

# J Miguel Oliveira

## List of Publications by Citations

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329  
papers

9,459  
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50  
h-index

85  
g-index

364  
ext. papers

11,344  
ext. citations

5.8  
avg, IF

6.68  
L-index

#	Paper	IF	Citations
329	Natural origin biodegradable systems in tissue engineering and regenerative medicine: present status and some moving trends. <i>Journal of the Royal Society Interface</i> , <b>2007</b> , 4, 999-1030	4.1	843
328	Natural-based nanocomposites for bone tissue engineering and regenerative medicine: a review. <i>Advanced Materials</i> , <b>2015</b> , 27, 1143-69	24	565
327	Novel hydroxyapatite/chitosan bilayered scaffold for osteochondral tissue-engineering applications: Scaffold design and its performance when seeded with goat bone marrow stromal cells. <i>Biomaterials</i> , <b>2006</b> , 27, 6123-37	15.6	387
326	Genipin-cross-linked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 95, 465-75	5.4	247
325	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 289-301	10.8	237
324	Scaffolding Strategies for Tissue Engineering and Regenerative Medicine Applications. <i>Materials</i> , <b>2019</b> , 12,	3.5	192
323	Gellan gum-based hydrogels for intervertebral disc tissue-engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2011</b> , 5, e97-107	4.4	170
322	Dendrimers and derivatives as a potential therapeutic tool in regenerative medicine strategies: A review. <i>Progress in Polymer Science</i> , <b>2010</b> , 35, 1163-1194	29.6	156
321	Materials of marine origin: a review on polymers and ceramics of biomedical interest. <i>International Materials Reviews</i> , <b>2012</b> , 57, 276-306	16.1	146
320	The osteogenic differentiation of rat bone marrow stromal cells cultured with dexamethasone-loaded carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles. <i>Biomaterials</i> , <b>2009</b> , 30, 804-13	15.6	121
319	Bilayered silk/silk-nanoCaP scaffolds for osteochondral tissue engineering: In vitro and in vivo assessment of biological performance. <i>Acta Biomaterialia</i> , <b>2015</b> , 12, 227-241	10.8	115
318	Organ-on-chip models of cancer metastasis for future personalized medicine: From chip to the patient. <i>Biomaterials</i> , <b>2017</b> , 149, 98-115	15.6	112
317	Nanoparticles for bone tissue engineering. <i>Biotechnology Progress</i> , <b>2017</b> , 33, 590-611	2.8	98
316	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. <i>Pharmacology &amp; Therapeutics</i> , <b>2018</b> , 184, 201-211	13.9	90
315	Nanoparticulate bioactive-glass-reinforced gellan-gum hydrogels for bone-tissue engineering. <i>Materials Science and Engineering C</i> , <b>2014</b> , 43, 27-36	8.3	89
314	Modern Trends for Peripheral Nerve Repair and Regeneration: Beyond the Hollow Nerve Guidance Conduit. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 337	5.8	88
313	Recent advances using gold nanoparticles as a promising multimodal tool for tissue engineering and regenerative medicine. <i>Current Opinion in Solid State and Materials Science</i> , <b>2017</b> , 21, 92-112	12	85

312	Angiogenic potential of gellan-gum-based hydrogels for application in nucleus pulposus regeneration: in vivo study. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 1203-12	3.9	85
311	Recent progress in gellan gum hydrogels provided by functionalization strategies. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 6164-6174	7.3	84
310	Scaffold Fabrication Technologies and Structure/Function Properties in Bone Tissue Engineering. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010609	15.6	82
309	Collagen-based bioinks for hard tissue engineering applications: a comprehensive review. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2019</b> , 30, 32	4.5	81
308	The potential of hyaluronic acid in immunoprotection and immunomodulation: Chemistry, processing and function. <i>Progress in Materials Science</i> , <b>2018</b> , 97, 97-122	42.2	80
307	Colorectal tumor-on-a-chip system: A 3D tool for precision onco-nanomedicine. <i>Science Advances</i> , <b>2019</b> , 5, eaaw1317	14.3	78
306	Tissue engineering and regenerative medicine strategies in meniscus lesions. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2011</b> , 27, 1706-19	5.4	78
305	Evaluating Biomaterial- and Microfluidic-Based 3D Tumor Models. <i>Trends in Biotechnology</i> , <b>2015</b> , 33, 667-678	15.7	77
304	Biocompatibility evaluation of ionic- and photo-crosslinked methacrylated gellan gum hydrogels: in vitro and in vivo study. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 568-75	10.1	77
303	Microglia response and in vivo therapeutic potential of methylprednisolone-loaded dendrimer nanoparticles in spinal cord injury. <i>Small</i> , <b>2013</b> , 9, 738-49	11	76
302	Rheological and mechanical properties of acellular and cell-laden methacrylated gellan gum hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 3438-46	5.4	74
301	Development of gellan gum-based microparticles/hydrogel matrices for application in the intervertebral disc regeneration. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 961-72	2.9	74
300	Could 3D models of cancer enhance drug screening?. <i>Biomaterials</i> , <b>2020</b> , 232, 119744	15.6	72
299	Tissue engineering and regenerative medicine: past, present, and future. <i>International Review of Neurobiology</i> , <b>2013</b> , 108, 1-33	4.4	69
298	Combinatory approach for developing silk fibroin scaffolds for cartilage regeneration. <i>Acta Biomaterialia</i> , <b>2018</b> , 72, 167-181	10.8	68
297	Knee donor-site morbidity after mosaicplasty - a systematic review. <i>Journal of Experimental Orthopaedics</i> , <b>2016</b> , 3, 31	2.3	66
296	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. <i>Acta Biomaterialia</i> , <b>2018</b> , 77, 155-171	10.8	66
295	Biopolymers and polymers in the search of alternative treatments for meniscal regeneration: State of the art and future trends. <i>Applied Materials Today</i> , <b>2018</b> , 12, 51-71	6.6	65

294	Macroporous hydroxyapatite scaffolds for bone tissue engineering applications: physicochemical characterization and assessment of rat bone marrow stromal cell viability. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 175-86	5.4	63
293	Current strategies for treatment of intervertebral disc degeneration: substitution and regeneration possibilities. <i>Biomaterials Research</i> , <b>2017</b> , 21, 22	16.8	61
292	Ex vivo culturing of stromal cells with dexamethasone-loaded carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles promotes ectopic bone formation. <i>Bone</i> , <b>2010</b> , 46, 1424-35	4.7	59
291	Enzymatically Cross-Linked Silk Fibroin-Based Hierarchical Scaffolds for Osteochondral Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3781-3799	9.5	57
290	Biomechanical and cellular segmental characterization of human meniscus: building the basis for Tissue Engineering therapies. <i>Osteoarthritis and Cartilage</i> , <b>2014</b> , 22, 1271-81	6.2	54
289	3D biosensors in advanced medical diagnostics of high mortality diseases. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 130, 20-39	11.8	54
288	Cartilage Repair Using Hydrogels: A Critical Review of in Vivo Experimental Designs. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 726-739	5.5	53
287	Management of knee osteoarthritis. Current status and future trends. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 717-739	4.9	53
286	Bioactive macro/micro porous silk fibroin/nano-sized calcium phosphate scaffolds with potential for bone-tissue-engineering applications. <i>Nanomedicine</i> , <b>2013</b> , 8, 359-78	5.6	53
285	Hydrogels in acellular and cellular strategies for intervertebral disc regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2013</b> , 7, 85-98	4.4	52
284	Tissue engineering strategies applied in the regeneration of the human intervertebral disk. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 1514-31	17.8	52
283	Migration of "bioabsorbable" screws in ACL repair. How much do we know? A systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2013</b> , 21, 986-94	5.5	51
282	Assessment of rotatory laxity in anterior cruciate ligament-deficient knees using magnetic resonance imaging with Porto-knee testing device. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2012</b> , 20, 671-8	5.5	51
281	Current Concepts and Challenges in Osteochondral Tissue Engineering and Regenerative Medicine. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 183-200	5.5	50
280	Surface Engineered Carboxymethylchitosan/Poly(amidoamine) Dendrimer Nanoparticles for Intracellular Targeting. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1840-1853	15.6	50
279	Tumor Growth Suppression Induced by Biomimetic Silk Fibroin Hydrogels. <i>Scientific Reports</i> , <b>2016</b> , 6, 31037	4.9	48
278	Engineering bioinks for 3D bioprinting. <i>Biofabrication</i> , <b>2021</b> , 13,	10.5	48
277	Basic science of osteoarthritis. <i>Journal of Experimental Orthopaedics</i> , <b>2016</b> , 3, 22	2.3	47

276	Hydrogels for nucleus replacement--facing the biomechanical challenge. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 14, 67-77	4.1	47
275	Current concepts: tissue engineering and regenerative medicine applications in the ankle joint. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20130784	4.1	46
274	Dendrimer nanoparticles for colorectal cancer applications. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 1128-1138	7.3	44
273	Gellan Gum-Based Hydrogel Bilayered Scaffolds for Osteochondral Tissue Engineering. <i>Key Engineering Materials</i> , <b>2013</b> , 587, 255-260	0.4	43
272	Building the basis for patient-specific meniscal scaffolds: From human knee MRI to fabrication of 3D printed scaffolds. <i>Bioprinting</i> , <b>2016</b> , 1-2, 1-10	7	43
271	Fast Setting Silk Fibroin Bioink for Bioprinting of Patient-Specific Memory-Shape Implants. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1701021	10.1	41
270	Novel hydroxyapatite/carboxymethylchitosan composite scaffolds prepared through an innovative "autocatalytic" electroless coprecipitation route. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 470-80	5.4	41
269	Galactooligosaccharides production by $\beta$ -galactosidase immobilized onto magnetic polysiloxane $\beta$ -polyaniline particles. <i>Reactive and Functional Polymers</i> , <b>2009</b> , 69, 246-251	4.6	41
268	Scaffolds and coatings for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2020</b> , 31, 27	4.5	40
267	Nanotechnology in peripheral nerve repair and reconstruction. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 148, 308-343	18.5	40
266	Adaptable hydrogel with reversible linkages for regenerative medicine: Dynamic mechanical microenvironment for cells. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1375-1387	16.7	40
265	Nanocellulose reinforced gellan-gum hydrogels as potential biological substitutes for annulus fibrosus tissue regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 897-908	6	40
264	Current trends in tendinopathy: consensus of the ESSKA basic science committee. Part I: biology, biomechanics, anatomy and an exercise-based approach. <i>Journal of Experimental Orthopaedics</i> , <b>2017</b> , 4, 18	2.3	39
263	Self-mineralizing Ca-enriched methacrylated gellan gum beads for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2019</b> , 93, 74-85	10.8	39
262	Hydrogel-based scaffolds to support intrathecal stem cell transplantation as a gateway to the spinal cord: clinical needs, biomaterials, and imaging technologies. <i>Npj Regenerative Medicine</i> , <b>2018</b> , 3, 8	15.8	39
261	Engineering nanoparticles for targeting rheumatoid arthritis: Past, present, and future trends. <i>Nano Research</i> , <b>2018</b> , 11, 4489-4506	10	39
260	Gellan gum-hydroxyapatite composite spongy-like hydrogels for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 479-490	5.4	39
259	Custom-tailored tissue engineered polycaprolactone scaffolds for total disc replacement. <i>Biofabrication</i> , <b>2015</b> , 7, 015008	10.5	39

258	In vitro evaluation of the behaviour of human polymorphonuclear neutrophils in direct contact with chitosan-based membranes. <i>Journal of Biotechnology</i> , <b>2007</b> , 132, 218-26	3.7	39
257	Micro-CT - a digital 3D microstructural voyage into scaffolds: a systematic review of the reported methods and results. <i>Biomaterials Research</i> , <b>2018</b> , 22, 26	16.8	39
256	Amperometric glucose biosensor based on assisted ion transfer through gel-supported microinterfaces. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 5547-51	7.8	38
255	Silk-based anisotropical 3D biotextiles for bone regeneration. <i>Biomaterials</i> , <b>2017</b> , 123, 92-106	15.6	37
254	Peripheral Nerve Injury: Current Challenges, Conventional Treatment Approaches, and New Trends in Biomaterials-Based Regenerative Strategies. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 3098-3122	5.5	37
253	In vivo performance of chitosan/soy-based membranes as wound-dressing devices for acute skin wounds. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 860-9	3.9	37
252	Rapidly responsive silk fibroin hydrogels as an artificial matrix for the programmed tumor cells death. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194441	3.7	37
251	Biological performance of cell-encapsulated methacrylated gellan gum-based hydrogels for nucleus pulposus regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 637-648	4.4	36
250	The Meniscus in Normal and Osteoarthritic Tissues: Facing the Structure Property Challenges and Current Treatment Trends. <i>Annual Review of Biomedical Engineering</i> , <b>2019</b> , 21, 495-521	12	35
249	Mechanical Property of Hydrogels and the Presence of Adipose Stem Cells in Tumor Stroma Affect Spheroid Formation in the 3D Osteosarcoma Model. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14548-14559	9.5	34
248	Gellan gum-coated gold nanorods: an intracellular nanosystem for bone tissue engineering. <i>RSC Advances</i> , <b>2015</b> , 5, 77996-78005	3.7	33
247	Biochemical Gradients to Generate 3D Heterotypic-Like Tissues with Isotropic and Anisotropic Architectures. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804148	15.6	33
246	Osteochondral transplantation using autografts from the upper tibio-fibular joint for the treatment of knee cartilage lesions. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2012</b> , 20, 1136-42	5.5	32
245	Development of nanofiber-reinforced hydrogel scaffolds for nucleus pulposus regeneration by a combination of electrospinning and spraying technique. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 1158-1163	2.9	32
244	Biological evaluation of intervertebral disc cells in different formulations of gellan gum-based hydrogels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 265-75	4.4	31
243	Arthroscopic Repair of Ankle Instability With All-Soft Knotless Anchors. <i>Arthroscopy Techniques</i> , <b>2016</b> , 5, e99-e107	1.7	31
242	Investigation of cell adhesion in chitosan membranes for peripheral nerve regeneration. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 1122-1134	8.3	30
241	In vivo study of dendronlike nanoparticles for stem cells "tune-up": from nano to tissues. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2011</b> , 7, 914-24	6	30



240	Injectable gellan-gum/hydroxyapatite-based bilayered hydrogel composites for osteochondral tissue regeneration. <i>Applied Materials Today</i> , <b>2018</b> , 12, 309-321	6.6	29
239	Revealing the potential of squid chitosan-based structures for biomedical applications. <i>Biomedical Materials (Bristol)</i> , <b>2013</b> , 8, 045002	3.5	29
238	In vivo biofunctional evaluation of hydrogels for disc regeneration. <i>European Spine Journal</i> , <b>2014</b> , 23, 19-26	2.7	29
237	Multifunctionalized CMChT/PAMAM dendrimer nanoparticles modulate the cellular uptake by astrocytes and oligodendrocytes in primary cultures of glial cells. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 591-7	5.5	28
236	Biofunctional Ionic-Doped Calcium Phosphates: Silk Fibroin Composites for Bone Tissue Engineering Scaffolding. <i>Cells Tissues Organs</i> , <b>2017</b> , 204, 150-163	2.1	28
235	Anti-Cancer Drug Validation: the Contribution of Tissue Engineered Models. <i>Stem Cell Reviews and Reports</i> , <b>2017</b> , 13, 347-363	6.4	27
234	Prevalence of Articular Cartilage Lesions and Surgical Clinical Outcomes in Football (Soccer) Players' Knees: A Systematic Review. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2016</b> , 32, 1466-77	5.4	27
233	De novo bone formation on macro/microporous silk and silk/nano-sized calcium phosphate scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2013</b> , 28, 439-452	2	26
232	Novel poly(L-lactic acid)/hyaluronic acid macroporous hybrid scaffolds: characterization and assessment of cytotoxicity. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 94, 856-69	5.4	26
231	Quantitative assessment of the regenerative and mineralogenic performances of the zebrafish caudal fin. <i>Scientific Reports</i> , <b>2016</b> , 6, 39191	4.9	26
230	Intra-articular injection of culture-expanded mesenchymal stem cells with or without addition of platelet-rich plasma is effective in decreasing pain and symptoms in knee osteoarthritis: a controlled, double-blind clinical trial. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2020</b> , 28, 1989-1999	5.5	26
229	Meniscal allograft transplants and new scaffolding techniques. <i>EFORT Open Reviews</i> , <b>2019</b> , 4, 279-295	5.5	25
228	In vitro and in vivo performance of methacrylated gellan gum hydrogel formulations for cartilage repair. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 1987-1996	5.4	25
227	Tunable anisotropic networks for 3-D oriented neural tissue models. <i>Biomaterials</i> , <b>2018</b> , 181, 402-414	15.6	25
226	Tunable Enzymatically Cross-Linked Silk Fibroin Tubular Conduits for Guided Tissue Regeneration. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800186	10.1	25
225	Silk Fibroin-Based Scaffold for Bone Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1077, 371-387	3.6	25
224	Exosome mediated transfer of miRNA-140 promotes enhanced chondrogenic differentiation of bone marrow stem cells for enhanced cartilage repair and regeneration. <i>Journal of Cellular Biochemistry</i> , <b>2020</b> , 121, 3642-3652	4.7	24
223	Alternative methodology for chitin/hydroxyapatite composites using ionic liquids and supercritical fluid technology. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2013</b> , 28, 481-491	2	24

222	Calcium-phosphate derived from mineralized algae for bone tissue engineering applications. <i>Materials Letters</i> , <b>2007</b> , 61, 3495-3499	3.3	23
221	Current trends in tendinopathy: consensus of the ESSKA basic science committee. Part II: treatment options. <i>Journal of Experimental Orthopaedics</i> , <b>2018</b> , 5, 38	2.3	23
220	Tumor-Targeting Polycaprolactone Nanoparticles with Codelivery of Paclitaxel and IR780 for Combinational Therapy of Drug-Resistant Ovarian Cancer. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 2175-2185	5.5	22
219	Tissue Engineering Strategies for Osteochondral Repair. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1059, 353-371	3.6	22
218	Hyaluronic Acid. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1059, 137-153	3.6	22
217	Physicochemical Characterization of Novel Chitosan-Soy Protein/ TEOS Porous Hybrids for Tissue Engineering Applications. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 1000-1004	0.4	22
216	Engineering patient-specific bioprinted constructs for treatment of degenerated intervertebral disc. <i>Materials Today Communications</i> , <b>2019</b> , 19, 506-512	2.5	22
215	Advanced Biomaterials and Processing Methods for Liver Regeneration: State-of-the-Art and Future Trends. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901435	10.1	21
214	Bioceramics for Osteochondral Tissue Engineering and Regeneration. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1058, 53-75	3.6	21
213	Gellan Gum-based luminal fillers for peripheral nerve regeneration: an in vivo study in the rat sciatic nerve repair model. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1059-1075	7.4	21
212	Optical projection tomography as a tool for 3D imaging of hydrogels. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 3443-9	3.5	21
211	Natural Polymers in tissue engineering applications <b>2008</b> , 145-192		21
210	Core-shell silk hydrogels with spatially tuned conformations as drug-delivery system. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 3168-3177	4.4	20
209	Carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in central nervous systems-regenerative medicine: effects on neuron/glia cell viability and internalization efficiency. <i>Macromolecular Bioscience</i> , <b>2010</b> , 10, 1130-40	5.5	20
208	Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. <i>Langmuir</i> , <b>2016</b> , 32, 5173-82	4	20
207	Silk Fibroin/Nano-CaP Bilayered Scaffolds for Osteochondral Tissue Engineering. <i>Key Engineering Materials</i> , <b>2013</b> , 587, 245-248	0.4	19
206	Micro-computed tomography characterization of tissue engineering scaffolds: effects of pixel size and rotation step. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 129	4.5	19
205	In vitro evaluation of the biological performance of macro/micro-porous silk fibroin and silk-nano calcium phosphate scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 888-98	3.5	19



204	Mimicking the 3D biology of osteochondral tissue with microfluidic-based solutions: breakthroughs towards boosting drug testing and discovery. <i>Drug Discovery Today</i> , <b>2018</b> , 23, 711-718	8.8	18
203	Functionally graded additive manufacturing to achieve functionality specifications of osteochondral scaffolds. <i>Bio-Design and Manufacturing</i> , <b>2018</b> , 1, 69-75	4.7	18
202	Biological performance of a promising Kefiran-biopolymer with potential in regenerative medicine applications: a comparative study with hyaluronic acid. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 124	4.5	18
201	In vivo biodistribution of carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in rats. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2011</b> , 26, 619-627	2	18
200	Micro-CT based finite element modelling and experimental characterization of the compressive mechanical properties of 3-D zirconia scaffolds for bone tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 102, 103516	4.1	18
199	Enhanced performance of chitosan/keratin membranes with potential application in peripheral nerve repair. <i>Biomaterials Science</i> , <b>2019</b> , 7, 5451-5466	7.4	18
198	Advances in bioinks and in vivo imaging of biomaterials for CNS applications. <i>Acta Biomaterialia</i> , <b>2019</b> , 95, 60-72	10.8	17
197	Silk Fibroin-Based Hydrogels and Scaffolds for Osteochondral Repair and Regeneration. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1058, 305-325	3.6	17
196	Incorporation of resident macrophages in engineered tissues: Multiple cell type response to microenvironment controlled macrophage-laden gelatine hydrogels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 330-340	4.4	17
195	Kefiran biopolymer: Evaluation of its physicochemical and biological properties. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2018</b> , 33, 461-478	2	17
194	Lactoferrin-Hydroxyapatite Containing Spongy-Like Hydrogels for Bone Tissue Engineering. <i>Materials</i> , <b>2019</b> , 12,	3.5	17
193	Segmental and regional quantification of 3D cellular density of human meniscus from osteoarthritic knee. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 1844-1852	4.4	16
192	Suturable regenerated silk fibroin scaffold reinforced with 3D-printed polycaprolactone mesh: biomechanical performance and subcutaneous implantation. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2019</b> , 30, 63	4.5	16
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57	Recent Developments on Chitosan Applications in Regenerative Medicine <b>2016</b> , 221-243		1
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