

John P Fisher

List of Publications by Citations

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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.

200
papers

8,866
citations

52
h-index

86
g-index

211
ext. papers

10,302
ext. citations

7.3
avg, IF

6.43
L-index

#	Paper	IF	Citations
200	Use of stereolithography to manufacture critical-sized 3D biodegradable scaffolds for bone ingrowth. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 64, 65-9		403
199	Self-folding thermo-magnetically responsive soft microgrippers. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3398-405	9.5	341
198	3D Bioprinting for Organ Regeneration. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601118	10.1	254
197	Bone tissue engineering bioreactors: dynamic culture and the influence of shear stress. <i>Bone</i> , 2011 , 48, 171-81	4.7	207
196	Soft and hard tissue response to photocrosslinked poly(propylene fumarate) scaffolds in a rabbit model. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 59, 547-56		206
195	4D printing smart biomedical scaffolds with novel soybean oil epoxidized acrylate. <i>Scientific Reports</i> , 2016 , 6, 27226	4.9	200
194	4D printing of polymeric materials for tissue and organ regeneration. <i>Materials Today</i> , 2017 , 20, 577-591	21.8	200
193	Evaluating 3D-printed biomaterials as scaffolds for vascularized bone tissue engineering. <i>Advanced Materials</i> , 2015 , 27, 138-44	24	196
192	Stereolithographic bone scaffold design parameters: osteogenic differentiation and signal expression. <i>Tissue Engineering - Part B: Reviews</i> , 2010 , 16, 523-39	7.9	182
191	Photocrosslinking characteristics and mechanical properties of diethyl fumarate/poly(propylene fumarate) biomaterials. <i>Biomaterials</i> , 2002 , 23, 4333-43	15.6	172
190	Synthesis of poly(propylene fumarate). <i>Nature Protocols</i> , 2009 , 4, 518-25	18.8	156
189	Stimuli-responsive theragrippers for chemomechanical controlled release. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8045-8049	16.4	146
188	Synthesis and Characterization of Oligo(poly(ethylene glycol) fumarate) Macromer. <i>Macromolecules</i> , 2001 , 34, 2839-2844	5.5	141
187	Photoinitiated Polymerization of Biomaterials. <i>Annual Review of Materials Research</i> , 2001 , 31, 171-181	12.8	133
186	Strategic directions in tissue engineering. <i>Tissue Engineering</i> , 2007 , 13, 2827-37		131
185	3D printing for the design and fabrication of polymer-based gradient scaffolds. <i>Acta Biomaterialia</i> , 2017 , 56, 3-13	10.8	129
184	The influence of stereolithographic scaffold architecture and composition on osteogenic signal expression with rat bone marrow stromal cells. <i>Biomaterials</i> , 2011 , 32, 3750-63	15.6	120

183	Effect of initial cell seeding density on early osteogenic signal expression of rat bone marrow stromal cells cultured on cross-linked poly(propylene fumarate) disks. <i>Biomacromolecules</i> , 2009 , 10, 1810-9	6.9	114
182	Early osteogenic signal expression of rat bone marrow stromal cells is influenced by both hydroxyapatite nanoparticle content and initial cell seeding density in biodegradable nanocomposite scaffolds. <i>Acta Biomaterialia</i> , 2011 , 7, 1249-64	10.8	107
181	Evaluation of the in vitro cytotoxicity of cross-linked biomaterials. <i>Biomacromolecules</i> , 2013 , 14, 1321-9	6.9	105
180	Thermoreversible hydrogel scaffolds for articular cartilage engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 268-74		103
179	Fabrication and mechanical characterization of 3D printed vertical uniform and gradient scaffolds for bone and osteochondral tissue engineering. <i>Acta Biomaterialia</i> , 2019 , 90, 37-48	10.8	101
178	The Evolution of Polystyrene as a Cell Culture Material. <i>Tissue Engineering - Part B: Reviews</i> , 2018 , 24, 359-372	7.9	99
177	3D-Printed Biodegradable Polymeric Vascular Grafts. <i>Advanced Healthcare Materials</i> , 2016 , 5, 319-325	10.1	96
176	Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , 2020 , 12, 022003	10.5	94
175	Nanoparticle technology in bone tissue engineering. <i>Journal of Drug Targeting</i> , 2007 , 15, 241-52	5.4	94
174	Synthesis of poly(L-lactide) and polyglycolide by ring-opening polymerization. <i>Nature Protocols</i> , 2007 , 2, 2767-71	18.8	94
173	Bone formation in transforming growth factor beta-1-coated porous poly(propylene fumarate) scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 60, 241-51		94
172	Prussian blue nanoparticle-based photothermal therapy combined with checkpoint inhibition for photothermal immunotherapy of neuroblastoma. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 771-781	6	92
171	Bioreactors to influence stem cell fate: augmentation of mesenchymal stem cell signaling pathways via dynamic culture systems. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2470-80	4	91
170	Continuous Digital Light Processing (cDLP): Highly Accurate Additive Manufacturing of Tissue Engineered Bone Scaffolds. <i>Virtual and Physical Prototyping</i> , 2012 , 7, 13-24	10.1	86
169	Extrusion-based 3D printing of poly(propylene fumarate) scaffolds with hydroxyapatite gradients. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017 , 28, 532-554	3.5	83
168	Factors determining hydrogel permeability. <i>Annals of the New York Academy of Sciences</i> , 1997 , 831, 179-207		78
167	3D bioprinting for cardiovascular regeneration and pharmacology. <i>Advanced Drug Delivery Reviews</i> , 2018 , 132, 252-269	18.5	76
166	Neural differentiation of pluripotent cells in 3D alginate-based cultures. <i>Biomaterials</i> , 2014 , 35, 4636-45	15.6	75

165	Photoinitiated cross-linking of the biodegradable polyester poly(propylene fumarate). Part II. In vitro degradation. <i>Biomacromolecules</i> , 2003 , 4, 1335-42	6.9	73
164	Influence of 3D printed porous architecture on mesenchymal stem cell enrichment and differentiation. <i>Acta Biomaterialia</i> , 2016 , 32, 161-169	10.8	70
163	Tissue engineering solutions for cleft palates. <i>Journal of Oral and Maxillofacial Surgery</i> , 2007 , 65, 2503-11.8	11.8	70
162	Photoinitiated cross-linking of the biodegradable polyester poly(propylene fumarate). Part I. Determination of network structure. <i>Biomacromolecules</i> , 2003 , 4, 1327-34	6.9	70
161	Current and Future Perspectives on Skin Tissue Engineering: Key Features of Biomedical Research, Translational Assessment, and Clinical Application. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801471	10.1	68
160	Extrusion-Based 3D Printing of Poly(propylene fumarate) in a Full-Factorial Design. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1771-1780	5.5	67
159	Biomaterial scaffolds in pediatric tissue engineering. <i>Pediatric Research</i> , 2008 , 63, 497-501	3.2	67
158	Tubular perfusion system for the long-term dynamic culture of human mesenchymal stem cells. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 337-48	2.9	65
157	Macroporous hydrogels upregulate osteogenic signal expression and promote bone regeneration. <i>Biomacromolecules</i> , 2010 , 11, 1160-8	6.9	65
156	Development and Characterization of a 3D Printed, Keratin-Based Hydrogel. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 237-248	4.7	61
155	Effect of Dynamic Culture and Periodic Compression on Human Mesenchymal Stem Cell Proliferation and Chondrogenesis. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2103-13	4.7	59
154	Effect of prevascularization on in vivo vascularization of poly(propylene fumarate)/fibrin scaffolds. <i>Biomaterials</i> , 2016 , 77, 255-66	15.6	58
153	3D printing PLGA: a quantitative examination of the effects of polymer composition and printing parameters on print resolution. <i>Biofabrication</i> , 2017 , 9, 024101	10.5	57
152	Collagen hydrogel scaffold promotes mesenchymal stem cell and endothelial cell coculture for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 1123-1131	5.4	53
151	3D printing of resorbable poly(propylene fumarate) tissue engineering scaffolds. <i>MRS Bulletin</i> , 2015 , 40, 119-126	3.2	53
150	Synthesis and characterization of cyclic acetal based degradable hydrogels. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 68, 67-73	5.7	53
149	4D physiologically adaptable cardiac patch: A 4-month in vivo study for the treatment of myocardial infarction. <i>Science Advances</i> , 2020 , 6, eabb5067	14.3	52
148	Recent developments in cyclic acetal biomaterials for tissue engineering applications. <i>Pharmaceutical Research</i> , 2008 , 25, 2348-56	4.5	52

147	In Vitro Endothelialization of Biodegradable Vascular Grafts Via Endothelial Progenitor Cell Seeding and Maturation in a Tubular Perfusion System Bioreactor. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 663-70	2.9	52
146	The potential impact of bone tissue engineering in the clinic. <i>Regenerative Medicine</i> , 2016 , 11, 571-87	2.5	51
145	Multimodal imaging of sustained drug release from 3-D poly(propylene fumarate) (PPF) scaffolds. <i>Journal of Controlled Release</i> , 2011 , 156, 239-45	11.7	51
144	Towards rationally designed biomanufacturing of therapeutic extracellular vesicles: impact of the bioproduction microenvironment. <i>Biotechnology Advances</i> , 2018 , 36, 2051-2059	17.8	51
143	Recent advances in 3D printing: vascular network for tissue and organ regeneration. <i>Translational Research</i> , 2019 , 211, 46-63	11	50
142	Synthesis and Properties of Poly[poly(ethylene glycol)-co-cyclic acetal] Based Hydrogels. <i>Macromolecules</i> , 2007 , 40, 7625-7632	5.5	50
141	Effect of biomaterial properties on bone healing in a rabbit tooth extraction socket model. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 428-38		49
140	Cyclic acetal hydrogel system for bone marrow stromal cell encapsulation and osteodifferentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 662-70	5.4	47
139	Mesenchymal stem cells: roles and relationships in vascularization. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 218-28	7.9	46
138	Validating continuous digital light processing (cDLP) additive manufacturing accuracy and tissue engineering utility of a dye-initiator package. <i>Biofabrication</i> , 2014 , 6, 015003	10.5	46
137	Macroporous hydrogel scaffolds and their characterization by optical coherence tomography. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 101-12	2.9	46
136	Development of a 3D Printed, Bioengineered Placenta Model to Evaluate the Role of Trophoblast Migration in Preeclampsia. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1817-1826	5.5	46
135	Fabrication and evaluation of 3D printed BCP scaffolds reinforced with ZrO for bone tissue applications. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 989-999	4.9	46
134	Chondrocyte signaling and artificial matrices for articular cartilage engineering. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 585, 67-86	3.6	41
133	Three-Dimensional Printing Articular Cartilage: Recapitulating the Complexity of Native Tissue. <i>Tissue Engineering - Part B: Reviews</i> , 2017 , 23, 225-236	7.9	40
132	Evaluating changes in structure and cytotoxicity during in vitro degradation of three-dimensional printed scaffolds. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1642-53	3.9	40
131	Tubular perfusion system culture of human mesenchymal stem cells on poly-L-lactic acid scaffolds produced using a supercritical carbon dioxide-assisted process. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2563-72	5.4	40
130	Poly(propylene fumarate) and poly(DL-lactic-co-glycolic acid) as scaffold materials for solid and foam-coated composite tissue-engineered constructs for cranial reconstruction. <i>Tissue Engineering</i> , 2003 , 9, 495-504		40

129	Vascularization in tissue engineering: fundamentals and state-of-art. <i>Progress in Biomedical Engineering</i> , 2020 , 2,	7.2	40
128	Enhanced extracellular vesicle production and ethanol-mediated vascularization bioactivity via a 3D-printed scaffold-perfusion bioreactor system. <i>Acta Biomaterialia</i> , 2019 , 95, 236-244	10.8	40
127	3D printed biofunctionalized scaffolds for microfracture repair of cartilage defects. <i>Biomaterials</i> , 2018 , 185, 219-231	15.6	40
126	Bioprinted osteon-like scaffolds enhance in vivo neovascularization. <i>Biofabrication</i> , 2019 , 11, 025013	10.5	39
125	Photocrosslinked alginate with hyaluronic acid hydrogels as vehicles for mesenchymal stem cell encapsulation and chondrogenesis. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1962-705-4	5.4	39
124	Human mesenchymal stem cell position within scaffolds influences cell fate during dynamic culture. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2381-91	4.9	39
123	Catheter ablation for control of ventricular tachycardia: a report of the percutaneous cardiac mapping and ablation registry. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1986 , 9, 1391-5	1.6	39
122	Chemo-enzymatic synthesis of degradable PTMC-b-PECA-b-PTMC triblock copolymers and their micelle formation for pH-dependent controlled release. <i>Macromolecular Bioscience</i> , 2009 , 9, 613-21	5.5	38
121	3D printed HUVECs/MSCs cocultures impact cellular interactions and angiogenesis depending on cell-cell distance. <i>Biomaterials</i> , 2019 , 222, 119423	15.6	37
120	Repair of Tympanic Membrane Perforations with Customized Bioprinted Ear Grafts Using Chinchilla Models. <i>Tissue Engineering - Part A</i> , 2018 , 24, 527-535	3.9	37
119	Synergistic effect of sustained release of growth factors and dynamic culture on osteoblastic differentiation of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2161-71	5.4	37
118	Overcoming Ovarian Cancer Drug Resistance with a Cold Responsive Nanomaterial. <i>ACS Central Science</i> , 2018 , 4, 567-581	16.8	36
117	Stimuli-Responsive Theragrippers for Chemomechanical Controlled Release. <i>Angewandte Chemie</i> , 2014 , 126, 8183-8187	3.6	36
116	Mesosopic Fluorescence Molecular Tomography for Evaluating Engineered Tissues. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 667-79	4.7	34
115	In vivo bone regeneration using tubular perfusion system bioreactor cultured nanofibrous scaffolds. <i>Tissue Engineering - Part A</i> , 2014 , 20, 139-46	3.9	34
114	Phenotypic variations in chondrocyte subpopulations and their response to in vitro culture and external stimuli. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 3371-88	4.7	33
113	Dynamic Bioreactor Culture of High Volume Engineered Bone Tissue. <i>Tissue Engineering - Part A</i> , 2016 , 22, 263-71	3.9	32
112	Digital micromirror device (DMD)-based 3D printing of poly(propylene fumarate) scaffolds. <i>Materials Science and Engineering C</i> , 2016 , 61, 301-11	8.3	32

111	Multiple initiators and dyes for continuous Digital Light Processing (cDLP) additive manufacture of resorbable bone tissue engineering scaffolds. <i>Virtual and Physical Prototyping</i> , 2014 , 9, 3-9	10.1	32
110	Effect of construct properties on encapsulated chondrocyte expression of insulin-like growth factor-1. <i>Biomaterials</i> , 2007 , 28, 299-306	15.6	32
109	Placental basement membrane proteins are required for effective cytotrophoblast invasion in a three-dimensional bioprinted placenta model. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 1476-1487	5.4	30
108	Addition of hyaluronic acid to alginate embedded chondrocytes interferes with insulin-like growth factor-1 signaling in vitro and in vivo. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3449-59	3.9	30
107	Effect of transforming growth factor beta 2 on marrow-infused foam poly(propylene fumarate) tissue-engineered constructs for the repair of critical-size cranial defects in rabbits. <i>Tissue Engineering</i> , 2005 , 11, 923-39		30
106	3D Printed Pericardium Hydrogels To Promote Wound Healing in Vascular Applications. <i>Biomacromolecules</i> , 2017 , 18, 3802-3811	6.9	29
105	Hybrid 3D Printing of Synthetic and Cell-Laden Bioinks for Shape Retaining Soft Tissue Grafts. <i>Advanced Functional Materials</i> , 2020 , 30, 1907145	15.6	29
104	Extracellular Matrix-Based Biohybrid Materials for Engineering Compliant, Matrix-Dense Tissues. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2475-87	10.1	28
103	Tissue response and orbital floor regeneration using cyclic acetal hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 819-29	5.4	28
102	Effects of exogenous IGF-1 delivery on the early expression of IGF-1 signaling molecules by alginate embedded chondrocytes. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1263-73	3.9	27
101	3D Printed Vascular Networks Enhance Viability in High-Volume Perfusion Bioreactor. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 3435-3445	4.7	25
100	Osteogenic differentiation of bone marrow stromal cells induced by coculture with chondrocytes encapsulated in three-dimensional matrices. <i>Tissue Engineering - Part A</i> , 2009 , 15, 1181-90	3.9	25
99	4D Self-Morphing Culture Substrate for Modulating Cell Differentiation. <i>Advanced Science</i> , 2020 , 7, 1902408	4.9	24
98	Gene expression of alginate-embedded chondrocyte subpopulations and their response to exogenous IGF-1 delivery. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 179-92	4.4	24
97	Formation of an aggregated alginate construct in a tubular perfusion system. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 1171-8	2.9	24
96	Synthesis and properties of cyclic acetal biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 594-602	5.4	24
95	ZEB2, a master regulator of the epithelial-mesenchymal transition, mediates trophoblast differentiation. <i>Molecular Human Reproduction</i> , 2019 , 25, 61-75	4.4	24
94	Matrix molecule influence on chondrocyte phenotype and proteoglycan 4 expression by alginate-embedded zonal chondrocytes and mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1886-97	3.8	23

93	In vitro degradation and fracture toughness of multilayered porous poly(propylene fumarate)/beta-tricalcium phosphate scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 159-64		23
92	A liposome/gelatin methacrylate nanocomposite hydrogel system for delivery of stromal cell-derived factor-1 and stimulation of cell migration. <i>Acta Biomaterialia</i> , 2020 , 108, 67-76	10.8	22
91	Biomimetic Placenta-Fetus Model Demonstrating Maternal-Fetal Transmission and Fetal Neural Toxicity of Zika Virus. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 1963-1974	4.7	22
90	Reinforced pericardium as a hybrid material for cardiovascular applications. <i>Tissue Engineering - Part A</i> , 2014 , 20, 2807-16	3.9	22
89	A Fluidic Culture Platform for Spatially Patterned Cell Growth, Differentiation, and Cocultures. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1715-1732	3.9	22
88	Effects of Shear Stress Gradients on Ewing Sarcoma Cells Using 3D Printed Scaffolds and Flow Perfusion. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 347-356	5.5	21
87	EH Networks as a scaffold for skeletal muscle regeneration in abdominal wall hernia repair. <i>Journal of Surgical Research</i> , 2008 , 149, 76-83	2.5	21
86	Cell-Laden 3D Printed Scaffolds for Bone Tissue Engineering. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2015 , 13, 245-255	2.5	20
85	Trophoblast-endothelium signaling involves angiogenesis and apoptosis in a dynamic bioprinted placenta model. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 181-192	4.9	20
84	3D printing in cell culture systems and medical applications. <i>Applied Physics Reviews</i> , 2018 , 5, 041109	17.3	20
83	Coculture strategies in bone tissue engineering: the impact of culture conditions on pluripotent stem cell populations. <i>Tissue Engineering - Part B: Reviews</i> , 2012 , 18, 312-21	7.9	19
82	In Vitro Models for Studying Transport Across Epithelial Tissue Barriers. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 1-21	4.7	19
81	Development of keratin-based membranes for potential use in skin repair. <i>Acta Biomaterialia</i> , 2019 , 83, 177-188	10.8	19
80	Bioengineering Strategies to Treat Female Infertility. <i>Tissue Engineering - Part B: Reviews</i> , 2017 , 23, 294-306	7.9	18
79	Tunable osteogenic differentiation of hMPCs in tubular perfusion system bioreactor. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1805-13	4.9	18
78	Development and assessment of a biodegradable solvent cast polyester fabric small-diameter vascular graft. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1972-1981	5.4	18
77	Three dimensional extrusion printing induces polymer molecule alignment and cell organization within engineered cartilage. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2190-2199	5.4	17
76	Incorporation of fast dissolving glucose porogens and poly(lactic-co-glycolic acid) microparticles within calcium phosphate cements for bone tissue regeneration. <i>Acta Biomaterialia</i> , 2018 , 78, 341-350	10.8	16

75	X-ray phase contrast imaging of calcified tissue and biomaterial structure in bioreactor engineered tissues. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 612-20	4.9	15
74	Addressing present pitfalls in 3D printing for tissue engineering to enhance future potential. <i>APL Bioengineering</i> , 2020 , 4, 010901	6.6	15
73	Characterization of cyclic acetal hydroxyapatite nanocomposites for craniofacial tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 408-18	5.4	15
72	The Influence of Printing Parameters and Cell Density on Bioink Printing Outcomes. <i>Tissue Engineering - Part A</i> , 2020 , 26, 1349-1358	3.9	15
71	Assessment of decellularized pericardial extracellular matrix and poly(propylene fumarate) biohybrid for small-diameter vascular graft applications. <i>Acta Biomaterialia</i> , 2020 , 110, 68-81	10.8	15
70	Cyclic acetal hydroxyapatite nanocomposites for orbital bone regeneration. <i>Tissue Engineering - Part A</i> , 2010 , 16, 55-65	3.9	14
69	Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial Segregation. <i>Tissue Engineering - Part A</i> , 2020 , 26, 239-252	3.9	14
68	Hydroxyapatite-doped alginate beads as scaffolds for the osteoblastic differentiation of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2325-33	5.4	13
67	Challenges associated with regeneration of orbital floor bone. <i>Tissue Engineering - Part B: Reviews</i> , 2010 , 16, 541-50	7.9	13
66	Microphysiological systems of the placental barrier. <i>Advanced Drug Delivery Reviews</i> , 2020 , 161-162, 1611875	18.5	13
65	Development of a dynamic stem cell culture platform for mesenchymal stem cell adhesion and evaluation. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2172-81	5.6	12
64	Porous EH and EH-PEG scaffolds as gene delivery vehicles to skeletal muscle. <i>Pharmaceutical Research</i> , 2011 , 28, 1306-16	4.5	12
63	3D Printing Bioactive PLGA Scaffolds Using DMSO as a Removable Solvent. <i>Bioprinting</i> , 2018 , 10,	7	12
62	Skeletal muscle tissue engineering approaches to abdominal wall hernia repair. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2008 , 84, 315-21		11
61	Natural and Synthetic Polymeric Scaffolds 2009 , 415-442		11
60	Cellular responses to degradable cyclic acetal modified PEG hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 863-73	5.4	10
59	Cyclic acetal hydroxyapatite composites and endogenous osteogenic gene expression of rat marrow stromal cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010 , 4, 422-36	4.4	10
58	Model Placental Barrier Phenotypic Response to Fluoxetine and Sertraline: A Comparative Study. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900476	10.1	9

57	Engineering superficial zone chondrocytes from mesenchymal stem cells. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 630-40	2.9	9
56	Tubular perfusion system for chondrocyte culture and superficial zone protein expression. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1864-74	5.4	9
55	In vitro effects of cisplatin-functionalized silica nanoparticles on chondrocytes. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2757-2770	2.3	9
54	Evaluation of Three-Dimensional Printed, Keratin-Based Hydrogels in a Porcine Thermal Burn Model. <i>Tissue Engineering - Part A</i> , 2020 , 26, 265-278	3.9	9
53	Effect of Dexamethasone on Room Temperature Three-Dimensional Printing, Rheology, and Degradation of a Low Modulus Polyester for Soft Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 846-858	5.5	9
52	Synthetic polymer coatings diminish chronic inflammation risk in large ECM-based materials. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 494-504	5.4	8
51	Micro- and Macrobioprinting: Current Trends in Tissue Modeling and Organ Fabrication. <i>Small Methods</i> , 2018 , 2, 1700318	12.8	7
50	Enhanced Viability of Endothelial Colony Forming Cells in Fibrin Microbeads for Sensor Vascularization. <i>Sensors</i> , 2015 , 15, 23886-902	3.8	7
49	Assessing SSRIs Effects on fetal cardiomyocytes utilizing placenta-fetus model. <i>Acta Biomaterialia</i> , 2019 , 99, 258-268	10.8	6
48	Bioinspired One Cell Culture Isolates Highly Tumorigenic and Metastatic Cancer Stem Cells Capable of Multilineage Differentiation. <i>Advanced Science</i> , 2020 , 7, 2000259	13.6	6
47	Imaging stem cell distribution, growth, migration, and differentiation in 3-D scaffolds for bone tissue engineering using mesoscopic fluorescence tomography. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 257-265	4.9	6
46	Endothelial/Mesenchymal Stem Cell Crosstalk Within Bioprinted Cocultures. <i>Tissue Engineering - Part A</i> , 2020 , 26, 339-349	3.9	6
45	Translation and Validation of Spiritual Well-Being Questionnaire SHALOM in Lithuanian Language, Culture and Health Care Practice. <i>Religions</i> , 2018 , 9, 156	0.6	5
44	Centrifugation assay for measuring adhesion of serially passaged bovine chondrocytes to polystyrene surfaces. <i>Tissue Engineering - Part C: Methods</i> , 2012 , 18, 537-44	2.9	5
43	Characterizing placental stiffness using ultrasound shear-wave elastography in healthy and preeclamptic pregnancies. <i>Archives of Gynecology and Obstetrics</i> , 2020 , 302, 1103-1112	2.5	5
42	Photodynamic Therapy for Biomodulation and Disinfection in Implant Dentistry: Is It Feasible and Effective?. <i>Photochemistry and Photobiology</i> , 2021 , 97, 916-929	3.6	5
41	Fabrication of centimeter-sized 3D constructs with patterned endothelial cells through assembly of cell-laden microbeads as a potential bone graft. <i>Acta Biomaterialia</i> , 2021 , 121, 204-213	10.8	5
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