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Diffusion in musculoskeletal tissue engineering scaffolds: design issues related to porosity, permeability, architecture, and nutrient mixing

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#	Paper	IF	Citations
345	Preparation of Multiphase Polymer Beads Composed of Block Copolymer Amphiphilic Networks. 2005 , 44, 8621-8625		7
344	Custom design of the cardiac microenvironment with biomaterials. 2005, 97, 8-15		205
343	Fabrication and characterization of poly(propylene fumarate) scaffolds with controlled pore structures using 3-dimensional printing and injection molding. <i>Tissue Engineering</i> , 2006 , 12, 2801-11		114
342	Micro-finite element models of bone tissue-engineering scaffolds. <i>Biomaterials</i> , 2006 , 27, 5326-34	15.6	108
341	Biomanufacturing: a US-China National Science Foundation-sponsored workshop. <i>Tissue Engineering</i> , 2006 , 12, 1169-81		19
340	Neurotization improves contractile forces of tissue-engineered skeletal muscle. <i>Tissue Engineering</i> , 2007 , 13, 2813-21		56
339	Engineering Functional Tissues. 2007 , 137-153		7
338	Bioactive scaffolds for bone and ligament tissue. 2007 , 4, 405-18		180
337	Regenerative endodontics: a review of current status and a call for action. 2007 , 33, 377-90		529
336	Enhancing cell seeding of scaffolds in tissue engineering through manipulation of hydrodynamic parameters. 2007 , 129, 516-31		50
335	Systematic investigation of porogen size and content on scaffold morphometric parameters and properties. 2007 , 8, 1511-8		40
334	Poly(propylene fumarate) bone tissue engineering scaffold fabrication using stereolithography: effects of resin formulations and laser parameters. 2007 , 8, 1077-84		226
333	Chemical and physical regulation of stem cells and progenitor cells: potential for cardiovascular tissue engineering. <i>Tissue Engineering</i> , 2007 , 13, 1809-23		29
332	Bioengineered Scaffolds: Myocytes, Endothelial Cells and Cardiac Repair. 2007, 183-191		
331	Pore collapse during the fabrication process of rubber-like polymer scaffolds. 2007 , 104, 1475-1481		8
330	Surface modified poly(L-lactide-co-epsilon-caprolactone) microspheres as scaffold for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 82, 747-56	5.4	31
329	Rheology of a polymer-based hybrid suspension composed of concentrated poly[(D,L-lactide)-co-glycolide] solution and inorganic salt particles. 2007 , 7, 1290-8		6

328	Computational design of tissue engineering scaffolds. 2007 , 196, 2991-2998		86
327	In vitro and in vivo characteristics of PCL scaffolds with pore size gradient fabricated by a centrifugation method. <i>Biomaterials</i> , 2007 , 28, 1664-71	15.6	526
326	Mathematical modelling of human mesenchymal stem cell proliferation and differentiation inside artificial porous scaffolds. 2007 , 249, 543-53		26
325	State of the art and future directions of scaffold-based bone engineering from a biomaterials perspective. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007 , 1, 245-60	4.4	718
324	A tracer metric numerical model for predicting tortuosity factors in three-dimensional porous tissue scaffolds. 2007 , 87, 21-7		14
323	Ultrasonic monitoring of foamed polymeric tissue scaffold fabrication. 2008 , 19, 3071-80		12
322	Fiber density of electrospun gelatin scaffolds regulates morphogenesis of dermal-epidermal skin substitutes. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 1078-86	5.4	127
321	Scaffold permeability as a means to determine fiber diameter and pore size of electrospun fibrinogen. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 115-26	5.4	60
320	Effect of scaffold architecture and pore size on smooth muscle cell growth. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 1010-6	5.4	98
319	Oxygen consumption of chondrocytes in agarose and collagen gels: a comparative analysis. <i>Biomaterials</i> , 2008 , 29, 1484-93	15.6	69
318	Superporous hydrogels for cartilage repair: Evaluation of the morphological and mechanical properties. <i>Acta Biomaterialia</i> , 2008 , 4, 17-25	10.8	93
317	Dynamic Co-Seeding of Osteoblast and Endothelial Cells on 3D Polycaprolactone Scaffolds for Enhanced Bone Tissue Engineering. 2008 , 23, 227-243		84
316	Electrospinning: processing technique for tissue engineering scaffolding. 2008, 53, 257-274		125
315	Oxygen diffusion through natural extracellular matrices: implications for estimating "critical thickness" values in tendon tissue engineering. 2008 , 14, 559-69		53
314	Functions and Requirements of Synthetic Scaffolds in Tissue Engineering. 2008, 53-86		4
313	Engineering endochondral bone: in vitro studies. 2009 , 15, 625-34		46
312	Fabrication of precision scaffolds using liquid-frozen deposition manufacturing for cartilage tissue engineering. 2009 , 15, 965-75		38
311	Microporous poly(L-lactic acid) membranes fabricated by polyethylene glycol solvent-cast/particulate leaching technique. 2009 , 15, 463-74		13

310	Solute transport in cyclically deformed porous tissue scaffolds with controlled pore cross-sectional geometries. 2009 , 15, 1989-99	6
309	Doppler optical coherence tomography imaging of local fluid flow and shear stress within microporous scaffolds. 2009 , 14, 034014	23
308	The Implications of Polymer Selection in Regenerative Medicine: A Comparison of Amorphous and Semi-Crystalline Polymer for Tissue Regeneration. 2009 , 19, 1351-1359	24
307	Design and characterization of a novel chitosan/nanocrystalline calcium phosphate composite scaffold for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 491-502	132
306	Osteoblast response to continuous phase macroporous scaffolds under static and dynamic culture conditions. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 317-25	16
305	Macroporous photocrosslinked elastomer scaffolds containing microposity: preparation and in vitro degradation properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 211-8	8
304	Intravital fluorescent microscopic evaluation of bacterial cellulose as scaffold for vascular grafts. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 140-9 5-4	23
303	Novel fabrication of PCL porous beads for use as an injectable cell carrier system. 2009 , 90, 521-30	52
302	Characterization of the behavior of porous hydrogels in model osmotically-conditioned articular cartilage systems. 2009 , 90, 752-9	22
301	Conditions affecting cell seeding onto three-dimensional scaffolds for cellular-based biodegradable implants. 2009 , 91, 80-7	49
300	Lyophilization to improve drug delivery for chitosan-calcium phosphate bone scaffold construct: a preliminary investigation. 2009 , 90, 1-10	31
299	An injection molding process for manufacturing highly porous and interconnected biodegradable polymer matrices for use as tissue engineering scaffolds. 2010 , 92, 366-76	15
298	From natural bone grafts to tissue engineering therapeutics: Brainstorming on pharmaceutical formulative requirements and challenges. 2009 , 98, 1317-75	113
297	Time-lapsed imaging for in-process evaluation of supercritical fluid processing of tissue engineering scaffolds. 2009 , 25, 1176-83	2
296	Darcian permeability constant as indicator for shear stresses in regular scaffold systems for tissue engineering. <i>Biomechanics and Modeling in Mechanobiology</i> , 2009 , 8, 499-507	33
295	A comparative study of the physical and mechanical properties of three natural corals based on the criteria for bone-tissue engineering scaffolds. 2009 , 20, 1273-80	42
294	Design of porous polymeric scaffolds by gas foaming of heterogeneous blends. 2009 , 20, 2043-51	99
293	Development and analysis of multi-layer scaffolds for tissue engineering. <i>Biomaterials</i> , 2009 , 30, 6228-39, 5.6	87

(2010-2009)

292	Engineered mu-bimodal poly(epsilon-caprolactone) porous scaffold for enhanced hMSC colonization and proliferation. <i>Acta Biomaterialia</i> , 2009 , 5, 1082-93	10.8	45
291	Preparation, characterization and in vitro analysis of novel structured nanofibrous scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2010 , 6, 3004-12	10.8	43
290	Augmentation of bone defect healing using a new biocomposite scaffold: an in vivo study in sheep. <i>Acta Biomaterialia</i> , 2010 , 6, 3755-62	10.8	55
289	Modularly assembled porous cell-laden hydrogels. <i>Biomaterials</i> , 2010 , 31, 4918-25	15.6	36
288	Maintaining cell depth viability: on the efficacy of a trimodal scaffold pore architecture and dynamic rotational culturing. 2010 , 21, 1731-8		9
287	Experimental and computational characterization of designed and fabricated 50:50 PLGA porous scaffolds for human trabecular bone applications. 2010 , 21, 2371-83		38
286	Effect of collagen II coating on mesenchymal stem cell adhesion on chitosan and on reacetylated chitosan fibrous scaffolds. 2010 , 21, 2479-90		23
285	Differential effects of designed scaffold permeability on chondrogenesis by chondrocytes and bone marrow stromal cells. <i>Biomaterials</i> , 2010 , 31, 279-87	15.6	88
284	Effect of chitosan scaffold microstructure on mesenchymal stem cell chondrogenesis. <i>Acta Biomaterialia</i> , 2010 , 6, 1430-6	10.8	85
283	The effects of pore architecture in silk fibroin scaffolds on the growth and differentiation of mesenchymal stem cells expressing BMP7. <i>Acta Biomaterialia</i> , 2010 , 6, 3021-8	10.8	120
282	Biomineralized porous composite scaffolds prepared by chemical synthesis for bone tissue regeneration. <i>Acta Biomaterialia</i> , 2010 , 6, 4090-9	10.8	67
281	The effect of type II collagen coating of chitosan fibrous scaffolds on mesenchymal stem cell adhesion and chondrogenesis. <i>Acta Biomaterialia</i> , 2010 , 6, 3988-97	10.8	63
280	Materiomics: biological protein materials, from nano to macro. 2010 , 3, 127-48		38
279	Relationship between morphological parameters of cancellous bone and its mechanical properties. 2010 ,		1
278	Effect of micro- and macroporosity of bone tissue three-dimensional-poly(epsilon-caprolactone) scaffold on human mesenchymal stem cells invasion, proliferation, and differentiation in vitro. 2010 , 16, 2661-73		84
277	A Brief Review of Visualization Techniques for Nerve Tissue Engineering Applications. 2010 , 7, 81-99		4
276	Effect of pore architecture on oxygen diffusion in 3D scaffolds for tissue engineering. 2010 , 132, 10450	6	26
275	Validation of a fluid-structure interaction model of solute transport in pores of cyclically deformed tissue scaffolds. 2010 , 16, 1145-56		3

274	Endothelial progenitor cells as a sole source for ex vivo seeding of tissue-engineered heart valves. 2010 , 16, 257-67	61
273	Multimodal biomaterial strategies for regeneration of infarcted myocardium. 2010 , 20, 8819	20
272	Mechanical and biochemical assessments of three-dimensional poly(1,8-octanediol-co-citrate) scaffold pore shape and permeability effects on in vitro chondrogenesis using primary chondrocytes. 2010 , 16, 3759-68	41
271	Preliminary investigation of airgap electrospun silk-fibroin-based structures for ligament analogue engineering. 2011 , 22, 1253-73	30
270	Increasing the pore size of electrospun scaffolds. 2011 , 17, 365-72	182
269	Introduction. 2011 , 1-30	
268	Natural and Synthetic Scaffolds. 2011 , 41-67	13
267	Electrospun Nanocomposites and Stem Cells in Cardiac Tissue Engineering. 2011 , 215-242	6
266	Multifunctional Polymer Based Structures for Human Tissues Reconstruction. 2011 , 91-112	1
265	A functionally gradient variational porosity architecture for hollowed scaffolds fabrication. 2011 , 3, 034106	22
264	Tuning the microstructure and biodegradation of three-phase scaffolds for bone regeneration made of PCL, Zein, and HA. 2011 , 47, 245-260	13
263	Finite element method (FEM), mechanobiology and biomimetic scaffolds in bone tissue engineering. 2011 , 7, 112-32	105
262	In vitro evaluation of natural marine sponge collagen as a scaffold for bone tissue engineering. 2011 , 7, 968-77	84
261	Tuning the dependency between stiffness and permeability of a cell encapsulating hydrogel with hydrophilic pendant chains. <i>Acta Biomaterialia</i> , 2011 , 7, 3719-28	44
260	Migration of co-cultured endothelial cells and osteoblasts in composite hydroxyapatite/polylactic acid scaffolds. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2501-9	17
259	Mechanical and microarchitectural analyses of cancellous bone through experiment and computer simulation. 2011 , 49, 1393-403	19
258	P-15 functionalized porous microspheres as biomimetic habitats for bone tissue engineering applications. 2011 , 22, 190-198	7
257	Hydrophilized 3D porous scaffold for effective plasmid DNA delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 441-50	14

256	Design concepts and strategies for tissue engineering scaffolds. 2011 , 58, 423-38		58
255	Hydroxyapatite/biodegradable poly(L-lactide-co-Etaprolactone) composite microparticles as injectable scaffolds by a Pickering emulsion route. <i>Acta Biomaterialia</i> , 2011 , 7, 821-8	10.8	42
254	Microstructure design of biodegradable scaffold and its effect on tissue regeneration. <i>Biomaterials</i> , 2011 , 32, 5003-14	15.6	109
253	Effect of polycaprolactone scaffold permeability on bone regeneration in vivo. 2011 , 17, 1831-9		115
252	Degradation Behavior of 3D Porous Polydioxanone-b-Polycaprolactone Scaffolds Fabricated Using the Melt-Molding Particulate-Leaching Method. 2011 , 22, 225-37		39
251	Finite Element Analysis of Schwarz P Surface Pore Geometries for Tissue-Engineered Scaffolds. 2012 , 2012, 1-13		28
250	Osteogenic differentiation and mineralization in fibre-reinforced tubular scaffolds: theoretical study and experimental evidences. 2012 , 9, 2201-12		19
249	POLYMER SCAFFOLDS FOR REGENERATIVE THERAPIES IDESIGN OF HIERARCHICALLY ORGANIZED STRUCTURES AND THEIR MORPHOLOGICAL CHARACTERIZATION. 2012 , 02, 1230005		2
248	Bio-inspired composite and cell instructive platforms for bone regeneration. 2012 , 57, 256-275		69
247	Recent advances in 3D printing of tissue engineering scaffolds. 2012 , 868, 257-67		54
246	Influence of the macro and micro-porous structure on the mechanical behavior of poly(l-lactic acid) scaffolds. 2012 , 358, 3141-3149		45
245	CollagenETCP conjugated PCL biocomposites for bone tissue regeneration: fabrication, physical properties, and cellular activities. 2012 , 22, 22565		15
244	Binary system thermodynamics to control pore architecture of PCL scaffold via temperature-driven phase separation process. 2012 , 27, 241-54		18
243	Helix coil polypeptide macromers: gel networks with decoupled stiffness and permeability. 2012 , 42, 10887-10895		26
242	Strut size and surface area effects on long-term in vivo degradation in computer designed poly(L-lactic acid) three-dimensional porous scaffolds. <i>Acta Biomaterialia</i> , 2012 , 8, 2568-77	10.8	46
241	Effect of ZrO2 addition on the mechanical properties of porous TiO2 bone scaffolds. 2012 , 32, 1386-93		16
240	Porosity and mechanically optimized PLGA based in situ hardening systems. 2012 , 82, 554-62		12
239	Oxygen diffusion through collagen scaffolds at defined densities: implications for cell survival in tissue models. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 77-84	4.4	61

238	Nanophase bone substitute in vivo response to subcutaneous implantation. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2462-73		5
237	Interconnectivity analysis of supercritical COFFoamed scaffolds. 2012 , 106, 139-49		13
236	Exploiting extracellular matrix-stem cell interactions: a review of natural materials for therapeutic muscle regeneration. <i>Biomaterials</i> , 2012 , 33, 428-43	6	79
235	Towards personalized medicine with a three-dimensional micro-scale perfusion-based two-chamber tissue model system. <i>Biomaterials</i> , 2012 , 33, 4353-61	6	66
234	In vitro mesenchymal trilineage differentiation and extracellular matrix production by adipose and bone marrow derived adult equine multipotent stromal cells on a collagen scaffold. 2013 , 9, 858-72		45
233	The effect of rhBMP-2 and PRP delivery by biodegradable Ericalcium phosphate scaffolds on new bone formation in a non-through rabbit cranial defect model. 2013 , 24, 1895-903		23
232	Computational methodology to determine fluid related parameters of non regular three-dimensional scaffolds. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 2367-80		19
231	Scaffold Design for Bone Tissue Engineering: From Micrometric to Nanometric Level. 2013 , 1-16		1
230	The influence of scaffold material on chondrocytes under inflammatory conditions. <i>Acta Biomaterialia</i> , 2013 , 9, 6563-75	8	34
229	Evaluation of the effective diffusivity of a freeform fabricated scaffold using computational simulation. 2013 , 135, 84501		24
228	Designing heterogeneous porous tissue scaffolds for additive manufacturing processes. 2013 , 45, 1507-152	23	43
227	Generation of eX vivo-vascularized Muscle Engineered Tissue (X-MET). 2013 , 3, 1420		53
226	Ultrasound-assisted permeability improvement and acoustic characterization for solid-state fabricated PLA foams. 2013 , 20, 137-43		18
225	Effect of polyurethane scaffold architecture on ingrowth speed and collagen orientation in a subcutaneous rat pocket model. 2013 , 8, 025004		13
224	Spatially Multi-functional Porous Tissue Scaffold. 2013 , 59, 174-182		5
223	Two-step freeze casting fabrication of hydroxyapatite porous scaffolds with bionic bone graded structure. 2013 , 39, 9703-9707		42
222	Cell proliferation, viability, and in vitro differentiation of equine mesenchymal stem cells seeded on bacterial cellulose hydrogel scaffolds. 2013 , 33, 1935-44		76
221	Fabrication of Tissue Engineering Scaffolds. 2013 , 427-446		17

220	Shining light on nanotechnology to help repair and regeneration. 2013 , 31, 607-31		80
219	Processing of highly porous TiO2 bone scaffolds with improved compressive strength. 2013 , 33, 15-24		39
218	Fabrication of channeled scaffolds with ordered array of micro-pores through microsphere leaching and indirect Rapid Prototyping technique. 2013 , 15, 83-96		38
217	A survey of methods for the evaluation of tissue engineering scaffold permeability. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 2027-41	4.7	54
216	Technique for internal channelling of hydroentangled nonwoven scaffolds to enhance cell penetration. 2013 , 28, 241-9		3
215	Microscale diffusion measurements and simulation of a scaffold with a permeable strut. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 20157-70	6.3	8
214	3D Printing for Tissue Engineering. <i>Israel Journal of Chemistry</i> , 2013 , 53, n/a-n/a	3.4	12
213	Proliferation of meniscal fibrochondrocytes cultured on a new polyurethane scaffold is stimulated by TGF- 2013 , 27, 617-26		12
212	Modeling of Variational Gradient Porous Architecture with Multi-directional Filament Deposition in 3D Scaffolds. 2013 , 10, 445-459		5
211	Characterization of the Microarchitecture of Direct Writing Melt Electrospun Tissue Engineering Scaffolds Using Diffusion Tensor and Computed Tomography Microimaging. 2014 , 1, 95-103		6
210	Numerical simulation of the effect of permeability on the hydrodynamics in a parallel-plate coculture flow chamber. 2014 , 17, 875-87		2
209	Fabrication of self-assembling peptide nanofiber hydrogels for myocardial repair. 2014 , 4, 53801-53811		18
208	Porogen Templating Processes: An Overview. 2014 , 136,		11
207	Image-based three-dimensional analysis to characterize the texture of porous scaffolds. 2014 , 2014, 161437		13
206	Tailoring the pore structure of foam scaffolds for nerve regeneration. 2014, 101-128		4
205	Fabrication and Permeability Characteristics of Microdialysis Probe Using Chitosan Nanoporous Membrane. 2014 , 2014, 1-11		5
204	Skeletal muscle tissue engineering: strategies for volumetric constructs. 2014 , 5, 362		71
203	3D tissue-engineered model of Ewing's sarcoma. 2014 , 79-80, 155-71		36

202	Engineering Functional Tissues. 2014 , 237-259		2
201	Bone morphogenetic proteins-immobilized polydioxanone porous particles as an artificial bone graft. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1264-74	5.4	11
200	Permeability of rapid prototyped artificial bone scaffold structures. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4127-35	5.4	23
199	Relating pore size variation of poly (e-caprolactone) scaffolds to molecular weight of porogen and evaluation of scaffold properties after degradation. 2014 , 102, 789-96		12
198	Reconstruction of penile urethra with the 3-dimensional porous bladder acellular matrix in a rabbit model. 2014 , 84, 1499-505		27
197	Optimal design and manufacture of biomedical foam pore structure for tissue engineering applications. 2014 , 71-100		3
196	A comparative study of oxygen diffusion in tissue engineering scaffolds. 2014 , 25, 2573-8		17
195	Electrospun nanofibrous cellulose scaffolds with controlled microarchitecture. 2014 , 100, 143-9		35
194	Effect of heterogeneous multi-layered gelatin scaffolds on the diffusion characteristics and cellular activities of preosteoblasts. 2014 , 22, 99-107		10
193	Oxygen-tension controlled matrices for enhanced osteogenic cell survival and performance. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 1261-70	4.7	25
192	The effect of scaffold macroporosity on angiogenesis and cell survival in tissue-engineered smooth muscle. <i>Biomaterials</i> , 2014 , 35, 5129-37	15.6	56
191	Current trends in the design of scaffolds for computer-aided tissue engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 580-94	10.8	304
190	Effects of micro and nano ETCP fillers in freeze-gelled chitosan scaffolds for bone tissue engineering. 2014 , 131,		27
189	Micro-wing and pore design in an implantable FPC-based neural stimulation probe for minimally invasive surgery. 2014 ,		1
188	Biologically improved nanofibrous scaffolds for cardiac tissue engineering. 2014 , 44, 268-77		62
187	A novel scaffold geometry for chondral applications: theoretical model and in vivo validation. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 2107-19	4.9	13
186	A three-dimensional cell-laden microfluidic chip for in vitro drug metabolism detection. 2014 , 6, 025008	3	17
185	Finite element modelling of bone tissue scaffolds. 2014 , 485-511		3

(2015-2014)

184	The effects of Fe2O3 and Co3O4 on microstructure and properties of foam glass from soda lime waste glasses. 2014 , 40, 173-179		14
183	Engineering muscle constructs for the creation of functional engineered musculoskeletal tissue. 2014 , 9, 89-100		67
182	Fabrication of large perfusable macroporous cell-laden hydrogel scaffolds using microbial transglutaminase. <i>Acta Biomaterialia</i> , 2014 , 10, 912-20	10.8	30
181	Interconnectivity and permeability of supercritical fluid-foamed scaffolds and the effect of their structural properties on cell distribution. 2014 , 55, 435-444		45
180	Physiology and metabolism of tissue-engineered skeletal muscle. 2014 , 239, 1203-14		43
179	Ectopic bone formation in and soft-tissue response to P(CL/DLLA)/bioactive glass composite scaffolds. 2014 , 25, 159-64		17
178	Composite hydrogel scaffolds with controlled pore opening via biodegradable hydrogel porogen degradation. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 400-12	5.4	14
177	Differentiated adipose-derived stem cell cocultures for bone regeneration in polymer scaffolds in vivo. 2014 , 25, 1504-9		15
176	Facile preparation and cytocompatibility of poly(lactic acid)/poly(3-hydroxybutyrate-co-4-hydroxybutyrate) hybrid fibrous scaffolds. 2014 , 54, 2902-2910		2
175	Electrospinning Techniques to Control Deposition and Structural Alignment of Nanofibrous Scaffolds for Cellular Orientation and Cytoskeletal Reorganization. 2014 , 285-304		1
174	Functions and Requirements of Synthetic Scaffolds in Tissue Engineering. 2014, 63-102		1
173	Load bearing and stiffness tailored NiTi implants produced by additive manufacturing: a simulation study. 2014 ,		6
172	In vivo imaging study of angiogenesis in a channelized porous scaffold. 2015 , 14,		6
171	Impedance Spectroscopic Characterisation of Porosity in 3D Cell Culture Scaffolds with Different Channel Networks. 2015 , 27, 193-199		13
170	Design, materials, and mechanobiology of biodegradable scaffolds for bone tissue engineering. 2015 , 2015, 729076		196
169	Bone-tissue engineering: complex tunable structural and biological responses to injury, drug delivery, and cell-based therapies. 2015 , 47, 431-54		25
168	Microstructural parameter-based modeling for transport properties of collagen matrices. 2015 , 137, 061003		5
167	On glucose diffusivity of tissue engineering membranes and scaffolds. 2015 , 126, 244-256		22

166	Low intensity pulse ultrasound stimulate chondrocytes growth in a 3-D alginate scaffold through improved porosity and permeability. 2015 , 58, 43-52		9
165	Hydroxyapatite reinforced collagen scaffolds with improved architecture and mechanical properties. <i>Acta Biomaterialia</i> , 2015 , 17, 16-25	o.8	129
164	Tribology-optimised silk protein hydrogels for articular cartilage repair. 2015 , 89, 9-18		26
163	Characterization of Fibrin and Collagen Gels for Engineering Wound Healing Models. 2015 , 8, 1636-1651		62
162	Integrating biologically inspired nanomaterials and table-top stereolithography for 3D printed biomimetic osteochondral scaffolds. 2015 , 7, 14010-22		151
161	Hybrid Fabrication of a 3D Printed Geometry Embedded with PCL Nanofibers for Tissue Engineering Applications. 2015 , 110, 128-134		14
160	Recent advances in 3D printing of biomaterials. 2015 , 9, 4		963
159	The significance of grafting collagen on polycaprolactone composite scaffolds: processing-structure-functional property relationship. <i>Journal of Biomedical Materials Research</i> - 5.4 Part A, 2015 , 103, 2919-31	4	20
158	Fabrication of biomimetic polysiloxane-bioactive glassthitosan hybrid monoliths with high apatite-forming bioactivity. 2015 , 41, S393-S398		5
157	Fundamental Properties of Bioceramics and Biocomposites. 2015 , 1-19		1
156	Urethral reconstruction with a 3D porous bacterial cellulose scaffold seeded with lingual keratinocytes in a rabbit model. 2015 , 10, 055005		31
155	In vitro and in vivo evaluation of the marine sponge skeleton as a bone mimicking biomaterial. 2015 , 7, 250-62		35
154	Greater scaffold permeability promotes growth of osteoblastic cells in a perfused bioreactor. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, E210-8	4	18
153	Periodontal regeneration with stem cells-seeded collagen-hydroxyapatite scaffold. 2016 , 31, 121-31		34
152	Bilayer Implants: Electromechanical Assessment of Regenerated Articular Cartilage in a Sheep Model. 2016 , 7, 346-60		12
151	Morphological and swelling behavior of cellulose nanofiber (CNF)/poly(vinyl alcohol) (PVA) hydrogels: poly(ethylene glycol) (PEG) as porogen. 2016 , 6, 43626-43633		54
150	Toward mimicking the bone structure: design of novel hierarchical scaffolds with a tailored radial porosity gradient. 2016 , 8, 045007		47
149	Polylactides: Properties and Applications. 2016 , 1-18		

148	Enhanced Osteogenesis of ADSCs by the Synergistic Effect of Aligned Fibers Containing Collagen I. 2016 , 8, 29289-29297		45
147	3D cell clusters combined with a bioreactor system to enhance the drug metabolism activities of C3A hepatoma cell lines. 2016 , 4, 7000-7008		3
146	Fundamental Properties of Bioceramics and Biocomposites. 2016 , 35-58		4
145	Cell structure, stiffness and permeability of freeze-dried collagen scaffolds in dry and hydrated states. <i>Acta Biomaterialia</i> , 2016 , 33, 166-75	.o.8	48
144	Differentiation of mesenchymal stem cells for cartilage tissue engineering: Individual and synergetic effects of three-dimensional environment and mechanical loading. <i>Acta Biomaterialia</i> , 2016, 33, 1-12	20.8	71
143	Optimal design of a 3D-printed scaffold using intelligent evolutionary algorithms. 2016 , 39, 36-47		32
142	Promotion of In Vitro Chondrogenesis of Mesenchymal Stem Cells Using In Situ Hyaluronic Hydrogel Functionalized with Rod-Like Viral Nanoparticles. 2016 , 17, 1930-8		32
141	Studying the influence of angiogenesis in in vitro cancer model systems. 2016 , 97, 250-9		62
140	An overview of recent patents on musculoskeletal interface tissue engineering. 2016 , 57, 53-67		7
139	Quantification of fluid shear stress in bone tissue engineering scaffolds with spherical and cubical pore architectures. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 561-77	.8	48
138	Enhanced porosity and permeability of three-dimensional alginate scaffolds via acoustic microstreaming induced by low-intensity pulsed ultrasound. 2017 , 37, 279-285		10
137	Diametral compression behavior of biomedical titanium scaffolds with open, interconnected pores prepared with the space holder method. 2017 , 68, 144-154		13
136	Additively manufactured metallic porous biomaterials based on minimal surfaces: A unique combination of topological, mechanical, and mass transport properties. <i>Acta Biomaterialia</i> , 2017 , 53, 572-584	20.8	331
135	Design and mechanical characterization of solid and highly porous 3D printed poly(propylene fumarate) scaffolds. 2017 , 2, 99-108		26
134	Urethral reconstruction with autologous urine-derived stem cells seeded in three-dimensional porous small intestinal submucosa in a rabbit model. 2017 , 8, 63		54
133	Osteoinduction of stem cells by collagen peptide-immobilized hydrolyzed poly(butylene succinate)/Ericalcium phosphate scaffold for bone tissue engineering. 2017 , 31, 859-870		3
132	In silico modeling of structural and porosity properties of additive manufactured implants for regenerative medicine. 2017 , 76, 810-817		12
131	Orthopedic Interface Repair Strategies Based on Native Structural and Mechanical Features of the Multiscale Enthesis. 2017 , 3, 2633-2643		4

130	Estimation of anisotropic permeability in trabecular bone based on microCT imaging and pore-scale fluid dynamics simulations. 2017 , 6, 129-139	18
129	Additive-manufactured polycaprolactone scaffold consisting of innovatively designed microsized spiral struts for hard tissue regeneration. 2016 , 9, 015005	18
128	Electroactive 3D Scaffolds Based on Silk Fibroin and Water-Borne Polyaniline for Skeletal Muscle Tissue Engineering. 2017 , 17, 1700147	43
127	The Top 50 Most Cited Articles in Cartilage Regeneration. 2017 , 6, 58-62	4
126	Micro-computed tomography characterization of tissue engineering scaffolds: effects of pixel size and rotation step. 2017 , 28, 129	19
125	⊞TCP cements prepared by syringe-foaming: Influence of NaHPO and surfactant concentration. 2017 , 81, 148-155	6
124	Predicting permeability of regular tissue engineering scaffolds: scaling analysis of pore architecture, scaffold length, and fluid flow rate effects. 2017 , 20, 231-241	27
123	Systematic characterization of porosity and mass transport and mechanical properties of porous polyurethane scaffolds. 2017 , 65, 657-664	21
122	New strategy for design and fabrication of polymer hydrogel with tunable porosity as artificial corneal skirt. 2017 , 70, 665-672	21
121	RGD constructs with physical anchor groups as polymer co-electrospinnable cell adhesives. 2017 , 28, 1312-1317	1
120	In Vitro Production of Cartilage Tissue from Rabbit Bone Marrow-Derived Mesenchymal Stem Cells and Polycaprolactone Scaffold. 2019 , 1084, 45-60	12
119	Effect of pore sizes of PLGA scaffolds on mechanical properties and cell behaviour for nucleus pulposus regeneration in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 44-57	35
118	Design for Additive Bio-Manufacturing: From Patient-Specific Medical Devices to Rationally Designed Meta-Biomaterials. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	60
117	Metallic Biomaterials: Current Challenges and Opportunities. 2017 , 10,	258
116	An ECM-Mimicking, Mesenchymal Stem Cell-Embedded Hybrid Scaffold for Bone Regeneration. 2017 , 2017, 8591073	20
115	Investigate the Effect of Thawing Process on the Self-Assembly of Silk Protein for Tissue Applications. 2017 , 2017, 4263762	2
114	Singlet-assisted diffusion-NMR (SAD-NMR): redefining the limits when measuring tortuosity in porous media. 2018 , 20, 13705-13713	15
113	Synergistic Effects of Beta Tri-Calcium Phosphate and Porcine-Derived Decellularized Bone Extracellular Matrix in 3D-Printed Polycaprolactone Scaffold on Bone Regeneration. 2018 , 18, e1800025	51

112	Surgical perspectives regarding application of biomaterials for the management of large congenital diaphragmatic hernia defects. 2018 , 34, 475-489		12
111	Design and Structure-Function Characterization of 3D Printed Synthetic Porous Biomaterials for Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701095	1	68
110	Human Mesenchymal Stem Cell Failure to Adapt to Glucose Shortage and Rapidly Use Intracellular Energy Reserves Through Glycolysis Explains Poor Cell Survival After Implantation. 2018 , 36, 363-376		60
109	In Vitro Tissue-Engineered Skeletal Muscle Models for Studying Muscle Physiology and Disease. Advanced Healthcare Materials, 2018 , 7, e1701498	1	44
108	Natural polymeric hydrogel evaluation for skeletal muscle tissue engineering. 2018 , 106, 672-679		44
107	Bioactive Biomaterials: Potential for Application in Bone Regenerative Medicine. 2018, 333-360		4
106	Fabrication of dense anisotropic collagen scaffolds using biaxial compression. <i>Acta Biomaterialia</i> , 2018 , 65, 76-87	8	28
105	The role of titanium dioxide on the morphology, microstructure, and bioactivity of grafted cellulose/hydroxyapatite nanocomposites for a potential application in bone repair. 2018 , 106, 481-488		27
104	Biomimetics in Endodontics: A Review of the Changing Trends in Endodontics. 2018, 9, 11-14		1
103	Mechanobiology of framework material used for manufacture of bone tissue implants. Review of mathematical models. 2018 ,		
102	Micro-CT - a digital 3D microstructural voyage into scaffolds: a systematic review of the reported methods and results. 2018 , 22, 26		39
101	Scaffolds Fabricated from Natural Polymers/Composites by Electrospinning for Bone Tissue Regeneration. 2018 , 1078, 49-78		26
100	3D Bioprinting Stem Cell Derived Tissues. 2018 , 11, 219-240		34
99	Numerical Evaluation and Prediction of Porous Implant Design and Flow Performance. 2018 , 2018, 1215027	ı	4
98	Improvement of cellular responses of genipin cross-linked chitosan/nano BTCP composite scaffolds by surface modification with fibrin. 2018 , 4, 045034		2
97	Differentiated adipose-derived stem cell cocultures for bone regeneration in RADA16-I in vitro. 2018 , 233, 9458-9472		13
96	3D-printed chitosan-based scaffolds: An in vitro study of human skin cell growth and an in-vivo wound healing evaluation in experimental diabetes in rats. 2018 , 199, 593-602		101
95	Effect of oxygen plasma etching on pore size-controlled 3D polycaprolactone scaffolds for enhancing the early new bone formation in rabbit calvaria. 2018 , 37, 599-610		7

94	Can porous polymeric scaffolds be functionalized by stem cells leading to osteogenic differentiation? A systematic review of in vitro studies. 2018 , 53, 15757-15768	4
93	Structural characterization and strengthening mechanism of forsterite nanostructured scaffolds synthesized by multistep sintering method. 2018 , 34, 2263-2270	14
92	Effectiveness of Surface Treatment with Amine Plasma for Improving the Biocompatibility of Maxillofacial Plates. 2019 , 12,	7
91	Integrated Design Approaches for 3D Printed Tissue Scaffolds: Review and Outlook. 2019 , 12,	40
90	Bacterial cellulose-reinforced boron-doped hydroxyapatite/gelatin scaffolds for bone tissue engineering. 2019 , 26, 9765-9785	17
89	Medical Applications. 2019 , 215-302	
88	Synthesis of Bio-based Polymer Composites: Fabrication, Fillers, Properties, and Challenges. 2019 , 29-55	13
87	The ultimate goals of tooth regeneration: Where do we stand?. 2019 , 16, 123-129	
86	Micro-injection molded, poly(vinyl alcohol)-calcium salt templates for precise customization of 3D hydrogel internal architecture. <i>Acta Biomaterialia</i> , 2019 , 95, 258-268	12
85	Novel Strategy to Accelerate Bone Regeneration of Calcium Phosphate Cement by Incorporating 3D Plotted Poly(lactic-co-glycolic acid) Network and Bioactive Wollastonite. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801325	14
84	Sustainable Biomass Materials for Biomedical Applications. 2019 , 5, 2079-2092	15
83	Advanced Functional Biomaterials for Stem Cell Delivery in Regenerative Engineering and Medicine. 2019 , 29, 1809009	38
82	Composite scaffolds for bone and osteochondral defects. 2019 , 297-337	1
81	iPSCs: A powerful tool for skeletal muscle tissue engineering. 2019 , 23, 3784-3794	30
80	An overview of advanced biocompatible and biomimetic materials for creation of replacement structures in the musculoskeletal systems: focusing on cartilage tissue engineering. 2019 , 13, 85	33
79	A collagen-coated sponge silk scaffold for functional meniscus regeneration. <i>Journal of Tissue</i> Engineering and Regenerative Medicine, 2019 , 13, 156-173 4-4	20
78	Evaluation of permeability and fluid wicking in woven fiber bone scaffolds. 2019, 107, 306-313	8
77	Understanding and leveraging cell metabolism to enhance mesenchymal stem cell transplantation survival in tissue engineering and regenerative medicine applications. 2020 , 38, 22-33	32

(2020-2020)

76	Mechanical properties of tissue formed in vivo are affected by 3D-bioplotted scaffold microarchitecture and correlate with ECM collagen fiber alignment. 2020 , 61, 190-204		8
75	Reviewing recently developed technologies to direct cell activity through the control of pore size: From the macro- to the nanoscale. 2020 , 108, 1176-1185		10
74	Combined Effects of Electrical Stimulation and Protein Coatings on Myotube Formation in a Soft Porous Scaffold. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 734-746	4.7	4
73	Reinforced alginate/gelatin sponges functionalized by avidin/biotin-binding strategy: a novel cardiac patch. 2020 , 34, 975-987		10
72	3D printed scaffolds for biomedical applications. 2020 , 255, 123642		20
71	Hollow Fiber Membranes of PCL and PCL/Graphene as Scaffolds with Potential to Develop In Vitro Blood-Brain Barrier Models. 2020 , 10,		5
70	Synthesis and characterization of photocrosslinkable albumin-based hydrogels for biomedical applications. 2020 , 16, 9242-9252		14
69	Dentin-Pulp Tissue Regeneration Approaches in Dentistry: An Overview and Current Trends. 2020 , 1298, 79-103		5
68	Scale and structure dependent solute diffusivity within microporous tissue engineering scaffolds. 2020 , 31, 46		6
67	On design for additive manufacturing (DAM) parameter and its effects on biomechanical properties of 3D printed ceramic scaffolds. 2020 , 23, 101065		2
66	History and Trends of 3D Bioprinting. 2020 , 2140, 3-18		14
65	The Overview of Porous, Bioactive Scaffolds as Instructive Biomaterials for Tissue Regeneration and Their Clinical Translation. 2020 , 12,		34
64	Two-scale concurrent topology optimization of lattice structures with connectable microstructures. 2020 , 36, 101427		15
63	Osteogenic differentiation ability of human mesenchymal stem cells on Chitosan/Poly (Caprolactone)/nano beta Tricalcium Phosphate composite scaffolds. 2020 , 6, 015018		5
62	Hybrid manufacturing strategies for tissue engineering scaffolds using methacrylate functionalised poly(glycerol sebacate). 2020 , 34, 1114-1130		3
61	3D-printed poly(Etaprolactone) scaffold with gradient mechanical properties according to force distribution in the mandible for mandibular bone tissue engineering. 2020 , 104, 103638		23
60	Development of nanofibrous scaffolds by varying the TiO2 content in crosslinked PVA for bone tissue engineering. 2020 , 44, 2111-2121		16
59	Engineering functional tissues: in vitro culture parameters. 2020 , 157-177		1

58	Effects of porogen morphology on the architecture, permeability, and mechanical properties of hydroxyapatite whisker reinforced polyetheretherketone scaffolds. 2020 , 106, 103730		12
57	Three-Dimensional Printing of Hydrogel Scaffolds with Hierarchical Structure for Scalable Stem Cell Culture. 2020 , 6, 2995-3004		5
56	Cryo-3D Printing of Hierarchically Porous Polyhydroxymethylene Scaffolds for Hard Tissue Regeneration. 2021 , 306, 2000541		4
55	Introduction. 2021 , 1-25		
54	Regenerative medicine for skeletal muscle loss: a review of current tissue engineering approaches. 2021 , 32, 15		10
53	Role of PEGylated CdSe-ZnS quantum dots on structural and functional properties of electrospun polycaprolactone scaffolds for blood vessel tissue engineering. 2021 , 151, 110430		2
52	Foam Replica Method in the Manufacturing of Bioactive Glass Scaffolds: Out-of-Date Technology or Still Underexploited Potential?. 2021 , 14,		5
51	A Bioglass-Based Antibiotic (Vancomycin) Releasing Bone Void Filling Putty to Treat Osteomyelitis and Aid Bone Healing. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
50	Ice Templating Soft Matter: Fundamental Principles and Fabrication Approaches to Tailor Pore Structure and Morphology and Their Biomedical Applications. 2021 , 33, e2100091		20
49	Optimal regenerative repair of large segmental bone defect in a goat model with osteoinductive calcium phosphate bioceramic implants 2022 , 11, 240-253		6
48	Tuning the 3D Printability and Thermomechanical Properties of Radiation Shields. 2021, 13,		1
47	Preparation and evaluation of gellan gum hydrogel reinforced with silk fibers with enhanced mechanical and biological properties for cartilage tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021 , 15, 936-947	4.4	1
46	Tissue Engineering Applications for Cardiovascular Substitutes. 2009 , 887-911		1
45	Tissue Engineering: New Paradigm of Biomedicine. <i>Biosciences, Biotechnology Research Asia</i> , 2019 , 16, 521-532	0.5	5
44	3D differentiation of neural stem cells in macroporous photopolymerizable hydrogel scaffolds. <i>PLoS ONE</i> , 2012 , 7, e48824	3.7	73
43	Structure, Properties, and In Vitro Behavior of Heat-Treated Calcium Sulfate Scaffolds Fabricated by 3D Printing. <i>PLoS ONE</i> , 2016 , 11, e0151216	3.7	47
42	Novel approaches to bone grafting: porosity, bone morphogenetic proteins, stem cells, and the periosteum. <i>Journal of Long-Term Effects of Medical Implants</i> , 2010 , 20, 303-15	0.2	18
41	An Update on the Use of Alginate in Additive Biofabrication Techniques. <i>Current Pharmaceutical Design</i> , 2019 , 25, 1249-1264	3.3	4

40	Tunable 3D Hydrogel Microchannel Networks to Study Confined Mammalian Cell Migration. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100625	10.1	2
39	Biomanufacturing: A US-China National Science Foundation-Sponsored Workshop. <i>Tissue Engineering</i> , 2006 , 060518071048001		
38	Fabrication and Characterization of Poly(Propylene Fumarate) Scaffolds with Controlled Pore Structures Using 3-Dimensional Printing and Injection Molding. <i>Tissue Engineering</i> , 2006 , 06092812295	8005	
37	Electrospinning Techniques to Control Deposition and Structural Alignment of Nanofibrous Scaffolds for Cellular Orientation and Cytoskeletal Reorganization. 2008 , 243-260		
36	Macroporous Polymer Scaffolds Through Leaching Processes. 2009 , 49-81		
35	Injectable Hydrogels: From Basics to Nanotechnological Features and Potential Advances. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010 , 347-378	0.1	
34	Synthesis and Design. Springer Series in Materials Science, 2012, 399-424	0.9	
33	Novel Fabrication and Characterization of Pore-Size-Gradient Scaffolds by a Centrifugation Technique. 2012 , 589-608		
32	Ultrasonic enhancement of the porosity of alginate scaffold. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 024301	0.6	
31	A Perspective on the Impact of Additive Manufacturing on Future Biomaterials. 2017, 209-211		
30	Evaluating potential of tissue-engineered cryogels and chondrocyte derived exosomes in articular cartilage repair. <i>Biotechnology and Bioengineering</i> , 2021 ,	4.9	2
29	Novel and Emerging Materials Used in 3D Printing for Oral Health Care. <i>Materials Horizons</i> , 2020 , 317-	33 6 .6	
28	Micro-Osteo Tubular Scaffolds: a Method for Induction of Bone Tissue Constructs. <i>Regenerative Engineering and Translational Medicine</i> , 1	2.4	
27	3D Printing for Tissue Engineering. <i>Israel Journal of Chemistry</i> , 2013 , 53, 805-814	3.4	35
26	Fabrication and characterization of a bioactive polymethylmethacrylate-based porous cement loaded with strontium/calcium apatite nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 ,	5.4	
25	Synthesis Strategies and Applications of Metallic Foams and Hollow Structured Materials. <i>Indian Institute of Metals Series</i> , 2022 , 325-376	0.3	
24	Computational Study of In-Vivo CT-Based FEM Application in Bone Tissue Engineering. <i>Advances in Medical Education, Research, and Ethics</i> , 2022 , 300-316	0.1	
23	On-Growth and In-Growth Osseointegration Enhancement in PM Porous Ti-Scaffolds by Two Different Bioactivation Strategies: Alkali Thermochemical Treatment and RGD Peptide Coating <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1

22	Myoblast 3D bioprinting to burst in vitro skeletal muscle differentiation <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022 ,	4.4	3
21	Oxygen and Glucose Transportation and Distribution on 3D Osteochondral Scaffold in Silico Model. <i>Journal of Bionic Engineering</i> , 1	2.7	
20	Surface Treatment and Bioinspired Coating for 3D-Printed Implants. Frontiers in Chemistry, 2021, 9, 768	097	2
19	Effects of the 3D Geometry Reconstruction on the Estimation of 3D Porous Scaffold Permeability. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 4403-4407	0.9	
18	Biopolymer-Based Scaffolds for Bone and Tissue Engineering. 2022 , 33-61		
17	Mass Spectrometry, Structural Analysis, and Anti-Inflammatory Properties of Photo-Cross-Linked Human Albumin Hydrogels <i>ACS Applied Bio Materials</i> , 2022 ,	4.1	3
16	The Structure and Function of Next-Generation Gingival Graft Substitutes-A Perspective on Multilayer Electrospun Constructs with Consideration of Vascularization <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	
15	A multiparametric advection-diffusion reduced-order model for molecular transport in scaffolds for osteoinduction <i>Biomechanics and Modeling in Mechanobiology</i> , 2022 , 1	3.8	O
14	Multi-objective Shape Optimization of Bone Scaffolds: Enhancement of Mechanical Properties and Permeability <i>Acta Biomaterialia</i> , 2022 ,	10.8	0
13	Chemistry and engineering of brush type polymers: Perspective towards tissue engineering. <i>Advances in Colloid and Interface Science</i> , 2022 , 102694	14.3	3
12	Additive manufacturing of functionally graded porous titanium scaffolds for dental applications. 2022 , 139, 213018		1
11	Edible films for cultivated meat production. <i>Biomaterials</i> , 2022 , 287, 121659	15.6	1
10	Mature Bone Mechanoregulation Modelling for the Characterization of the Osseointegration Performance of Periodic Cellular Solids. 2022 , 101552		
9	Solvent types used for the preparation of hydrogels determine their mechanical properties and influence cell viability through gelatine and calcium ions release.		O
8	Mechanical Property Analysis of Triply Periodic Minimal Surface Inspired Porous Scaffold for Bone Applications: A Compromise between Desired Mechanical Strength and Additive Manufacturability.		О
7	Mechanical Characterisation and Numerical Modelling of TPMS-Based Gyroid and Diamond Ti6Al4V Scaffolds for Bone Implants: An Integrated Approach for Translational Consideration. 2022 , 9, 504		1
6	Scalable macroporous hydrogels enhance stem cell treatment of volumetric muscle loss. 2022 , 290, 121	1818	0
5	Print-and-Grow within a Novel Support Material for 3D Bioprinting and Post-Printing Tissue Growth. 2200882		1

CITATION REPORT

4	Mimicked Hydrogel Scaffolds for Articular Cartilage Surgery. 2023 , 149-164	O
3	Computational modeling and experimental characterization of fluid dynamics in micro-CT scanned scaffolds within a multiple-sample airlift perfusion bioreactor. 2022 , 108797	O
2	Harnessing the Potential of Fibrous Polyester Composites Meant for Bioactive Medical Devices. 2023 , 365-389	0
1	Hierarchically porous calcium phosphate scaffold with degradable PLGA microsphere network. 2023 , 301, 127633	0