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Functional Human Vascular Network Generated in Photocrosslinkable Gelatin Methacrylate Hydrogels

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543	Building vascular networks. 2012 , 4, 160ps23		175
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541	Material strategies for creating artificial cell-instructive niches. 2012 , 23, 820-5		41
540	Spatial control of cell-mediated degradation to regulate vasculogenesis and angiogenesis in hyaluronan hydrogels. 2012 , 33, 6123-31		109
539	Engineered cell-laden human protein-based elastomer. 2013 , 34, 5496-505		85
538	Bioactive polymeric-ceramic hybrid 3D scaffold for application in bone tissue regeneration. 2013 , 33, 4460-9		53
537	Biofabrication of multi-material anatomically shaped tissue constructs. 2013 , 5, 035007		221
536	Capillary morphogenesis in PEG-collagen hydrogels. 2013 , 34, 9331-40		56
535	Elastomeric Recombinant Protein-based Biomaterials. 2013 , 77, 110-118		66
534	Synthesis and characterization of hybrid hyaluronic acid-gelatin hydrogels. 2013 , 14, 1085-92		193
533	Engineering a 3D vascular network in hydrogel for mimicking a nephron. 2013 , 13, 1612-8		77
532	Fabrication of nature-inspired microfluidic network for perfusable tissue constructs. 2013 , 2, 1108-13		56
531	Transdermal regulation of vascular network bioengineering using a photopolymerizable methacrylated gelatin hydrogel. 2013 , 34, 6785-96		128
530	Derivation and network formation of vascular cells from human pluripotent stem cells. 2014 , 1202, 1-9		12
529	Integration and regression of implanted engineered human vascular networks during deep wound healing. 2013 , 2, 297-306		37
528	Gelatin-Based Materials in Ocular Tissue Engineering. 2014 , 7, 3106-3135		204
527	Properties of electrically responsive hydrogels as a potential dynamic tool for biomedical applications. 2014 , 131, n/a-n/a		15

526	25th anniversary article: Rational design and applications of hydrogels in regenerative medicine. 2014 , 26, 85-123	895
525	Neuronal differentiation of human placenta-derived multi-potent stem cells enhanced by cell body oscillation on gelatin hydrogel. 2014 , 29, 529-544	6
524	Interpenetrating networks based on gelatin methacrylamide and PEG formed using concurrent thiol click chemistries for hydrogel tissue engineering scaffolds. 2014 , 35, 1845-56	168
523	Injectable, porous, and cell-responsive gelatin cryogels. 2014 , 35, 2477-87	205
522	Microvessel Growth and Remodeling within a Three-dimensional Microfluidic Environment. 2014 , 7, 15-25	42
521	Controlling mechanical properties of cell-laden hydrogels by covalent incorporation of graphene oxide. 2014 , 10, 514-23	159
520	Engineering approaches for inducing blood vessel formation. 2014 , 3, 56-61	23
519	Enzymatic conjugation of a bioactive peptide into an injectable hyaluronic acid-tyramine hydrogel system to promote the formation of functional vasculature. 2014 , 10, 2539-50	38
518	Advances in hydrogel delivery systems for tissue regeneration. 2014 , 45, 690-7	125
517	Direct-write bioprinting of cell-laden methacrylated gelatin hydrogels. 2014 , 6, 024105	432
516	Three-dimensional printed trileaflet valve conduits using biological hydrogels and human valve interstitial cells. 2014 , 10, 1836-46	302
515	Microfluidics-assisted fabrication of gelatin-silica core-shell microgels for injectable tissue constructs. 2014 , 15, 283-90	100
514	Mechanosensing of cells in 3D gel matrices based on natural and synthetic materials. 2014 , 38, 1233-43	11
513	Fabrication of silicon molds with multi-level, non-planar, micro- and nano-scale features. 2014 , 25, 375301	3
512	Micropatterning electrospun scaffolds to create intrinsic vascular networks. 2014 , 14, 1514-20	21
511	Mineralized gelatin methacrylate-based matrices induce osteogenic differentiation of human induced pluripotent stem cells. 2014 , 10, 4961-4970	74
510	Harnessing developmental processes for vascular engineering and regeneration. 2014 , 141, 2760-9	49
509	Tailoring the properties of gelatin films for drug delivery applications: influence of the chemical cross-linking method. 2014 , 70, 10-9	39

508	CellBiomaterial interactions for blood vessel formation. 2014 , 350-388		1
507	Complementary density gradient of Poly(hydroxyethyl methacrylate) and YIGSR selectively guides migration of endotheliocytes. 2014 , 15, 2256-64		45
506	Photopolymerization-based additive manufacturing for the development of 3D porous scaffolds. 2014 , 149-201		12
505	In vitro pre-vascularisation of tissue-engineered constructs A co-culture perspective. 2014 , 6, 13		72
504	Cell-laden photocrosslinked GelMA-DexMA copolymer hydrogels with tunable mechanical properties for tissue engineering. 2014 , 25, 2173-83		55
503	Injectable graphene oxide/hydrogel-based angiogenic gene delivery system for vasculogenesis and cardiac repair. 2014 , 8, 8050-62		359
502	Structural Reinforcement of Cell-Laden Hydrogels with Microfabricated Three Dimensional Scaffolds. 2014 , 2, 703-709		71
501	Hydrogel bioprinted microchannel networks for vascularization of tissue engineering constructs. 2014 , 14, 2202-11		632
500	Development and characterisation of a new bioink for additive tissue manufacturing. 2014 , 2, 2282-2289		150
499	Microfluidic techniques for development of 3D vascularized tissue. 2014 , 35, 7308-25		215
498	Gelatin hydrogels formed by orthogonal thiol-norbornene photochemistry for cell encapsulation. 2014 , 2, 1063-1072		150
497	Time Dependence of Material Properties of Polyethylene Glycol Hydrogels Chain Extended with Short Hydroxy Acid Segments. 2014 , 55, 3894-3904		20
496	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. <i>Advanced Functional Materials</i> , 2015 , 25, 2250-2259	15.6	104
495	Hydrogel Templates for Rapid Manufacturing of Bioactive Fibers and 3D Constructs. 2015 , 4, 2146-2153		109
494	Photodegradable Gelatin-Based Hydrogels Prepared by Bioorthogonal Click Chemistry for Cell Encapsulation and Release. 2015 , 16, 2246-53		73
493	Efficient and controllable synthesis of highly substituted gelatin methacrylamide for mechanically stiff hydrogels. 2015 , 5, 106094-106097		67
492	3-Dimensional cell-laden nano-hydroxyapatite/protein hydrogels for bone regeneration applications. 2015 , 49, 835-843		57
491	VA-086 methacrylate gelatine photopolymerizable hydrogels: A parametric study for highly biocompatible 3D cell embedding. 2015 , 103, 2109-17		76

490	Development of a hybrid gelatin hydrogel platform for tissue engineering and protein delivery applications. 2015 , 3, 6368-6376	26
489	Synthesis and characterization of a photocrosslinkable chitosan-gelatin hydrogel aimed for tissue regeneration. 2015 , 5, 63478-63488	53
488	Vascularization of engineered musculoskeletal tissues. 2015 , 269-291	
487	Reinforcement of hydrogels using three-dimensionally printed microfibrils. 2015 , 6, 6933	464
486	Enzymatic regulation of functional vascular networks using gelatin hydrogels. 2015 , 19, 85-99	31
485	Introduction to In Situ Forming Hydrogels for Biomedical Applications. 2015 , 5-35	13
484	Photo-cross-linkable methacrylated gelatin and hydroxyapatite hybrid hydrogel for modularly engineering biomimetic osteon. 2015 , 7, 10386-94	96
483	Engineering Pre-vascularized Scaffolds for Bone Regeneration. 2015 , 881, 79-94	71
482	A multilayered microfluidic blood vessel-like structure. 2015 , 17, 88	82
481	Hydrogels for Cell Encapsulation and Bioprinting. 2015 , 89-108	2
480	Gelation characteristics, physico-mechanical properties and degradation kinetics of micellar hydrogels. 2015 , 72, 566-576	10
479	Three dimensional de novo micro bone marrow and its versatile application in drug screening and regenerative medicine. 2015 , 240, 1029-38	4
478	Bioengineering vascularized tissue constructs using an injectable cell-laden enzymatically crosslinked collagen hydrogel derived from dermal extracellular matrix. 2015 , 27, 151-166	60
477	Synthesis, properties, and biomedical applications of gelatin methacryloyl (GelMA) hydrogels. 2015 , 73, 254-71	1167
476	CD45+ Cells Present Within Mesenchymal Stem Cell Populations Affect Network Formation of Blood-Derived Endothelial Outgrowth Cells. 2015 , 4, 75-88	9
475	Anisotropic poly (glycerol sebacate)-poly (ϵ -caprolactone) electrospun fibers promote endothelial cell guidance. 2014 , 7, 015001	77
474	Gelatin methacrylate microspheres for controlled growth factor release. 2015 , 13, 101-10	89
473	An artificial blood vessel implanted three-dimensional microsystem for modeling transvascular migration of tumor cells. 2015 , 15, 1178-87	59

472	Modular poly(ethylene glycol) matrices for the controlled 3D-localized osteogenic differentiation of mesenchymal stem cells. 2015 , 4, 550-8	29
471	Glycosaminoglycan-based hydrogels to modulate heterocellular communication in in vitro angiogenesis models. 2014 , 4, 4414	150
470	Endochondral bone formation in gelatin methacrylamide hydrogel with embedded cartilage-derived matrix particles. 2015 , 37, 174-82	124
469	Engineering a vascularized collagen-β-tricalcium phosphate graft using an electrochemical approach. 2015 , 11, 449-58	43
468	Bioorthogonal Radiopaque Hydrogel for Endoscopic Delivery and Universal Tissue Marking. 2016 , 5, 421-6	13
467	Human Skin Constructs with Spatially Controlled Vasculature Using Primary and iPSC-Derived Endothelial Cells. 2016 , 5, 1800-7	123
466	Sustained presentation of BMP-2 enhances osteogenic differentiation of human adipose-derived stem cells in gelatin hydrogels. 2016 , 104, 1387-97	24
465	A Tailor-Made Synthetic Polymer for Cell Encapsulation: Design Rationale, Synthesis, Chemical-Physics and Biological Characterizations. 2016 , 16, 870-81	7
464	Dual Role of Mesenchymal Stem Cells Allows for Microvascularized Bone Tissue-Like Environments in PEG Hydrogels. 2016 , 5, 489-98	40
463	The effects of gelatin-dopamine coating on polydimethylsiloxane substrates on pluripotency maintenance and myocardial differentiation of cultured mouse embryonic stem cells. 2016 , 4, 7961-7973	16
462	Flexible control of cellular encapsulation, permeability, and release in a droplet-templated bifunctional copolymer scaffold. 2016 , 10, 064115	18
461	Bio-functionalized silk hydrogel microfluidic systems. 2016 , 93, 60-70	70
460	In situ-forming click-crosslinked gelatin based hydrogels for 3D culture of thymic epithelial cells. 2016 , 4, 1123-31	31
459	Therapeutic Potential of Human-Derived Endothelial Colony-Forming Cells in Animal Models. 2016 , 22, 371-382	50
458	Quickly promoting angiogenesis by using a DFO-loaded photo-crosslinked gelatin hydrogel for diabetic skin regeneration. 2016 , 4, 3770-3781	62
457	Microfluidic-based generation of functional microfibers for biomimetic complex tissue construction. 2016 , 38, 153-62	56
456	Bioprinting 3D microfibrinous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. 2016 , 110, 45-59	495
455	Fabrication of a photo-crosslinked gelatin hydrogel for preventing abdominal adhesion. 2016 , 6, 92449-92453	15

454	Preparation of an Arg-Glu-Asp-Val Peptide Density Gradient on Hyaluronic Acid-Coated Poly(E-caprolactone) Film and Its Influence on the Selective Adhesion and Directional Migration of Endothelial Cells. 2016 , 8, 29280-29288	52
453	Direct 3D bioprinting of perfusable vascular constructs using a blend bioink. 2016 , 106, 58-68	544
452	Recent Advances in Biohybrid Materials for Tissue Engineering and Regenerative Medicine. 2016 , 04, 1640001	2
451	Thiol-ene Photocrosslinking of Cytocompatible Resilin-Like Polypeptide-PEG Hydrogels. 2016 , 16, 129-38	31
450	Biopolymer-based hydrogels for cartilage tissue engineering. 2016 , 5, 51-66	18
449	Cell-microenvironment interactions and architectures in microvascular systems. 2016 , 34, 1113-1130	40
448	Hydrogel-based reinforcement of 3D bioprinted constructs. 2016 , 8, 035004	63
447	Hierarchical Fabrication of Engineered Vascularized Bone Biphasic Constructs via Dual 3D Bioprinting: Integrating Regional Bioactive Factors into Architectural Design. 2016 , 5, 2174-81	122
446	Enhancing vascularization of a gelatin-based micro-cavitary hydrogel by increasing the density of the micro-cavities. 2016 , 11, 055012	10
445	Cell-laden microfluidic microgels for tissue regeneration. 2016 , 16, 4482-4506	92
444	Gelatin-Based Biomaterials For Tissue Engineering And Stem Cell Bioengineering. 2016 , 37-62	21
443	Biomaterial-Enhanced Cell and Drug Delivery: Lessons Learned in the Cardiac Field and Future Perspectives. 2016 , 28, 5648-61	51
442	Flexible pH-Sensing Hydrogel Fibers for Epidermal Applications. 2016 , 5, 711-9	122
441	Modular Assembly Approach to Engineer Geometrically Precise Cardiovascular Tissue. 2016 , 5, 900-6	18
440	Mechanically resilient, injectable, and bioadhesive supramolecular gelatin hydrogels crosslinked by weak host-guest interactions assist cell infiltration and in situ tissue regeneration. 2016 , 101, 217-28	180
439	Hydroxyapatite-modified gelatin bioinks for bone bioprinting. 2016 , 17,	27
438	Guided Homing of Cells in Multi-Photon Microfabricated Bioscaffolds. 2016 , 5, 1233-43	31
437	Vascularization strategies of engineered tissues and their application in cardiac regeneration. 2016 , 96, 183-94	98

436	Methacrylated gelatin and mature adipocytes are promising components for adipose tissue engineering. 2016 , 30, 699-710	75
435	A liver-on-a-chip platform with bioprinted hepatic spheroids. 2016 , 8, 014101	353
434	Advancing the field of 3D biomaterial printing. 2016 , 11, 014102	118
433	Protein-Based Hydrogels. 2016 , 73-104	5
432	Functionalization, preparation and use of cell-laden gelatin methacryloyl-based hydrogels as modular tissue culture platforms. 2016 , 11, 727-46	391
431	Innovation of Vascular Engineering by Mechanomedicine. 2016 , 283-296	
430	Vascularization and Angiogenesis in Tissue Engineering: Beyond Creating Static Networks. 2016 , 34, 733-745	364
429	Utilizing stem cells for three-dimensional neural tissue engineering. 2016 , 4, 768-84	34
428	Gelatin-Methacryloyl Hydrogels: Towards Biofabrication-Based Tissue Repair. 2016 , 34, 394-407	411
427	Temporal and spatial distribution of macrophage phenotype markers in the foreign body response to glutaraldehyde-crosslinked gelatin hydrogels. 2016 , 27, 721-42	46
426	Stable engineered vascular networks from human induced pluripotent stem cell-derived endothelial cells cultured in synthetic hydrogels. 2016 , 35, 32-41	70
425	Spatiotemporal release of BMP-2 and VEGF enhances osteogenic and vasculogenic differentiation of human mesenchymal stem cells and endothelial colony-forming cells co-encapsulated in a patterned hydrogel. 2016 , 223, 126-136	98
424	Hydrogel biophysical properties instruct coculture-mediated osteogenic potential. 2016 , 30, 477-86	15
423	A Novel Strategy for Softening Gelatin-Bioactive-Glass Hybrids. 2016 , 8, 1676-86	25
422	Biomimetic gelatin methacrylamide hydrogel scaffolds for bone tissue engineering. 2016 , 4, 1070-1080	46
421	Stem cell-derived vasculature: A potent and multidimensional technology for basic research, disease modeling, and tissue engineering. 2016 , 473, 733-42	15
420	Spatial Patterning of Stem Cells to Engineer Microvascular Networks. 2016 , 143-166	
419	Human in vitro 3D co-culture model to engineer vascularized bone-mimicking tissues combining computational tools and statistical experimental approach. 2016 , 76, 157-72	55

418	Fabrication of circular microfluidic network in enzymatically-crosslinked gelatin hydrogel. 2016 , 59, 53-60	49
417	Photocrosslinkable Gelatin Hydrogel for Epidermal Tissue Engineering. 2016 , 5, 108-18	407
416	Covalently immobilized VEGF-mimicking peptide with gelatin methacrylate enhances microvascularization of endothelial cells. 2017 , 51, 330-340	37
415	Developing a biomimetic tooth bud model. 2017 , 11, 3326-3336	27
414	Impact of immobilizing of low molecular weight hyaluronic acid within gelatin-based hydrogel through enzymatic reaction on behavior of enclosed endothelial cells. 2017 , 97, 308-316	24
413	Mussel-Inspired Multifunctional Hydrogel Coating for Prevention of Infections and Enhanced Osteogenesis. 2017 , 9, 11428-11439	132
412	GelMA-Encapsulated hDPSCs and HUVECs for Dental Pulp Regeneration. 2017 , 96, 192-199	68
411	Segmentation of digitized histological sections for quantification of the muscularized vasculature in the mouse hind limb. 2017 , 266, 89-103	2
410	Engineering Photocrosslinkable Bicomponent Hydrogel Constructs for Creating 3D Vascularized Bone. 2017 , 6, 1601122	42
409	Enhanced mechanical properties and biocompatibility of novel hydroxyapatite/TOPAS hybrid composite for bone tissue engineering applications. 2017 , 75, 807-815	11
408	A biomimetic gelatin-based platform elicits a pro-differentiation effect on podocytes through mechanotransduction. 2017 , 7, 43934	24
407	Glucose-sensitive self-healing hydrogel as sacrificial materials to fabricate vascularized constructs. 2017 , 133, 20-28	65
406	Leaf-inspired microcontact printing vascular patterns. 2017 , 9, 021001	18
405	Current developments in multifunctional smart materials for 3D/4D bioprinting. 2017 , 2, 67-75	47
404	Multi-photon microfabrication of three-dimensional capillary-scale vascular networks. 2017 ,	3
403	Injectable and Tunable Gelatin Hydrogels Enhance Stem Cell Retention and Improve Cutaneous Wound Healing. <i>Advanced Functional Materials</i> , 2017 , 27, 1606619	15.6 154
402	Modeling the Human Scarred Heart In Vitro: Toward New Tissue Engineered Models. 2017 , 6, 1600571	20
401	Injectable Polysaccharide Hydrogels as Biocompatible Platforms for Localized and Sustained Delivery of Antibiotics for Preventing Local Infections. 2017 , 17, 1600347	24

400	Electro-mechano responsive properties of gelatin methacrylate (GelMA) hydrogel on conducting polymer electrodes quantified using atomic force microscopy. 2017 , 13, 4761-4772	11
399	Bioprinted Osteogenic and Vasculogenic Patterns for Engineering 3D Bone Tissue. 2017 , 6, 1700015	222
398	Tubulogenesis of co-cultured human iPS-derived endothelial cells and human mesenchymal stem cells in fibrin and gelatin methacrylate gels. 2017 , 5, 1652-1660	30
397	Engineering the vasculature with additive manufacturing. 2017 , 2, 1-13	36
396	Biocompatibility of hydrogel-based scaffolds for tissue engineering applications. 2017 , 35, 530-544	360
395	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. 2017 , 139, 163-171	96
394	Improvement of endothelial progenitor outgrowth cell (EPOC)-mediated vascularization in gelatin-based hydrogels through pore size manipulation. 2017 , 58, 225-237	21
393	Host non-inflammatory neutrophils mediate the engraftment of bioengineered vascular networks. 2017 , 1,	37
392	Development of Tissue-Engineered Blood Vessels. 2017 , 325-361	
391	Biomaterials in Tissue Engineering. 2017 , 35-83	4
390	Design and fabrication of GelMA/chitosan nanoparticles composite hydrogel for angiogenic growth factor delivery. 2018 , 46, 1799-1808	39
389	Bioprinting-Based PDLSC-ECM Screening for in Vivo Repair of Alveolar Bone Defect Using Cell-Laden, Injectable and Photocrosslinkable Hydrogels. 2017 , 3, 3534-3545	54
388	Gelatin based dynamic hydrogels via thiolborbornene reactions. 2017 , 8, 6741-6749	19
387	Design of biomimetic cellular scaffolds for co-culture system and their application. 2017 , 8, 2041731417724640,8	48
386	Biomaterials and Cells for Revascularization. 2017 , 139-172	2
385	The Influence of Hyaluronic Acid and Glioblastoma Cell Coculture on the Formation of Endothelial Cell Networks in Gelatin Hydrogels. 2017 , 6, 1700687	43
384	GelMA-collagen blends enable drop-on-demand 3D printability and promote angiogenesis. 2017 , 9, 045002	96
383	Toward next-generation bioinks: Tuning material properties pre- and post-printing to optimize cell viability. 2017 , 42, 563-570	25

382	3D Bioprinting for Cartilage and Osteochondral Tissue Engineering. 2017 , 6, 1700298	158
381	In vitro and in vivo analysis of visible light crosslinkable gelatin methacryloyl (GelMA) hydrogels. 2017 , 5, 2093-2105	152
380	Decoupling the effects of stiffness and fiber density on cellular behaviors via an interpenetrating network of gelatin-methacrylate and collagen. 2017 , 141, 125-135	68
379	Engineering Biodegradable and Biocompatible Bio-ionic Liquid Conjugated Hydrogels with Tunable Conductivity and Mechanical Properties. 2017 , 7, 4345	70
378	Electrospun Photocrosslinkable Hydrogel Fibrous Scaffolds for Rapid In Vivo Vascularized Skin Flap Regeneration. <i>Advanced Functional Materials</i> , 2017 , 27, 1604617	15.6 107
377	Human Endothelial Cell Models in Biomaterial Research. 2017 , 35, 265-277	74
376	Endothelial pattern formation in hybrid constructs of additive manufactured porous rigid scaffolds and cell-laden hydrogels for orthopedic applications. 2017 , 65, 356-372	20
375	On-chip fabrication of movable toroidal cell structures using photo-crosslinkable biodegradable hydrogel. 2017 ,	1
374	Fabrication of Highly Crosslinked Gelatin Hydrogel and Its Influence on Chondrocyte Proliferation and Phenotype. 2017 , 9,	37
373	5.11 Engineering the Haematopoietic Stem Cell Niche In Vitro. 2017 , 187-199	1
372	Light-Induced Cell Alignment and Harvest for Anisotropic Cell Sheet Technology. 2017 , 9, 36513-36524	28
371	Bioinks for 3D bioprinting: an overview. 2018 , 6, 915-946	488
370	Precisely printable and biocompatible silk fibroin bioink for digital light processing 3D printing. 2018 , 9, 1620	295
369	Hydrogen bonds autonomously powered gelatin methacrylate hydrogels with super-elasticity, self-heal and underwater self-adhesion for sutureless skin and stomach surgery and E-skin. 2018 , 171, 83-96	140
368	Vascularization and angiogenesis in electrospun tissue engineered constructs: towards the creation of long-term functional networks. 2018 , 4, 032001	8
367	3D printed microchannel networks to direct vascularisation during endochondral bone repair. 2018 , 162, 34-46	124
366	Tunable Mechanical, Antibacterial, and Cytocompatible Hydrogels Based on a Functionalized Dual Network of Metal Coordination Bonds and Covalent Crosslinking. 2018 , 10, 6190-6198	35
365	Synergistic interplay between the two major bone minerals, hydroxyapatite and whitlockite nanoparticles, for osteogenic differentiation of mesenchymal stem cells. 2018 , 69, 342-351	57

364	Exploiting Advanced Hydrogel Technologies to Address Key Challenges in Regenerative Medicine. 2018 , 7, e1700939	66
363	Alginate-polymethacrylate hybrid hydrogels for potential osteochondral tissue regeneration. 2018 , 185, 56-62	37
362	Engineering in-vitro stem cell-based vascularized bone models for drug screening and predictive toxicology. 2018 , 9, 112	42
361	Advances in osteobiologic materials for bone substitutes. 2018 , 12, 1448-1468	67
360	Photocrosslinkable Gelatin/Tropoelastin Hydrogel Adhesives for Peripheral Nerve Repair. 2018 , 24, 1393-1405	51
359	In Situ Organ-Specific Vascularization in Tissue Engineering. 2018 , 36, 834-849	43
358	Evaluation of Three-Dimensional Models to Study Tumor Angiogenesis. 2018 , 4, 337-346	10
357	Endothelial Progenitor Cells for the Vascularization of Engineered Tissues. 2018 , 24, 1-24	91
356	Prevascularization of natural nanofibrous extracellular matrix for engineering completely biological three-dimensional prevascularized tissues for diverse applications. 2018 , 12, e1325-e1336	18
355	Guiding morphogenesis in cell-instructive microgels for therapeutic angiogenesis. 2018 , 154, 34-47	36
354	Bioprinting and its applications in tissue engineering and regenerative medicine. 2018 , 107, 261-275	172
353	Prevascularization of 3D printed bone scaffolds by bioactive hydrogels and cell co-culture. 2018 , 106, 1788-1798	64
352	Quantification of Substitution of Gelatin Methacryloyl: Best Practice and Current Pitfalls. 2018 , 19, 42-52	59
351	Fabrication and characterization of bio-inspired polymer blends and hybrid composites based on collagen-type II, polyethylene glycol-dimethacrylate and hydroxyapatite. 2018 , 39, E550-E560	5
350	Inspired by Nature: Hydrogels as Versatile Tools for Vascular Engineering. 2018 , 7, 232-246	28
349	$\alpha 5 \beta 1$ and $\alpha 5 \beta 1$ integrin-specific ligands: From tumor angiogenesis inhibitors to vascularization promoters in regenerative medicine?. 2018 , 36, 208-227	31
348	Development of Endothelial Cell Networks in 3D Tissues by Combination of Melt Electrospinning Writing with Cell-Accumulation Technology. 2018 , 14, 1701521	30
347	Fibrin Hydrogels for Endothelialized Liver Tissue Engineering with a Predesigned Vascular Network. 2018 , 10,	19

346	Synthesis and microstructural characterization of GelMa/PEGDA hybrid hydrogel containing graphene oxide for biomedical purposes. 2018 , 5, 15635-15644	24
345	Synthesis and Properties of Gelatin Methacryloyl (GelMA) Hydrogels and Their Recent Applications in Load-Bearing Tissue. 2018 , 10,	109
344	Large adipose tissue generation in a mussel-inspired bioreactor of elastic-mimetic cryogel and platelets. 2018 , 9, 2041731418808633	5
343	Photocrosslinkable Gelatin Hydrogels Modulate the Production of the Major Pro-inflammatory Cytokine, TNF- α by Human Mononuclear Cells. 2018 , 6, 116	26
342	Fiber-Based Mini Tissue with Morphology-Controllable GelMA Microfibers. 2018 , 14, e1802187	86
341	Reversible physical crosslinking strategy with optimal temperature for 3D bioprinting of human chondrocyte-laden gelatin methacryloyl bioink. 2018 , 33, 609-618	24
340	Hydrogels in Regenerative Medicine. 2018 ,	3
339	Bioglass-Incorporated Methacrylated Gelatin Cryogel for Regeneration of Bone Defects. 2018 , 10,	36
338	Pre-vascularization in fibrin Gel/PLGA microsphere scaffolds designed for bone regeneration. 2018 , 10, 827-839	25
337	Gelatin-Based Hydrogels. 2018 , 1-41	3
336	In Situ Cross-Linkable Hydrogels as a Dynamic Matrix for Tissue Regenerative Medicine. 2018 , 15, 547-557	22
335	Cartilage regeneration using arthroscopic flushing fluid-derived mesenchymal stem cells encapsulated in a one-step rapid cross-linked hydrogel. 2018 , 79, 202-215	36
334	Consensus guidelines for the use and interpretation of angiogenesis assays. 2018 , 21, 425-532	285
333	Fabrication and Printing of Multi-material Hydrogels. 2018 , 397-430	
332	Skin bioprinting: a novel approach for creating artificial skin from synthetic and natural building blocks. 2018 , 7, 77-92	80
331	Fabrication and characterization of silk microfiber-reinforced methacrylated gelatin hydrogel with tunable properties. 2018 , 29, 2068-2082	5
330	Time-Phase Sequential Utilization of Adipose-Derived Mesenchymal Stem Cells on Mesoporous Bioactive Glass for Restoration of Critical Size Bone Defects. 2018 , 10, 28340-28350	23
329	Stiffness modification of photopolymerizable gelatin-methacrylate hydrogels influences endothelial differentiation of human mesenchymal stem cells. 2018 , 12, 2099-2111	27

328	A pH-Responsive Biodegradable High-Strength Hydrogel as Potential Gastric Resident Filler. 2018 , 303, 1800290	14
327	Hydrogels for Directed Stem Cell Differentiation and Tissue Repair. 2018 , 73-93	
326	Interpenetrating polymer network hydrogels composed of chitosan and photocrosslinkable gelatin with enhanced mechanical properties for tissue engineering. 2018 , 92, 612-620	68
325	Promotion of Vascular Morphogenesis of Endothelial Cells Co-Cultured with Human Adipose-Derived Mesenchymal Stem Cells Using Polycaprolactone/Gelatin Nanofibrous Scaffolds. 2018 , 8,	29
324	Controlled pattern of cell growth in modulated protein nanocomplexes. 2018 , 21, 686-688	4
323	Materials for 3D Printing Cardiovascular Devices. 2018 , 33-59	
322	Gelatin-Methacryloyl (GelMA) Hydrogels with Defined Degree of Functionalization as a Versatile Toolkit for 3D Cell Culture and Extrusion Bioprinting. 2018 , 5,	137
321	Comparison of covalently and physically cross-linked collagen hydrogels on mediating vascular network formation for engineering adipose tissue. 2018 , 46, S434-S447	19
320	Cell-laden gelatin methacryloyl fibres fabricated using bessel beams for controlled endothelial cord formation. 2018 , 4, 045009	1
319	Engineering Microvascular Networks in LED Light-Cured Cell-Laden Hydrogels. 2018 , 4, 2563-2570	27
318	Interactions of methacryloylated gelatin and heparin modulate physico-chemical properties of hydrogels and release of vascular endothelial growth factor. 2018 , 13, 055008	8
317	Peptide-Modified Hydrogels for Therapeutic Vascularization. 2018 , 599-620	4
316	Current Challenges of Bioprinted Tissues Toward Clinical Translation. 2019 , 25, 1-13	18
315	A Versatile Biosynthetic Hydrogel Platform for Engineering of Tissue Analogues. 2019 , 8, e1900979	34
314	Colloidal Gels for Guiding Endothelial Cell Organization via Microstructural Morphology. 2019 , 11, 31709-31728	
313	Three-dimensional cryogels for biomedical applications. 2019 , 107, 2736-2755	42
312	Fabrication Techniques for Vascular and Vascularized Tissue Engineering. 2019 , 8, e1900742	35
311	Print Me An Organ! Why We Are Not There Yet. 2019 , 97, 101145	109

310	Rapid fabrication of reinforced and cell-laden vascular grafts structurally inspired by human coronary arteries. 2019 , 10, 3098	25
309	(Photo-)crosslinkable gelatin derivatives for biofabrication applications. 2019 , 97, 46-73	53
308	Using 3-D Printing and Bioprinting Technologies for Personalized Implants. 2019 , 269-286	1
307	Effects of Encapsulated Cells on the Physical-Mechanical Properties and Microstructure of Gelatin Methacrylate Hydrogels. 2019 , 20,	19
306	Self-assembled ternary poly(vinyl alcohol)-alginate-gelatin hydrogel with controlled-release nanoparticles for pancreatic differentiation of iPS cells. 2019 , 104, 27-39	6
305	Impact of Hydrogel Stiffness on Differentiation of Human Adipose-Derived Stem Cell Microspheroids. 2019 , 25, 1369-1380	38
304	A gelatin hydrogel to study endometrial angiogenesis and trophoblast invasion. 2019 , 9, 20190016	29
303	Synthesis and characterization of gold/silica hybrid nanoparticles incorporated gelatin methacrylate conductive hydrogels for H9C2 cardiac cell compatibility study. 2019 , 177, 107415	31
302	Non-swelling hydrogel-based microfluidic chips. 2019 , 19, 3962-3973	14
301	Carbon nanotube, poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and Ag nanoparticle doped gelatin based electro-active hydrogel systems. 2019 , 580, 123751	9
300	Mussel-inspired dopamine oligomer intercalated tough and resilient gelatin methacryloyl (GelMA) hydrogels for cartilage regeneration. 2019 , 7, 1716-1725	60
299	Recent advances in photo-crosslinkable hydrogels for biomedical applications. 2019 , 66, 40-53	120
298	Gelatin-based micro-hydrogel carrying genetically engineered human endothelial cells for neovascularization. 2019 , 95, 285-296	22
297	Gelatin Methacrylate (GelMA)-Based Hydrogels for Cell Transplantation: an Effective Strategy for Tissue Engineering. 2019 , 15, 664-679	88
296	Multipotency expression of human adipose stem cells in filament-like alginate and gelatin derivative hydrogel fabricated through visible light-initiated crosslinking. 2019 , 103, 109808	20
295	Microphysiological Engineering of Self-Assembled and Perfusable Microvascular Beds for the Production of Vascularized Three-Dimensional Human Microtissues. 2019 , 13, 7627-7643	73
294	Polydiacetylene-Nanoparticle-Functionalized Microgels for Topical Bacterial Infection Treatment. 2019 , 563-568	13
293	Preparation and characterization of chitosan/gelatin/nanocrystalline cellulose/calcium peroxide films for potential wound dressing applications. 2019 , 133, 881-891	38

292	Printability of Methacrylated Gelatin upon Inclusion of a Chloride Salt and Hydroxyapatite Nano-Particles. 2019 , 304, 1900142	7
291	Eggshell particle-reinforced hydrogels for bone tissue engineering: an orthogonal approach. 2019 , 7, 2675-2685	37
290	Co-culture of human umbilical vein endothelial cells and human bone marrow stromal cells into a micro-cavitary gelatin-methacrylate hydrogel system to enhance angiogenesis. 2019 , 102, 906-916	18
289	Synthesis and characterization of photocrosslinkable hydrogels from bovine skin gelatin.. 2019 , 9, 13016-13025	19
288	Cold-adaptation of a methacrylamide gelatin towards the expansion of the biomaterial toolbox for specialized functionalities in tissue engineering. 2019 , 102, 373-390	10
287	Osteogenic and angiogenic tissue formation in high fidelity nanocomposite Laponite-gelatin bioinks. 2019 , 11, 035027	85
286	Anti-IL-6 eluting immunomodulatory biomaterials prolong skin allograft survival. 2019 , 9, 6535	24
285	Biofabrication of 3D cell-encapsulated tubular constructs using dynamic optical projection stereolithography. 2019 , 30, 36	27
284	Vascularized Bone-Mimetic Hydrogel Constructs by 3D Bioprinting to Promote Osteogenesis and Angiogenesis. 2019 , 20,	51
283	Bioprinting of Cell-Laden Microfiber: Can It Become a Standard Product?. 2019 , 8, e1900014	31
282	Upgrading prevascularization in tissue engineering: A review of strategies for promoting highly organized microvascular network formation. 2019 , 95, 112-130	40
281	Breathable hydrogel dressings containing natural antioxidants for management of skin disorders. 2019 , 33, 1265-1276	23
280	Biofabrication: From Additive Manufacturing to Bioprinting. 2019 , 41-41	1
279	Advancing Frontiers in Bone Bioprinting. 2019 , 8, e1801048	113
278	Tunable synthetic extracellular matrices to investigate breast cancer response to biophysical and biochemical cues. 2019 , 3, 016101	16
277	Dynamic and Cell-Infiltratable Hydrogels as Injectable Carrier of Therapeutic Cells and Drugs for Treating Challenging Bone Defects. 2019 , 5, 440-450	112
276	Mussel-inspired injectable hydrogel and its counterpart for actuating proliferation and neuronal differentiation of retinal progenitor cells. 2019 , 194, 57-72	42
275	Gelatin-Based Hydrogels. 2019 , 1601-1641	10

274	One-Step Generation of Core-shell Gelatin Methacrylate (GelMA) Microgels Using a Droplet Microfluidic System. 2019 , 4, 1800632	30
273	Droplet-based microfluidics for cell encapsulation and delivery. 2019 , 307-335	6
272	Bioengineering human vascular networks: trends and directions in endothelial and perivascular cell sources. 2019 , 76, 421-439	25
271	Photo-crosslinked synthetic biodegradable polymer networks for biomedical applications. 2019 , 30, 77-106	34
270	The influence of osteopontin-guided collagen intrafibrillar mineralization on pericyte differentiation and vascularization of engineered bone scaffolds. 2019 , 107, 1522-1532	10
269	Endothelial/Mesenchymal Stem Cell Crosstalk Within Bioprinted Cocultures. 2020 , 26, 339-349	6
268	Microvascular engineering: Dynamic changes in microgel-entrapped vascular cells correlates with higher vasculogenic/angiogenic potential. 2020 , 228, 119554	18
267	In vitro and in vivo evaluation of 3D bioprinted small-diameter vasculature with smooth muscle and endothelium. 2019 , 12, 015004	44
266	Engineering inkjet bioprinting processes toward translational therapies. 2020 , 117, 272-284	45
265	Hydrogel-based 3D bioprinting: A comprehensive review on cell-laden hydrogels, bioink formulations, and future perspectives. 2020 , 18, 100479-100479	111
264	Void-free 3D Bioprinting for In-situ Endothelialization and Microfluidic Perfusion. <i>Advanced Functional Materials</i> , 2020 , 30, 1908349	15.6 50
263	KLF2 stemness maintains human mesenchymal stem cells in bone regeneration. 2020 , 38, 395-409	7
262	Customizable Composite Fibers for Engineering Skeletal Muscle Models. 2020 , 6, 1112-1123	18
261	Endothelialized microrods for minimally invasive in situ neovascularization. 2019 , 12, 015011	5
260	A high-throughput approach to compare the biocompatibility of candidate bioink formulations. 2020 , 17, e00068	6
259	A chitosan modified asymmetric small-diameter vascular graft with anti-thrombotic and anti-bacterial functions for vascular tissue engineering. 2020 , 8, 568-577	24
258	Investigation of gelatin methacrylate working curves in dynamic optical projection stereolithography of vascular-like constructs. 2020 , 124, 109487	14
257	Synchronous 3D Bioprinting of Large-Scale Cell-Laden Constructs with Nutrient Networks. 2020 , 9, e1901142	30

256	Investigating the repair of alveolar bone defects by gelatin methacrylate hydrogels-encapsulated human periodontal ligament stem cells. 2019 , 31, 3	8
255	Enhancement and orchestration of osteogenesis and angiogenesis by a dual-modular design of growth factors delivery scaffolds and 26SCS decoration. 2020 , 232, 119645	29
254	3D-engineered GelMA conduit filled with ECM promotes regeneration of peripheral nerve. 2020 , 108, 805-813	15
253	Vascularization in tissue engineering: fundamentals and state-of-art. 2020 , 2,	40
252	Cell-mediated matrix stiffening accompanies capillary morphogenesis in ultra-soft amorphous hydrogels. 2020 , 230, 119634	12
251	Rapid printing of bio-inspired 3D tissue constructs for skin regeneration. 2020 , 258, 120287	48
250	Hydrogel Network Dynamics Regulate Vascular Morphogenesis. 2020 , 27, 798-812.e6	27
249	Characterization of Tissue Engineered Endothelial Cell Networks in Composite Collagen-Agarose Hydrogels. 2020 , 6,	2
248	Printing of Adhesive Hydrogel Scaffolds for the Treatment of Skeletal Muscle Injuries.. 2020 , 3, 1568-1579	50
247	3D-Printed Nerve Conduits with Live Platelets for Effective Peripheral Nerve Repair. <i>Advanced Functional Materials</i> , 2020 , 30, 2004272	15.6 18
246	Stromal fibroblasts regulate microvascular-like network architecture in a bioengineered breast tumour angiogenesis model. 2020 , 114, 256-269	9
245	3D Printing of Microgel-Loaded Modular Microcages as Instructive Scaffolds for Tissue Engineering. 2020 , 32, e2001736	22
244	New Bioink Derived from Neonatal Chicken Bone Marrow Cells and Its 3D-Bioprinted Niche for Osteogenic Stimulators. 2020 , 12, 49386-49397	5
243	Rheological Properties of Coordinated Physical Gelation and Chemical Crosslinking in Gelatin Methacryloyl (GelMA) Hydrogels. 2020 , 20, e2000183	16
242	Effects of Gelatin Methacrylate Bio-ink Concentration on Mechano-Physical Properties and Human Dermal Fibroblast Behavior. 2020 , 12,	23
241	An Evaluation of Norspermidine on Anti-fungal Effect on Mature Biofilms and Angiogenesis Potential of Dental Pulp Stem Cells. 2020 , 8, 948	4
240	Electrospun Nanofibers for Improved Angiogenesis: Promises for Tissue Engineering Applications. 2020 , 10,	44
239	Study on Development of Composite Hydrogels With Tunable Structures and Properties for Tumor-on-a-Chip Research. 2020 , 8, 611796	4

238	Locally Controlled Diffusive Release of Bone Morphogenetic Protein-2 Using Micropatterned Gelatin Methacrylate Hydrogel Carriers. 2020 , 14, 405-420	10
237	Enhancement of Podocyte Attachment on Polyacrylamide Hydrogels with Gelatin-Based Polymers.. 2020 , 3, 7531-7539	2
236	Polymer Hydrogels to Guide Organotypic and Organoid Cultures. <i>Advanced Functional Materials</i> , 2020 , 30, 2000097	15.6 28
235	Injectable Antimicrobial Conductive Hydrogels for Wound Disinfection and Infectious Wound Healing. 2020 , 21, 1841-1852	147
234	GelMA combined with sustained release of HUVECs derived exosomes for promoting cutaneous wound healing and facilitating skin regeneration. 2020 , 51, 251-263	24
233	Coupling PEG-LZM polymer networks with polyphenols yields suturable biohydrogels for tissue patching. 2020 , 8, 3334-3347	9
232	Angiogenic biomaterials to promote therapeutic regeneration and investigate disease progression. 2020 , 255, 120207	17
231	Fabrication of Stiffness Gradients of GelMA Hydrogels Using a 3D Printed Micromixer. 2020 , 20, e2000107	19
230	Covalently Adaptable Hydrogel Based on Hyaluronic Acid and Poly(ϵ -glutamic acid) for Potential Load-Bearing Tissue Engineering.. 2020 , 3, 4036-4043	6
229	Engineering functional microvessels in synthetic polyurethane random-pore scaffolds by harnessing perfusion flow. 2020 , 256, 120183	0
228	Decoupled pH- and Thermo-Responsive Injectable Chitosan/PNIPAM Hydrogel via Thiol-Ene Click Chemistry for Potential Applications in Tissue Engineering. 2020 , 9, e2000454	28
227	Multidimensional hydrogel models reveal endothelial network angiocrine signals increase glioblastoma cell number, invasion, and temozolomide resistance. 2020 , 12, 139-149	11
226	Injectable MMP-Responsive Nanotube-Modified Gelatin Hydrogel for Dental Infection Ablation. 2020 , 12, 16006-16017	34
225	Fiber reinforced GelMA hydrogel to induce the regeneration of corneal stroma. 2020 , 11, 1435	64
224	On-Chip Fabrication of Cell-Attached Microstructures using Photo-Cross-Linkable Biodegradable Hydrogel. 2020 , 11,	4
223	Directly coaxial 3D bioprinting of large-scale vascularized tissue constructs. 2020 , 12, 035014	45
222	Spatial immobilization of endogenous growth factors to control vascularization in bone tissue engineering. 2020 , 8, 2577-2589	21
221	Effect of temperature on gelation and cross-linking of gelatin methacryloyl for biomedical applications. 2020 , 32, 033102	6

220	An engineered cell-laden adhesive hydrogel promotes craniofacial bone tissue regeneration in rats. 2020 , 12,	79
219	Injectable hydrogel-loaded nano-hydroxyapatite that improves bone regeneration and alveolar ridge promotion. 2020 , 116, 111158	14
218	Methacrylation increase growth and differentiation of primary human osteoblasts for gelatin hydrogels. 2020 , 3, 559-566	1
217	Tannic acid-reinforced methacrylated chitosan/methacrylated silk fibroin hydrogels with multifunctionality for accelerating wound healing. 2020 , 247, 116689	50
216	Bioprinting small diameter blood vessel constructs with an endothelial and smooth muscle cell bilayer in a single step. 2020 , 12, 045012	28
215	Gelatin Methacryloyl Hydrogels Control the Localized Delivery of Albumin-Bound Paclitaxel. 2020 , 12,	19
214	Biofabrication Strategies and Engineered In Vitro Systems for Vascular Mechanobiology. 2020 , 9, e1901255	21
213	3D Bioprinting of Methylcellulose/Gelatin-Methacryloyl (MC/GelMA) Bioink with High Shape Integrity.. 2020 , 3, 1815-1826	42
212	3D Printed Sugar-Sensing Hydrogels. 2020 , 41, e1900610	3
211	A Biomimetic 3D-Self-Forming Approach for Microvascular Scaffolds. 2020 , 7, 1903553	27
210	Endothelial cells support osteogenesis in an in vitro vascularized bone model developed by 3D bioprinting. 2020 , 12, 025013	46
209	3D Printing of Vascular Tubes Using Bioelastomer Prepolymers by Freeform Reversible Embedding. 2020 , 6, 1333-1343	19
208	Digging deeper: structural background of PEGylated fibrin gels in cell migration and lumenogenesis.. 2020 , 10, 4190-4200	15
207	Sacrificial microgel-laden bioink-enabled 3D bioprinting of mesoscale pore networks. 2020 , 3, 30-39	32
206	In vitro fabrication and application of engineered vascular hydrogels. 2020 , 52, 871-881	9
205	Mussel-Inspired Autonomously Self-Healable All-in-One Supercapacitor with Biocompatible Hydrogel. 2020 , 8, 6935-6948	21
204	Multifunctional integrally-medicalized hydrogel system with internal synergy for efficient tissue regeneration. 2021 , 406, 126839	11
203	Fabrication of Tapered Fluidic Microchannels Conductive to Angiogenic Sprouting within Gelatin Methacryloyl Hydrogels. 2021 , 47, 52-61	7

202	Biosynthetic, biomimetic, and self-assembled vascularized Organ-on-a-Chip systems. 2021 , 268, 120556	9
201	Stiffness of photocrosslinkable gelatin hydrogel influences nucleus pulposus cell properties in vitro. 2021 , 25, 880-891	8
200	Cell-Free Bilayered Porous Scaffolds for Osteochondral Regeneration Fabricated by Continuous 3D-Printing Using Nascent Physical Hydrogel as Ink. 2021 , 10, e2001404	33
199	3D culture of HepaRG cells in GelMa and its application to bioprinting of a multicellular hepatic model. 2021 , 269, 120611	20
198	Photo-crosslinked gelatin methacrylate hydrogels with mesenchymal stem cell and endothelial cell spheroids as soft tissue substitutes. 2021 , 36, 176-190	2
197	Hydrogels for 3D Cell Culture. 2021 , 105-123	0
196	Cell-Laden Gradient Hydrogel Scaffolds for Neovascularization of Engineered Tissues. 2021 , 10, e2001706	2
195	Shining a light on the hidden structure of gelatin methacryloyl bioinks using small-angle X-ray scattering (SAXS).	2
194	Wound dressings based on chitosan and gelatin containing starch, sesame oil and banana peel powder for the treatment of skin burn wounds. 2021 , 28, 1	4
193	Biomedical applications of gelatin methacryloyl hydrogels. 2021 , 2, 47-56	19
192	Microvascular Networks and Models: In Vitro Formation. 2021 , 345-383	0
191	3D-Bioprinting. 2021 , 201-232	0
190	Engineering Advanced In Vitro Models of Systemic Sclerosis for Drug Discovery and Development. 2021 , 5, e2000168	2
189	Bioresorbable Polymers: Advanced Materials and 4D Printing for Tissue Engineering. 2021 , 13,	24
188	Fast Stereolithography Printing of Large-Scale Biocompatible Hydrogel Models. 2021 , 10, e2002103	16
187	Prevascularized hydrogels with mature vascular networks promote the regeneration of critical-size calvarial bone defects in vivo. 2021 , 15, 219-231	7
186	Reversible Control of Gelatin Hydrogel Stiffness by Using DNA Crosslinkers*. 2021 , 22, 1755-1760	4
185	Collagen-Based Thiol-Norbornene Photoclick Bio-Ink with Excellent Bioactivity and Printability. 2021 , 13, 7037-7050	11

184	hDPSC-laden GelMA microspheres fabricated using electrostatic microdroplet method for endodontic regeneration. 2021 , 121, 111850	9
183	Biomedical application of photo-crosslinked gelatin hydrogels. 2021 , 3,	10
182	Dual 3D printing for vascularized bone tissue regeneration. 2021 , 123, 263-274	11
181	A novel method for generating 3D constructs with branched vascular networks using multi-materials bioprinting and direct surgical anastomosis.	0
180	Engineering a Vascularized 3D Hybrid System to Model Tumor-Stroma Interactions in Breast Cancer. 2021 , 9, 647031	9
179	Effect of Different Additives on the Mechanical Properties of Gelatin Methacryloyl Hydrogel: A Meta-analysis. 2021 , 6, 9112-9128	1
178	3D Cell Culture Can It Be As Popular as 2D Cell Culture?. 2021 , 1, 2000066	2
177	A Biphasic Osteovascular Biomimetic Scaffold for Rapid and Self-Sustained Endochondral Ossification. 2021 , 10, e2100070	2
176	In Situ LSPR Sensing of Secreted Insulin in Organ-on-Chip. 2021 , 11,	11
175	BoneMA-synthesis and characterization of a methacrylated bone-derived hydrogel for bioprinting of vascularized tissue constructs.. 2021 , 13,	4
174	Recent developments and characterization techniques in 3D printing of corneal stroma tissue. 2021 , 32, 3287-3296	3
173	A dual-ink 3D printing strategy to engineer pre-vascularized bone scaffolds in-vitro. 2021 , 123, 111976	9
172	A multiplexed immuno-sensor for on-line and automated monitoring of tissue culture protein biomarkers. 2021 , 225, 122021	1
171	Viscoelastic behavior of covalently crosslinked hydrogels under large shear deformations: An approach to eliminate wall slip. 2021 , 33, 041702	6
170	Microvascular Tissue Engineering-A Review. 2021 , 9,	6
169	Deciphering the Molecular Mechanism of Water Interaction with Gelatin Methacryloyl Hydrogels: Role of Ionic Strength, pH, Drug Loading and Hydrogel Network Characteristics. 2021 , 9,	4
168	Dynamically and Spatially Controllable Albumin-Based Hydrogels for the Prevention of Postoperative Adhesion. 2021 , 7, 3293-3305	4
167	Surfactin-reinforced gelatin methacrylate hydrogel accelerates diabetic wound healing by regulating the macrophage polarization and promoting angiogenesis. 2021 , 414, 128836	14

166	Bioprinted nanocomposite hydrogels: A proposed approach to functional restoration of skeletal muscle and vascular tissue following volumetric muscle loss. 2021 , 58, 35-43	0
165	Fabrication of 3D-Printed Interpenetrating Hydrogel Scaffolds for Promoting Chondrogenic Differentiation. 2021 , 13,	3
164	Recent Advances on Bioprinted Gelatin Methacrylate-Based Hydrogels for Tissue Repair. 2021 , 27, 679-702	17
163	A Microfluidic Device Platform Reconstructing Lung Pattern for Cancer Immunotherapy Applications. 2021 ,	
162	A Hybrid Injectable and Self-Healable Hydrogel System as 3D Cell Culture Scaffold. 2021 , 21, e2100079	1
161	Shape memory polyacrylamide/gelatin hydrogel with controllable mechanical and drug release properties potential for wound dressing application. 2021 , 226, 123786	8
160	Fabrication of gelatin methacryloyl hydrogel microneedles for transdermal delivery of metformin in diabetic rats. 2021 , 4, 902-911	5
159	Mammalian and Fish Gelatin Methacryloyl-Alginate Interpenetrating Polymer Network Hydrogels for Tissue Engineering. 2021 , 6, 17433-17441	5
158	Fabrication of robust poly l-lactic acid/cyclic olefinic copolymer (PLLA/COC) blends: study of physical properties, structure, and cytocompatibility for bone tissue engineering. 2021 , 13, 1732-1751	3
157	3D-Printable Hierarchical Nanogel-GelMA Composite Hydrogel System. 2021 , 13,	3
156	Characteristics of Biodegradable Gelatin Methacrylate Hydrogel Designed to Improve Osteoinduction and Effect of Additional Binding of Tannic Acid on Hydrogel. 2021 , 13,	0
155	Silk fibroin/chitosan hydrogel with antibacterial, hemostatic and sustained drug-release activities. 2021 , 70, 1741	4
154	Current research progress of photopolymerized hydrogels in tissue engineering. 2021 , 32, 2117-2126	11
153	Photopolymerizable precursors for degradable biomaterials based on acetal moieties. 2021 , 154, 110536	3
152	Hyaluronic Acid Oligomer Immobilization as an Angiogenic Trigger for the Neovascularization of TE Constructs.. 2021 , 4, 6023-6035	0
151	Photo Cross-linkable Biopolymers for Cornea Tissue Healing. 2021 ,	1
150	Compressive Buckling Fabrication of 3D Cell-Laden Microstructures. 2021 , 8, e2101027	1
149	3D Microphysiological System-Inspired Scalable Vascularized Tissue Constructs for Regenerative Medicine. <i>Advanced Functional Materials</i> , 2105475	15.6 1

148	Stimuli-responsive hydrogels: Fabrication and biomedical applications. 20200112	12
147	Three-dimensional bioprinting of a full-thickness functional skin model using acellular dermal matrix and gelatin methacrylamide bioink. 2021 , 131, 248-261	10
146	Hydrogel Composites with Different Dimensional Nanoparticles for Bone Regeneration. 2021 , 42, e2100362	3
145	Biomimetic Ti-6Al-4V alloy/gelatin methacrylate hybrid scaffold with enhanced osteogenic and angiogenic capabilities for large bone defect restoration. 2021 , 6, 3437-3448	13
144	Bacterial cellulose adhesive composites for oral cavity applications. 2021 , 274, 118403	0
143	Tuning gelatin-based hydrogel towards bioadhesive ocular tissue engineering applications. 2021 , 6, 3947-3961	25
142	Matrix stiffness modulates tip cell formation through the p-PXN-Rac1-YAP signaling axis. 2022 , 7, 364-376	3
141	Elastomeric Fibrous Hybrid Scaffold Supports In Vitro and In Vivo Tissue Formation. <i>Advanced Functional Materials</i> , 2017 , 27, 1606614	15.6 19
140	Extrusion-Based Bioprinting: Current Standards and Relevancy for Human-Sized Tissue Fabrication. 2020 , 2140, 65-92	8
139	Stereolithography 3D Bioprinting. 2020 , 2140, 93-108	34
138	Vascular Tissue Engineering: The Role of 3D Bioprinting. 2020 , 321-338	5
137	Collagen Self-assembly: Biophysics and Biosignaling for Advanced Tissue Generation. 2020 , 203-245	3
136	Fabrication and Printing of Multi-material Hydrogels. 2016 , 1-34	2
135	Hydrogels for Stem Cell Fate Control and Delivery in Regenerative Medicine. 2015 , 187-214	3
134	Construction of a Silk Fibroin/Polyethylene Glycol Double Network Hydrogel with Co-Culture of HUVECs and UCMSCs for a Functional Vascular Network.. 2021 , 4, 406-419	4
133	Chapter 1:Microstereolithography. 2019 , 1-21	4
132	Chapter 2:Extrusion-based Bioprinting. 2019 , 22-48	2
131	Effects of Irgacure 2959 and lithium phenyl-2,4,6-trimethylbenzoylphosphinate on cell viability, physical properties, and microstructure in 3D bioprinting of vascular-like constructs. 2020 , 15, 055021	21

130	Multidimensional hydrogel models reveal endothelial network angiocrine signals increase glioblastoma cell number, invasion, and temozolomide resistance.	2
129	3D printing of Microgel-loaded Modular LEGO-like Cages as Instructive Scaffolds for Tissue Engineering.	1
128	A Gelatin Hydrogel to Study Endometrial Angiogenesis and Trophoblast Invasion.	1
127	Role of Biological Scaffolds, Hydro Gels and Stem Cells in Tissue Regeneration Therapy. 2017 , 2,	5
126	Therapeutic Potential of Endothelial Colony Forming Cells Derived from Human Umbilical Cord Blood. 2019 , 14, 460-465	3
125	Perfusion-based co-culture model system for bone tissue engineering. 2020 , 7, 91-105	3
124	Osteoconductive visible light-crosslinkable nanocomposite for hard tissue engineering. 2022 , 632, 127761	2
123	3D Liver Tissue Model with Branched Vascular Networks by Multimaterial Bioprinting. 2021 , 10, e2101405	5
122	3D tumor angiogenesis models: recent advances and challenges. 2021 , 147, 3477-3494	5
121	Spatiotemporally controlled, aptamers-mediated growth factor release locally manipulates microvasculature formation within engineered tissues.. 2022 , 12, 71-84	1
120	Viscous Fingering as a Rapid 3D Patterning Technique for Engineering Cell-Laden Vascular-Like Constructs. 2021 , e2101392	1
119	Bioink design for extrusion-based bioprinting. 2021 , 25, 101227	4
118	Microvascular Networks and Models, In vitro Formation. 2018 , 1-40	
117	Three-Dimensional Cell Culture and Tissue Restoration of Neural Stem Cells Under Microgravity. 2019 , 235-279	0
116	Vascularization in Oral and Maxillofacial Tissue Engineering. 2019 , 97-122	
115	Vascular Tissue Engineering: The Role of 3D Bioprinting. 2020 , 1-18	
114	In situ Crosslinking System of Gelatin with Acrylated β -cyclodextrin Towards the Fabrication of Hydrogels for Sustained Drug Release. 597-608	
113	Biomaterial Scaffolds for Improving Vascularization During Skin Flap Regeneration. 2020 , 2, 109-119	2

112	In Vivo Vascular Network Forming Assay. 2021 , 2206, 193-203	
111	Development and Characterization of Gelatin-Norbornene Bioink to Understand the Interplay between Physical Architecture and Micro-Capillary Formation in Biofabricated Vascularized Constructs. 2021 , e2101873	4
110	Novel Human Placenta-Based Extract for Vascularization Strategies in Tissue Engineering. 2021 , 27, 616-632	2
109	Bioactive gelatin cryogels with BMP-2 biomimetic peptide and VEGF: A potential scaffold for synergistically induced osteogenesis. 2021 ,	1
108	Regulation of neovasculogenesis in co-cultures of aortic adventitial fibroblasts and microvascular endothelial cells by cell-cell interactions and TGF- β 1/ALK5 signaling. 2020 , 15, e0244243	0
107	Two-Stage Patterned Cell-Based Treatments for Skin Regeneration. 2020 , 16, 1740-1754	3
106	BoneMA Synthesis and Characterization of a Methacrylated Bone-derived Hydrogel for Bioprinting of Vascularized Tissues.	
105	Long-Term Sustained Drug Delivery via 3D Printed Masks for the Development of a Heparin-Loaded Interlayer in Vascular Tissue Engineering Applications. 2021 , 13, 50812-50822	0
104	The Structural Features of Native Fibrin and Its Conjugates with Polyethylene Glycol and Vascular Endothelial Growth Factor according to Small-Angle X-Ray Scattering. 2020 , 10, 158-163	
103	Fast 3D printing of large-scale biocompatible hydrogel models.	
102	Photo-crosslinked gelatin methacrylate hydrogels with mesenchymal stem cell and endothelial cell spheroids as soft tissue substitutes. 1-15	
101	3D Bioprinting Photo-Crosslinkable Hydrogels for Bone and Cartilage Repair. 2021 , 7, 367	6
100	Recent advances on bioengineering approaches for fabrication of functional engineered cardiac pumps: A review. 2021 , 280, 121298	7
99	3D Bioprinting Photo-Crosslinkable Hydrogels for Bone and Cartilage Repair. 2021 , 7, 367	16
98	Tissue Engineered Neurovascularization Strategies for Craniofacial Tissue Regeneration.. 2021 ,	3
97	Engineered Customizable Microvessels for Progressive Vascularization in Large Regenerative Implants. 2021 , e2101836	0
96	Gelatin Methacryloyl Hydrogels for the Localized Delivery of Cefazolin. 2021 , 13,	2
95	A comparative insight into the mechanical properties, antibacterial potential, and cytotoxicity profile of nano-hydroxyapatite and nano-whitlockite-incorporated poly-L-lactic acid for bone tissue engineering. 1	0

94	A strategy to engineer vascularized tissue constructs by optimizing and maintaining the geometry. 2021,	1
93	Microfiber-Based Organoids Bioprinting for In Vitro Model. 2022, 237-256	
92	GelMA-Alginate Core-Shell Microcapsules as Efficient Delivery Platform For Prevascularized Microtissues in Endodontic Regeneration.	
91	Curcumin-incorporated 3D bioprinting gelatin methacryloyl hydrogel reduces reactive oxygen species-induced adipose-derived stem cell apoptosis and improves implanting survival in diabetic wounds.. 2022, 10, tkac001	1
90	Advanced 3D Bioprinting Technologies. 2021, 15, 616-627	
89	Silk Protein Composite Bioinks and Their 3D Scaffolds and In Vitro Characterization.. 2022, 23,	1
88	Innovative transdermal delivery of insulin using gelatin methacrylate-based microneedle patches in mice and mini-pigs.. 2022,	2
87	Microwave-Assisted Synthesis of Modified Glycidyl Methacrylate-Ethyl Methacrylate Oligomers, Their Physico-Chemical and Biological Characteristics.. 2022, 27,	0
86	Promotion of Adrenal Pheochromocytoma (PC-12) Cell Proliferation and Outgrowth Using Schwann Cell-Laden Gelatin Methacrylate Substrate.. 2022, 8,	0
85	3D-bioprinted vascular scaffold with tunable mechanical properties for simulating and promoting neo-vascularization. 2022, 3, 199-208	4
84	Bioprinted microvasculature: progressing from structure to function.. 2022,	2
83	A Vascularized Conductive Elastic Patch for the Repair of Infarcted Myocardium through Functional Vascular Anastomoses and Electrical Integration. <i>Advanced Functional Materials, 2111273</i>	15.6 2
82	A Real-time Hardware Experiment Platform for Closed-loop Electrophysiology.. 2022, PP,	1
81	3D printed GelMA/carboxymethyl chitosan composite scaffolds for vasculogenesis. 1-13	1
80	Immunomodulatory microgels support pro-regenerative macrophage activation and attenuate fibroblast collagen synthesis.. 2022, e2102366	0
79	Strategy for improving cell-mediated vascularized soft tissue formation in a hydrogen peroxide-triggered chemically-crosslinked hydrogel.. 2022, 13, 20417314221084096	0
78	Biomaterials in Organoid Development. 2022, 155-178	
77	Magnetic alignment of injectable hydrogel scaffolds for spinal cord injury repair.. 2022,	2

76	Gelatin methacryloyl-alginate core-shell microcapsules as efficient delivery platforms for prevascularized microtissues in endodontic regeneration.. 2022 ,	5
75	Bioprinting small-diameter vascular vessel with endothelium and smooth muscle by the approach of two-step crosslinking process.. 2022 ,	0
74	3D bioprinted, vascularized neuroblastoma tumor environment in fluidic chip devices for precision medicine drug testing.. 2022 ,	1
73	Hybrid fabrication of photo-clickable vascular hydrogels with additive manufactured titanium implants for enhanced osseointegration and vascularized bone formation.. 2022 ,	0
72	A kinetic model for predicting imperfections in the bioink photopolymerization process during visible-light stereolithography printing. 2022 , 102808	2
71	Engineering pre-vascularized bone-like tissue from human mesenchymal stem cells through simulating endochondral ossification.. 2022 , 283, 121451	1
70	Hybprinting for musculoskeletal tissue engineering.. 2022 , 25, 104229	0
69	Effects of alginate-chitosan core-shell nanoparticles encapsulated in gelatin methacrylate hydrogel on chondrogenesis of mesenchymal stem cells. 1-11	
68	Tissue Engineering-Based Strategies for Diabetic Foot Ulcer Management.. 2021 ,	0
67	Preparation of External Stimulus-Free Gelatin-Catechol Hydrogels with Injectability and Tunable Temperature Responsiveness.. 2021 ,	0
66	Effect of Freezing Process on the Microstructure of Gelatin Methacryloyl Hydrogels.. 2021 , 9, 810155	2
65	Systematic optimization of visible light-induced crosslinking conditions of gelatin methacryloyl (GelMA). 2021 , 11, 23276	3
64	An injectable and photocurable methacrylate-silk fibroin hydrogel loaded with bFGF for spinal cord regeneration. 2022 , 110670	4
63	Biodegradable Inks in Indirect Three-Dimensional Bioprinting for Tissue Vascularization.. 2022 , 10, 856398	0
62	Preparation and characterization of biomimetic gradient multi-layer cell-laden scaffolds for osteochondral integrated repair.. 2022 ,	2
61	Photocurable Hydrogel Substrate-Better Potential Substitute on Bone-Marrow-Derived Dendritic Cells Culturing.. 2022 , 15,	1
60	Binary polymer systems for biomedical applications. 1-41	0
59	Utilization of an Acellular Cartilage Matrix-Based Photocrosslinking Hydrogel for Tracheal Cartilage Regeneration and Circumferential Tracheal Repair. <i>Advanced Functional Materials</i> , 2201257	15.6 2

58	Progress towards 3D bioprinting of tissue models for advanced drug screening: In vitro evaluation of drug toxicity and drug metabolism. 2022 , e00218	0
57	Patient-derived microphysiological model identifies the therapeutic potential of metformin for thoracic aortic aneurysm. 2022 , 81, 104080	0
56	Biocompatible fluorescent silk fibroin bioink for digital light processing 3D printing. 2022 , 213, 317-327	1
55	Stem Cells-Loaded 3D-Printed Scaffolds for the Reconstruction of Alveolar Cleft. 10,	0
54	circ_0003204 regulates the osteogenic differentiation of human adipose-derived stem cells via miR-370-3p/HDAC4 axis. 2022 , 14,	1
53	In vitro long term differentiation and functionality of three-dimensional bioprinted primary human hepatocytes: application for in vivo engraftment.	1
52	A hierarchical vascularized engineered bone inspired by intramembranous ossification for mandibular regeneration. 2022 , 14,	0
51	Aggressive Strategies for Regenerating Intervertebral Discs: Stimulus-Responsive Composite Hydrogels from Single to Multiscale Delivery Systems.	0
50	Angiogenesis induction by natural and synthetic polymers. 2022 , 227-239	
49	Electrospun nanofibers for angiogenesis strategies. 2022 , 383-414	
48	Angiogenesis and vasculogenesis: Status in tissue engineering. 2022 , 1-13	
47	The Synergistic Effect of Cyclic Tensile Force and Periodontal Ligament Cell-Laden Calcium Silicate/Gelatin Methacrylate Auxetic Hydrogel Scaffolds for Bone Regeneration. 2022 , 11, 2069	0
46	Enhanced intramyocardial vascular cell delivery promotes post-myocardial infarction healing by polarizing pro-regenerative neutrophils.	
45	Two-Dimensional Borocarbonitride Nanosheet-Engineered Hydrogel as an All-In-One Platform for Melanoma Therapy and Skin Regeneration.	1
44	Hydrogel Microneedle-Assisted Assay Integrating Aptamer Probes and Fluorescence Detection for Reagentless Biomarker Quantification.	2
43	3D Bioprinting of Heterogeneous Tissue-Engineered Skin Containing Human Dermal Fibroblasts and Keratinocytes.	
42	Amphiphilic and fatigue-resistant organohydrogels for small-diameter vascular grafts. 2022 , 8,	1
41	Human gelatin-based composite hydrogels for osteochondral tissue engineering and their adaptation into bioinks for extrusion, inkjet, and digital light processing bioprinting. 2022 , 14, 045012	3

40	Mineralized Enzyme-Based Biomaterials with Superior Bioactivities for Bone Regeneration. 2022 , 14, 36315-36330	2
39	Engineering the viscoelasticity of gelatin methacryloyl (GelMA) hydrogels via small dynamic bridges to regulate BMSC behaviors for osteochondral regeneration. 2022 ,	0
38	Graded-Three-Dimensional Cell-Encapsulating Hydrogel as a Potential Biologic Scaffold for Disc Tissue Engineering.	0
37	Dynamic gelatin-based hydrogels promote the proliferation and self-renewal of embryonic stem cells in long-term 3D culture. 2022 , 289, 121802	1
36	Hydrogel based 3D printing: Bio ink for tissue engineering. 2022 , 367, 120390	2
35	Chapter 8. 3D Bioprinting of Islets. 2022 , 233-261	0
34	A Beginner's Guide to the Characterization of Hydrogel Microarchitecture for Cellular Applications. 2022 , 8, 535	3
33	A Silk Fibroin Methacryloyl-Modified Hydrogel Promoting Cell Adhesion for Customized 3D Cell-Laden Structures.	1
32	Recent Advances in 3D Printing of Photocurable Polymers: Types, Mechanism, and Tissue Engineering Application. 2200278	2
31	Therapeutic Effect of Biomimetic Scaffold Loaded with Human Amniotic Epithelial Cell-Derived Neural-like Cells for Spinal Cord Injury. 2022 , 9, 535	0
30	Engineering Vascular Self-Assembly by Controlled 3D-Printed Cell Placement. 2208325	0
29	Drug-preloadable methacrylated gelatin microspheres fabricated using an aqueous two-phase system. 2022 , 181, 111671	0
28	Injectable and photocurable CAR-T cell formulation enhances the anti-tumor activity to melanoma in mice. 2022 , 291, 121872	1
27	Emerging materials for hemostasis. 2023 , 475, 214823	0
26	Bioengineering for vascularization: Trends and directions of photocrosslinkable gelatin methacrylate hydrogels. 10,	1
25	Selective Formation of Osteogenic and Vasculogenic Tissues for Cartilage Regeneration. 2202008	0
24	Endometrial decidualization status modulates endometrial perivascular complexity and trophoblast outgrowth in gelatin hydrogels.	0
23	Gelatin coating enhances therapeutic cell adhesion to the infarcted myocardium via ECM binding. 2022 , 17, e0277561	0

- 22 Development and systematic characterization of GelMA/alginate/PEGDMA/xanthan gum hydrogel bioink system for extrusion bioprinting. **2023**, 293, 121969 ○
- 21 Oxygen-supplying syringe to create hyperoxia-inducible hydrogels for in situ tissue regeneration. **2023**, 293, 121943 ○
- 20 Application of thermosensitive-hydrogel combined with dental pulp stem cells on the injured fallopian tube mucosa in an animal model. 10, ○
- 19 Immunized Microspheres Engineered Hydrogel Membrane for Reprogramming Macrophage and Mucosal Repair. 2207030 ○
- 18 Growing Skin-Like Tissue. **2023**, 45-102 ○
- 17 Physical properties and cellular responses of gelatin methacryloyl bulk hydrogels and highly ordered porous hydrogels. 2, ○
- 16 One-step generation of core-shell biomimetic microspheres encapsulating double-layer cells using microfluidics for hair regeneration. ○
- 15 Antibacterial effect of biodegradable gelatin methacryloyl loaded with ginger rhizome extract. **2022**, 49, 213-231 ○
- 14 Properties and Printability of the Synthesized Hydrogel Based on GelMA. **2023**, 24, 2121 ○
- 13 Hydrogel-Based Tissue-Mimics for Vascular Regeneration and Tumor Angiogenesis. **2023**, 143-180 ○
- 12 Ingeniería de tejidos en población pediátrica: una esperanza para el tratamiento de enfermedades valvulares mitrales congénitas. **2023**, ○
- 11 Methacrylated Fibrinogen Hydrogels for 3D Cell Culture and Delivery. **2023**, ○
- 10 Gelatin methacryloyl (GelMA) loaded with concentrated hypoxic pretreated adipose-derived mesenchymal stem cells(ADSCs) conditioned medium promotes wound healing and vascular regeneration in aged skin. **2023**, 27, ○
- 9 The diversified hydrogels for biomedical applications and their imperative roles in tissue regeneration. **2023**, 11, 2639-2660 ○
- 8 In Situ Formation of Injectable Gelatin Methacryloyl (GelMA) Hydrogels for Effective Intraocular Delivery of Triamcinolone Acetonide. **2023**, 24, 4957 ○
- 7 Realizations of vascularized tissues: From in vitro platforms to in vivo grafts. **2023**, 4, 011308 ○
- 6 Microfluidic Droplet-Assisted Fabrication of Vessel-Supported Tumors for Preclinical Drug Discovery. **2023**, 15, 15152-15161 ○
- 5 Waffle-inspired hydrogel-based macrodevice for spatially controlled distribution of encapsulated therapeutic microtissues and pro-angiogenic endothelial cells. ○

- 4 Marine Gelatin-Methacryloyl-Based Hydrogels as Cell Templates for Cartilage Tissue Engineering. **2023**, 15, 1674
- 3 Strategy insight: Mechanical properties of biomaterials—Influence on hydrogel-mesenchymal stromal cell combination for osteoarthritis therapy. 14,
- 2 Encapsulation of cartilage cells. **2023**, 525-555
- 1 Building a tissue: gingiva- and adipose-derived mesenchymal cell spheroids—Survivability and functionality after 3D extrusion bioprinting. **2023**, 32, e00279