John P Fisher

List of Publications by Year in Descending Order

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	3D printed cellulose based product applications. *Materials Chemistry Frontiers*, **2022**, 6, 254-279	7.8	3
199	Rock inhibitor may compromise human induced pluripotent stem cells for cardiac differentiation in 3D. *Bioactive Materials*, **2022**, 9, 508-522	16.7	0
198	Bioreactors and Scale-Up in Bone Tissue Engineering **2022**, 225-247		
197	3D Bioprinting and Nanotechnology for Bone Tissue Engineering **2022**, 193-223		0
196	Noncovalent reversible binding-enabled facile fabrication of leak-free PDMS microfluidic devices without plasma treatment for convenient cell loading and retrieval.. *Bioactive Materials*, **2022**, 16, 346-358	16.7	1
195	Human Mesenchymal Stem Cell-Derived Miniature Joint System for Disease Modeling and Drug Testing.. *Advanced Science*, **2022**, e2105909	13.6	1
194	Long-Term Sustained Drug Delivery via 3D Printed Masks for the Development of a Heparin-Loaded Interlayer in Vascular Tissue Engineering Applications. *ACS Applied Materials & Interfaces*, **2021**, 13, 50812-50822	9.5	0
193	Dual Extrusion Patterning Drives Tissue Development Aesthetics and Shape Retention in 3D Printed Nipple-Areola Constructs. *Advanced Healthcare Materials*, **2021**, 10, e2101249	10.1	0
192	Liposomal SDF-1 Alpha Delivery in Nanocomposite Hydrogels Promotes Macrophage Phenotype Changes and Skin Tissue Regeneration. *ACS Biomaterials Science and Engineering*, **2021**, 7, 5230-5241	5.5	3
191	Natural and Synthetic Polymeric Scaffolds **2021**, 257-283		
190	Incorporating a structural extracellular matrix gradient into a porcine urinary bladder matrix-based hydrogel dermal scaffold. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 1893-1904	5.4	1
189	Photodynamic Therapy for Biomodulation and Disinfection in Implant Dentistry: Is It Feasible and Effective?. *Photochemistry and Photobiology*, **2021**, 97, 916-929	3.6	5
188	Mechanisms of angiogenic incompetence in Hutchinson-Gilford progeria via downregulation of endothelial NOS. *Aging Cell*, **2021**, 20, e13388	9.9	2
187	Fabrication of centimeter-sized 3D constructs with patterned endothelial cells through assembly of cell-laden microbeads as a potential bone graft. *Acta Biomaterialia*, **2021**, 121, 204-213	10.8	5
186	Sustained delivery of vascular endothelial growth factor from mesoporous calcium-deficient hydroxyapatite microparticles promotes in vitro angiogenesis and osteogenesis. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 1080-1087	5.4	5
185	3D printing technologies for in vitro vaccine testing platforms and vaccine delivery systems against infectious diseases. *Essays in Biochemistry*, **2021**, 65, 519-531	7.6	0
184	Concurrent multi-lineage differentiation of mesenchymal stem cells through spatial presentation of growth factors. *Biomedical Materials (Bristol)*, **2020**, 15, 055035	3.5	4

183	Programmable Culture Substrates: 4D Self-Morphing Culture Substrate for Modulating Cell Differentiation (Adv. Sci. 5/2020). *Advanced Science*, **2020**, 7, 2070034	13.6	0
182	A liposome/gelatin methacrylate nanocomposite hydrogel system for delivery of stromal cell-derived factor-1 and stimulation of cell migration. *Acta Biomaterialia*, **2020**, 108, 67-76	10.8	22
181	4D physiologically adaptable cardiac patch: A 4-month in vivo study for the treatment of myocardial infarction. *Science Advances*, **2020**, 6, eabb5067	14.3	52
180	4D Self-Morphing Culture Substrate for Modulating Cell Differentiation. *Advanced Science*, **2020**, 7, 1902403	13.6	24
179	Addressing present pitfalls in 3D printing for tissue engineering to enhance future potential. *APL Bioengineering*, **2020**, 4, 010901	6.6	15
178	Assessment methodologies for extrusion-based bioink printability. *Biofabrication*, **2020**, 12, 022003	10.5	94
177	Bioinspired One Cell Culture Isolates Highly Tumorigenic and Metastatic Cancer Stem Cells Capable of Multilineage Differentiation. *Advanced Science*, **2020**, 7, 2000259	13.6	6
176	A Special Dedication to Editor-in-Chief, Dr. Tony Mikos. *Tissue Engineering - Part A*, **2020**, 26, 1223	3.9	
175	Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial Segregation. *Tissue Engineering - Part A*, **2020**, 26, 239-252	3.9	14
174	Aminated 3D Printed Polystyrene Maintains Stem Cell Proliferation and Osteogenic Differentiation. *Tissue Engineering - Part C: Methods*, **2020**, 26, 118-131	2.9	4
173	Vascularization in tissue engineering: fundamentals and state-of-art. *Progress in Biomedical Engineering*, **2020**, 2,	7.2	40
172	Evaluation of Three-Dimensional Printed, Keratin-Based Hydrogels in a Porcine Thermal Burn Model. *Tissue Engineering - Part A*, **2020**, 26, 265-278	3.9	9
171	Engineered Liver Tissue Culture in an Tubular Perfusion System. *Tissue Engineering - Part A*, **2020**, 26, 1369-1377	3.9	
170	Microphysiological systems of the placental barrier. *Advanced Drug Delivery Reviews*, **2020**, 161-162, 161-175	18.5	13
169	Characterizing placental stiffness using ultrasound shear-wave elastography in healthy and preeclamptic pregnancies. *Archives of Gynecology and Obstetrics*, **2020**, 302, 1103-1112	2.5	5
168	Overview of Tissue Engineering Concepts and Applications **2020**, 1289-1316		3
167	Extracellular Matrix for Small-Diameter Vascular Grafts. *Tissue Engineering - Part A*, **2020**, 26, 1388-1401	3.9	1
166	The Influence of Printing Parameters and Cell Density on Bioink Printing Outcomes. *Tissue Engineering - Part A*, **2020**, 26, 1349-1358	3.9	15

165	Endothelial/Mesenchymal Stem Cell Crosstalk Within Bioprinted Cocultures. *Tissue Engineering - Part A*, **2020**, 26, 339-349	3.9	6
164	Hybrid 3D Printing of Synthetic and Cell-Laden Bioinks for Shape Retaining Soft Tissue Grafts. *Advanced Functional Materials*, **2020**, 30, 1907145	15.6	29
163	Assessment of decellularized pericardial extracellular matrix and poly(propylene fumarate) biohybrid for small-diameter vascular graft applications. *Acta Biomaterialia*, **2020**, 110, 68-81	10.8	15
162	3D printed HUVECs/MSCs cocultures impact cellular interactions and angiogenesis depending on cell-cell distance. *Biomaterials*, **2019**, 222, 119423	15.6	37
161	Assessing SSRIsSeffects on fetal cardiomyocytes utilizing placenta-fetus model. *Acta Biomaterialia*, **2019**, 99, 258-268	10.8	6
160	Current and Future Perspectives on Skin Tissue Engineering: Key Features of Biomedical Research, Translational Assessment, and Clinical Application. *Advanced Healthcare Materials*, **2019**, 8, e1801471	10.1	68
159	Fabrication and mechanical characterization of 3D printed vertical uniform and gradient scaffolds for bone and osteochondral tissue engineering. *Acta Biomaterialia*, **2019**, 90, 37-48	10.8	101
158	Recent advances in 3D printing: vascular network for tissue and organ regeneration. *Translational Research*, **2019**, 211, 46-63	11	50
157	Bioprinted osteon-like scaffolds enhance in vivo neovascularization. *Biofabrication*, **2019**, 11, 025013	10.5	39
156	Bioinks for Three-Dimensional Printing in Regenerative Medicine **2019**, 805-830		3
155	Model Placental Barrier Phenotypic Response to Fluoxetine and Sertraline: A Comparative Study. *Advanced Healthcare Materials*, **2019**, 8, e1900476	10.1	9
154	Dual-chambered membrane bioreactor for coculture of stratified cell populations. *Biotechnology and Bioengineering*, **2019**, 116, 3253-3268	4.9	4
153	Development of surface functionalization strategies for 3D-printed polystyrene constructs. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 2566-2578	3.5	3
152	Perfusion Bioreactor Culture of Bone Marrow Stromal Cells Enhances Cranial Defect Regeneration. *Plastic and Reconstructive Surgery*, **2019**, 143, 993e-1002e	2.7	3
151	In Vitro Models for Studying Transport Across Epithelial Tissue Barriers. *Annals of Biomedical Engineering*, **2019**, 47, 1-21	4.7	19
150	Effect of Dexamethasone on Room Temperature Three-Dimensional Printing, Rheology, and Degradation of a Low Modulus Polyester for Soft Tissue Engineering. *ACS Biomaterials Science and Engineering*, **2019**, 5, 846-858	5.5	9
149	Synthetic polymer coatings diminish chronic inflammation risk in large ECM-based materials. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 494-504	5.4	8
148	ZEB2, a master regulator of the epithelial-mesenchymal transition, mediates trophoblast differentiation. *Molecular Human Reproduction*, **2019**, 25, 61-75	4.4	24

147	Enhanced extracellular vesicle production and ethanol-mediated vascularization bioactivity via a 3D-printed scaffold-perfusion bioreactor system. *Acta Biomaterialia*, **2019**, 95, 236-244	10.8	40
146	Development of keratin-based membranes for potential use in skin repair. *Acta Biomaterialia*, **2019**, 83, 177-188	10.8	19
145	Trophoblast-endothelium signaling involves angiogenesis and apoptosis in a dynamic bioprinted placenta model. *Biotechnology and Bioengineering*, **2019**, 116, 181-192	4.9	20
144	Three dimensional extrusion printing induces polymer molecule alignment and cell organization within engineered cartilage. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 2190-2199	5.4	17
143	Overcoming Ovarian Cancer Drug Resistance with a Cold Responsive Nanomaterial. *ACS Central Science*, **2018**, 4, 567-581	16.8	36
142	The Evolution of Polystyrene as a Cell Culture Material. *Tissue Engineering - Part B: Reviews*, **2018**, 24, 359-372	7.9	99
141	Placental basement membrane proteins are required for effective cytotrophoblast invasion in a three-dimensional bioprinted placenta model. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 1476-1487	5.4	30
140	Micro- and Macrobioprinting: Current Trends in Tissue Modeling and Organ Fabrication. *Small Methods*, **2018**, 2, 1700318	12.8	7
139	Effects of Shear Stress Gradients on Ewing Sarcoma Cells Using 3D Printed Scaffolds and Flow Perfusion. *ACS Biomaterials Science and Engineering*, **2018**, 4, 347-356	5.5	21
138	Repair of Tympanic Membrane Perforations with Customized Bioprinted Ear Grafts Using Chinchilla Models. *Tissue Engineering - Part A*, **2018**, 24, 527-535	3.9	37
137	Imaging stem cell distribution, growth, migration, and differentiation in 3-D scaffolds for bone tissue engineering using mesoscopic fluorescence tomography. *Biotechnology and Bioengineering*, **2018**, 115, 257-265	4.9	6
136	Incorporation of fast dissolving glucose porogens and poly(lactic-co-glycolic acid) microparticles within calcium phosphate cements for bone tissue regeneration. *Acta Biomaterialia*, **2018**, 78, 341-350	10.8	16
135	3D bioprinting for cardiovascular regeneration and pharmacology. *Advanced Drug Delivery Reviews*, **2018**, 132, 252-269	18.5	76
134	Translation and Validation of Spiritual Well-Being Questionnaire SHALOM in Lithuanian Language, Culture and Health Care Practice. *Religions*, **2018**, 9, 156	0.6	5
133	Biomimetic Placenta-Fetus Model Demonstrating Maternal-Fetal Transmission and Fetal Neural Toxicity of Zika Virus. *Annals of Biomedical Engineering*, **2018**, 46, 1963-1974	4.7	22
132	Fabrication and evaluation of 3D printed BCP scaffolds reinforced with ZrO for bone tissue applications. *Biotechnology and Bioengineering*, **2018**, 115, 989-999	4.9	46
131	Assessment of the Effects of Energy Density in Crosslinking of Keratin-Based Photo-Sensitive Resin **2018**,		3
130	3D Printing Bioactive PLGA Scaffolds Using DMSO as a Removable Solvent. *Bioprinting*, **2018**, 10,	7	12

129	3D printing in cell culture systems and medical applications. *Applied Physics Reviews*, **2018**, 5, 041109	17.3	20
128	Towards rationally designed biomanufacturing of therapeutic extracellular vesicles: impact of the bioproduction microenvironment. *Biotechnology Advances*, **2018**, 36, 2051-2059	17.8	51
127	3D printed biofunctionalized scaffolds for microfracture repair of cartilage defects. *Biomaterials*, **2018**, 185, 219-231	15.6	40
126	Fabrication and Printing of Multi-material Hydrogels **2018**, 397-430		
125	A Fluidic Culture Platform for Spatially Patterned Cell Growth, Differentiation, and Cocultures. *Tissue Engineering - Part A*, **2018**, 24, 1715-1732	3.9	22
124	Development and Characterization of a 3D Printed, Keratin-Based Hydrogel. *Annals of Biomedical Engineering*, **2017**, 45, 237-248	4.7	61
123	Extrusion-based 3D printing of poly(propylene fumarate) scaffolds with hydroxyapatite gradients. *Journal of Biomaterials Science, Polymer Edition*, **2017**, 28, 532-554	3.5	83
122	Collagen hydrogel scaffold promotes mesenchymal stem cell and endothelial cell coculture for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1123-1131	5.4	53
121	3D printing PLGA: a quantitative examination of the effects of polymer composition and printing parameters on print resolution. *Biofabrication*, **2017**, 9, 024101	10.5	57
120	3D printing for the design and fabrication of polymer-based gradient scaffolds. *Acta Biomaterialia*, **2017**, 56, 3-13	10.8	129
119	Bioengineering Strategies to Treat Female Infertility. *Tissue Engineering - Part B: Reviews*, **2017**, 23, 294-306	7.9	18
118	3D Bioprinting for Organ Regeneration. *Advanced Healthcare Materials*, **2017**, 6, 1601118	10.1	254
117	3D Printed Pericardium Hydrogels To Promote Wound Healing in Vascular Applications. *Biomacromolecules*, **2017**, 18, 3802-3811	6.9	29
116	Engineering Niches for Cartilage Tissue Regeneration **2017**, 531-546		2
115	4D printing of polymeric materials for tissue and organ regeneration. *Materials Today*, **2017**, 20, 577-591	21.8	200
114	Controlled Delivery of Tissue Inductive Factors in a Cardiovascular Hybrid Biomaterial Scaffold. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1350-1358	5.5	3
113	Prussian blue nanoparticle-based photothermal therapy combined with checkpoint inhibition for photothermal immunotherapy of neuroblastoma. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 771-781	6	92
112	Three-Dimensional Printing Articular Cartilage: Recapitulating the Complexity of Native Tissue. *Tissue Engineering - Part B: Reviews*, **2017**, 23, 225-236	7.9	40

111	The potential impact of bone tissue engineering in the clinic. *Regenerative Medicine*, **2016**, 11, 571-87	2.5	51
110	4D printing smart biomedical scaffolds with novel soybean oil epoxidized acrylate. *Scientific Reports*, **2016**, 6, 27226	4.9	200
109	Tunable osteogenic differentiation of hMPCs in tubular perfusion system bioreactor. *Biotechnology and Bioengineering*, **2016**, 113, 1805-13	4.9	18
108	3D Printed Vascular Networks Enhance Viability in High-Volume Perfusion Bioreactor. *Annals of Biomedical Engineering*, **2016**, 44, 3435-3445	4.7	25
107	Hydroxyapatite-doped alginate beads as scaffolds for the osteoblastic differentiation of mesenchymal stem cells. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 2325-33	5.4	13
106	Separation of Mesenchymal Stem Cells Through a Strategic Centrifugation Protocol. *Tissue Engineering - Part C: Methods*, **2016**, 22, 348-59	2.9	1
105	Dynamic Bioreactor Culture of High Volume Engineered Bone Tissue. *Tissue Engineering - Part A*, **2016**, 22, 263-71	3.9	32
104	Digital micromirror device (DMD)-based 3D printing of poly(propylene fumarate) scaffolds. *Materials Science and Engineering C*, **2016**, 61, 301-11	8.3	32
103	Effect of Dynamic Culture and Periodic Compression on Human Mesenchymal Stem Cell Proliferation and Chondrogenesis. *Annals of Biomedical Engineering*, **2016**, 44, 2103-13	4.7	59
102	Mesoscopic Fluorescence Molecular Tomography for Evaluating Engineered Tissues. *Annals of Biomedical Engineering*, **2016**, 44, 667-79	4.7	34
101	Extrusion-Based 3D Printing of Poly(propylene fumarate) in a Full-Factorial Design. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1771-1780	5.5	67
100	Influence of 3D printed porous architecture on mesenchymal stem cell enrichment and differentiation. *Acta Biomaterialia*, **2016**, 32, 161-169	10.8	70
99	Effect of prevascularization on in vivo vascularization of poly(propylene fumarate)/fibrin scaffolds. *Biomaterials*, **2016**, 77, 255-66	15.6	58
98	3D-Printed Biodegradable Polymeric Vascular Grafts. *Advanced Healthcare Materials*, **2016**, 5, 319-325	10.1	96
97	Development of a 3D Printed, Bioengineered Placenta Model to Evaluate the Role of Trophoblast Migration in Preeclampsia. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1817-1826	5.5	46
96	In Vitro Endothelialization of Biodegradable Vascular Grafts Via Endothelial Progenitor Cell Seeding and Maturation in a Tubular Perfusion System Bioreactor. *Tissue Engineering - Part C: Methods*, **2016**, 22, 663-70	2.9	52
95	X-ray phase contrast imaging of calcified tissue and biomaterial structure in bioreactor engineered tissues. *Biotechnology and Bioengineering*, **2015**, 112, 612-20	4.9	15
94	3D printing of resorbable poly(propylene fumarate) tissue engineering scaffolds. *MRS Bulletin*, **2015**, 40, 119-126	3.2	53

93	Cell-Laden 3D Printed Scaffolds for Bone Tissue Engineering. *Clinical Reviews in Bone and Mineral Metabolism*, **2015**, 13, 245-255	2.5	20
92	Evaluating 3D-printed biomaterials as scaffolds for vascularized bone tissue engineering. *Advanced Materials*, **2015**, 27, 138-44	24	196
91	Extracellular Matrix-Based Biohybrid Materials for Engineering Compliant, Matrix-Dense Tissues. *Advanced Healthcare Materials*, **2015**, 4, 2475-87	10.1	28
90	Tubular perfusion system for chondrocyte culture and superficial zone protein expression. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 1864-74	5.4	9
89	Enhanced Viability of Endothelial Colony Forming Cells in Fibrin Microbeads for Sensor Vascularization. *Sensors*, **2015**, 15, 23886-902	3.8	7
88	Evaluating changes in structure and cytotoxicity during in vitro degradation of three-dimensional printed scaffolds. *Tissue Engineering - Part A*, **2015**, 21, 1642-53	3.9	40
87	Synergistic effect of sustained release of growth factors and dynamic culture on osteoblastic differentiation of mesenchymal stem cells. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 2161-71	5.4	37
86	Self-folding thermo-magnetically responsive soft microgrippers. *ACS Applied Materials & Interfaces*, **2015**, 7, 3398-405	9.5	341
85	Stimuli-responsive theragrippers for chemomechanical controlled release. *Angewandte Chemie - International Edition*, **2014**, 53, 8045-8049	16.4	146
84	Engineering superficial zone chondrocytes from mesenchymal stem cells. *Tissue Engineering - Part C: Methods*, **2014**, 20, 630-40	2.9	9
83	Stimuli-Responsive Theragrippers for Chemomechanical Controlled Release. *Angewandte Chemie*, **2014**, 126, 8183-8187	3.6	36
82	Development and assessment of a biodegradable solvent cast polyester fabric small-diameter vascular graft. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 1972-1981	5.4	18
81	Development of a dynamic stem cell culture platform for mesenchymal stem cell adhesion and evaluation. *Molecular Pharmaceutics*, **2014**, 11, 2172-81	5.6	12
80	Neural differentiation of pluripotent cells in 3D alginate-based cultures. *Biomaterials*, **2014**, 35, 4636-45	15.6	75
79	Mesenchymal stem cells: roles and relationships in vascularization. *Tissue Engineering - Part B: Reviews*, **2014**, 20, 218-28	7.9	46
78	Validating continuous digital light processing (cDLP) additive manufacturing accuracy and tissue engineering utility of a dye-initiator package. *Biofabrication*, **2014**, 6, 015003	10.5	46
77	Reinforced pericardium as a hybrid material for cardiovascular applications. *Tissue Engineering - Part A*, **2014**, 20, 2807-16	3.9	22
76	Multiple initiators and dyes for continuous Digital Light Processing (cDLP) additive manufacture of resorbable bone tissue engineering scaffolds. *Virtual and Physical Prototyping*, **2014**, 9, 3-9	10.1	32

75	In vivo bone regeneration using tubular perfusion system bioreactor cultured nanofibrous scaffolds. *Tissue Engineering - Part A*, **2014**, 20, 139-46	3.9	34
74	Characterization of the Adhesive Interactions Between Cells and Biomaterials **2013**, 159-182		
73	Photocrosslinked alginate with hyaluronic acid hydrogels as vehicles for mesenchymal stem cell encapsulation and chondrogenesis. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 1962-70	5.4	39
72	Bioreactors to influence stem cell fate: augmentation of mesenchymal stem cell signaling pathways via dynamic culture systems. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 2470-80	4	91
71	Evaluation of the in vitro cytotoxicity of cross-linked biomaterials. *Biomacromolecules*, **2013**, 14, 1321-9	6.9	105
70	Biological Implications of Polymeric Scaffolds for Bone Tissue Engineering Developed via Solid Freeform Fabrication **2012**, 483-507		
69	Continuous Digital Light Processing (cDLP): Highly Accurate Additive Manufacturing of Tissue Engineered Bone Scaffolds. *Virtual and Physical Prototyping*, **2012**, 7, 13-24	10.1	86
68	Gene expression of alginate-embedded chondrocyte subpopulations and their response to exogenous IGF-1 delivery. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 179-92	4.4	24
67	Matrix molecule influence on chondrocyte phenotype and proteoglycan 4 expression by alginate-embedded zonal chondrocytes and mesenchymal stem cells. *Journal of Orthopaedic Research*, **2012**, 30, 1886-97	3.8	23
66	Tubular perfusion system culture of human mesenchymal stem cells on poly-L-lactic acid scaffolds produced using a supercritical carbon dioxide-assisted process. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 2563-72	5.4	40
65	Coculture strategies in bone tissue engineering: the impact of culture conditions on pluripotent stem cell populations. *Tissue Engineering - Part B: Reviews*, **2012**, 18, 312-21	7.9	19
64	Human mesenchymal stem cell position within scaffolds influences cell fate during dynamic culture. *Biotechnology and Bioengineering*, **2012**, 109, 2381-91	4.9	39
63	Centrifugation assay for measuring adhesion of serially passaged bovine chondrocytes to polystyrene surfaces. *Tissue Engineering - Part C: Methods*, **2012**, 18, 537-44	2.9	5
62	Bone tissue engineering bioreactors: dynamic culture and the influence of shear stress. *Bone*, **2011**, 48, 171-81	4.7	207
61	Formation of an aggregated alginate construct in a tubular perfusion system. *Tissue Engineering - Part C: Methods*, **2011**, 17, 1171-8	2.9	24
60	Tubular perfusion system for the long-term dynamic culture of human mesenchymal stem cells. *Tissue Engineering - Part C: Methods*, **2011**, 17, 337-48	2.9	65
59	Multimodal imaging of sustained drug release from 3-D poly(propylene fumarate) (PPF) scaffolds. *Journal of Controlled Release*, **2011**, 156, 239-45	11.7	51
58	Porous EH and EH-PEG scaffolds as gene delivery vehicles to skeletal muscle. *Pharmaceutical Research*, **2011**, 28, 1306-16	4.5	12

57	The influence of stereolithographic scaffold architecture and composition on osteogenic signal expression with rat bone marrow stromal cells. *Biomaterials*, **2011**, 32, 3750-63	15.6	120
56	Fabrication and characterization of porous EH scaffolds and EH-PEG bilayers. *Journal of Biomedical Materials Research - Part A*, **2011**, 97, 264-71	5.4	1
55	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. *Acta Biomaterialia*, **2011**, 7, 1249-64	10.8	107
54	Cartilage Engineering: Current Status and Future Trends **2011**, 279-306		1
53	Macroporous hydrogel scaffolds and their characterization by optical coherence tomography. *Tissue Engineering - Part C: Methods*, **2011**, 17, 101-12	2.9	46
52	Three-dimensional imaging of stem cell distribution within tissue engineering scaffolds using angled fluorescent laminar optical tomography (aFLOT) **2011**,		1
51	Stereolithographic bone scaffold design parameters: osteogenic differentiation and signal expression. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 523-39	7.9	182
50	Macroporous hydrogels upregulate osteogenic signal expression and promote bone regeneration. *Biomacromolecules*, **2010**, 11, 1160-8	6.9	65
49	Cyclic acetal hydroxyapatite nanocomposites for orbital bone regeneration. *Tissue Engineering - Part A*, **2010**, 16, 55-65	3.9	14
48	Cyclic acetal hydroxyapatite composites and endogenous osteogenic gene expression of rat marrow stromal cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2010**, 4, 422-36	4.4	10
47	Investigation of pore structure and cell distribution in EH-PEG hydrogel scaffold using optical coherence tomography and fluorescence microscopy **2010**,		2
46	Challenges associated with regeneration of orbital floor bone. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 541-50	7.9	13
45	Phenotypic variations in chondrocyte subpopulations and their response to in vitro culture and external stimuli. *Annals of Biomedical Engineering*, **2010**, 38, 3371-88	4.7	33
44	In vitro effects of cisplatin-functionalized silica nanoparticles on chondrocytes. *Journal of Nanoparticle Research*, **2010**, 12, 2757-2770	2.3	9
43	Characterization of cyclic acetal hydroxyapatite nanocomposites for craniofacial tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 408-18	5.4	15
42	Addition of hyaluronic acid to alginate embedded chondrocytes interferes with insulin-like growth factor-1 signaling in vitro and in vivo. *Tissue Engineering - Part A*, **2009**, 15, 3449-59	3.9	30
41	Tissue response and orbital floor regeneration using cyclic acetal hydrogels. *Journal of Biomedical Materials Research - Part A*, **2009**, 90, 819-29	5.4	28
40	Cellular responses to degradable cyclic acetal modified PEG hydrogels. *Journal of Biomedical Materials Research - Part A*, **2009**, 90, 863-73	5.4	10

39	Chemo-enzymatic synthesis of degradable PTMC-b-PECA-b-PTMC triblock copolymers and their micelle formation for pH-dependent controlled release. *Macromolecular Bioscience*, **2009**, 9, 613-21	5.5	38
38	Synthesis of poly(propylene fumarate). *Nature Protocols*, **2009**, 4, 518-25	18.8	156
37	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. *Biomacromolecules*, **2009**, 10, 1810-7	6.9	114
36	Osteogenic differentiation of bone marrow stromal cells induced by coculture with chondrocytes encapsulated in three-dimensional matrices. *Tissue Engineering - Part A*, **2009**, 15, 1181-90	3.9	25
35	Natural and Synthetic Polymeric Scaffolds **2009**, 415-442		11
34	EH Networks as a scaffold for skeletal muscle regeneration in abdominal wall hernia repair. *Journal of Surgical Research*, **2008**, 149, 76-83	2.5	21
33	Synthesis and characterization of cyclic acetal based degradable hydrogels. *European Journal of Pharmaceutics and Biopharmaceutics*, **2008**, 68, 67-73	5.7	53
32	Biomaterial scaffolds in pediatric tissue engineering. *Pediatric Research*, **2008**, 63, 497-501	3.2	67
31	Effects of exogenous IGF-1 delivery on the early expression of IGF-1 signaling molecules by alginate embedded chondrocytes. *Tissue Engineering - Part A*, **2008**, 14, 1263-73	3.9	27
30	Recent developments in cyclic acetal biomaterials for tissue engineering applications. *Pharmaceutical Research*, **2008**, 25, 2348-56	4.5	52
29	Cyclic acetal hydrogel system for bone marrow stromal cell encapsulation and osteodifferentiation. *Journal of Biomedical Materials Research - Part A*, **2008**, 86, 662-70	5.4	47
28	Skeletal muscle tissue engineering approaches to abdominal wall hernia repair. *Birth Defects Research Part C: Embryo Today Reviews*, **2008**, 84, 315-21		11
27	Synthesis and Properties of Poly[poly(ethylene glycol)-co-cyclic acetal] Based Hydrogels. *Macromolecules*, **2007**, 40, 7625-7632	5.5	50
26	Strategic directions in tissue engineering. *Tissue Engineering*, **2007**, 13, 2827-37		131
25	Nanoparticle technology in bone tissue engineering. *Journal of Drug Targeting*, **2007**, 15, 241-52	5.4	94
24	Synthesis and properties of cyclic acetal biomaterials. *Journal of Biomedical Materials Research - Part A*, **2007**, 81, 594-602	5.4	24
23	Effect of construct properties on encapsulated chondrocyte expression of insulin-like growth factor-1. *Biomaterials*, **2007**, 28, 299-306	15.6	32
22	Synthesis of poly(L-lactide) and polyglycolide by ring-opening polymerization. *Nature Protocols*, **2007**, 2, 2767-71	18.8	94

21	Tissue engineering solutions for cleft palates. *Journal of Oral and Maxillofacial Surgery*, **2007**, 65, 2503-11	1.8	70
20	Polymeric Scaffolds for Tissue Engineering Applications **2007**, 8-1-8-18		3
19	Engineering Polymeric Scaffolds for Bone Grafts **2007**, 81-94		2
18	Chondrocyte signaling and artificial matrices for articular cartilage engineering. *Advances in Experimental Medicine and Biology*, **2006**, 585, 67-86	3.6	41
17	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. *Tissue Engineering*, **2005**, 11, 923-39		30
16	Effect of biomaterial properties on bone healing in a rabbit tooth extraction socket model. *Journal of Biomedical Materials Research Part B*, **2004**, 68, 428-38		49
15	Thermoreversible hydrogel scaffolds for articular cartilage engineering. *Journal of Biomedical Materials Research Part B*, **2004**, 71, 268-74		103
14	Use of stereolithography to manufacture critical-sized 3D biodegradable scaffolds for bone ingrowth. *Journal of Biomedical Materials Research Part B*, **2003**, 64, 65-9		403
13	Photoinitiated cross-linking of the biodegradable polyester poly(propylene fumarate). Part II. In vitro degradation. *Biomacromolecules*, **2003**, 4, 1335-42	6.9	73
12	Photoinitiated cross-linking of the biodegradable polyester poly(propylene fumarate). Part I. Determination of network structure. *Biomacromolecules*, **2003**, 4, 1327-34	6.9	70
11	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. *Tissue Engineering*, **2003**, 9, 495-504		40
10	Use of stereolithography to manufacture critical-sized 3D biodegradable scaffolds for bone ingrowth **2003**, 64B, 65		1
9	In vitro degradation and fracture toughness of multilayered porous poly(propylene fumarate)/beta-tricalcium phosphate scaffolds. *Journal of Biomedical Materials Research Part B*, **2002**, 61, 159-64		23
8	Bone formation in transforming growth factor beta-1-coated porous poly(propylene fumarate) scaffolds. *Journal of Biomedical Materials Research Part B*, **2002**, 60, 241-51		94
7	Soft and hard tissue response to photocrosslinked poly(propylene fumarate) scaffolds in a rabbit model. *Journal of Biomedical Materials Research Part B*, **2002**, 59, 547-56		206
6	Photocrosslinking characteristics and mechanical properties of diethyl fumarate/poly(propylene fumarate) biomaterials. *Biomaterials*, **2002**, 23, 4333-43	15.6	172
5	Photoinitiated Polymerization of Biomaterials. *Annual Review of Materials Research*, **2001**, 31, 171-181	12.8	133
4	Synthesis and Characterization of Oligo(poly(ethylene glycol) fumarate) Macromer. *Macromolecules* , **2001**, 34, 2839-2844	5.5	141

3	Direct-Write Construction of Tissue-Engineered Scaffolds. *Materials Research Society Symposia Proceedings*, **2001**, 698, 551		3
2	Factors determining hydrogel permeability. *Annals of the New York Academy of Sciences*, **1997**, 831, 179-207	2.57	78
1	Catheter ablation for control of ventricular tachycardia: a report of the percutaneous cardiac mapping and ablation registry. *PACE - Pacing and Clinical Electrophysiology*, **1986**, 9, 1391-5	1.6	39