

Lorenzo Moroni

List of Publications by Citations

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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	Cationic polymers and their therapeutic potential. <i>Chemical Society Reviews</i> , 2012 , 41, 7147-94	58.5	490
276	3D fiber-deposited scaffolds for tissue engineering: influence of pores geometry and architecture on dynamic mechanical properties. <i>Biomaterials</i> , 2006 , 27, 974-85	15.6	395
275	Biofabrication: reappraising the definition of an evolving field. <i>Biofabrication</i> , 2016 , 8, 013001	10.5	387
274	Biofabrication strategies for 3D in vitro models and regenerative medicine. <i>Nature Reviews Materials</i> , 2018 , 3, 21-37	73.3	317
273	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018 , 36, 384-402	15.1	309
272	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> , 2006 , 27, 4911-22	15.6	207
271	Chitosan/poly(epsilon-caprolactone) blend scaffolds for cartilage repair. <i>Biomaterials</i> , 2011 , 32, 1068-79	15.6	182
270	Differential response of adult and embryonic mesenchymal progenitor cells to mechanical compression in hydrogels. <i>Stem Cells</i> , 2007 , 25, 2730-8	5.8	179
269	Integrating novel technologies to fabricate smart scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 543-72	3.5	168
268	3D Fiber-Deposited Electrospun Integrated Scaffolds Enhance Cartilage Tissue Formation. <i>Advanced Functional Materials</i> , 2008 , 18, 53-60	15.6	167
267	Evaluation of photocrosslinked Lutrol hydrogel for tissue printing applications. <i>Biomacromolecules</i> , 2009 , 10, 1689-96	6.9	162
266	The bioprinting roadmap. <i>Biofabrication</i> , 2020 , 12, 022002	10.5	137
265	Endothelial differentiation of mesenchymal stromal cells. <i>PLoS ONE</i> , 2012 , 7, e46842	3.7	136
264	Chitosan scaffolds containing hyaluronic acid for cartilage tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 717-30	2.9	125
263	Fabrication of three-dimensional bioplotting hydrogel scaffolds for islets of Langerhans transplantation. <i>Biofabrication</i> , 2015 , 7, 025009	10.5	107
262	Electrospinning for drug delivery applications: A review. <i>Journal of Controlled Release</i> , 2021 , 334, 463-484	11.7	107
261	Hydrogels that listen to cells: a review of cell-responsive strategies in biomaterial design for tissue regeneration. <i>Materials Horizons</i> , 2017 , 4, 1020-1040	14.4	106

260	Gradients in pore size enhance the osteogenic differentiation of human mesenchymal stromal cells in three-dimensional scaffolds. <i>Scientific Reports</i> , 2016 , 6, 22898	4.9	105
259	Thiol-Ene Alginate Hydrogels as Versatile Bioinks for Bioprinting. <i>Biomacromolecules</i> , 2018 , 19, 3390-3400	4.9	103
258	Biomimetics of the Extracellular Matrix: An Integrated Three-Dimensional Fiber-Hydrogel Composite for Cartilage Tissue Engineering. <i>Smart Structures and Systems</i> , 2011 , 7, 213-222		101
257	Fabrication, characterization and cellular compatibility of poly(hydroxy alkanate) composite nanofibrous scaffolds for nerve tissue engineering. <i>PLoS ONE</i> , 2013 , 8, e57157	3.7	95
256	Layer-by-layer tissue microfabrication supports cell proliferation in vitro and in vivo. <i>Tissue Engineering - Part C: Methods</i> , 2012 , 18, 62-70	2.9	88
255	Bioprinting: From Tissue and Organ Development to Models. <i>Chemical Reviews</i> , 2020 , 120, 10547-10607	68.1	86
254	Towards 4D printed scaffolds for tissue engineering: exploiting 3D shape memory polymers to deliver time-controlled stimulus on cultured cells. <i>Biofabrication</i> , 2017 , 9, 031001	10.5	83
253	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> , 2015 , 105, 34-52		81
252	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> , 2005 , 75, 957-65	5.4	79
251	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> , 2015 , 7, 015009	10.5	75
250	Dynamic Bioinks to Advance Bioprinting. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901798	10.1	73
249	Polymer hollow fiber three-dimensional matrices with controllable cavity and shell thickness. <i>Biomaterials</i> , 2006 , 27, 5918-26	15.6	72
248	Influencing chondrogenic differentiation of human mesenchymal stromal cells in scaffolds displaying a structural gradient in pore size. <i>Acta Biomaterialia</i> , 2016 , 36, 210-9	10.8	71
247	Direct Writing Electrospinning of Scaffolds with Multidimensional Fiber Architecture for Hierarchical Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38187-38200	9.5	68
246	Polymer brush coatings regulating cell behavior: passive interfaces turn into active. <i>Acta Biomaterialia</i> , 2014 , 10, 2367-78	10.8	66
245	Surface modification of electrospun fibre meshes by oxygen plasma for bone regeneration. <i>Biofabrication</i> , 2013 , 5, 015006	10.5	65
244	Biomimetic Architectures for Peripheral Nerve Repair: A Review of Biofabrication Strategies. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701164	10.1	64
243	Tailoring surface nanoroughness of electrospun scaffolds for skeletal tissue engineering. <i>Acta Biomaterialia</i> , 2017 , 59, 82-93	10.8	64

242	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> , 2013 , 228, 680-7	7	63
241	Biomaterials engineered for integration. <i>Materials Today</i> , 2008 , 11, 44-51	21.8	62
240	Towards an in vitro model mimicking the foreign body response: tailoring the surface properties of biomaterials to modulate extracellular matrix. <i>Scientific Reports</i> , 2014 , 4, 6325	4.9	60
239	Development and evaluation of in vivo tissue engineered blood vessels in a porcine model. <i>Biomaterials</i> , 2016 , 75, 82-90	15.6	58
238	Biofunctionalized pectin hydrogels as 3D cellular microenvironments. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2096-2108	7.3	58
237	Engineered micro-objects as scaffolding elements in cellular building blocks for bottom-up tissue engineering approaches. <i>Advanced Materials</i> , 2014 , 26, 2592-9	24	56
236	Amphiphilic beads as depots for sustained drug release integrated into fibrillar scaffolds. <i>Journal of Controlled Release</i> , 2014 , 187, 66-73	11.7	56
235	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> , 2019 , 101, 243-253	8.3	55
234	Triphasic scaffolds for the regeneration of the bone-ligament interface. <i>Biofabrication</i> , 2016 , 8, 015009	10.5	55
233	Extracellular matrix and tissue engineering applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5474		54
232	Poly(N-isopropylacrylamide)βpoly(ferrocenylsilane) dual-responsive hydrogels: synthesis, characterization and antimicrobial applications. <i>Polymer Chemistry</i> , 2013 , 4, 337-342	4.9	52
231	Multiscale fabrication of biomimetic scaffolds for tympanic membrane tissue engineering. <i>Biofabrication</i> , 2015 , 7, 025005	10.5	51
230	Peptide functionalized polyhydroxyalkanoate nanofibrous scaffolds enhance Schwann cells activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1559-69	6	51
229	Critical factors in the design of growth factor releasing scaffolds for cartilage tissue engineering. <i>Expert Opinion on Drug Delivery</i> , 2008 , 5, 543-66	8	51
228	Bioprinting Vasculature: Materials, Cells and Emergent Techniques. <i>Materials</i> , 2019 , 12,	3.5	50
227	Influence of the nanofiber chemistry and orientation of biodegradable poly(butylene succinate)-based scaffolds on osteoblast differentiation for bone tissue regeneration. <i>Nanoscale</i> , 2018 , 10, 8689-8703	7.7	50
226	Critical Steps toward a tissue-engineered cartilage implant using embryonic stem cells. <i>Tissue Engineering - Part A</i> , 2008 , 14, 135-47	3.9	49
225	The role of calcium phosphate surface structure in osteogenesis and the mechanisms involved. <i>Acta Biomaterialia</i> , 2020 , 106, 22-33	10.8	47

224	Toward mimicking the bone structure: design of novel hierarchical scaffolds with a tailored radial porosity gradient. <i>Biofabrication</i> , 2016 , 8, 045007	10.5	47
223	Influence of the solvent type on the morphology and mechanical properties of electrospun PLLA yarns. <i>Biofabrication</i> , 2013 , 5, 035014	10.5	46
222	Design of biphasic polymeric 3-dimensional fiber deposited scaffolds for cartilage tissue engineering applications. <i>Tissue Engineering</i> , 2007 , 13, 361-71		46
221	Flexible Yttrium-Stabilized Zirconia Nanofibers Offer Bioactive Cues for Osteogenic Differentiation of Human Mesenchymal Stromal Cells. <i>ACS Nano</i> , 2016 , 10, 5789-99	16.7	45
220	Microwell scaffolds for the extrahepatic transplantation of islets of Langerhans. <i>PLoS ONE</i> , 2013 , 8, e64372	10.1	44
219	Fabrication of bioactive composite scaffolds by electrospinning for bone regeneration. <i>Macromolecular Bioscience</i> , 2010 , 10, 1365-73	5.5	44
218	Tuning Cell Differentiation into a 3D Scaffold Presenting a Pore Shape Gradient for Osteochondral Regeneration. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1753-63	10.1	44
217	Viscoelastic Oxidized Alginates with Reversible Imine Type Crosslinks: Self-Healing, Injectable, and Bioprintable Hydrogels. <i>Gels</i> , 2018 , 4,	4.2	44
216	A biocomposite of collagen nanofibers and nanohydroxyapatite for bone regeneration. <i>Biofabrication</i> , 2014 , 6, 035015	10.5	43
215	Comparison of alternative mesenchymal stem cell sources for cell banking and musculoskeletal advanced therapies. <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 1418-30	4.7	42
214	Integration of hollow fiber membranes improves nutrient supply in three-dimensional tissue constructs. <i>Acta Biomaterialia</i> , 2011 , 7, 3312-24	10.8	42
213	Dynamic mechanical properties of 3D fiber-deposited PEOT/PBT scaffolds: an experimental and numerical analysis. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 605-14	5.4	42
212	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> , 2016 , 5, 1606-16	10.1	41
211	A fast process for imprinting micro and nano patterns on electrospun fiber meshes at physiological temperatures. <i>Small</i> , 2013 , 9, 3405-9	11	39
210	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> , 2009 , 12, 562-79	1.3	38
209	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> , 2016 , 104, 991-1001	5.4	38
208	Hybrid and Composite Scaffolds Based on Extracellular Matrices for Cartilage Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2019 , 25, 202-224	7.9	36
207	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> , 2015 , 132, n/a-n/a	2.9	36

206	Surface energy and stiffness discrete gradients in additive manufactured scaffolds for osteochondral regeneration. <i>Biofabrication</i> , 2016 , 8, 015014	10.5	36
205	Covalent Binding of Bone Morphogenetic Protein-2 and Transforming Growth Factor- β to 3D Plotted Scaffolds for Osteochondral Tissue Regeneration. <i>Biotechnology Journal</i> , 2017 , 12, 1700072	5.6	36
204	Tuning the conformation and mechanical properties of silk fibroin hydrogels. <i>European Polymer Journal</i> , 2020 , 134, 109842	5.2	35
203	The effect of scaffold-cell entrapment capacity and physico-chemical properties on cartilage regeneration. <i>Biomaterials</i> , 2013 , 34, 4259-65	15.6	35
202	Easily synthesized novel biodegradable copolyesters with adjustable properties for biomedical applications. <i>Soft Matter</i> , 2012 , 8, 5466	3.6	35
201	Combining technologies to create bioactive hybrid scaffolds for bone tissue engineering. <i>Biomatter</i> , 2013 , 3,		35
200	Mimicking natural cell environments: design, fabrication and application of bio-chemical gradients on polymeric biomaterial substrates. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4244-4257	7.3	35
199	Utilizing the Foreign Body Response to Grow Tissue Engineered Blood Vessels in Vivo. <i>Journal of Cardiovascular Translational Research</i> , 2017 , 10, 167-179	3.3	34
198	Modulating Alginate Hydrogels for Improved Biological Performance as Cellular 3D Microenvironments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 665	5.8	34
197	Creeping proteins in microporous structures: polymer brush-assisted fabrication of 3D gradients for tissue engineering. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1169-74	10.1	33
196	Ciprofloxacin-loaded polymeric nanoparticles incorporated electrospun fibers for drug delivery in tissue engineering applications. <i>Drug Delivery and Translational Research</i> , 2020 , 10, 706-720	6.2	33
195	Stem-Cell Clinging by a Thread: AFM Measure of Polymer-Brush Lateral Deformation. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500456	4.6	33
194	Surface modifications by gas plasma control osteogenic differentiation of MC3T3-E1 cells. <i>Acta Biomaterialia</i> , 2012 , 8, 2969-77	10.8	33
193	Label-free Raman monitoring of extracellular matrix formation in three-dimensional polymeric scaffolds. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20130464	4.1	33
192	Micropatterned hot-embossed polymeric surfaces influence cell proliferation and alignment. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 644-53	5.4	33
191	Interfacing polymeric scaffolds with primary pancreatic ductal adenocarcinoma cells to develop 3D cancer models. <i>Biomatter</i> , 2014 , 4, e955386		32
190	Primary chondrocytes enhance cartilage tissue formation upon co-culture with a range of cell types. <i>Soft Matter</i> , 2010 , 6, 5080	3.6	32
189	Anatomical 3D fiber-deposited scaffolds for tissue engineering: designing a neotrachea. <i>Tissue Engineering</i> , 2007 , 13, 2483-93		32

188	Nanoroughness, Surface Chemistry, and Drug Delivery Control by Atmospheric Plasma Jet on Implantable Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39512-39523	9.5	32
187	PEOT/PBT Guides Enhance Nerve Regeneration in Long Gap Defects. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600298	10.1	31
186	Increased cell seeding efficiency in bioplotting three-dimensional PEOT/PBT scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 679-89	4.4	30
185	Bio-Fabrication: Convergence of 3D Bioprinting and Nano-Biomaterials in Tissue Engineering and Regenerative Medicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 326	5.8	30
184	Topography of calcium phosphate ceramics regulates primary cilia length and TGF receptor recruitment associated with osteogenesis. <i>Acta Biomaterialia</i> , 2017 , 57, 487-497	10.8	29
183	Influence of Solution Properties and Process Parameters on the Formation and Morphology of YSZ and NiO Ceramic Nanofibers by Electrospinning. <i>Nanomaterials</i> , 2017 , 7,	5.4	29
182	Regenerating articular tissue by converging technologies. <i>PLoS ONE</i> , 2008 , 3, e3032	3.7	29
181	Cancer tissue engineering?new perspectives in understanding the biology of solid tumours?a critical review 2013 , 1,		29
180	Acrylic Acid Plasma Coated 3D Scaffolds for Cartilage tissue engineering applications. <i>Scientific Reports</i> , 2018 , 8, 3830	4.9	28
179	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> , 2017 , 5, 6	5.8	28
178	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> , 2012 , 100, 2739-49	5.4	28
177	Monolithic and assembled polymer-ceramic composites for bone regeneration. <i>Acta Biomaterialia</i> , 2013 , 9, 5708-17	10.8	27
176	In vivo screening of extracellular matrix components produced under multiple experimental conditions implanted in one animal. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 889-98	3.7	27
175	Additive manufactured polymeric 3D scaffolds with tailored surface topography influence mesenchymal stromal cells activity. <i>Biofabrication</i> , 2016 , 8, 025012	10.5	27
174	Self-assembly of electrospun nanofibers into gradient honeycomb structures. <i>Materials and Design</i> , 2019 , 168, 107614	8.1	26
173	A combinatorial approach towards the design of nanofibrous scaffolds for chondrogenesis. <i>Scientific Reports</i> , 2015 , 5, 14804	4.9	25
172	Thin polymer brush decouples biomaterial's micro-/nanotopology and stem cell adhesion. <i>Langmuir</i> , 2013 , 29, 13843-52	4	25
171	Influence of PCL molecular weight on mesenchymal stromal cell differentiation. <i>RSC Advances</i> , 2015 , 5, 54510-54516	3.7	24

170	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> , 2016 , 76, 261-72	15.6	24
169	Mesenchymal stromal cell-derived extracellular matrix influences gene expression of chondrocytes. <i>Biofabrication</i> , 2013 , 5, 025003	10.5	24
168	Tissue Engineering and Regenerative Medicine 2019: The Role of Biofabrication-A Year in Review. <i>Tissue Engineering - Part C: Methods</i> , 2020 , 26, 91-106	2.9	24
167	Leveling Up Hydrogels: Hybrid Systems in Tissue Engineering. <i>Trends in Biotechnology</i> , 2020 , 38, 292-315	15.1	24
166	Micro-fabricated scaffolds lead to efficient remission of diabetes in mice. <i>Biomaterials</i> , 2017 , 135, 10-22	15.6	23
165	Evaluation of Cartilage Repair by Mesenchymal Stem Cells Seeded on a PEOT/PBT Scaffold in an Osteochondral Defect. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 2069-82	4.7	23
164	Improving cell distribution on 3D additive manufactured scaffolds through engineered seeding media density and viscosity. <i>Acta Biomaterialia</i> , 2020 , 101, 183-195	10.8	23
163	Tailoring the foreign body response for in situ vascular tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 436-46	2.9	21
162	Tissue engineering of the tympanic membrane using electrospun PEOT/PBT copolymer scaffolds: A morphological in vitro study. <i>Hearing, Balance and Communication</i> , 2015 , 13, 133-147	0.7	21
161	Stability and Cell Adhesion Properties of Poly(N-isopropylacrylamide) Brushes with Variable Grafting Densities. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1261	1.2	21
160	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> , 2020 , 9, e2001163	10.1	21
159	Patterning Vasculature: The Role of Biofabrication to Achieve an Integrated Multicellular Ecosystem. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1694-1709	5.5	21
158	Layered PEGDA hydrogel for islet of Langerhans encapsulation and improvement of vascularization. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 195	4.5	20
157	Finite Element Analysis of Meniscal Anatomical 3D Scaffolds: Implications for Tissue Engineering. <i>Open Biomedical Engineering Journal</i> , 2007 , 1, 23-34	0.9	20
156	Adapted chondrogenic differentiation of human mesenchymal stem cells via controlled release of TGF- β 1 from poly(ethylene oxide)-terephthalate/poly(butylene terephthalate) multiblock scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 371-83	5.4	19
155	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> , 2016 , 22, 336-48	3.9	19
154	The Use of Finite Element Analyses to Design and Fabricate Three-Dimensional Scaffolds for Skeletal Tissue Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017 , 5, 30	5.8	19
153	Poly(caprolactone-co-trimethylenecarbonate) urethane acrylate resins for digital light processing of bioresorbable tissue engineering implants. <i>Biomaterials Science</i> , 2019 , 7, 4984-4989	7.4	19

152	Plug and play: combining materials and technologies to improve bone regenerative strategies. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 745-59	4.4	18
151	3D additive manufactured composite scaffolds with antibiotic-loaded lamellar fillers for bone infection prevention and tissue regeneration. <i>Bioactive Materials</i> , 2021 , 6, 1073-1082	16.7	18
150	Glycosaminoglycan-Inspired Biomaterials for the Development of Bioactive Hydrogel Networks. <i>Molecules</i> , 2020 , 25,	4.8	17
149	Geometric constraints of endothelial cell migration on electrospun fibres. <i>Scientific Reports</i> , 2018 , 8, 6386	4.9	17
148	Glycosaminoglycan functionalization of electrospun scaffolds enhances Schwann cell activity. <i>Acta Biomaterialia</i> , 2019 , 96, 188-202	10.8	17
147	High content imaging in the screening of biomaterial-induced MSC behavior. <i>Biomaterials</i> , 2013 , 34, 1498-505	5.5	17
146	3D-printed bioactive scaffolds from nanosilicates and PEOT/PBT for bone tissue engineering. <i>International Journal of Energy Production and Management</i> , 2019 , 6, 29-37	5.3	17
145	Steering cell behavior through mechanobiology in 3D: A regenerative medicine perspective. <i>Biomaterials</i> , 2021 , 268, 120572	15.6	17
144	Biological activity of human mesenchymal stromal cells on polymeric electrospun scaffolds. <i>Biomaterials Science</i> , 2019 , 7, 1088-1100	7.4	16
143	A novel method for engineering autologous non-thrombogenic in situ tissue-engineered blood vessels for arteriovenous grafting. <i>Biomaterials</i> , 2020 , 229, 119577	15.6	16
142	Additive manufacturing of an elastic poly(ester)urethane for cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2020 , 102, 192-204	10.8	16
141	Soft-molecular imprinted electrospun scaffolds to mimic specific biological tissues. <i>Biofabrication</i> , 2018 , 10, 045005	10.5	15
140	Multimaterial, heterogeneous, and multicellular three-dimensional bioprinting. <i>MRS Bulletin</i> , 2017 , 42, 578-584	3.2	15
139	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> , 2015 , 3, 169	5.8	15
138	Fabrication of multi-well chips for spheroid cultures and implantable constructs through rapid prototyping techniques. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1457-71	4.9	15
137	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> , 2014 , 111, 1864-75	4.9	15
136	Degradable polymers for tissue engineering 2008 , 193-221		15
135	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> , 2021 , 109, 1600-1612	5.4	15

134	Janus 3D printed dynamic scaffolds for nanovibration-driven bone regeneration. <i>Nature Communications</i> , 2021 , 12, 1031	17.4	15
133	Multivalency Enables Dynamic Supramolecular Host-Guest Hydrogel Formation. <i>Biomacromolecules</i> , 2020 , 21, 2208-2217	6.9	14
132	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> , 2016 , 22, 265-83	7.9	14
131	3D screening device for the evaluation of cell response to different electrospun microtopographies. <i>Acta Biomaterialia</i> , 2017 , 55, 310-322	10.8	13
130	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> , 2019 , 118, 528-541	5.2	13
129	Schwann cells promote endothelial cell migration. <i>Cell Adhesion and Migration</i> , 2015 , 9, 441-51	3.2	13
128	Strategies to Improve Nanofibrous Scaffolds for Vascular Tissue Engineering. <i>Nanomaterials</i> , 2020 , 10,	5.4	13
127	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> , 2014 , 32, 302-9	3.8	13
126	Fabrication of nanofibrous scaffolds for tissue engineering applications 2013 , 158-183		13
125	A quantitative method to analyse F-actin distribution in cells. <i>MethodsX</i> , 2019 , 6, 2562-2569	1.9	12
124	A three-dimensional biomimetic peripheral nerve model for drug testing and disease modelling. <i>Biomaterials</i> , 2020 , 257, 120230	15.6	12
123	A hybrid additive manufacturing platform to create bulk and surface composition gradients on scaffolds for tissue regeneration. <i>Nature Communications</i> , 2021 , 12, 500	17.4	12
122	Cells responding to surface structure of calcium phosphate ceramics for bone regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3273-3283	4.4	11
121	Scaffold-free and label-free biofabrication technology using levitational assembly in a high magnetic field. <i>Biofabrication</i> , 2020 , 12, 045022	10.5	11
120	Functional Tissue Engineering Through Biofunctional Macromolecules and Surface Design. <i>MRS Bulletin</i> , 2010 , 35, 584-590	3.2	11
119	Mold-Based Application of Laser-Induced Periodic Surface Structures (LIPSS) on Biomaterials for Nanoscale Patterning. <i>Macromolecular Bioscience</i> , 2016 , 16, 43-9	5.5	11
118	Trends in Double Networks as Bioprintable and Injectable Hydrogel Scaffolds for Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4077-4101	5.5	11
117	Promoting Tropoelastin Expression in Arterial and Venous Vascular Smooth Muscle Cells and Fibroblasts for Vascular Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 923-931	2.9	10

116	Sustained delivery of growth factors with high loading efficiency in a layer by layer assembly. <i>Biomaterials Science</i> , 2019 , 8, 174-188	7.4	10
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