Manuela E Gomes

List of Publications by Year in Descending Order

246 papers	10,829 citations	55 h-index	94 g-index
254 ext. papers	12,141 ext. citations	6.9 avg, IF	6.46 L-index

#	Paper	IF	Citations
246	Development and Characterization of Highly Stable Silver NanoParticles as Novel Potential Antimicrobial Agents for Wound Healing Hydrogels.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	3
245	The Tendon Microenvironment: Engineered In Vitro Models to Study Cellular Crosstalk.. *Advanced Drug Delivery Reviews*, **2022**, 114299	18.5	3
244	Highly elastic and bioactive bone biomimetic scaffolds based on platelet lysate and biomineralized cellulose nanocrystals. *Carbohydrate Polymers*, **2022**, 292, 119638	10.3	0
243	Evaluation of Injectable Hyaluronic Acid-Based Hydrogels for Endodontic Tissue Regeneration. *Materials*, **2021**, 14,	3.5	1
242	Epitope-imprinted polymers: Design principles of synthetic binding partners for natural biomacromolecules. *Science Advances*, **2021**, 7, eabi9884	14.3	4
241	Supplementary solvent irrigation efficacy on filling remnants removal comparing XP-endo Finisher R vs IrriSafe. *Scientific Reports*, **2021**, 11, 12659	4.9	2
240	In vitro temporal HIF-mediated deposition of osteochondrogenic matrix governed by hypoxia and osteogenic factors synergy. *Journal of Cellular Physiology*, **2021**, 236, 3991-4007	7	3
239	Platelet-Derived Products in Veterinary Medicine: A New Trend or an Effective Therapy?. *Trends in Biotechnology*, **2021**, 39, 225-243	15.1	6
238	Epitope-Imprinted Nanoparticles as Transforming Growth Factor-β Sequestering Ligands to Modulate Stem Cell Fate. *Advanced Functional Materials*, **2021**, 31, 2003934	15.6	10
237	Development and characterisation of cytocompatible polyester substrates with tunable mechanical properties and degradation rate. *Acta Biomaterialia*, **2021**, 121, 303-315	10.8	2
236	Injectable hyaluronic acid and platelet lysate-derived granular hydrogels for biomedical applications. *Acta Biomaterialia*, **2021**, 119, 101-113	10.8	11
235	Magnetic triggers in biomedical applications - prospects for contact free cell sensing and guidance. *Journal of Materials Chemistry B*, **2021**, 9, 1259-1271	7.3	0
234	Engineering next-generation bioinks with nanoparticles: moving from reinforcement fillers to multifunctional nanoelements. *Journal of Materials Chemistry B*, **2021**, 9, 5025-5038	7.3	12
233	Magnetic Nanocomposite Hydrogels for Tissue Engineering: Design Concepts and Remote Actuation Strategies to Control Cell Fate. *ACS Nano*, **2021**, 15, 175-209	16.7	34
232	Multiscale Multifactorial Approaches for Engineering Tendon Substitutes. *Reference Series in Biomedical Engineering*, **2021**, 507-530		
231	Multifunctional Surfaces for Improving Soft Tissue Integration. *Advanced Healthcare Materials*, **2021**, 10, e2001985	10.1	4
230	Hyaluronic Acid Oligomer Immobilization as an Angiogenic Trigger for the Neovascularization of TE Constructs.. *ACS Applied Bio Materials*, **2021**, 4, 6023-6035	4.1	0

229	Human Platelet Lysate-Loaded Poly(ethylene glycol) Hydrogels Induce Stem Cell Chemotaxis. *Biomacromolecules*, **2021**, 22, 3486-3496	6.9	6
228	Decellularized kidney extracellular matrix bioinks recapitulate renal 3D microenvironment. *Biofabrication*, **2021**, 13,	10.5	6
227	Human tendon-derived cell sheets created by magnetic force-based tissue engineering hold tenogenic and immunomodulatory potential. *Acta Biomaterialia*, **2021**, 131, 236-247	10.8	3
226	Texturing Hierarchical Tissues by Gradient Assembling of Microengineered Platelet-Lysates Activated Fibers.. *Advanced Healthcare Materials*, **2021**, e2102076	10.1	1
225	Cellulose nanocrystals of variable sulfation degrees can sequester specific platelet lysate-derived biomolecules to modulate stem cell response. *Chemical Communications*, **2020**, 56, 6882-6885	5.8	5
224	Biomaterials for Sequestration of Growth Factors and Modulation of Cell Behavior. *Advanced Functional Materials*, **2020**, 30, 1909011	15.6	26
223	Remote triggering of TGF-β/Smad2/3 signaling in human adipose stem cells laden on magnetic scaffolds synergistically promotes tenogenic commitment. *Acta Biomaterialia*, **2020**, 113, 488-500	10.8	4
222	Three-dimensional self-assembling nanofiber matrix rejuvenates aged/degenerative human tendon stem/progenitor cells. *Biomaterials*, **2020**, 236, 119802	15.6	18
221	Evaluation of hematology, general serum biochemistry, bone turnover markers and bone marrow cytology in a glucocorticoid treated ovariectomized sheep model for osteoporosis research. *Anais Da Academia Brasileira De Ciencias*, **2020**, 92, e20200435	1.4	0
220	Magnetic biomaterials and nano-instructive tools as mediators of tendon mechanotransduction. *Nanoscale Advances*, **2020**, 2, 140-148	5.1	14
219	Platelet-rich Blood Derivatives for Tendon Regeneration. *Journal of the American Academy of Orthopaedic Surgeons, The*, **2020**, 28, e202-e205	4.5	4
218	Bioinspired materials and tissue engineering approaches applied to the regeneration of musculoskeletal tissues **2020**, 73-105		
217	Pulsed Electromagnetic Field Modulates Tendon Cells Response in IL-1β Conditioned Environment. *Journal of Orthopaedic Research*, **2020**, 38, 160-172	3.8	7
216	Magnetic responsive materials modulate the inflammatory profile of IL-1β conditioned tendon cells. *Acta Biomaterialia*, **2020**, 117, 235-245	10.8	8
215	Multiscale Multifactorial Approaches for Engineering Tendon Substitutes **2020**, 1-24		
214	Toward Spinning Greener Advanced Silk Fibers by Feeding Silkworms with Nanomaterials. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11872-11887	8.3	7
213	Natural Materials **2020**, 361-375		
212	Tissue engineering strategies for the treatment of skeletal maxillofacial defects resulting from neoplasms resections **2020**, 697-730		

211	Intrinsically Bioactive Cryogels Based on Platelet Lysate Nanocomposites for Hemostasis Applications. *Biomacromolecules*, **2020**, 21, 3678-3692	6.9	13
210	Magnetic Stimulation Drives Macrophage Polarization in Cell to-Cell Communication with IL-1 Primed Tendon Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
209	Effect of Sonic Agitation of a Binary Mixture of Solvents on Filling Remnants Removal as an Alternative to Apical Enlargement-A Micro-CT Study. *Journal of Clinical Medicine*, **2020**, 9,	5.1	4
208	Natural-Based Hydrogels for Tissue Engineering Applications. *Molecules*, **2020**, 25,	4.8	22
207	A Physiology-Inspired Multifactorial Toolbox in Soft-to-Hard Musculoskeletal Interface Tissue Engineering. *Trends in Biotechnology*, **2020**, 38, 83-98	15.1	23
206	Magneto-mechanical actuation of magnetic responsive fibrous scaffolds boosts tenogenesis of human adipose stem cells. *Nanoscale*, **2019**, 11, 18255-18271	7.7	38
205	Antimicrobial coating of spider silk to prevent bacterial attachment on silk surgical sutures. *Acta Biomaterialia*, **2019**, 99, 236-246	10.8	34
204	Metabolic Disease Epidemics: Emerging Challenges in Regenerative Medicine. *Trends in Endocrinology and Metabolism*, **2019**, 30, 147-149	8.8	6
203	Mesenchymal Stem Cells Empowering Tendon Regenerative Therapies. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	54
202	A Textile Platform Using Continuous Aligned and Textured Composite Microfibers to Engineer Tendon-to-Bone Interface Gradient Scaffolds. *Advanced Healthcare Materials*, **2019**, 8, e1900200	10.1	38
201	Tropoelastin-Coated Tendon Biomimetic Scaffolds Promote Stem Cell Tenogenic Commitment and Deposition of Elastin-Rich Matrix. *ACS Applied Materials & Interfaces*, **2019**, 11, 19830-19840	9.5	23
200	Enthesis Tissue Engineering: Biological Requirements Meet at the Interface. *Tissue Engineering - Part B: Reviews*, **2019**, 25, 330-356	7.9	24
199	Exploring platelet lysate hydrogel-coated suture threads as biofunctional composite living fibers for cell delivery in tissue repair. *Biomedical Materials (Bristol)*, **2019**, 14, 034104	3.5	11
198	Injectable and Magnetic Responsive Hydrogels with Bioinspired Ordered Structures. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1392-1404	5.5	34
197	Tuneable cellulose nanocrystal and tropoelastin-laden hyaluronic acid hydrogels. *Journal of Biomaterials Applications*, **2019**, 34, 560-572	2.9	2
196	Evaluation of tenogenic differentiation potential of selected subpopulations of human adipose-derived stem cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2019**, 13, 2204-2217	4.4	7
195	Future Directions: What the Future Holds for TERM **2019**, 1-1		
194	Biphasic Hydrogels Integrating Mineralized and Anisotropic Features for Interfacial Tissue Engineering. *ACS Applied Materials & Interfaces*, **2019**, 11, 47771-47784	9.5	27

193	Cellular Complexity at the Interface: Challenges in Enthesis Tissue Engineering. *Advances in Experimental Medicine and Biology*, **2019**, 1144, 71-90	3.6	11
192	Human platelet lysate-based nanocomposite bioink for bioprinting hierarchical fibrillar structures. *Biofabrication*, **2019**, 12, 015012	10.5	32
191	Triggering the activation of Activin A type II receptor in human adipose stem cells towards tenogenic commitment using mechanomagnetic stimulation. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 1149-1159	6	20
190	Preclinical and Translational Studies in Small Ruminants (Sheep and Goat) as Models for Osteoporosis Research. *Current Osteoporosis Reports*, **2018**, 16, 182-197	5.4	17
189	Supercritical Fluid Technology as a Tool to Prepare Gradient Multifunctional Architectures Towards Regeneration of Osteochondral Injuries. *Advances in Experimental Medicine and Biology*, **2018**, 1058, 265-278	3.6	2
188	Engineering magnetically responsive tropoelastin spongy-like hydrogels for soft tissue regeneration. *Journal of Materials Chemistry B*, **2018**, 6, 1066-1075	7.3	9
187	The effects of platelet lysate patches on the activity of tendon-derived cells. *Acta Biomaterialia*, **2018**, 68, 29-40	10.8	17
186	Blood derivatives awaken in regenerative medicine strategies to modulate wound healing. *Advanced Drug Delivery Reviews*, **2018**, 129, 376-393	18.5	38
185	Continuous Exposure to Simulated Hypergravity-Induced Changes in Proliferation, Morphology, and Gene Expression of Human Tendon Cells. *Stem Cells and Development*, **2018**, 27, 858-869	4.4	9
184	Multifunctional magnetic-responsive hydrogels to engineer tendon-to-bone interface. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 2375-2385	6	49
183	Human adipose tissue-derived tenomodulin positive subpopulation of stem cells: A promising source of tendon progenitor cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 762-774	4.4	25
182	Evaluation of a platelet lysate bilayered system for periodontal regeneration in a rat intrabony three-wall periodontal defect. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1277-e1288	4.4	10
181	3D Functional scaffolds for dental tissue engineering **2018**, 423-450		2
180	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. *Acta Biomaterialia*, **2018**, 77, 155-171	10.8	66
179	Magnetotherapy: The quest for tendon regeneration. *Journal of Cellular Physiology*, **2018**, 233, 6395-6405	4	8
178	Bi-directional modulation of cellular interactions in an in vitro co-culture model of tendon-to-bone interface. *Cell Proliferation*, **2018**, 51, e12493	7.9	11
177	Hyaluronic acid hydrogels incorporating platelet lysate enhance human pulp cell proliferation and differentiation. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 88	4.5	26
176	Strontium-Doped Bioactive Glass Nanoparticles in Osteogenic Commitment. *ACS Applied Materials & Interfaces*, **2018**, 10, 23311-23320	9.5	37

175	Tendon explant cultures to study the communication between adipose stem cells and native tendon niche. *Journal of Cellular Biochemistry*, **2018**, 119, 3653-3662	4.7	17
174	Crosstalk between adipose stem cells and tendon cells reveals a temporal regulation of tenogenesis by matrix deposition and remodeling. *Journal of Cellular Physiology*, **2018**, 233, 5383-5395	7	15
173	Cell-laden composite suture threads for repairing damaged tendons. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1039-1048	4.4	20
172	Gravity, Tissue Engineering, and the Missing Link. *Trends in Biotechnology*, **2018**, 36, 343-347	15.1	5
171	Exploring inhalable polymeric dry powders for anti-tuberculosis drug delivery. *Materials Science and Engineering C*, **2018**, 93, 1090-1103	8.3	15
170	Human-based fibrillar nanocomposite hydrogels as bioinstructive matrices to tune stem cell behavior. *Nanoscale*, **2018**, 10, 17388-17401	7.7	28
169	Magnetic responsive cell-based strategies for diagnostics and therapeutics. *Biomedical Materials (Bristol)*, **2018**, 13, 054001	3.5	17
168	Development of Inhalable Superparamagnetic Iron Oxide Nanoparticles (SPIONs) in Microparticulate System for Antituberculosis Drug Delivery. *Advanced Healthcare Materials*, **2018**, 7, e1800124	10.1	25
167	Bioengineered surgical repair of a chronic oronasal fistula in a cat using autologous platelet-rich fibrin and bone marrow with a tailored 3D printed implant. *Journal of Feline Medicine and Surgery*, **2018**, 20, 835-843	2.3	8
166	Interactive endothelial phenotype maintenance and osteogenic differentiation of adipose tissue stromal vascular fraction SSEA-4 -derived cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1998-2013	4.4	6
165	Periodontal tissue engineering: current strategies and the role of platelet rich hemoderivatives. *Journal of Materials Chemistry B*, **2017**, 5, 3617-3628	7.3	19
164	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
163	Tissue Engineering and Regenerative Medicine: New Trends and Directions-A Year in Review. *Tissue Engineering - Part B: Reviews*, **2017**, 23, 211-224	7.9	106
162	3D Mimicry of Native-Tissue-Fiber Architecture Guides Tendon-Derived Cells and Adipose Stem Cells into Artificial Tendon Constructs. *Small*, **2017**, 13, 1700689	11	74
161	Evaluation of bone turnover markers and serum minerals variations for predicting fracture healing versus non-union processes in adult sheep as a model for orthopedic research. *Injury*, **2017**, 48, 1768-1775	2.5	9
160	Platelet Lysate-Loaded Photocrosslinkable Hyaluronic Acid Hydrogels for Periodontal Endogenous Regenerative Technology. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1359-1369	5.5	24
159	Uncovering the effect of low-frequency static magnetic field on tendon-derived cells: from mechanosensing to tenogenesis. *Scientific Reports*, **2017**, 7, 10948	4.9	8
158	Tissue-engineered magnetic cell sheet patches for advanced strategies in tendon regeneration. *Acta Biomaterialia*, **2017**, 63, 110-122	10.8	44

157	Self-assembled Hydrogel Fiber Bundles from Oppositely Charged Polyelectrolytes Mimic Micro-/nanoscale Hierarchy of Collagen. *Advanced Functional Materials*, **2017**, 27, 1606273	15.6	47
156	Microengineered Multicomponent Hydrogel Fibers: Combining Polyelectrolyte Complexation and Microfluidics. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1322-1331	5.5	35
155	Molecularly Imprinted Intelligent Scaffolds for Tissue Engineering Applications. *Tissue Engineering - Part B: Reviews*, **2017**, 23, 27-43	7.9	32
154	Biomaterials as Tendon and Ligament Substitutes: Current Developments. *Studies in Mechanobiology, Tissue Engineering and Biomaterials*, **2017**, 349-371	0.5	12
153	A Radially Organized Multipatterned Device as a Diagnostic Tool for the Screening of Topographies in Tissue Engineering Biomaterials. *Tissue Engineering - Part C: Methods*, **2016**, 22, 914-22	2.9	4
152	Assessment of bone healing ability of calcium phosphate cements loaded with platelet lysate in rat calvarial defects. *Journal of Biomaterials Applications*, **2016**, 31, 637-649	2.9	9
151	Production and characterization of hyaluronic acid microparticles for the controlled delivery of growth factors using a spray/dehydration method. *Journal of Biomaterials Applications*, **2016**, 31, 693-707	2.9	14
150	Effects of hypergravity on the angiogenic potential of endothelial cells. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	10
149	Starch-Based Blends in Tissue Engineering **2016**, 244-257		2
148	In vitro and in vivo assessment of magnetically actuated biomaterials and prospects in tendon healing. *Nanomedicine*, **2016**, 11, 1107-22	5.6	16
147	Design and characterization of a biodegradable double-layer scaffold aimed at periodontal tissue-engineering applications. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 392-403	4.4	25
146	Current approaches and future perspectives on strategies for the development of personalized tissue engineering therapies. *Expert Review of Precision Medicine and Drug Development*, **2016**, 1, 93-108	1.6	35
145	Platelet lysate-based pro-angiogenic nanocoatings. *Acta Biomaterialia*, **2016**, 32, 129-137	10.8	23
144	CHAPTER 18:Magnetic-Responsive Materials for Tissue Engineering and Regenerative Medicine. *RSC Smart Materials*, **2016**, 491-519	0.6	3
143	Magnetically-Responsive Hydrogels for Modulation of Chondrogenic Commitment of Human Adipose-Derived Stem Cells. *Polymers*, **2016**, 8,	4.5	29
142	Bioengineered Strategies for Tendon Regeneration **2016**, 275-293		1
141	Exploring the Potential of Starch/Polycaprolactone Aligned Magnetic Responsive Scaffolds for Tendon Regeneration. *Advanced Healthcare Materials*, **2016**, 5, 213-22	10.1	40
140	Hydrogels in Bone Tissue Engineering: A Multi-Parametric Approach **2016**, 165-197		1

139	Enhancing the Biomechanical Performance of Anisotropic Nanofibrous Scaffolds in Tendon Tissue Engineering: Reinforcement with Cellulose Nanocrystals. *Advanced Healthcare Materials*, **2016**, 5, 1364-75	10.1	72
138	Engineering Enriched Microenvironments with Gradients of Platelet Lysate in Hydrogel Fibers. *Biomacromolecules*, **2016**, 17, 1985-97	6.9	15
137	The Role of a Platelet Lysate-Based Compartmentalized System as a Carrier of Cells and Platelet-Origin Cytokines for Periodontal Tissue Regeneration. *Tissue Engineering - Part A*, **2016**, 22, 1164-1175	3.9	13
136	Development of an Injectable Calcium Phosphate/Hyaluronic Acid Microparticles System for Platelet Lysate Sustained Delivery Aiming Bone Regeneration. *Macromolecular Bioscience*, **2016**, 16, 1662-1677	5.5	19
135	Harnessing magnetic-mechano actuation in regenerative medicine and tissue engineering. *Trends in Biotechnology*, **2015**, 33, 471-9	15.1	66
134	Cell engineering by the internalization of bioinstructive micelles for enhanced bone regeneration. *Nanomedicine*, **2015**, 10, 1707-21	5.6	10
133	The effect of magnetic stimulation on the osteogenic and chondrogenic differentiation of human stem cells derived from the adipose tissue (hASCs). *Journal of Magnetism and Magnetic Materials*, **2015**, 393, 526-536	2.8	17
132	Development of Injectable Hyaluronic Acid/Cellulose Nanocrystals Bionanocomposite Hydrogels for Tissue Engineering Applications. *Bioconjugate Chemistry*, **2015**, 26, 1571-81	6.3	138
131	Natural assembly of platelet lysate-loaded nanocarriers into enriched 3D hydrogels for cartilage regeneration. *Acta Biomaterialia*, **2015**, 19, 56-65	10.8	32
130	Combinatorial Effect of Silicon and Calcium Release from Starch-Based Scaffolds on Osteogenic Differentiation of Human Adipose Stem Cells. *ACS Biomaterials Science and Engineering*, **2015**, 1, 760-770	5.5	11
129	Biomaterials in Preclinical Approaches for Engineering Skeletal Tissues **2015**, 127-139		3
128	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
127	Fabrication of Hierarchical and Biomimetic Fibrous Structures to Support the Regeneration of Tendon Tissues **2015**, 259-280		5
126	Bone turnover markers for early detection of fracture healing disturbances: A review of the scientific literature. *Anais Da Academia Brasileira De Ciencias*, **2015**, 87, 1049-61	1.4	37
125	Additively Manufactured Device for Dynamic Culture of Large Arrays of 3D Tissue Engineered Constructs. *Advanced Healthcare Materials*, **2015**, 4, 864-73	10.1	16
124	Layer-by-layer assembled cell instructive nanocoatings containing platelet lysate. *Biomaterials*, **2015**, 48, 56-65	15.6	44
123	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
122	Cell-Based Approaches for Tendon Regeneration **2015**, 187-203		4

121	Functionalized Microparticles Producing Scaffolds in Combination with Cells. *Advanced Functional Materials*, **2014**, 24, 1391-1400	15.6	31
120	Undifferentiated human adipose-derived stromal/stem cells loaded onto wet-spun starch-polycaprolactone scaffolds enhance bone regeneration: nude mice calvarial defect in vivo study. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 3102-11	5.4	44
119	Use of perfusion bioreactors and large animal models for long bone tissue engineering. *Tissue Engineering - Part B: Reviews*, **2014**, 20, 126-46	7.9	42
118	The osteogenic differentiation of SSEA-4 sub-population of human adipose derived stem cells using silicate nanoplatelets. *Biomaterials*, **2014**, 35, 9087-99	15.6	83
117	Fabrication of endothelial cell-laden carrageenan microfibers for microvascularized bone tissue engineering applications. *Biomacromolecules*, **2014**, 15, 2849-60	6.9	41
116	A tissue engineering approach for periodontal regeneration based on a biodegradable double-layer scaffold and adipose-derived stem cells. *Tissue Engineering - Part A*, **2014**, 20, 2483-92	3.9	39
115	Evaluation of the in vitro and in vivo biocompatibility of carrageenan-based hydrogels. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 4087-97	5.4	45
114	Evaluation of a starch-based double layer scaffold for bone regeneration in a rat model. *Journal of Orthopaedic Research*, **2014**, 32, 904-9	3.8	26
113	Amphiphilic beads as depots for sustained drug release integrated into fibrillar scaffolds. *Journal of Controlled Release*, **2014**, 187, 66-73	11.7	56
112	The potential of cellulose nanocrystals in tissue engineering strategies. *Biomacromolecules*, **2014**, 15, 2327-46	6.9	344
111	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
110	Biofabrication of customized bone grafts by combination of additive manufacturing and bioreactor knowhow. *Biofabrication*, **2014**, 6, 035006	10.5	40
109	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
108	Short-term variability in biomarkers of bone metabolism in sheep. *Lab Animal*, **2014**, 43, 21-6	0.4	3
107	Serum total and bone alkaline phosphatase levels and their correlation with serum minerals over the lifespan of sheep. *Acta Veterinaria Hungarica*, **2014**, 62, 205-14	1	4
106	Platelet lysate membranes as new autologous templates for tissue engineering applications. *Inflammation and Regeneration*, **2014**, 34, 033-044	10.9	25
105	Membranes for periodontal tissues regeneration. *Ciência & Tecnologia Dos Materiais*, **2014**, 26, 108-117		6
104	Assessing the repair of critical size bone defects performed in a goat tibia model using tissue-engineered constructs cultured in a bidirectional flow perfusion bioreactor. *Journal of Biomaterials Applications*, **2014**, 29, 172-185	2.9	4

103	Periodontal tissue engineering strategies based on nonoral stem cells. *Anatomical Record*, **2014**, 297, 6-15	2.1	6
102	Engineering tendon and ligament tissues: present developments towards successful clinical products. *Journal of Tissue Engineering and Regenerative Medicine*, **2013**, 7, 673-86	4.4	104
101	Silk hydrogels from non-mulberry and mulberry silkworm cocoons processed with ionic liquids. *Acta Biomaterialia*, **2013**, 9, 8972-82	10.8	64
100	Contributions and future perspectives on the use of magnetic nanoparticles as diagnostic and therapeutic tools in the field of regenerative medicine. *Expert Review of Molecular Diagnostics*, **2013**, 13, 553-66	3.8	27
99	Osteogenic properties of starch poly(Ɛcaprolactone) (SPCL) fiber meshes loaded with osteoblast-like cells in a rat critical-sized cranial defect. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 3059-65	5.4	9
98	Cryopreservation of cell laden natural origin hydrogels for cartilage regeneration strategies. *Soft Matter*, **2013**, 9, 875-885	3.6	29
97	Photocrosslinkable kappa-carrageenan hydrogels for tissue engineering applications. *Advanced Healthcare Materials*, **2013**, 2, 895-907	10.1	140
96	Controlled release strategies for bone, cartilage, and osteochondral engineering--Part I: recapitulation of native tissue healing and variables for the design of delivery systems. *Tissue Engineering - Part B: Reviews*, **2013**, 19, 308-26	7.9	109
95	Human adipose tissue-derived SSEA-4 subpopulation multi-differentiation potential towards the endothelial and osteogenic lineages. *Tissue Engineering - Part A*, **2013**, 19, 235-46	3.9	36
94	Xenofree enzymatic products for the isolation of human adipose-derived stromal/stem cells. *Tissue Engineering - Part C: Methods*, **2013**, 19, 473-8	2.9	39
93	Asymmetric PDLLA membranes containing Bioglass for guided tissue regeneration: characterization and in vitro biological behavior. *Dental Materials*, **2013**, 29, 427-36	5.7	46
92	Controlled release strategies for bone, cartilage, and osteochondral engineering--Part II: challenges on the evolution from single to multiple bioactive factor delivery. *Tissue Engineering - Part B: Reviews*, **2013**, 19, 327-52	7.9	91
91	Bioactive silicate nanoplatelets for osteogenic differentiation of human mesenchymal stem cells. *Advanced Materials*, **2013**, 25, 3329-36	24	365
90	An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. *Acta Biomaterialia*, **2013**, 9, 6790-7	10.8	98
89	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
88	Nanomaterials for engineering vascularized tissues **2013**, 229-246		1
87	A novel bidirectional continuous perfusion bioreactor for the culture of large-sized bone tissue-engineered constructs. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 1377-86	3.5	26
86	Chondrogenic potential of two hASCs subpopulations loaded onto gellan gum hydrogel evaluated in a nude mice model. *Current Stem Cell Research and Therapy*, **2013**, 8, 357-64	3.6	12

85	Understanding the role of growth factors in modulating stem cell tenogenesis. *PLoS ONE*, **2013**, 8, e83734	3.7	76
84	Adipose Tissue-Derived MSCs: Moving to the Clinic **2013**, 663-681		
83	The effect of differentiation stage of amniotic fluid stem cells on bone regeneration. *Biomaterials*, **2012**, 33, 6069-78	15.6	37
82	Enhancement of osteogenic differentiation of human adipose derived stem cells by the controlled release of platelet lysates from hybrid scaffolds produced by supercritical fluid foaming. *Journal of Controlled Release*, **2012**, 162, 19-27	11.7	67
81	An automated two-phase system for hydrogel microbead production. *Biofabrication*, **2012**, 4, 035003	10.5	10
80	Amniotic fluid-derived stem cells as a cell source for bone tissue engineering. *Tissue Engineering - Part A*, **2012**, 18, 2518-27	3.9	39
79	Cryopreservation of cell/scaffold tissue-engineered constructs. *Tissue Engineering - Part C: Methods*, **2012**, 18, 852-8	2.9	42
78	Bilayered constructs aimed at osteochondral strategies: the influence of medium supplements in the osteogenic and chondrogenic differentiation of amniotic fluid-derived stem cells. *Acta Biomaterialia*, **2012**, 8, 2795-806	10.8	47
77	Chitosan/bioactive glass nanoparticle composite membranes for periodontal regeneration. *Acta Biomaterialia*, **2012**, 8, 4173-80	10.8	170
76	From nano- to macro-scale: nanotechnology approaches for spatially controlled delivery of bioactive factors for bone and cartilage engineering. *Nanomedicine*, **2012**, 7, 1045-66	5.6	47
75	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. *Biomatter*, **2012**, 2, 278-89		122
74	Effect of anatomical origin and cell passage number on the stemness and osteogenic differentiation potential of canine adipose-derived stem cells. *Stem Cell Reviews and Reports*, **2012**, 8, 1211-22	6.4	50
73	Bioactive starch-based scaffolds and human adipose stem cells are a good combination for bone tissue engineering. *Acta Biomaterialia*, **2012**, 8, 3765-76	10.8	57
72	Microfabricated photocrosslinkable polyelectrolyte-complex of chitosan and methacrylated gellan gum. *Journal of Materials Chemistry*, **2012**, 22, 17262-17271		38
71	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
70	Chitosan-chondroitin sulphate nanoparticles for controlled delivery of platelet lysates in bone regenerative medicine. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6 Suppl 3, s47-59	4.4	80
69	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
68	Chondrogenic phenotype of different cells encapsulated in κ-carrageenan hydrogels for cartilage regeneration strategies. *Biotechnology and Applied Biochemistry*, **2012**, 59, 132-41	2.8	57

67	Development of micropatterned surfaces of poly(butylene succinate) by micromolding for guided tissue engineering. *Acta Biomaterialia*, **2012**, 8, 1490-7	10.8	28
66	Cell delivery systems using alginate--carrageenan hydrogel beads and fibers for regenerative medicine applications. *Biomacromolecules*, **2011**, 12, 3952-61	6.9	135
65	Micro- and Nanotechnology in Tissue Engineering **2011**, 3-29		6
64	Use of animal protein-free products for passaging adherent human adipose-derived stromal/stem cells. *Cytotherapy*, **2011**, 13, 594-7	4.8	27
63	Cell adhesion and proliferation onto chitosan-based membranes treated by plasma surface modification. *Journal of Biomaterials Applications*, **2011**, 26, 101-16	2.9	63
62	Serum total and bone alkaline phosphatase and tartrate-resistant acid phosphatase activities for the assessment of bone fracture healing in dogs. *Arquivo Brasileiro De Medicina Veterinaria E Zootecnia*, **2011**, 63, 1007-1011	0.3	8
61	Current strategies for osteochondral regeneration: from stem cells to pre-clinical approaches. *Current Opinion in Biotechnology*, **2011**, 22, 726-33	11.4	47
60	Distinct stem cells subpopulations isolated from human adipose tissue exhibit different chondrogenic and osteogenic differentiation potential. *Stem Cell Reviews and Reports*, **2011**, 7, 64-76	6.4	132
59	Tissue-engineered constructs based on SPCL scaffolds cultured with goat marrow cells: functionality in femoral defects. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, 41-9	4.4	37
58	In situ functionalization of wet-spun fibre meshes for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, 104-11	4.4	34
57	A novel method for the isolation of subpopulations of rat adipose stem cells with different proliferation and osteogenic differentiation potentials. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, 655-64	4.4	23
56	Rapid vascularization of starch-poly(caprolactone) in vivo by outgrowth endothelial cells in co-culture with primary osteoblasts. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, e136-43	4.4	55
55	Effect of flow perfusion conditions in the chondrogenic differentiation of bone marrow stromal cells cultured onto starch based biodegradable scaffolds. *Acta Biomaterialia*, **2011**, 7, 1644-52	10.8	37
54	The effect of storage time on adipose-derived stem cell recovery from human lipoaspirates. *Cells Tissues Organs*, **2011**, 194, 494-500	2.1	43
53	Tartrate-resistant acid phosphatase as a biomarker of bone turnover in dog. *Arquivo Brasileiro De Medicina Veterinaria E Zootecnia*, **2011**, 63, 40-45	0.3	6
52	Dynamic culture of osteogenic cells in biomimetically coated poly(caprolactone) nanofibre mesh constructs. *Tissue Engineering - Part A*, **2010**, 16, 557-63	3.9	22
51	Cartilage tissue engineering using electrospun PCL nanofiber meshes and MSCs. *Biomacromolecules* , **2010**, 11, 3228-36	6.9	136
50	Development of a Novel Cell Encapsulation System Based on Natural Origin Polymers for Tissue Engineering Applications. *Journal of Bioactive and Compatible Polymers*, **2010**, 25, 341-359	2	15

49	Development of new chitosan/carrageenan nanoparticles for drug delivery applications. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 1265-72	5.4	85
48	Modified Gellan Gum hydrogels with tunable physical and mechanical properties. *Biomaterials*, **2010**, 31, 7494-502	15.6	271
47	A new route to produce starch-based fiber mesh scaffolds by wet spinning and subsequent surface modification as a way to improve cell attachment and proliferation. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 369-77	5.4	50
46	Differentiation of mesenchymal stem cells in chitosan scaffolds with double micro and macroporosity. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 1182-93	5.4	37
45	Injectable gellan gum hydrogels with autologous cells for the treatment of rabbit articular cartilage defects. *Journal of Orthopaedic Research*, **2010**, 28, 1193-9	3.8	103
44	Hybrid 3D structure of poly(d,l-lactic acid) loaded with chitosan/chondroitin sulfate nanoparticles to be used as carriers for biomacromolecules in tissue engineering. *Journal of Supercritical Fluids*, **2010**, 54, 320-327	4.2	55
43	The role of lipase and alpha-amylase in the degradation of starch/poly(epsilon-caprolactone) fiber meshes and the osteogenic differentiation of cultured marrow stromal cells. *Tissue Engineering - Part A*, **2009**, 15, 295-305	3.9	44
42	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
41	Proliferation and differentiation of goat bone marrow stromal cells in 3D scaffolds with tunable hydrophilicity. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 277-86	3.5	49
40	Contribution of outgrowth endothelial cells from human peripheral blood on in vivo vascularization of bone tissue engineered constructs based on starch polycaprolactone scaffolds. *Biomaterials*, **2009**, 30, 526-34	15.6	164
39	Novel method for the isolation of adipose stem cells (ASCs). *Journal of Tissue Engineering and Regenerative Medicine*, **2009**, 3, 158-9	4.4	35
38	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
37	Adipose tissue-derived stem cells and their application in bone and cartilage tissue engineering. *Tissue Engineering - Part B: Reviews*, **2009**, 15, 113-25	7.9	121
36	Carrageenan-based hydrogels for the controlled delivery of PDGF-BB in bone tissue engineering applications. *Biomacromolecules*, **2009**, 10, 1392-401	6.9	136
35	Surface-modified 3D starch-based scaffold for improved endothelialization for bone tissue engineering. *Journal of Materials Chemistry*, **2009**, 19, 4091		32
34	Novel genipin-cross-linked chitosan/silk fibroin sponges for cartilage engineering strategies. *Biomacromolecules*, **2008**, 9, 2764-74	6.9	205
33	PVDF Membranes Induce Cellular Proliferation and Differentiation in Static and Dynamic Conditions. *Materials Science Forum*, **2008**, 587-588, 72-76	0.4	18
32	Starch-polycaprolactone based scaffolds in bone and cartilage tissue engineering approaches **2008**, 337-356		

31	Electrospun Starch-Polycaprolactone Nanofiber-Based Constructs for Tissue Engineering. *AIP Conference Proceedings*, **2008**,	0	16
30	Endothelial cell colonization and angiogenic potential of combined nano- and micro-fibrous scaffolds for bone tissue engineering. *Biomaterials*, **2008**, 29, 4306-13	15.6	154
29	Chitosan microparticles as injectable scaffolds for tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2008**, 2, 378-80	4.4	58
28	Starch-poly(epsilon-caprolactone) and starch-poly(lactic acid) fibre-mesh scaffolds for bone tissue engineering applications: structure, mechanical properties and degradation behaviour. *Journal of Tissue Engineering and Regenerative Medicine*, **2008**, 2, 243-52	4.4	122
27	Plasma surface modification of chitosan membranes: characterization and preliminary cell response studies. *Macromolecular Bioscience*, **2008**, 8, 568-76	5.5	117
26	Development of a bioactive glass fiber reinforced starch-polycaprolactone composite. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2008**, 87, 197-203	3.5	21
25	Natural Polymers in tissue engineering applications **2008**, 145-192		21
24	Response of micro- and macrovascular endothelial cells to starch-based fiber meshes for bone tissue engineering. *Biomaterials*, **2007**, 28, 240-8	15.6	107
23	A cartilage tissue engineering approach combining starch-polycaprolactone fibre mesh scaffolds with bovine articular chondrocytes. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 295-302	4.5	68
22	Studies of P(L/D)LA 96/4 non-woven scaffolds and fibres; properties, wettability and cell spreading before and after intrusive treatment methods. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1253-61	4.5	14
21	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
20	Influence of the porosity of starch-based fiber mesh scaffolds on the proliferation and osteogenic differentiation of bone marrow stromal cells cultured in a flow perfusion bioreactor. *Tissue Engineering*, **2006**, 12, 801-9		176
19	In vitro localization of bone growth factors in constructs of biodegradable scaffolds seeded with marrow stromal cells and cultured in a flow perfusion bioreactor. *Tissue Engineering*, **2006**, 12, 177-88		106
18	Bone Tissue Engineering Constructs Based on Starch Scaffolds and Bone Marrow Cells Cultured in a Flow Perfusion Bioreactor. *Materials Science Forum*, **2006**, 514-516, 980-984	0.4	8
17	Nano- and micro-fiber combined scaffolds: a new architecture for bone tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2005**, 16, 1099-104	4.5	278
16	Biodegradable polymers and composites in biomedical applications: from catgut to tissue engineering. Part 1 Available systems and their properties. *International Materials Reviews*, **2004**, 49, 261-273	16.1	94
15	Biodegradable polymers and composites in biomedical applications: from catgut to tissue engineering. Part 2 Systems for temporary replacement and advanced tissue regeneration. *International Materials Reviews*, **2004**, 49, 274-285	16.1	48
14	Tissue engineering: key elements and some trends. *Macromolecular Bioscience*, **2004**, 4, 737-42	5.5	50

13	Methodologies for processing biodegradable and natural origin scaffolds for bone and cartilage tissue-engineering applications. *Methods in Molecular Biology*, **2004**, 238, 65-76	1.4	8
12	Effect of flow perfusion on the osteogenic differentiation of bone marrow stromal cells cultured on starch-based three-dimensional scaffolds. *Journal of Biomedical Materials Research Part B*, **2003**, 67, 87-95		285
11	Biomimetic Coating of Starch Based Polymeric Foams Produced by a Calcium Silicate Based Methodology. *Key Engineering Materials*, **2003**, 240-242, 101-104	0.4	2
10	Polymer based scaffolds and carriers for bioactive agents from different natural origin materials. *Advances in Experimental Medicine and Biology*, **2003**, 534, 201-33	3.6	12
9	Alternative tissue engineering scaffolds based on starch: processing methodologies, morphology, degradation and mechanical properties. *Materials Science and Engineering C*, **2002**, 20, 19-26	8.3	176
8	Preliminary study on the adhesion and proliferation of human osteoblasts on starch-based scaffolds. *Materials Science and Engineering C*, **2002**, 20, 27-33	8.3	91
7	A new approach based on injection moulding to produce biodegradable starch-based polymeric scaffolds: morphology, mechanical and degradation behaviour. *Biomaterials*, **2001**, 22, 883-9	15.6	323
6	Cytocompatibility and response of osteoblastic-like cells to starch-based polymers: effect of several additives and processing conditions. *Biomaterials*, **2001**, 22, 1911-7	15.6	166
5	Comparison of the cytotoxicity of molybdenum as powder and as alloying element in a niobium-molybdenum alloy. *Journal of Materials Science: Materials in Medicine*, **1998**, 9, 761-5	4.5	10
4	Bone Tissue Engineering: Injectable Polymeric Scaffolds1164-1170		
3	Tissue Engineering: Fiber Bonding and Particle Aggregation7986-7995		
2	3D Bioprinting of Miniaturized Tissues Embedded in Self-Assembled Nanoparticle-Based Fibrillar Platforms. *Advanced Functional Materials*,2104245	15.6	6
1	Bioengineered 3D living fibers as in vitro human tissue models of tendon physiology and pathology. *Advanced Healthcare Materials*,2102863	10.1	5