

# Lorenzo Moroni

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7802577/lorenzo-moroni-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

277 papers	9,310 citations	50 h-index	85 g-index
316 ext. papers	11,331 ext. citations	8.5 avg, IF	6.68 L-index

#	Paper	IF	Citations
277	Development of a device useful to reproducibly produce large quantities of viable and uniform stem cell spheroids with controlled diameters.. <i>Materials Science and Engineering C</i> , <b>2022</b> , 112685	8.3	1
276	Universal Strategy for Designing Shape Memory Hydrogels <b>2022</b> , 4, 701-706		1
275	Static systems to obtain 3D spheroid cell models: a cost analysis comparing the implementation of four types of microwell array inserts. <i>Biochemical Engineering Journal</i> , <b>2022</b> , 108414	4.2	1
274	Regenerative therapies for tympanic membrane. <i>Progress in Materials Science</i> , <b>2022</b> , 127, 100942	42.2	0
273	Effect of high content nanohydroxyapatite composite scaffolds prepared via melt extrusion additive manufacturing on the osteogenic differentiation of human mesenchymal stromal cells <b>2022</b> , 212833		0
272	Soft, Dynamic Hydrogel Confinement Improves Kidney Organoid Lumen Morphology and Reduces Epithelial-Mesenchymal Transition in Culture.. <i>Advanced Science</i> , <b>2022</b> , e2200543	13.6	3
271	3D culture platform of human iPSCs-derived nociceptors for peripheral nerve modeling and tissue innervation. <i>Biofabrication</i> , <b>2021</b> , 14,	10.5	2
270	Neurovascular signals in amyotrophic lateral sclerosis. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 74, 75-83	11.4	0
269	Potential of CO-laser processing of quartz for fast prototyping of microfluidic reactors and templates for 3D cell assembly over large scale.. <i>Materials Today Bio</i> , <b>2021</b> , 12, 100163	9.9	2
268	Shaping and properties of thermoplastic scaffolds in tissue regeneration: The effect of thermal history on polymer crystallization, surface characteristics and cell fate. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 3914	2.5	0
267	Biomimetic double network hydrogels: Combining dynamic and static crosslinks to enable biofabrication and control cell-matrix interactions. <i>Journal of Polymer Science</i> , <b>2021</b> , 59, 2832	2.4	2
266	Parallels between the Developing Vascular and Neural Systems: Signaling Pathways and Future Perspectives for Regenerative Medicine. <i>Advanced Science</i> , <b>2021</b> , 8, e2101837	13.6	2
265	Tuning Hydrogels by Mixing Dynamic Cross-Linkers: Enabling Cell-Instructive Hydrogels and Advanced Bioinks. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 11, e2101576	10.1	8
264	3D Printed Dual-Porosity Scaffolds: The Combined Effect of Stiffness and Porosity in the Modulation of Macrophage Polarization. <i>Advanced Healthcare Materials</i> , <b>2021</b> , e2101415	10.1	4
263	Biomimetic Mechanically Strong One-Dimensional Hydroxyapatite/Poly(d,l-lactide) Composite Inducing Formation of Anisotropic Collagen Matrix. <i>ACS Nano</i> , <b>2021</b> ,	16.7	2
262	Control Delivery of Multiple Growth Factors to Actively Steer Differentiation and Extracellular Matrix Protein Production. <i>Advanced Biology</i> , <b>2021</b> , 5, e2000205		0
261	Fabrication of hybrid scaffolds obtained from combinations of PCL with gelatin or collagen via electrospinning for skeletal muscle tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2021</b> , 109, 1600-1612	5.4	15

260	Evolution of Metastasis Study Models toward Metastasis-On-A-Chip: The Ultimate Model?. <i>Small</i> , <b>2021</b> , 17, e2006009	11	2
259	The convergence of high-tech emerging technologies into the next stage of organ-on-a-chips. <i>Biomaterials and Biosystems</i> , <b>2021</b> , 1, 100012		4
258	Realizing tissue integration with supramolecular hydrogels. <i>Acta Biomaterialia</i> , <b>2021</b> , 124, 1-14	10.8	7
257	Bioprinting Via a Dual-Gel Bioink Based on Poly(Vinyl Alcohol) and Solubilized Extracellular Matrix towards Cartilage Engineering. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
256	3D porous Ti6Al4V-beta-tricalcium phosphate scaffolds directly fabricated by additive manufacturing. <i>Acta Biomaterialia</i> , <b>2021</b> , 126, 496-510	10.8	7
255	Glycosaminoglycans: From Vascular Physiology to Tissue Engineering Applications. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 680836	5	2
254	Recent Advancements in Regenerative Approaches for Thymus Rejuvenation. <i>Advanced Science</i> , <b>2021</b> , 8, 2100543	13.6	2
253	Mimicking the Human Tympanic Membrane: The Significance of Scaffold Geometry. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002082	10.1	4
252	Safe-by-design strategies applied to scaffold hybrid manufacturing. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 1953, 012009	0.3	1
251	(Macro)Molecular Imprinting of Proteins on PCL Electrospun Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29293-29302	9.5	2
250	Electrospinning for drug delivery applications: A review. <i>Journal of Controlled Release</i> , <b>2021</b> , 334, 463-484	11.7	107
249	Size Effects in Finite Element Modelling of 3D Printed Bone Scaffolds Using Hydroxyapatite PEOT/PBT Composites. <i>Mathematics</i> , <b>2021</b> , 9, 1746	2.3	1
248	Controllable four axis extrusion-based additive manufacturing system for the fabrication of tubular scaffolds with tailorable mechanical properties. <i>Materials Science and Engineering C</i> , <b>2021</b> , 119, 111472	8.3	6
247	3D additive manufactured composite scaffolds with antibiotic-loaded lamellar fillers for bone infection prevention and tissue regeneration. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1073-1082	16.7	18
246	Steering cell behavior through mechanobiology in 3D: A regenerative medicine perspective. <i>Biomaterials</i> , <b>2021</b> , 268, 120572	15.6	17
245	Tuning Cell Behavior on 3D Scaffolds Fabricated by Atmospheric Plasma-Assisted Additive Manufacturing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3631-3644	9.5	7
244	Effect of the reduced graphene oxide (rGO) compaction degree and concentration on rGO-polymer composite printability and cell interactions. <i>Nanoscale</i> , <b>2021</b> , 13, 14382-14398	7.7	0
243	Ultrahigh-water-content biocompatible gelatin-based hydrogels: Toughened through micro-sized dissipative morphology as an effective strategy. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111750	8.3	4

242	A hybrid additive manufacturing platform to create bulk and surface composition gradients on scaffolds for tissue regeneration. <i>Nature Communications</i> , <b>2021</b> , 12, 500	17.4	12
241	Trends in Double Networks as Bioprintable and Injectable Hydrogel Scaffolds for Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 4077-4101	5.5	11
240	Long-term preservation effects on biological properties of acellular placental sponge patches. <i>Materials Science and Engineering C</i> , <b>2021</b> , 121, 111814	8.3	1
239	Cell spheroids as a versatile research platform: formation mechanisms, high throughput production, characterization and applications. <i>Biofabrication</i> , <b>2021</b> ,	10.5	9
238	Janus 3D printed dynamic scaffolds for nanovibration-driven bone regeneration. <i>Nature Communications</i> , <b>2021</b> , 12, 1031	17.4	15
237	Additive Manufactured Scaffolds for Bone Tissue Engineering: Physical Characterization of Thermoplastic Composites with Functional Fillers. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 3788-3799	4.3	4
236	Bioprinting of kidney in vitro models: cells, biomaterials, and manufacturing techniques. <i>Essays in Biochemistry</i> , <b>2021</b> , 65, 587-602	7.6	6
235	Biomimetic Scaffolds Obtained by Electrospinning of Collagen-Based Materials: Strategies to Hinder the Protein Denaturation. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
234	Peripheral neurovascular link: an overview of interactions and in vitro models. <i>Trends in Endocrinology and Metabolism</i> , <b>2021</b> , 32, 623-638	8.8	0
233	Chitin Nanofibril Application in Tympanic Membrane Scaffolds to Modulate Inflammatory and Immune Response. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	6
232	What can biofabrication do for space and what can space do for biofabrication?. <i>Trends in Biotechnology</i> , <b>2021</b> ,	15.1	2
231	PEOT/PBT Polymeric Pastes to Fabricate Additive Manufactured Scaffolds for Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 704185	5.8	
230	An efficient and easily adjustable heating stage for digital light processing set-ups. <i>Additive Manufacturing</i> , <b>2021</b> , 46, 102102	6.1	5
229	A thermo-sensitive chitosan/pectin hydrogel for long-term tumor spheroid culture. <i>Carbohydrate Polymers</i> , <b>2021</b> , 274, 118633	10.3	6
228	Thermosensitive chitosan-based hydrogels supporting motor neuron-like NSC-34 cell differentiation. <i>Biomaterials Science</i> , <b>2021</b> , 9, 7492-7503	7.4	2
227	Additive Manufacturing Using Melt Extruded Thermoplastics for Tissue Engineering. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2147, 75-99	1.4	4
226	Mechanosensitive regulation of stanniocalcin-1 by zyxin and actin-myosin in human mesenchymal stromal cells. <i>Stem Cells</i> , <b>2020</b> , 38, 948-959	5.8	4
225	Bioprinting: From Tissue and Organ Development to Models. <i>Chemical Reviews</i> , <b>2020</b> , 120, 10547-10607	68.1	86

224	Strategies to Improve Nanofibrous Scaffolds for Vascular Tissue Engineering. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	13
223	Tuning the conformation and mechanical properties of silk fibroin hydrogels. <i>European Polymer Journal</i> , <b>2020</b> , 134, 109842	5.2	35
222	Fabrication of a self-assembled honeycomb nanofibrous scaffold to guide endothelial morphogenesis. <i>Biofabrication</i> , <b>2020</b> , 12, 045001	10.5	5
221	Multivalency Enables Dynamic Supramolecular Host-Guest Hydrogel Formation. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2208-2217	6.9	14
220	Modulating Alginate Hydrogels for Improved Biological Performance as Cellular 3D Microenvironments. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 665	5.8	34
219	Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds. <i>Small</i> , <b>2020</b> , 16, e2002258	11	7
218	Ciprofloxacin-loaded polymeric nanoparticles incorporated electrospun fibers for drug delivery in tissue engineering applications. <i>Drug Delivery and Translational Research</i> , <b>2020</b> , 10, 706-720	6.2	33
217	Dynamic Biopinks to Advance Bioprinting. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901798	10.1	73
216	Glycosaminoglycan-Inspired Biomaterials for the Development of Bioactive Hydrogel Networks. <i>Molecules</i> , <b>2020</b> , 25,	4.8	17
215	Dimensionality changes actin network through lamin A/C and zyxin. <i>Biomaterials</i> , <b>2020</b> , 240, 119854	15.6	7
214	Scaffold-free and label-free biofabrication technology using levitational assembly in a high magnetic field. <i>Biofabrication</i> , <b>2020</b> , 12, 045022	10.5	11
213	Tandem electrospinning for heterogeneous nanofiber patterns. <i>Biofabrication</i> , <b>2020</b> , 12, 025010	10.5	3
212	The bioprinting roadmap. <i>Biofabrication</i> , <b>2020</b> , 12, 022002	10.5	137
211	Bio-Fabrication: Convergence of 3D Bioprinting and Nano-Biomaterials in Tissue Engineering and Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 326	5.8	30
210	SCREENED: A Multistage Model of Thyroid Gland Function for Screening Endocrine-Disrupting Chemicals in a Biologically Sex-Specific Manner. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
209	Autologous Mandril-Based Vascular Grafts <b>2020</b> , 1-23		
208	Fiber diameter, porosity and functional group gradients in electrospun scaffolds. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 045020	3.5	5
207	Improving cell distribution on 3D additive manufactured scaffolds through engineered seeding media density and viscosity. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 183-195	10.8	23

206	A novel method for engineering autologous non-thrombogenic in situ tissue-engineered blood vessels for arteriovenous grafting. <i>Biomaterials</i> , <b>2020</b> , 229, 119577	15.6	16
205	Decellularized Porcine Achilles Tendon Induces Anti-inflammatory Macrophage Phenotype In Vitro and Tendon Repair In Vivo. <i>Journal of Immunology and Regenerative Medicine</i> , <b>2020</b> , 8, 100027	2.8	5
204	The role of calcium phosphate surface structure in osteogenesis and the mechanisms involved. <i>Acta Biomaterialia</i> , <b>2020</b> , 106, 22-33	10.8	47
203	Tissue Engineering and Regenerative Medicine 2019: The Role of Biofabrication-A Year in Review. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 91-106	2.9	24
202	Decellularization of porcine heart tissue to obtain extracellular matrix based hydrogels. <i>Methods in Cell Biology</i> , <b>2020</b> , 157, 3-21	1.8	3
201	Effects of Fiber Alignment and Coculture with Endothelial Cells on Osteogenic Differentiation of Mesenchymal Stromal Cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 11-22	2.9	4
200	Additive manufacturing of an elastic poly(ester)urethane for cartilage tissue engineering. <i>Acta Biomaterialia</i> , <b>2020</b> , 102, 192-204	10.8	16
199	Leveling Up Hydrogels: Hybrid Systems in Tissue Engineering. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 292-315	15.1	24
198	Development of Injectable Thermosensitive Chitosan-Based Hydrogels for Cell Encapsulation. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 6550	2.6	7
197	Microfluidic bioprinting towards a renal in vitro model. <i>Bioprinting</i> , <b>2020</b> , 20, e00108	7	9
196	A three-dimensional biomimetic peripheral nerve model for drug testing and disease modelling. <i>Biomaterials</i> , <b>2020</b> , 257, 120230	15.6	12
195	A One-Step Biofunctionalization Strategy of Electrospun Scaffolds Enables Spatially Selective Presentation of Biological Cues. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000269	6.8	1
194	Fundamentals of light-cell-polymer interactions in photo-cross-linking based bioprinting. <i>APL Bioengineering</i> , <b>2020</b> , 4, 041502	6.6	9
193	Actomyosin and the MRTF-SRF pathway downregulate FGFR1 in mesenchymal stromal cells. <i>Communications Biology</i> , <b>2020</b> , 3, 576	6.7	2
192	Biofabrication of Hepatic Constructs by 3D Bioprinting of a Cell-Laden Thermogel: An Effective Tool to Assess Drug-Induced Hepatotoxic Response. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2001163	10.1	21
191	pH Monitoring: Probing the pH Microenvironment of Mesenchymal Stromal Cell Cultures on Additive-Manufactured Scaffolds (Small 34/2020). <i>Small</i> , <b>2020</b> , 16, 2070187	11	
190	Autologous Mandril-Based Vascular Grafts <b>2020</b> , 271-293		
189	Additive manufactured, highly resilient, elastic, and biodegradable poly(ester)urethane scaffolds with chondroinductive properties for cartilage tissue engineering. <i>Materials Today Bio</i> , <b>2020</b> , 6, 100051	9.9	10

188	A quantitative method to analyse F-actin distribution in cells. <i>MethodsX</i> , <b>2019</b> , 6, 2562-2569	1.9	12
187	Bioprinting Vasculature: Materials, Cells and Emergent Techniques. <i>Materials</i> , <b>2019</b> , 12,	3.5	50
186	Shape-defined solid micro-objects from poly(d,l-lactic acid) as cell-supportive counterparts in bottom-up tissue engineering. <i>Materials Today Bio</i> , <b>2019</b> , 4, 100025	9.9	8
185	Hybrid Polyester-Hydrogel Electrospun Scaffolds for Tissue Engineering Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 231	5.8	7
184	Biological activity of human mesenchymal stromal cells on polymeric electrospun scaffolds. <i>Biomaterials Science</i> , <b>2019</b> , 7, 1088-1100	7.4	16
183	Self-assembly of electrospun nanofibers into gradient honeycomb structures. <i>Materials and Design</i> , <b>2019</b> , 168, 107614	8.1	26
182	Hybrid and Composite Scaffolds Based on Extracellular Matrices for Cartilage Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2019</b> , 25, 202-224	7.9	36
181	Multiwell three-dimensional systems enable in vivo screening of immune reactions to biomaterials: a new strategy toward translational biomaterial research. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2019</b> , 30, 61	4.5	1
180	Ultraviolet Functionalization of Electrospun Scaffolds to Activate Fibrous Runways for Targeting Cell Adhesion. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 159	5.8	3
179	From fiber curls to mesh waves: a platform for the fabrication of hierarchically structured nanofibers mimicking natural tissue formation. <i>Nanoscale</i> , <b>2019</b> , 11, 14312-14321	7.7	5
178	Chondrogenesis of human adipose-derived mesenchymal stromal cells on the [devitalized costal cartilage matrix/poly(vinyl alcohol)/fibrin] hybrid scaffolds. <i>European Polymer Journal</i> , <b>2019</b> , 118, 528-541	5.2	13
177	Conductive hydrogel based on chitosan-aniline pentamer/gelatin/agarose significantly promoted motor neuron-like cells differentiation of human olfactory ecto-mesenchymal stem cells. <i>Materials Science and Engineering C</i> , <b>2019</b> , 101, 243-253	8.3	55
176	Biofabrication: From Additive Manufacturing to Bioprinting <b>2019</b> , 41-41		1
175	Glycosaminoglycan functionalization of electrospun scaffolds enhances Schwann cell activity. <i>Acta Biomaterialia</i> , <b>2019</b> , 96, 188-202	10.8	17
174	Sustained delivery of growth factors with high loading efficiency in a layer by layer assembly. <i>Biomaterials Science</i> , <b>2019</b> , 8, 174-188	7.4	10
173	Cranioplasty with patient-specific implants in repeatedly reconstructed cases. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2019</b> , 47, 709-714	3.6	6
172	Lab-on-a-brane for spheroid formation. <i>Biofabrication</i> , <b>2019</b> , 11, 021002	10.5	3
171	Poly(caprolactone-co-trimethylenecarbonate) urethane acrylate resins for digital light processing of bioresorbable tissue engineering implants. <i>Biomaterials Science</i> , <b>2019</b> , 7, 4984-4989	7.4	19



170	3D-printed bioactive scaffolds from nanosilicates and PEOT/PBT for bone tissue engineering. <i>International Journal of Energy Production and Management</i> , <b>2019</b> , 6, 29-37	5.3	17
169	Contribution of bone marrow-derived cells to in situ engineered tissue capsules in a rat model of chronic kidney disease. <i>Biomaterials</i> , <b>2019</b> , 194, 47-56	15.6	7
168	Acrylic Acid Plasma Coated 3D Scaffolds for Cartilage tissue engineering applications. <i>Scientific Reports</i> , <b>2018</b> , 8, 3830	4.9	28
167	Influence of the nanofiber chemistry and orientation of biodegradable poly(butylene succinate)-based scaffolds on osteoblast differentiation for bone tissue regeneration. <i>Nanoscale</i> , <b>2018</b> , 10, 8689-8703	7.7	50
166	Biomimetic Architectures for Peripheral Nerve Repair: A Review of Biofabrication Strategies. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1701164	10.1	64
165	Nerve Repair: Biomimetic Architectures for Peripheral Nerve Repair: A Review of Biofabrication Strategies (Adv. Healthcare Mater. 8/2018). <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1870035	10.1	3
164	Biofabrication strategies for 3D in vitro models and regenerative medicine. <i>Nature Reviews Materials</i> , <b>2018</b> , 3, 21-37	73.3	317
163	An antibody based approach for multi-coloring osteogenic and chondrogenic proteins in tissue engineered constructs. <i>Biomedical Materials (Bristol)</i> , <b>2018</b> , 13, 044102	3.5	2
162	Soft-molecular imprinted electrospun scaffolds to mimic specific biological tissues. <i>Biofabrication</i> , <b>2018</b> , 10, 045005	10.5	15
161	Geometric constraints of endothelial cell migration on electrospun fibres. <i>Scientific Reports</i> , <b>2018</b> , 8, 6386	4.9	17
160	3D fiber deposited polymeric scaffolds for external auditory canal wall. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 63	4.5	7
159	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , <b>2018</b> , 36, 384-402	15.1	309
158	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , <b>2018</b> , 4,	4.2	44
157	Nanoroughness, Surface Chemistry, and Drug Delivery Control by Atmospheric Plasma Jet on Implantable Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39512-39523	9.5	32
156	Enhancement of synthesis of extracellular matrix proteins on retinoic acid loaded electrospun scaffolds. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 6468-6480	7.3	3
155	Characterization of Additive Manufactured Scaffolds <b>2018</b> , 55-78		1
154	Thiol-Ene Alginate Hydrogels as Versatile Bioinks for Bioprinting. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3390-3400	10.9	103
153	Utilizing the Foreign Body Response to Grow Tissue Engineered Blood Vessels in Vivo. <i>Journal of Cardiovascular Translational Research</i> , <b>2017</b> , 10, 167-179	3.3	34



152	Cells responding to surface structure of calcium phosphate ceramics for bone regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 3273-3283	4.4	11
151	Stricalcium phosphate nanofiber scaffolds with fine unidirectional grains. <i>Materials Letters</i> , <b>2017</b> , 208, 118-121	3.3	5
150	Topography of calcium phosphate ceramics regulates primary cilia length and TGF receptor recruitment associated with osteogenesis. <i>Acta Biomaterialia</i> , <b>2017</b> , 57, 487-497	10.8	29
149	3D screening device for the evaluation of cell response to different electrospun microtopographies. <i>Acta Biomaterialia</i> , <b>2017</b> , 55, 310-322	10.8	13
148	Micro-fabricated scaffolds lead to efficient remission of diabetes in mice. <i>Biomaterials</i> , <b>2017</b> , 135, 10-22	15.6	23
147	PEOT/PBT Guides Enhance Nerve Regeneration in Long Gap Defects. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1600298	10.1	31
146	Hydrogels that listen to cells: a review of cell-responsive strategies in biomaterial design for tissue regeneration. <i>Materials Horizons</i> , <b>2017</b> , 4, 1020-1040	14.4	106
145	Direct Writing Electrospinning of Scaffolds with Multidimensional Fiber Architecture for Hierarchical Tissue Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38187-38200	9.5	68
144	Covalent Binding of Bone Morphogenetic Protein-2 and Transforming Growth Factor- $\beta$ to 3D Plotted Scaffolds for Osteochondral Tissue Regeneration. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1700072	5.6	36
143	Towards 4D printed scaffolds for tissue engineering: exploiting 3D shape memory polymers to deliver time-controlled stimulus on cultured cells. <i>Biofabrication</i> , <b>2017</b> , 9, 031001	10.5	83
142	Tailorable Surface Morphology of 3D Scaffolds by Combining Additive Manufacturing with Thermally Induced Phase Separation. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700186	4.8	9
141	Multimaterial, heterogeneous, and multicellular three-dimensional bioprinting. <i>MRS Bulletin</i> , <b>2017</b> , 42, 578-584	3.2	15
140	Layered PEGDA hydrogel for islet of Langerhans encapsulation and improvement of vascularization. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 195	4.5	20
139	Tailoring surface nanoroughness of electrospun scaffolds for skeletal tissue engineering. <i>Acta Biomaterialia</i> , <b>2017</b> , 59, 82-93	10.8	64
138	Influence of Solution Properties and Process Parameters on the Formation and Morphology of YSZ and NiO Ceramic Nanofibers by Electrospinning. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	29
137	Influence of Additive Manufactured Scaffold Architecture on the Distribution of Surface Strains and Fluid Flow Shear Stresses and Expected Osteochondral Cell Differentiation. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 6	5.8	28
136	The Use of Finite Element Analyses to Design and Fabricate Three-Dimensional Scaffolds for Skeletal Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 30	5.8	19
135	Characterization of Additive Manufactured Scaffolds <b>2017</b> , 1-25		

134	Increased cell seeding efficiency in bioploted three-dimensional PEOT/PBT scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 679-89	4.4	30
133	Osteochondral Regeneration: Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration (Adv. Healthcare Mater. 14/2016). <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1832-1832	10.1	4
132	Promoting Tropoelastin Expression in Arterial and Venous Vascular Smooth Muscle Cells and Fibroblasts for Vascular Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2016</b> , 22, 923-931	2.9	10
131	Flexible Yttrium-Stabilized Zirconia Nanofibers Offer Bioactive Cues for Osteogenic Differentiation of Human Mesenchymal Stromal Cells. <i>ACS Nano</i> , <b>2016</b> , 10, 5789-99	16.7	45
130	Stem-Cell Clinging by a Thread: AFM Measure of Polymer-Brush Lateral Deformation. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500456	4.6	33
129	Biofabrication: reappraising the definition of an evolving field. <i>Biofabrication</i> , <b>2016</b> , 8, 013001	10.5	387
128	Influencing chondrogenic differentiation of human mesenchymal stromal cells in scaffolds displaying a structural gradient in pore size. <i>Acta Biomaterialia</i> , <b>2016</b> , 36, 210-9	10.8	71
127	Triphasic scaffolds for the regeneration of the bone-ligament interface. <i>Biofabrication</i> , <b>2016</b> , 8, 015009	10.5	55
126	Methods of Monitoring Cell Fate and Tissue Growth in Three-Dimensional Scaffold-Based Strategies for In Vitro Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2016</b> , 22, 265-83	7.9	14
125	Surface energy and stiffness discrete gradients in additive manufactured scaffolds for osteochondral regeneration. <i>Biofabrication</i> , <b>2016</b> , 8, 015014	10.5	36
124	Tailoring chemical and physical properties of fibrous scaffolds from block copolyesters containing ether and thio-ether linkages for skeletal differentiation of human mesenchymal stromal cells. <i>Biomaterials</i> , <b>2016</b> , 76, 261-72	15.6	24
123	Chondrocytes Cocultured with Stromal Vascular Fraction of Adipose Tissue Present More Intense Chondrogenic Characteristics Than with Adipose Stem Cells. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 336-48	3.9	19
122	Development and evaluation of in vivo tissue engineered blood vessels in a porcine model. <i>Biomaterials</i> , <b>2016</b> , 75, 82-90	15.6	58
121	A Protocol to Enhance INS1E and MIN6 Functionality-The Use of Theophylline. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	5
120	Patterning Vasculature: The Role of Biofabrication to Achieve an Integrated Multicellular Ecosystem. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1694-1709	5.5	21
119	Influence of internal pore architecture on biological and mechanical properties of three-dimensional fiber deposited scaffolds for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 991-1001	5.4	38
118	Biological and Tribological Assessment of Poly(Ethylene Oxide Terephthalate)/Poly(Butylene Terephthalate), Polycaprolactone, and Poly (LDL) Lactic Acid Plotted Scaffolds for Skeletal Tissue Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 232-43	10.1	8
117	Hybrid Polycaprolactone/Alginate Scaffolds Functionalized with VEGF to Promote de Novo Vessel Formation for the Transplantation of Islets of Langerhans. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1606-16	10.1	41

116	Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1753-63	10.1	44
115	Gradients in pore size enhance the osteogenic differentiation of human mesenchymal stromal cells in three-dimensional scaffolds. <i>Scientific Reports</i> , <b>2016</b> , 6, 22898	4.9	105
114	Additive manufactured polymeric 3D scaffolds with tailored surface topography influence mesenchymal stromal cells activity. <i>Biofabrication</i> , <b>2016</b> , 8, 025012	10.5	27
113	Mimicking natural cell environments: design, fabrication and application of bio-chemical gradients on polymeric biomaterial substrates. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4244-4257	7.3	35
112	Toward mimicking the bone structure: design of novel hierarchical scaffolds with a tailored radial porosity gradient. <i>Biofabrication</i> , <b>2016</b> , 8, 045007	10.5	47
111	Cell Adhesion: Stem-Cell Clinging by a Thread: AFM Measure of Polymer-Brush Lateral Deformation (Adv. Mater. Interfaces 3/2016). <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3,	4.6	2
110	Mold-Based Application of Laser-Induced Periodic Surface Structures (LIPSS) on Biomaterials for Nanoscale Patterning. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 43-9	5.5	11
109	Back Cover: Macromol. Biosci. 1/2016. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 168-168	5.5	
108	Creeping proteins in microporous structures: polymer brush-assisted fabrication of 3D gradients for tissue engineering. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1169-74	10.1	33
107	Poly(amido amine)-based multilayered thin films on 2D and 3D supports for surface-mediated cell transfection. <i>Journal of Controlled Release</i> , <b>2015</b> , 205, 181-9	11.7	7
106	Myoblast differentiation of human mesenchymal stem cells on graphene oxide and electrospun graphene oxide-polymer composite fibrous meshes: importance of graphene oxide conductivity and dielectric constant on their biocompatibility. <i>Biofabrication</i> , <b>2015</b> , 7, 015009	10.5	75
105	The osteochondral interface as a gradient tissue: from development to the fabrication of gradient scaffolds for regenerative medicine. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , <b>2015</b> , 105, 34-52		81
104	Multiscale fabrication of biomimetic scaffolds for tympanic membrane tissue engineering. <i>Biofabrication</i> , <b>2015</b> , 7, 025005	10.5	51
103	Schwann cells promote endothelial cell migration. <i>Cell Adhesion and Migration</i> , <b>2015</b> , 9, 441-51	3.2	13
102	High Throughput Screening with Biofabrication Platforms <b>2015</b> , 187-213		3
101	Decellularized Extracellular Matrix Scaffolds for Cartilage Regeneration. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1340, 133-51	1.4	9
100	Influence of PCL molecular weight on mesenchymal stromal cell differentiation. <i>RSC Advances</i> , <b>2015</b> , 5, 54510-54516	3.7	24
99	Differentiation capacity and maintenance of differentiated phenotypes of human mesenchymal stromal cells cultured on two distinct types of 3D polymeric scaffolds. <i>Integrative Biology (United Kingdom)</i> , <b>2015</b> , 7, 1574-86	3.7	6

98	The influence of process parameters on the properties of electrospun PLLA yarns studied by the response surface methodology. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	36
97	Plug and play: combining materials and technologies to improve bone regenerative strategies. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 745-59	4.4	18
96	Adapted chondrogenic differentiation of human mesenchymal stem cells via controlled release of TGF- $\beta$ from poly(ethylene oxide)-terephthalate/poly(butylene terephthalate) multiblock scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 371-83	5.4	19
95	Tailoring the foreign body response for in situ vascular tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 436-46	2.9	21
94	Tissue engineering of the tympanic membrane using electrospun PEOT/PBT copolymer scaffolds: A morphological in vitro study. <i>Hearing, Balance and Communication</i> , <b>2015</b> , 13, 133-147	0.7	21
93	Incorporation of nanostructured hydroxyapatite and poly(N-isopropylacrylamide) in demineralized bone matrix enhances osteoblast and human mesenchymal stem cell activity. <i>Biointerphases</i> , <b>2015</b> , 10, 041001	1.8	8
92	A combinatorial approach towards the design of nanofibrous scaffolds for chondrogenesis. <i>Scientific Reports</i> , <b>2015</b> , 5, 14804	4.9	25
91	Supporting data of spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Data in Brief</i> , <b>2015</b> , 5, 84-94	1.2	1
90	Distribution and Viability of Fetal and Adult Human Bone Marrow Stromal Cells in a Biaxial Rotating Vessel Bioreactor after Seeding on Polymeric 3D Additive Manufactured Scaffolds. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 169	5.8	15
89	Fabrication of three-dimensional bioplotting hydrogel scaffolds for islets of Langerhans transplantation. <i>Biofabrication</i> , <b>2015</b> , 7, 025009	10.5	107
88	Spatiotemporal proliferation of human stromal cells adjusts to nutrient availability and leads to stanniocalcin-1 expression in vitro and in vivo. <i>Biomaterials</i> , <b>2015</b> , 61, 190-202	15.6	9
87	Correction: Biofunctionalized pectin hydrogels as 3D cellular microenvironments. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 8422	7.3	0
86	Biofunctionalized pectin hydrogels as 3D cellular microenvironments. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2096-2108	7.3	58
85	Evaluation of Cartilage Repair by Mesenchymal Stem Cells Seeded on a PEOT/PBT Scaffold in an Osteochondral Defect. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 2069-82	4.7	23
84	Fabrication of multi-well chips for spheroid cultures and implantable constructs through rapid prototyping techniques. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 1457-71	4.9	15
83	Polymer brush coatings regulating cell behavior: passive interfaces turn into active. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 2367-78	10.8	66
82	Engineered micro-objects as scaffolding elements in cellular building blocks for bottom-up tissue engineering approaches. <i>Advanced Materials</i> , <b>2014</b> , 26, 2592-9	24	56
81	Intra-articular delivery of glucosamine for treatment of experimental osteoarthritis created by a medial meniscectomy in a rat model. <i>Journal of Orthopaedic Research</i> , <b>2014</b> , 32, 302-9	3.8	13

80	Glucose gradients influence zonal matrix deposition in 3D cartilage constructs. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 3270-8	3.9	9
79	Amphiphilic beads as depots for sustained drug release integrated into fibrillar scaffolds. <i>Journal of Controlled Release</i> , <b>2014</b> , 187, 66-73	11.7	56
78	Peptide functionalized polyhydroxyalkanoate nanofibrous scaffolds enhance Schwann cells activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 1559-69	6	51
77	A biocomposite of collagen nanofibers and nanohydroxyapatite for bone regeneration. <i>Biofabrication</i> , <b>2014</b> , 6, 035015	10.5	43
76	Towards an in vitro model mimicking the foreign body response: tailoring the surface properties of biomaterials to modulate extracellular matrix. <i>Scientific Reports</i> , <b>2014</b> , 4, 6325	4.9	60
75	An open source image processing method to quantitatively assess tissue growth after non-invasive magnetic resonance imaging in human bone marrow stromal cell seeded 3D polymeric scaffolds. <i>PLoS ONE</i> , <b>2014</b> , 9, e115000	3.7	6
74	Interfacing polymeric scaffolds with primary pancreatic ductal adenocarcinoma cells to develop 3D cancer models. <i>Biomatter</i> , <b>2014</b> , 4, e955386		32
73	Modeling mechanical signals on the surface of µCT and CAD based rapid prototype scaffold models to predict (early stage) tissue development. <i>Biotechnology and Bioengineering</i> , <b>2014</b> , 111, 1864-75	4.9	15
72	Surface modification of electrospun fibre meshes by oxygen plasma for bone regeneration. <i>Biofabrication</i> , <b>2013</b> , 5, 015006	10.5	65
71	Poly(N-isopropylacrylamide)/poly(ferrocenylsilane) dual-responsive hydrogels: synthesis, characterization and antimicrobial applications. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 337-342	4.9	52
70	Human mesenchymal stem cells: a bank perspective on the isolation, characterization and potential of alternative sources for the regeneration of musculoskeletal tissues. <i>Journal of Cellular Physiology</i> , <b>2013</b> , 228, 680-7	7	63
69	Monolithic and assembled polymer-ceramic composites for bone regeneration. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5708-17	10.8	27
68	The effect of scaffold-cell entrapment capacity and physico-chemical properties on cartilage regeneration. <i>Biomaterials</i> , <b>2013</b> , 34, 4259-65	15.6	35
67	Mesenchymal stromal cell-derived extracellular matrix influences gene expression of chondrocytes. <i>Biofabrication</i> , <b>2013</b> , 5, 025003	10.5	24
66	In vivo screening of extracellular matrix components produced under multiple experimental conditions implanted in one animal. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 889-98	3.7	27
65	Combining technologies to create bioactive hybrid scaffolds for bone tissue engineering. <i>Biomatter</i> , <b>2013</b> , 3,		35
64	A fast process for imprinting micro and nano patterns on electrospun fiber meshes at physiological temperatures. <i>Small</i> , <b>2013</b> , 9, 3405-9	11	39
63	High content imaging in the screening of biomaterial-induced MSC behavior. <i>Biomaterials</i> , <b>2013</b> , 34, 1498-505	5.5	17

62	Thin polymer brush decouples biomaterial's micro-/nanotopology and stem cell adhesion. <i>Langmuir</i> , <b>2013</b> , 29, 13843-52	4	25
61	Influence of the solvent type on the morphology and mechanical properties of electrospun PLLA yarns. <i>Biofabrication</i> , <b>2013</b> , 5, 035014	10.5	46
60	Label-free Raman monitoring of extracellular matrix formation in three-dimensional polymeric scaffolds. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20130464	4.1	33
59	Fabrication of nanofibrous scaffolds for tissue engineering applications <b>2013</b> , 158-183		13
58	Electrospinning: A Fast Process for Imprinting Micro and Nano Patterns on Electrospun Fiber Meshes at Physiological Temperatures (Small 20/2013). <i>Small</i> , <b>2013</b> , 9, 3544-3544	11	1
57	Microwell scaffolds for the extrahepatic transplantation of islets of Langerhans. <i>PLoS ONE</i> , <b>2013</b> , 8, e64372	3.7	44
56	Fabrication, characterization and cellular compatibility of poly(hydroxy alkanoate) composite nanofibrous scaffolds for nerve tissue engineering. <i>PLoS ONE</i> , <b>2013</b> , 8, e57157	3.7	95
55	Cancer tissue engineering?new perspectives in understanding the biology of solid tumours?a critical review <b>2013</b> , 1,		29
54	Layer-by-layer tissue microfabrication supports cell proliferation in vitro and in vivo. <i>Tissue Engineering - Part C: Methods</i> , <b>2012</b> , 18, 62-70	2.9	88
53	Cationic polymers and their therapeutic potential. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 7147-94	58.5	490
52	Surface modifications by gas plasma control osteogenic differentiation of MC3T3-E1 cells. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2969-77	10.8	33
51	The physics of tissue formation with mesenchymal stem cells. <i>Trends in Biotechnology</i> , <b>2012</b> , 30, 583-90	15.1	6
50	Easily synthesized novel biodegradable copolyesters with adjustable properties for biomedical applications. <i>Soft Matter</i> , <b>2012</b> , 8, 5466	3.6	35
49	Controlled Surface Initiated Polymerization of N-Isopropylacrylamide from Polycaprolactone Substrates for Regulating Cell Attachment and Detachment. <i>Israel Journal of Chemistry</i> , <b>2012</b> , 52, 339-346	2.4	9
48	Degradable amorphous scaffolds with enhanced mechanical properties and homogeneous cell distribution produced by a three-dimensional fiber deposition method. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 2739-49	5.4	28
47	Evaluating Osteoarthritic Chondrocytes through a Novel 3-Dimensional In Vitro System for Cartilage Tissue Engineering and Regeneration. <i>Cartilage</i> , <b>2012</b> , 3, 128-40	3	4
46	Fabrication and antimicrobial effects of silver nanoparticle-poly(N-isopropylacrylamide)-poly(ferrocenylsilane) hydrogel composites. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1453, 21		
45	Endothelial differentiation of mesenchymal stromal cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e46842	3.7	136



44	Chitosan scaffolds containing hyaluronic acid for cartilage tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 717-30	2.9	125
43	Stability and Cell Adhesion Properties of Poly(N-isopropylacrylamide) Brushes with Variable Grafting Densities. <i>Australian Journal of Chemistry</i> , <b>2011</b> , 64, 1261	1.2	21
42	Joint Cartilage Tissue Engineering and Pre-Clinical Safety and Efficacy Testing <b>2011</b> ,		1
41	Comparison of alternative mesenchymal stem cell sources for cell banking and musculoskeletal advanced therapies. <i>Journal of Cellular Biochemistry</i> , <b>2011</b> , 112, 1418-30	4.7	42
40	Integration of hollow fiber membranes improves nutrient supply in three-dimensional tissue constructs. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 3312-24	10.8	42
39	Chitosan/poly(epsilon-caprolactone) blend scaffolds for cartilage repair. <i>Biomaterials</i> , <b>2011</b> , 32, 1068-79	15.6	182
38	Biomimetics of the Extracellular Matrix: An Integrated Three-Dimensional Fiber-Hydrogel Composite for Cartilage Tissue Engineering. <i>Smart Structures and Systems</i> , <b>2011</b> , 7, 213-222		101
37	Functional Tissue Engineering Through Biofunctional Macromolecules and Surface Design. <i>MRS Bulletin</i> , <b>2010</b> , 35, 584-590	3.2	11
36	Primary chondrocytes enhance cartilage tissue formation upon co-culture with a range of cell types. <i>Soft Matter</i> , <b>2010</b> , 6, 5080	3.6	32
35	3D-Fiber Deposition for Tissue Engineering and Organ Printing Applications <b>2010</b> , 225-239		7
34	Fabrication of bioactive composite scaffolds by electrospinning for bone regeneration. <i>Macromolecular Bioscience</i> , <b>2010</b> , 10, 1365-73	5.5	44
33	Combinatorial approaches to controlling cell behaviour and tissue formation in 3D via rapid-prototyping and smart scaffold design. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2009</b> , 12, 562-79	1.3	38
32	Micropatterned hot-embossed polymeric surfaces influence cell proliferation and alignment. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 644-53	5.4	33
31	Evaluation of photocrosslinked Lutrol hydrogel for tissue printing applications. <i>Biomacromolecules</i> , <b>2009</b> , 10, 1689-96	6.9	162
30	Extracellular matrix and tissue engineering applications. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5474		54
29	Critical factors in the design of growth factor releasing scaffolds for cartilage tissue engineering. <i>Expert Opinion on Drug Delivery</i> , <b>2008</b> , 5, 543-66	8	51
28	Integrating novel technologies to fabricate smart scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2008</b> , 19, 543-72	3.5	168
27	Degradable polymers for tissue engineering <b>2008</b> , 193-221		15



26	Critical Steps toward a tissue-engineered cartilage implant using embryonic stem cells. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 135-47	3.9	49
25	Tissue engineering [An introduction <b>2008</b> , xii-xxxvi		7
24	Regenerating articular tissue by converging technologies. <i>PLoS ONE</i> , <b>2008</b> , 3, e3032	3.7	29
23	Biomaterials engineered for integration. <i>Materials Today</i> , <b>2008</b> , 11, 44-51	21.8	62
22	3D Fiber-Deposited Electrospun Integrated Scaffolds Enhance Cartilage Tissue Formation. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 53-60	15.6	167
21	Critical Steps toward a Tissue-Engineered Cartilage Implant Using Embryonic Stem Cells. <i>Tissue Engineering</i> , <b>2008</b> , 14, 135-147		4
20	Differential response of adult and embryonic mesenchymal progenitor cells to mechanical compression in hydrogels. <i>Stem Cells</i> , <b>2007</b> , 25, 2730-8	5.8	179
19	Finite Element Analysis of Meniscal Anatomical 3D Scaffolds: Implications for Tissue Engineering. <i>Open Biomedical Engineering Journal</i> , <b>2007</b> , 1, 23-34	0.9	20
18	Anatomical 3D fiber-deposited scaffolds for tissue engineering: designing a neotrachea. <i>Tissue Engineering</i> , <b>2007</b> , 13, 2483-93		32
17	Design of biphasic polymeric 3-dimensional fiber deposited scaffolds for cartilage tissue engineering applications. <i>Tissue Engineering</i> , <b>2007</b> , 13, 361-71		46
16	3D fiber-deposited scaffolds for tissue engineering: influence of pores geometry and architecture on dynamic mechanical properties. <i>Biomaterials</i> , <b>2006</b> , 27, 974-85	15.6	395
15	Dynamic mechanical properties of 3D fiber-deposited PEOT/PBT scaffolds: an experimental and numerical analysis. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 78, 605-14	5.4	42
14	Biphasic Polymeric Shell-Core 3D Fiber Deposited Scaffolds Enhance Chondrocyte Differentiation. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 925, 1		
13	Fiber diameter and texture of electrospun PEOT/PBT scaffolds influence human mesenchymal stem cell proliferation and morphology, and the release of incorporated compounds. <i>Biomaterials</i> , <b>2006</b> , 27, 4911-22	15.6	207
12	Polymer hollow fiber three-dimensional matrices with controllable cavity and shell thickness. <i>Biomaterials</i> , <b>2006</b> , 27, 5918-26	15.6	72
11	Design of Biphasic Polymeric 3-Dimensional Fiber Deposited Scaffolds for Cartilage Tissue Engineering Applications. <i>Tissue Engineering</i> , <b>2006</b> , 061220075423021		1
10	Three-dimensional fiber-deposited PEOT/PBT copolymer scaffolds for tissue engineering: influence of porosity, molecular network mesh size, and swelling in aqueous media on dynamic mechanical properties. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 75, 957-65	5.4	79
9	Upscaling of high-throughput material platforms in two and three dimensions133-154		1

8	3D Additive Manufactured Composite Scaffolds with Antibiotic-loaded Lamellar Fillers for Bone Infection Prevention and Tissue Regeneration	1
7	A hybrid additive manufacturing platform to create bulk and surface composition gradients on scaffolds for tissue regeneration	3
6	Mimicking the Human Tympanic Membrane: the Significance of Geometry	1
5	Improving cell distribution on 3D additive manufactured scaffolds through engineered seeding media density and viscosity	1
4	Additive manufactured scaffolds for bone tissue engineering: physical characterization of thermoplastic composites with functional fillers	2
3	Effect of reduced graphene oxide (rGO) compaction degree and concentration on rGO-polymer composites printability and cell interactions	1
2	Effect of Highly Loaded Nanohydroxyapatite Composite Scaffolds Prepared via Melt Extrusion Additive Manufacturing on the Osteogenic Differentiation of Human Mesenchymal Stromal Cells	1
1	Bioinspired Development of an In Vitro Engineered Fracture Callus for the Treatment of Critical Long Bone Defects. <i>Advanced Functional Materials</i> ,2104159	15.6