 , 27, 1606273	15.6	47
145	Immobilization of bioactive factor-loaded liposomes on the surface of electrospun nanofibers targeting tissue engineering. <i>Biomaterials Science</i> , 2014 , 2, 1195-1209	7.4	46
144	Patterning of polymer nanofiber meshes by electrospinning for biomedical applications. <i>International Journal of Nanomedicine</i> , 2007 , 2, 433-48	7.3	46
143	Assessment of the suitability of chitosan/polybutylene succinate scaffolds seeded with mouse mesenchymal progenitor cells for a cartilage tissue engineering approach. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1651-61	3.9	45
142	A review on fucoidan antitumor strategies: From a biological active agent to a structural component of fucoidan-based systems. <i>Carbohydrate Polymers</i> , 2020 , 239, 116131	10.3	44
141	Calcium sequestration by fungal melanin inhibits calcium-calmodulin signalling to prevent LC3-associated phagocytosis. <i>Nature Microbiology</i> , 2018 , 3, 791-803	26.6	44

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140	The influence of patterned nanofiber meshes on human mesenchymal stem cell osteogenesis. <i>Macromolecular Bioscience</i> , 2011 , 11, 978-87	5.5	43
139	Fibers and 3D mesh scaffolds from biodegradable starch-based blends: production and characterization. <i>Macromolecular Bioscience</i> , 2004 , 4, 776-84	5.5	43
138	Osteogenic differentiation of two distinct subpopulations of human adipose-derived stem cells: an in vitro and in vivo study. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 1-11	4.4	42
137	Nanoparticle-based bioactive agent release systems for bone and cartilage tissue engineering. <i>Regenerative Therapy</i> , 2015 , 1, 109-118	3.7	41
136	Reinforcement of poly-l-lactic acid electrospun membranes with strontium borosilicate bioactive glasses for bone tissue engineering. <i>Acta Biomaterialia</i> , 2016 , 44, 168-77	10.8	41
135	Biodegradable nanofibers-reinforced microfibrous composite scaffolds for bone tissue engineering. <i>Tissue Engineering - Part A</i> , 2010 , 16, 3599-609	3.9	39
134	Microfabricated photocrosslinkable polyelectrolyte-complex of chitosan and methacrylated gellan gum. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17262-17271		38
133	On the effect of the fiber orientation on the flexural stiffness of injection molded short fiber reinforced polycarbonate plates. <i>Polymer Composites</i> , 1998 , 19, 640-651	3	38
132	Role of human umbilical cord mesenchymal progenitors conditioned media in neuronal/glial cell densities, viability, and proliferation. <i>Stem Cells and Development</i> , 2010 , 19, 1067-74	4.4	37
131	Degradable particulate composite reinforced with nanofibres for biomedical applications. <i>Acta Biomaterialia</i> , 2009 , 5, 1104-14	10.8	37
130	Hyaluronic acid/poly-l-lysine bilayered silica nanoparticles enhance the osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6939-6946	7.3	36
129	Unveiling the effects of the secretome of mesenchymal progenitors from the umbilical cord in different neuronal cell populations. <i>Biochimie</i> , 2013 , 95, 2297-303	4.6	36
128	Chondroitin sulfate immobilization at the surface of electrospun nanofiber meshes for cartilage tissue regeneration approaches. <i>Applied Surface Science</i> , 2017 , 403, 112-125	6.7	32
127	Performance of biodegradable microcapsules of poly(butylene succinate), poly(butylene succinate-co-adipate) and poly(butylene terephthalate-co-adipate) as drug encapsulation systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 84, 498-507	6	32
126	Expression, purification and osteogenic bioactivity of recombinant human BMP-4, -9, -10, -11 and -14. <i>Protein Expression and Purification</i> , 2009 , 63, 89-94	2	32
125	Entrapment ability and release profile of corticosteroids from starch-based microparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 73, 234-43	5.4	32
124	Gemcitabine delivered by fucoidan/chitosan nanoparticles presents increased toxicity over human breast cancer cells. <i>Nanomedicine</i> , 2018 , 13, 2037-2050	5.6	31
123	Conditioned medium as a strategy for human stem cells chondrogenic differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 714-23	4.4	30

122	Regulation of human mesenchymal stem cell osteogenesis by specific surface density of fibronectin: a gradient study. <i>ACS Applied Materials & Material</i>	9.5	29
121	Development of micropatterned surfaces of poly(butylene succinate) by micromolding for guided tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 1490-7	10.8	28
120	Fucoidan from Fucus vesiculosus inhibits new blood vessel formation and breast tumor growth in vivo. <i>Carbohydrate Polymers</i> , 2019 , 223, 115034	10.3	27
119	Biofunctional nanofibrous substrate comprising immobilized antibodies and selective binding of autologous growth factors. <i>Biomacromolecules</i> , 2014 , 15, 2196-205	6.9	27
118	Interleukin-6 Neutralization by Antibodies Immobilized at the Surface of Polymeric Nanoparticles as a Therapeutic Strategy for Arthritic Diseases. <i>ACS Applied Materials & Diseases</i> , 2018, 10, 1383	19-9 1 385	0 ²⁵
117	On the use of dexamethasone-loaded liposomes to induce the osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 1056-66	4.4	25
116	Novel melt-processable chitosan-polybutylene succinate fibre scaffolds for cartilage tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 773-88	3.5	24
115	Dynamic culture of osteogenic cells in biomimetically coated poly(caprolactone) nanofibre mesh constructs. <i>Tissue Engineering - Part A</i> , 2010 , 16, 557-63	3.9	22
114	Extracellular matrix electrospun membranes for mimicking natural renal filtration barriers. <i>Materials Science and Engineering C</i> , 2019 , 103, 109866	8.3	21
113	Spatial immobilization of endogenous growth factors to control vascularization in bone tissue engineering. <i>Biomaterials Science</i> , 2020 , 8, 2577-2589	7.4	21
112	Improvement of electrospun polymer fiber meshes pore size by femtosecond laser irradiation. <i>Applied Surface Science</i> , 2011 , 257, 4091-4095	6.7	21
111	Development of non-orthogonal 3D-printed scaffolds to enhance their osteogenic performance. <i>Biomaterials Science</i> , 2018 , 6, 1569-1579	7.4	20
110	Carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in central nervous systems-regenerative medicine: effects on neuron/glial cell viability and internalization efficiency. <i>Macromolecular Bioscience</i> , 2010 , 10, 1130-40	5.5	20
109	Soluble starch and composite starch Bioactive Glass 45S5 particles: Synthesis, bioactivity, and interaction with rat bone marrow cells. <i>Materials Science and Engineering C</i> , 2005 , 25, 237-246	8.3	20
108	Intrinsic Antibacterial Borosilicate Glasses for Bone Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1143-1150	5.5	19
107	Biodegradable polymers: an update on drug delivery in bone and cartilage diseases. <i>Expert Opinion on Drug Delivery</i> , 2019 , 16, 795-813	8	18
106	In vivo biodistribution of carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in rats. <i>Journal of Bioactive and Compatible Polymers</i> , 2011 , 26, 619-627	2	18
105	Melt processing of chitosan-based fibers and fiber-mesh scaffolds for the engineering of connective tissues. <i>Macromolecular Bioscience</i> , 2010 , 10, 1495-504	5.5	17

104	Bottom-up approach to construct microfabricated multi-layer scaffolds for bone tissue engineering. <i>Biomedical Microdevices</i> , 2014 , 16, 69-78	3.7	16	
103	Hierarchical scaffolds enhance osteogenic differentiation of human Wharton's jelly derived stem cells. <i>Biofabrication</i> , 2015 , 7, 035009	10.5	16	
102	Gradual pore formation in natural origin scaffolds throughout subcutaneous implantation. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 599-612	5.4	15	
101	Effects of Starch/ Polycaprolactone-based Blends for Spinal Cord Injury Regeneration in Neurons/Glial Cells Viability and Proliferation. <i>Journal of Bioactive and Compatible Polymers</i> , 2009 , 24, 235-248	2	15	
100	Engineering Enriched Microenvironments with Gradients of Platelet Lysate in Hydrogel Fibers. <i>Biomacromolecules</i> , 2016 , 17, 1985-97	6.9	15	
99	Automating the processing steps for obtaining bone tissue-engineered substitutes: from imaging tools to bioreactors. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 567-77	7.9	14	
98	Synergistic effect of scaffold composition and dynamic culturing environment in multilayered systems for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, e24-30	4.4	14	
97	High nonlinear optical anisotropy of urea nanofibers. <i>Europhysics Letters</i> , 2010 , 91, 28007	1.6	14	
96	Electrospun Nanofibrous Meshes Cultured With Wharton's Jelly Stem Cell: An Alternative for Cartilage Regeneration, Without the Need of Growth Factors. <i>Biotechnology Journal</i> , 2017 , 12, 1700073	5.6	13	
95	Chondrogenesis-inductive nanofibrous substrate using both biological fluids and mesenchymal stem cells from an autologous source. <i>Materials Science and Engineering C</i> , 2019 , 98, 1169-1178	8.3	12	
94	The use of birefringence for predicting the stiffness of injection molded polycarbonate discs. <i>Polymer Engineering and Science</i> , 1998 , 38, 1770-1777	2.3	12	
93	Biofunctionalized Liposomes to Monitor Rheumatoid Arthritis Regression Stimulated by Interleukin-23 Neutralization. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001570	10.1	12	
92	Phospholipid-induced silk fibroin hydrogels and their potential as cell carriers for tissue regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 160-172	4.4	11	
91	In vitro chondrogenic commitment of human Wharton's jelly stem cells by co-culture with human articular chondrocytes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1876-1887	4.4	10	
90	Electrospun colourimetric sensors for detecting volatile amines. <i>Sensors and Actuators B: Chemical</i> , 2020 , 322, 128570	8.5	10	
89	Fish sarcoplasmic proteins as a high value marine material for wound dressing applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 167, 310-317	6	10	
88	The Use of Electrospinning Technique on Osteochondral Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 247-263	3.6	10	
87	An automated two-phase system for hydrogel microbead production. <i>Biofabrication</i> , 2012 , 4, 035003	10.5	10	

86	Impact of biological agents and tissue engineering approaches on the treatment of rheumatic diseases. <i>Tissue Engineering - Part B: Reviews</i> , 2010 , 16, 331-9	7.9	10
85	Antioxidant and Anti-Inflammatory Activities of Cytocompatible Extracts: A Comparison between Traditional and Soxhlet Extraction. <i>Antioxidants</i> , 2020 , 9,	7.1	10
84	Decellularized Human Chorion Membrane as a Novel Biomaterial for Tissue Regeneration. <i>Biomolecules</i> , 2020 , 10,	5.9	10
83	Surface biofunctionalization to improve the efficacy of biomaterial substrates to be used in regenerative medicine. <i>Materials Horizons</i> , 2020 , 7, 2258-2275	14.4	9
82	Influence of PDLA nanoparticles size on drug release and interaction with cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 482-493	5.4	9
81	Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications. <i>Macromol</i> , 2021 , 1, 49-63		9
8o	Yicathins B and C and Analogues: Total Synthesis, Lipophilicity and Biological Activities. <i>ChemMedChem</i> , 2020 , 15, 749-755	3.7	8
79	Fibronectin Bound to a Fibrous Substrate Has Chondrogenic Induction Properties. <i>Biomacromolecules</i> , 2020 , 21, 1368-1378	6.9	8
78	Micro/Nano Scaffolds for Osteochondral Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 125-139	3.6	8
77	The functionalization of natural polymer-coated gold nanoparticles to carry bFGF to promote tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 2104-2115	7.3	8
76	The role of the interaction coefficient in the prediction of the fiber orientation in planar injection moldings. <i>Polymer Composites</i> , 2003 , 24, 358-366	3	8
75	Antibacterial activity testing methods for hydrophobic patterned surfaces. <i>Scientific Reports</i> , 2021 , 11, 6675	4.9	8
74	Influence of scaffold composition over in vitro osteogenic differentiation of hBMSCs and in vivo inflammatory response. <i>Journal of Biomaterials Applications</i> , 2014 , 28, 1430-42	2.9	7
73	Natural Origin Materials for Bone Tissue Engineering IProperties, Processing, and Performance 2011 , 557-586		7
72	In Vivo Evaluation of the Biocompatibility of Biomaterial Device. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1250, 109-124	3.6	7
71	Growing evidence supporting the use of mesenchymal stem cell therapies in multiple sclerosis: A systematic review. <i>Multiple Sclerosis and Related Disorders</i> , 2020 , 38, 101860	4	7
7º	Biofunctional Nanofibrous Substrate for Local TNF-Capturing as a Strategy to Control Inflammation in Arthritic Joints. <i>Nanomaterials</i> , 2019 , 9,	5.4	6
69	Dual release of a hydrophilic and a hydrophobic osteogenic factor from a single liposome. <i>RSC Advances</i> , 2016 , 6, 114599-114612	3.7	6

68	Micro- and Nanotechnology in Tissue Engineering 2011 , 3-29		6
67	Microparticulate release systems based on natural origin materials. <i>Advances in Experimental Medicine and Biology</i> , 2004 , 553, 283-300	3.6	6
66	Dual-functional liposomes for curcumin delivery and accelerating silk fibroin hydrogel formation. <i>International Journal of Pharmaceutics</i> , 2020 , 589, 119844	6.5	6
65	Tubular Fibrous Scaffolds Functionalized with Tropoelastin as a Small-Diameter Vascular Graft. <i>Biomacromolecules</i> , 2020 , 21, 3582-3595	6.9	6
64	Fucoidan/chitosan nanoparticles functionalized with anti-ErbB-2 target breast cancer cells and impair tumor growth in vivo. <i>International Journal of Pharmaceutics</i> , 2021 , 600, 120548	6.5	6
63	Glutathione Reductase-Sensitive Polymeric Micelles for Controlled Drug Delivery on Arthritic Diseases. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3229-3241	5.5	6
62	Decellularized kidney extracellular matrix bioinks recapitulate renal 3D microenvironment. <i>Biofabrication</i> , 2021 , 13,	10.5	6
61	Co-cultures of renal progenitors and endothelial cells on kidney decellularized matrices replicate the renal tubular environment in vitro. <i>Acta Physiologica</i> , 2020 , 230, e13491	5.6	5
60	Fucoidan Immobilized at the Surface of a Fibrous Mesh Presents Toxic Effects over Melanoma Cells, But Not over Noncancer Skin Cells. <i>Biomacromolecules</i> , 2020 , 21, 2745-2754	6.9	5
59	Bio-Inspired Integration of Natural Materials 2014 , 125-150		5
58	Precision biomaterials in cancer theranostics and modelling. <i>Biomaterials</i> , 2021 , 280, 121299	15.6	5
57	Sardine Roe as a Source of Lipids To Produce Liposomes. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1017-1029	5.5	5
56	Particulate kidney extracellular matrix: bioactivity and proteomic analysis of a novel scaffold from porcine origin. <i>Biomaterials Science</i> , 2021 , 9, 186-198	7.4	5
55	Surface modification of a biodegradable composite by UV laser ablation: in vitro biological performance. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010 , 4, 444-53	4.4	4
54	Microfluidic mixing system for precise PLGA-PEG nanoparticles size control. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 40, 102482	6	4
53	Modulating inflammation through the neutralization of Interleukin-6 and tumor necrosis factor-⊞ by biofunctionalized nanoparticles. <i>Journal of Controlled Release</i> , 2021 , 331, 491-502	11.7	4
52	Renal Regeneration: The Role of Extracellular Matrix and Current ECM-Based Tissue Engineered Strategies. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100160	10.1	4
51	Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. <i>Advanced Biology</i> , 2021 , 5, e2101019		4

50	Gellan Gum-based Hydrogels for Tissue Engineering Applications 2016 , 320-336		4
49	Testing Natural Biomaterials in Animal Models 2016 , 562-579		4
48	Exploring the Gelation Mechanisms and Cytocompatibility of Gold (III)-Mediated Regenerated and Thiolated Silk Fibroin Hydrogels. <i>Biomolecules</i> , 2020 , 10,	5.9	3
47	Delivery Systems Made of Natural-Origin Polymers for Tissue Engineering and Regenerative Medicine Applications 2016 , 581-611		3
46	Synthesis of polymer-based triglycine sulfate nanofibres by electrospinning. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 205403	3	3
45	Tissue engineering using natural polymers 2007 , 197-217		3
44	Arteriovenous access in hemodialysis: A multidisciplinary perspective for future solutions. <i>International Journal of Artificial Organs</i> , 2021 , 44, 3-16	1.9	3
43	RESTORE Survey on the Public Perception of Advanced Therapies and ATMPs in Europe-Why the European Union Should Invest More!. <i>Frontiers in Medicine</i> , 2021 , 8, 739987	4.9	3
42	A biocompatible and injectable hydrogel to boost the efficacy of stem cells in neurodegenerative diseases treatment. <i>Life Sciences</i> , 2021 , 287, 120108	6.8	3
41	Fibronectin-Functionalized Fibrous Meshes as a Substrate to Support Cultures of Thymic Epithelial Cells. <i>Biomacromolecules</i> , 2020 , 21, 4771-4780	6.9	3
40	Biomimetic and cell-based nanocarriers - New strategies for brain tumor targeting. <i>Journal of Controlled Release</i> , 2021 , 337, 482-493	11.7	3
39	Depth (Z-axis) control of cell morphologies on micropatterned surfaces. <i>Journal of Bioactive and Compatible Polymers</i> , 2015 , 30, 555-567	2	2
38	Advanced polymer composites and structures for bone and cartilage tissue engineering 2016 , 123-142		2
37	Starch-Based Blends in Tissue Engineering 2016 , 244-257		2
36	Challenges and Opportunities of Natural Biomaterials for Advanced Devices and Therapies 2016 , 629-6	33	2
35	Hydrogels for spinal cord injury regeneration 2008 , 570-594		2
34	Experimental Validation of Morphology Simulation in Glass Fibre Reinforced Polycarbonate Discs		2
33	Chondrogenic differentiation induced by extracellular vesicles bound to a nanofibrous substrate. <i>Npj Regenerative Medicine</i> , 2021 , 6, 79	15.8	2

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