

J Miguel Oliveira

List of Publications by Year in Descending Order

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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.

329
papers

9,459
citations

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	Diagnosis of Cartilage and Osteochondral Defect 2022 , 95-106		
328	Natural polymeric biomaterials for tissue engineering 2022 , 75-110		
327	Recent approaches towards bone tissue engineering. <i>Bone</i> , 2022 , 154, 116256	4.7	8
326	Biocomposites and Bioceramics in Tissue Engineering: Beyond the Next Decade. <i>Springer Series in Biomaterials Science and Engineering</i> , 2022 , 319-350	0.6	0
325	Kefiran in Tissue Engineering and Regenerative Medicine 2022 , 975-995		
324	Chitosan-Based Gels for Regenerative Medicine Applications 2022 , 1247-1271		
323	Sulfation of Microbial Polysaccharides 2022 , 675-692		
322	Injectable Polymeric System Based on Polysaccharides for Therapy 2022 , 1045-1062		
321	Glycosaminoglycans 2022 , 167-184		
320	METTL3 promotes oxaliplatin resistance of gastric cancer CD133+ stem cells by promoting PARP1 mRNA stability.. <i>Cellular and Molecular Life Sciences</i> , 2022 , 79, 135	10.3	2
319	Nanoparticles for neurotrophic factor delivery in nerve guidance conduits for peripheral nerve repair.. <i>Nanomedicine</i> , 2022 , 17, 477-494	5.6	0
318	Osteogenic lithium-doped brushite cements for bone regeneration.. <i>Bioactive Materials</i> , 2022 , 16, 403-417	17.7	0
317	A Design of Experiments (DoE) Approach to Optimize Cryogel Manufacturing for Tissue Engineering Applications. <i>Polymers</i> , 2022 , 14, 2026	4.5	2
316	Towards the Development of a Female Animal Model of T1DM Using Hyaluronic Acid Nanocoated Cell Transplantation: Refinements and Considerations for Future Protocols. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
315	Cytocompatible manganese dioxide-based hydrogel nanoreactors for MRI imaging.. <i>Materials Science and Engineering C</i> , 2021 , 112575	8.3	1
314	Sulfation of Microbial Polysaccharides 2021 , 1-18		
313	Carbon nanotube-reinforced cell-derived matrix-silk fibroin hierarchical scaffolds for bone tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9561-9574	7.3	2

312 Glycosaminoglycans **2021**, 1-18

311 Combining experiments and in silico modeling to infer the role of adhesion and proliferation on the collective dynamics of cells. *Scientific Reports*, **2021**, 11, 19894 4.9 0

310 Enzymatically crosslinked tyramine-gellan gum hydrogels as drug delivery system for rheumatoid arthritis treatment. *Drug Delivery and Translational Research*, **2021**, 11, 1288-1300 6.2 9

309 Ion-doped Brushite Cements for Bone Regeneration. *Acta Biomaterialia*, **2021**, 123, 51-71 10.8 13

308 Scaffold Fabrication Technologies and Structure/Function Properties in Bone Tissue Engineering. *Advanced Functional Materials*, **2021**, 31, 2010609 15.6 82

307 Vascularization Approaches in Tissue Engineering: Recent Developments on Evaluation Tests and Modulation.. *ACS Applied Bio Materials*, **2021**, 4, 2941-2956 4.1 11

306 Synthesis and Characterization of Biocompatible Methacrylated Kefiran Hydrogels: Towards Tissue Engineering Applications. *Polymers*, **2021**, 13, 4.5 3

305 Engineering bioinks for 3D bioprinting. *Biofabrication*, **2021**, 13, 10.5 48

304 Hydrogels in the treatment of rheumatoid arthritis: drug delivery systems and artificial matrices for dynamic in vitro models. *Journal of Materials Science: Materials in Medicine*, **2021**, 32, 74 4.5 6

303 adipoSIGHT in Therapeutic Response: Consequences in Osteosarcoma Treatment. *Bioengineering*, **2021**, 8, 5.3 2

302 Conotoxin loaded dextran microgel particles alleviate effects of spinal cord injury by inhibiting neuronal excitotoxicity. *Applied Materials Today*, **2021**, 23, 101064 6.6 3

301 Porous aligned ZnSr-doped β -TCP/silk fibroin scaffolds using ice-templating method for bone tissue engineering applications. *Journal of Biomaterials Science, Polymer Edition*, **2021**, 32, 1966-1982 3.5 4

300 Tumor-Associated Protrusion Fluctuations as a Signature of Cancer Invasiveness. *Advanced Biology*, **2021**, 5, e2101019 4

299 Two in One: Use of Divalent Manganese Ions as Both Cross-Linking and MRI Contrast Agent for Intrathecal Injection of Hydrogel-Embedded Stem Cells. *Pharmaceutics*, **2021**, 13, 6.4 2

298 Engineering Silk Fibroin-Based Nerve Conduit with Neurotrophic Factors for Proximal Protection after Peripheral Nerve Injury. *Advanced Healthcare Materials*, **2021**, 10, e2000753 10.1 12

297 Advances in 3D neural, vascular and neurovascular models for drug testing and regenerative medicine. *Drug Discovery Today*, **2021**, 26, 754-768 8.8 3

296 Adaptable hydrogel with reversible linkages for regenerative medicine: Dynamic mechanical microenvironment for cells. *Bioactive Materials*, **2021**, 6, 1375-1387 16.7 40

295 Synthesis of mussel-inspired polydopamine-gallium nanoparticles for biomedical applications. *Nanomedicine*, **2021**, 16, 5-17 5.6 0

294 Injectable Polymeric System Based on Polysaccharides for Therapy **2021**, 1-18

293 Modulation of inflammation by anti-TNF α Ab-dendrimer nanoparticles loaded in tyramine-modified gellan gum hydrogels in a cartilage-on-a-chip model. *Journal of Materials Chemistry B*, **2021**, 9, 4211-4218 7.3 4

292 Kefiran in Tissue Engineering and Regenerative Medicine **2021**, 1-21

291 Dendrimers in tissue engineering **2021**, 327-336

290 Innovative methodology for marine collagen-chitosan-fucoidan hydrogels production, tailoring rheological properties towards biomedical application. *Green Chemistry*, **2021**, 23, 7016-7029 10 7

289 Fabrication of biocompatible porous SAIB/silk fibroin scaffolds using ionic liquids. *Materials Chemistry Frontiers*, **2021**, 5, 6582-6591 7.8 1

288 Nonbiological Adjuncts for Ankle Stabilization **2021**, 357-363

287 PAMAM dendrimers functionalised with an anti-TNF α antibody and chondroitin sulphate for treatment of rheumatoid arthritis. *Materials Science and Engineering C*, **2021**, 121, 111845 8.3 8

286 Horseradish Peroxidase-Crosslinked Calcium-Containing Silk Fibroin Hydrogels as Artificial Matrices for Bone Cancer Research. *Macromolecular Bioscience*, **2021**, 21, e2000425 5.5 2

285 Bioengineered Nanoparticles Loaded-Hydrogels to Target TNF Alpha in Inflammatory Diseases. *Pharmaceutics*, **2021**, 13,

284 PARP1 Inhibitor Combined With Oxaliplatin Efficiently Suppresses Oxaliplatin Resistance in Gastric Cancer-Derived Organoids via Homologous Recombination and the Base Excision Repair Pathway. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 719192 5.7

283 Methacrylated Gellan Gum/Poly-L-lysine Polyelectrolyte Complex Beads for Cell-Based Therapies. *ACS Biomaterials Science and Engineering*, **2021**, 7, 4898-4913 5.5 1

282 An efficient and user-friendly method for cytohistological analysis of organoids. *Journal of Tissue Engineering and Regenerative Medicine*, **2021**, 15, 1012-1022 4.4 0

281 Influence of gellan gum-hydroxyapatite spongy-like hydrogels on human osteoblasts under long-term osteogenic differentiation conditions. *Materials Science and Engineering C*, **2021**, 129, 112413 8.3 2

280 3DICE coding matrix multidirectional macro-architecture modulates cell organization, shape, and co-cultures endothelization network. *Biomaterials*, **2021**, 277, 121112 15.6 2

279 Macromolecular modulation of a 3D hydrogel construct differentially regulates human stem cell tissue-to-tissue interface.. *Materials Science and Engineering C*, **2021**, 112611 8.3 0

278 Methacrylated gellan gum and hyaluronic acid hydrogel blends for image-guided neurointerventions. *Journal of Materials Chemistry B*, **2020**, 8, 5928-5937 7.3 12

277 Marine collagen-chitosan-fucoidan cryogels as cell-laden biocomposites envisaging tissue engineering. *Biomedical Materials (Bristol)*, **2020**, 15, 055030 3.5 12

276	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> , 2020 , 6, 2175-2185	5.5	22
275	Scaffolds and coatings for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 27	4.5	40
274	Tumor-Stroma Interactions Alter the Sensitivity of Drug in Breast Cancer. <i>Frontiers in Materials</i> , 2020 , 7,	4	3
273	Fundamentals and Current Strategies for Peripheral Nerve Repair and Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1249, 173-201	3.6	6
272	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> , 2020 , 121, 3642-3652	4.7	24
271	Ionic Liquid-Mediated Processing of SAIB-Chitin Scaffolds. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3986-3994	8.3	6
270	Entrapped in cage (EiC) scaffolds of 3D-printed polycaprolactone and porous silk fibroin for meniscus tissue engineering. <i>Biofabrication</i> , 2020 , 12, 025028	10.5	7
269	Dendrimer nanoparticles for colorectal cancer applications. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 1128-1138	7.3	44
268	Advanced Biomaterials and Processing Methods for Liver Regeneration: State-of-the-Art and Future Trends. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901435	10.1	21
267	Hierarchical HRP-Crosslinked Silk Fibroin/ZnSr-TCP Scaffolds for Osteochondral Tissue Regeneration: Assessment of the Mechanical and Antibacterial Properties. <i>Frontiers in Materials</i> , 2020 , 7,	4	5
266	Nanoparticles for Bone Tissue Engineering 2020 , 9-1-9-14		
265	Microfluidic Devices and Three Dimensional-Printing Strategies for in vitro Models of Bone. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1230, 1-14	3.6	
264	Nanoparticles and Microfluidic Devices in Cancer Research. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1230, 161-171	3.6	3
263	Microfluidics for Angiogenesis Research. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1230, 97-119	3.6	5
262	Biomaterials and Microfluidics for Drug Discovery and Development. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1230, 121-135	3.6	5
261	Dynamic Culture Systems and 3D Interfaces Models for Cancer Drugs Testing. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1230, 137-159	3.6	2
260	Physicochemical properties and cytocompatibility assessment of non-degradable scaffolds for bone tissue engineering applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 112, 103997	4.1	7
259	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> , 2020 , 102, 103516	4.1	18

258	Could 3D models of cancer enhance drug screening?. <i>Biomaterials</i> , 2020 , 232, 119744	15.6	72
257	Silk fibroin promotes mineralization of gellan gum hydrogels. <i>International Journal of Biological Macromolecules</i> , 2020 , 153, 1328-1334	7.9	15
256	Comparison between calcium carbonate and tricalcium phosphate as additives of 3D printed scaffolds with polylactic acid matrix. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 272-283	4.4	15
255	Decellularized hASCs-derived matrices as biomaterials for 3D in vitro approaches. <i>Methods in Cell Biology</i> , 2020 , 156, 45-58	1.8	7
254	Finding the perfect match between nanoparticles and microfluidics to respond to cancer challenges. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102139	6	10
253	Biomaterials as ECM-like matrices for 3D in vitro tumor models 2020 , 157-173		2
252	Current and future trends of silk fibroin-based bioinks in 3D printing. <i>Journal of 3D Printing in Medicine</i> , 2020 , 4, 69-73	1.5	5
251	Anti-Inflammatory Properties of Injectable Betamethasone-Loaded Tyramine-Modified Gellan Gum/Silk Fibroin Hydrogels. <i>Biomolecules</i> , 2020 , 10,	5.9	8
250	Convection patterns gradients of non-living and living micro-entities in hydrogels. <i>Applied Materials Today</i> , 2020 , 21, 100859	6.6	1
249	Marine-origin Polysaccharides for Tissue Engineering and Regenerative Medicine 2020 , 2619-2650		1
248	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. <i>Chemistry of Materials</i> , 2020 , 32, 8733-8746	9.6	14
247	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> , 2020 , 28, 1989-1999	5.5	26
246	Biomaterials and Microfluidics for Liver Models. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1230, 65-86	3.6	2
245	Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. <i>European Polymer Journal</i> , 2019 , 120, 109226	5.2	14
244	Peptide-biofunctionalization of biomaterials for osteochondral tissue regeneration in early stage osteoarthritis: challenges and opportunities. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1027-1044	7.3	14
243	Self-mineralizing Ca-enriched methacrylated gellan gum beads for bone tissue engineering. <i>Acta Biomaterialia</i> , 2019 , 93, 74-85	10.8	39
242	Colorectal tumor-on-a-chip system: A 3D tool for precision onco-nanomedicine. <i>Science Advances</i> , 2019 , 5, eaaw1317	14.3	78
241	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> , 2019 , 30, 63	4.5	16

240	Tissue engineering scaffolds: future perspectives 2019 , 165-185		5
239	Meniscal allograft transplants and new scaffolding techniques. <i>EFORT Open Reviews</i> , 2019 , 4, 279-295	5.5	25
238	Scaffolding Strategies for Tissue Engineering and Regenerative Medicine Applications. <i>Materials</i> , 2019 , 12,	3.5	192
237	Advances in bioinks and in vivo imaging of biomaterials for CNS applications. <i>Acta Biomaterialia</i> , 2019 , 95, 60-72	10.8	17
236	An Advanced Device for Multiplanar Instability Assessment in MRI 2019 , 27-33		2
235	Collagen-based bioinks for hard tissue engineering applications: a comprehensive review. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 32	4.5	81
234	A soft 3D polyacrylate hydrogel recapitulates the cartilage niche and allows growth-factor free tissue engineering of human articular cartilage. <i>Acta Biomaterialia</i> , 2019 , 90, 146-156	10.8	16
233	The Meniscus in Normal and Osteoarthritic Tissues: Facing the Structure Property Challenges and Current Treatment Trends. <i>Annual Review of Biomedical Engineering</i> , 2019 , 21, 495-521	12	35
232	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 & Interfaces</i> , 2019 , 11, 14548-14559	9.5	34
231	Natural Origin Materials for Bone Tissue Engineering: Properties, Processing, and Performance 2019 , 535-558		5
230	Indirect printing of hierarchical patient-specific scaffolds for meniscus tissue engineering. <i>Bio-Design and Manufacturing</i> , 2019 , 2, 225-241	4.7	5
229	Kefiran cryogels as potential scaffolds for drug delivery and tissue engineering applications. <i>Materials Today Communications</i> , 2019 , 20, 100554	2.5	15
228	The Clinical Use of Biologics in the Knee Lesions: Does the Patient Benefit?. <i>Current Reviews in Musculoskeletal Medicine</i> , 2019 , 12, 406-414	4.6	7
227	Lactoferrin-Hydroxyapatite Containing Spongy-Like Hydrogels for Bone Tissue Engineering. <i>Materials</i> , 2019 , 12,	3.5	17
226	Peptide-Modified Dendrimer Nanoparticles for Targeted Therapy of Colorectal Cancer. <i>Advanced Therapeutics</i> , 2019 , 2, 1900132	4.9	15
225	Thermal annealed silk fibroin membranes for periodontal guided tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 27	4.5	7
224	Enhanced performance of chitosan/keratin membranes with potential application in peripheral nerve repair. <i>Biomaterials Science</i> , 2019 , 7, 5451-5466	7.4	18
223	Cartilage Restoration of Patellofemoral Lesions: A Systematic Review. <i>Cartilage</i> , 2019 , 1947603519893076		9

222	Modern Trends for Peripheral Nerve Repair and Regeneration: Beyond the Hollow Nerve Guidance Conduit. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 337	5.8	88
221	Enzymatically Cross-Linked Silk Fibroin-Based Hierarchical Scaffolds for Osteochondral Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3781-3799	9.5	57
220	Nanotechnology in peripheral nerve repair and reconstruction. <i>Advanced Drug Delivery Reviews</i> , 2019 , 148, 308-343	18.5	40
219	3D biosensors in advanced medical diagnostics of high mortality diseases. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 20-39	11.8	54
218	Engineering patient-specific bioprinted constructs for treatment of degenerated intervertebral disc. <i>Materials Today Communications</i> , 2019 , 19, 506-512	2.5	22
217	Biopolymers and polymers in the search of alternative treatments for meniscal regeneration: State of the art and future trends. <i>Applied Materials Today</i> , 2018 , 12, 51-71	6.6	65
216	Gellan Gum-Based Hydrogels for Osteochondral Repair. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 281-304	3.6	15
215	Bioceramics for Osteochondral Tissue Engineering and Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 53-75	3.6	21
214	The potential of hyaluronic acid in immunoprotection and immunomodulation: Chemistry, processing and function. <i>Progress in Materials Science</i> , 2018 , 97, 97-122	42.2	80
213	In vitro and in vivo performance of methacrylated gellan gum hydrogel formulations for cartilage repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1987-1996	5.4	25
212	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> , 2018 , 3, 8	15.8	39
211	Combinatory approach for developing silk fibroin scaffolds for cartilage regeneration. <i>Acta Biomaterialia</i> , 2018 , 72, 167-181	10.8	68
210	Dual delivery of hydrophilic and hydrophobic drugs from chitosan/diatomaceous earth composite membranes. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 21	4.5	5
209	Gellan Gum-based luminal fillers for peripheral nerve regeneration: an in vivo study in the rat sciatic nerve repair model. <i>Biomaterials Science</i> , 2018 , 6, 1059-1075	7.4	21
208	Differentiation of osteoclast precursors on gellan gum-based spongy-like hydrogels for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 035012	3.5	12
207	The uptake, retention and clearance of drug-loaded dendrimer nanoparticles in astrocytes - electrophysiological quantification. <i>Biomaterials Science</i> , 2018 , 6, 388-397	7.4	12
206	Mimicking the 3D biology of osteochondral tissue with microfluidic-based solutions: breakthroughs towards boosting drug testing and discovery. <i>Drug Discovery Today</i> , 2018 , 23, 711-718	8.8	18
205	Supporting shared hypothesis testing in the biomedical domain. <i>Journal of Biomedical Semantics</i> , 2018 , 9, 9	2.2	4

204	Silk Fibroin-Based Hydrogels and Scaffolds for Osteochondral Repair and Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 305-325	3.6	17
203	Clinical Trials and Management of Osteochondral Lesions. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 391-413	3.6	5
202	Commercial Products for Osteochondral Tissue Repair and Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 415-428	3.6	10
201	Layered Scaffolds for Osteochondral Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 193-218	3.6	6
200	Engineering nanoparticles for targeting rheumatoid arthritis: Past, present, and future trends. <i>Nano Research</i> , 2018 , 11, 4489-4506	10	39
199	Return to Play in Stress Fractures of the Hip, Thigh, Knee, and Leg 2018 , 409-427		1
198	Functionally graded additive manufacturing to achieve functionality specifications of osteochondral scaffolds. <i>Bio-Design and Manufacturing</i> , 2018 , 1, 69-75	4.7	18
197	Return to Play Following Cartilage Injuries 2018 , 593-610		2
196	Anti-angiogenic potential of VEGF blocker dendron loaded on to gellan gum hydrogels for tissue engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e669-e678	4.4	15
195	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> , 2018 , 12, 330-340	4.4	17
194	Dendrimers: Breaking the paradigm of current musculoskeletal autoimmune therapies. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1796-e1812	4.4	5
193	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. <i>Pharmacology & Therapeutics</i> , 2018 , 184, 201-211	13.9	90
192	Gellan gum-hydroxyapatite composite spongy-like hydrogels for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 479-490	5.4	39
191	Current advances in solid free-form techniques for osteochondral tissue engineering. <i>Bio-Design and Manufacturing</i> , 2018 , 1, 171-181	4.7	5
190	Tunable anisotropic networks for 3-D oriented neural tissue models. <i>Biomaterials</i> , 2018 , 181, 402-414	15.6	25
189	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> , 2018 , 29, 124	4.5	18
188	Biofunctionalized Lysophosphatidic Acid/Silk Fibroin Film for Cornea Endothelial Cell Regeneration. <i>Nanomaterials</i> , 2018 , 8,	5.4	16
187	Tunable Enzymatically Cross-Linked Silk Fibroin Tubular Conduits for Guided Tissue Regeneration. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800186	10.1	25

186	Injectable gellan-gum/hydroxyapatite-based bilayered hydrogel composites for osteochondral tissue regeneration. <i>Applied Materials Today</i> , 2018 , 12, 309-321	6.6	29
185	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. <i>Acta Biomaterialia</i> , 2018 , 77, 155-171	10.8	66
184	Advances for Treatment of Knee OC Defects. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 3-24	3.6	2
183	PRP Therapy. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 241-253	3.6	6
182	In Vitro Mimetic Models for the Bone-Cartilage Interface Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 373-394	3.6	6
181	Small Animal Models. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 423-439	3.6	11
180	Scavenging Nanoreactors that Modulate Inflammation. <i>Advanced Biology</i> , 2018 , 2, 1800086	3.5	11
179	Stem Cells for Osteochondral Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 219-240	3.6	8
178	Tissue Engineering Strategies for Osteochondral Repair. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 353-371	3.6	22
177	Bioreactors and Microfluidics for Osteochondral Interface Maturation. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 395-420	3.6	7
176	Emerging Concepts in Treating Cartilage, Osteochondral Defects, and Osteoarthritis of the Knee and Ankle. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 25-62	3.6	11
175	Hyaluronic Acid. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 137-153	3.6	22
174	Promising Biomolecules. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 189-205	3.6	6
173	Nanoparticles-Based Systems for Osteochondral Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1059, 209-217	3.6	5
172	Recent advances on 3D printing of patient-specific implants for fibrocartilage tissue regeneration. <i>Journal of 3D Printing in Medicine</i> , 2018 , 2, 129-140	1.5	5
171	Kefiran biopolymer: Evaluation of its physicochemical and biological properties. <i>Journal of Bioactive and Compatible Polymers</i> , 2018 , 33, 461-478	2	17
170	Materials for Cell Delivery in Degenerated Intervertebral Disc 2018 , 137-153		
169	Nanocellulose reinforced gellan-gum hydrogels as potential biological substitutes for annulus fibrosus tissue regeneration. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 897-908	6	40

168	Biochemical Gradients to Generate 3D Heterotypic-Like Tissues with Isotropic and Anisotropic Architectures. <i>Advanced Functional Materials</i> , 2018 , 28, 1804148	15.6	33
167	Micro-CT - a digital 3D microstructural voyage into scaffolds: a systematic review of the reported methods and results. <i>Biomaterials Research</i> , 2018 , 22, 26	16.8	39
166	Current trends in tendinopathy: consensus of the ESSKA basic science committee. Part II: treatment options. <i>Journal of Experimental Orthopaedics</i> , 2018 , 5, 38	2.3	23
165	Biomaterials Developments for Brain Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1078, 323-346	3.6	6
164	Silk Fibroin-Based Scaffold for Bone Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1077, 371-387	3.6	25
163	Orthopaedic regenerative tissue engineering en route to the holy grail: disequilibrium between the demand and the supply in the operating room. <i>Journal of Experimental Orthopaedics</i> , 2018 , 5, 14	2.3	16
162	Rapidly responsive silk fibroin hydrogels as an artificial matrix for the programmed tumor cells death. <i>PLoS ONE</i> , 2018 , 13, e0194441	3.7	37
161	Tuning Enzymatically Crosslinked Silk Fibroin Hydrogel Properties for the Development of a Colorectal Cancer Extravasation 3D Model on a Chip. <i>Global Challenges</i> , 2018 , 2, 1700100	4.3	12
160	Biological performance of cell-encapsulated methacrylated gellan gum-based hydrogels for nucleus pulposus regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 637-648	4.4	36
159	Posterior talar process as a suitable cell source for treatment of cartilage and osteochondral defects of the talus. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1949-1962	4.4	5
158	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> , 2017 , 21, 92-112	12	85
157	Segmental and regional quantification of 3D cellular density of human meniscus from osteoarthritic knee. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1844-1852	4.4	16
156	Silk-based anisotropical 3D biotextiles for bone regeneration. <i>Biomaterials</i> , 2017 , 123, 92-106	15.6	37
155	Treatments of Meniscus Lesions of the Knee: Current Concepts and Future Perspectives. <i>Regenerative Engineering and Translational Medicine</i> , 2017 , 3, 32-50	2.4	12
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