

# Heungsoo Shin

## List of Publications by Year in descending order

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138  
papers

10,107  
citations

38742

50  
h-index

36028

97  
g-index

139  
all docs

139  
docs citations

139  
times ranked

12612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomimetic materials for tissue engineering. <i>Biomaterials</i> , 2003, 24, 4353-4364.	11.4	1,397
2	Matrices and scaffolds for delivery of bioactive molecules in bone and cartilage tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 339-359.	13.7	615
3	Biomimetic Scaffolds for Tissue Engineering. <i>Advanced Functional Materials</i> , 2012, 22, 2446-2468.	14.9	359
4	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. <i>Biomaterials</i> , 2012, 33, 6952-6964.	11.4	311
5	Current Advances in Immunomodulatory Biomaterials for Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801106.	7.6	264
6	Materials from Mussel-Inspired Chemistry for Cell and Tissue Engineering Applications. <i>Biomacromolecules</i> , 2015, 16, 2541-2555.	5.4	248
7	The stimulation of myoblast differentiation by electrically conductive sub-micron fibers. <i>Biomaterials</i> , 2009, 30, 2038-2047.	11.4	238
8	Current approaches to electrospun nanofibers for tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 014102.	3.3	216
9	In vivo bone and soft tissue response to injectable, biodegradable oligo(poly(ethylene glycol)) Tj ETQq1 1 0.784314 pgBT /Overlock 10	11.4	192
10	Current progress in application of polymeric nanofibers to tissue engineering. <i>Nano Convergence</i> , 2019, 6, 36.	12.1	188
11	Mussel-inspired surface modification of poly(L-lactide) electrospun fibers for modulation of osteogenic differentiation of human mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 189-197.	5.0	179
12	Development of Electroactive and Elastic Nanofibers that contain Polyaniline and Poly(L-lactide-co-ε-caprolactone) for the Control of Cell Adhesion. <i>Macromolecular Bioscience</i> , 2008, 8, 627-637.	4.1	176
13	Effective Immobilization of BMP-2 Mediated by Polydopamine Coating on Biodegradable Nanofibers for Enhanced in Vivo Bone Formation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11225-11235.	8.0	167
14	Modulation of marrow stromal osteoblast adhesion on biomimetic oligo[poly(ethylene glycol) fumarate] hydrogels modified with Arg-Gly-Asp peptides and a poly(ethylene glycol) spacer. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 61, 169-179.	3.1	160
15	Synthesis and Characterization of Oligo(poly(ethylene glycol) fumarate) Macromer. <i>Macromolecules</i> , 2001, 34, 2839-2844.	4.8	156
16	Polydopamine-mediated immobilization of multiple bioactive molecules for the development of functional vascular graft materials. <i>Biomaterials</i> , 2012, 33, 8343-8352.	11.4	155
17	The Development of Genipin-Crosslinked Poly(caprolactone) (PCL)/Gelatin Nanofibers for Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , 2010, 10, 91-100.	4.1	153
18	In Situ Forming Hydrogels Based on Tyramine Conjugated 4-Arm-PPO-PEO via Enzymatic Oxidative Reaction. <i>Biomacromolecules</i> , 2010, 11, 706-712.	5.4	151

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19	Electrospun fibers immobilized with bone forming peptide-1 derived from BMP7 for guided bone regeneration. <i>Biomaterials</i> , 2013, 34, 5059-5069.	11.4	144
20	Mussel-Inspired Immobilization of Vascular Endothelial Growth Factor (VEGF) for Enhanced Endothelialization of Vascular Grafts. <i>Biomacromolecules</i> , 2012, 13, 2020-2028.	5.4	142
21	Attachment, proliferation, and migration of marrow stromal osteoblasts cultured on biomimetic hydrogels modified with an osteopontin-derived peptide. <i>Biomaterials</i> , 2004, 25, 895-906.	11.4	138
22	Modulation of differentiation and mineralization of marrow stromal cells cultured on biomimetic hydrogels modified with Arg-Gly-Asp containing peptides. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 69A, 535-543.	3.1	131
23	<i>In Vitro</i> Osteogenic Differentiation of Human Mesenchymal Stem Cells and <i>In Vivo</i> Bone Formation in Composite Nanofiber Meshes. <i>Tissue Engineering - Part A</i> , 2008, 14, 2105-2119.	3.1	125
24	Osteogenic differentiation of rat bone marrow stromal cells cultured on Arg-Gly-Asp modified hydrogels without dexamethasone and $\beta$ -glycerol phosphate. <i>Biomaterials</i> , 2005, 26, 3645-3654.	11.4	112
25	Fabrication methods of an engineered microenvironment for analysis of cell-biomaterial interactions. <i>Biomaterials</i> , 2007, 28, 126-133.	11.4	111
26	Nanofibrous Poly(lactic acid)/Hydroxyapatite Composite Scaffolds for Guided Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2008, 8, 328-338.	4.1	109
27	In Vitro Cytotoxicity of Redox Radical Initiators for Cross-Linking of Oligo(poly(ethylene glycol)) Tj ETQq1 1 0.784314 rgBT /Overlock	5.4	107
28	In situ cross-linkable gelatin-poly(ethylene glycol)-tyramine hydrogel via enzyme-mediated reaction for tissue regenerative medicine. <i>Journal of Materials Chemistry</i> , 2011, 21, 13180.	6.7	107
29	In Vitro Cytotoxicity of Injectable and Biodegradable Poly(propylene fumarate)-Based Networks: Unreacted Macromers, Cross-Linked Networks, and Degradation Products. <i>Biomacromolecules</i> , 2003, 4, 1026-1033.	5.4	105
30	Use of a Folate-PPE Conjugate To Image Cancer Cells in Vitro. <i>Bioconjugate Chemistry</i> , 2007, 18, 815-820.	3.6	103
31	Engineering Multi-Cellular Spheroids for Tissue Engineering and Regenerative Medicine. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000608.	7.6	102
32	Control of Osteogenic Differentiation and Mineralization of Human Mesenchymal Stem Cells on Composite Nanofibers Containing Poly(lactide-co-glycolic acid) and Hydroxyapatite. <i>Macromolecular Bioscience</i> , 2010, 10, 173-182.	4.1	101
33	In Vitro Cytotoxicity of Unsaturated Oligo[poly(ethylene glycol) fumarate] Macromers and Their Cross-Linked Hydrogels. <i>Biomacromolecules</i> , 2003, 4, 552-560.	5.4	99
34	Conductive biomaterials for tissue engineering applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 12-26.	5.8	98
35	Modulation of Spreading, Proliferation, and Differentiation of Human Mesenchymal Stem Cells on Gelatin-Immobilized Poly(lactide-co-caprolactone) Substrates. <i>Biomacromolecules</i> , 2008, 9, 1772-1781.	5.4	89
36	Time-dependent mussel-inspired functionalization of poly(l-lactide-co-caprolactone) substrates for tunable cell behaviors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 87, 79-87.	5.0	89

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37	Contractility modulates cell adhesion strengthening through focal adhesion kinase and assembly of vinculin-containing focal adhesions. <i>Journal of Cellular Physiology</i> , 2010, 223, 746-756.	4.1	88
38	Dual delivery of growth factors with coacervate-coated poly(lactic-co-glycolic acid) nanofiber improves neovascularization in a mouse skin flap model. <i>Biomaterials</i> , 2017, 124, 65-77.	11.4	87
39	Engineering spheroids potentiating cell-cell and cell-ECM interactions by self-assembly of stem cell microlayer. <i>Biomaterials</i> , 2018, 165, 105-120.	11.4	84
40	Modification of Oligo(poly(ethylene glycol) fumarate) Macromer with a GRGD Peptide for the Preparation of Functionalized Polymer Networks. <i>Biomacromolecules</i> , 2001, 2, 255-261.	5.4	77
41	Harnessing biochemical and structural cues for tenogenic differentiation of adipose derived stem cells (ADSCs) and development of an <i>in vitro</i> tissue interface mimicking tendon-bone insertion graft. <i>Biomaterials</i> , 2018, 165, 79-93.	11.4	75
42	Electrospun gelatin/poly(L-lactide-co- $\mu$ -caprolactone) nanofibers for mechanically functional tissue-engineering scaffolds. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 339-357.	3.5	71
43	Heparin-coated superparamagnetic iron oxide for <i>in vivo</i> MR imaging of human MSCs. <i>Biomaterials</i> , 2012, 33, 4861-4871.	11.4	69
44	Hybrid-spheroids incorporating ECM like engineered fragmented fibers potentiate stem cell function by improved cell/cell and cell/ECM interactions. <i>Acta Biomaterialia</i> , 2017, 64, 161-175.	8.3	66
45	Hydrogels with an embossed surface: An all-in-one platform for mass production and culture of human adipose-derived stem cell spheroids. <i>Biomaterials</i> , 2019, 188, 198-212.	11.4	60
46	Guidance of <i>In Vitro</i> Migration of Human Mesenchymal Stem Cells and <i>In Vivo</i> Guided Bone Regeneration Using Aligned Electrospun Fibers. <i>Tissue Engineering - Part A</i> , 2014, 20, 2031-2042.	3.1	59
47	Electroactive Electrospun Polyaniline/Poly[( $\epsilon$ -lactide)- $\mu$ -caprolactone] Fibers for Control of Neural Cell Function. <i>Macromolecular Bioscience</i> , 2012, 12, 402-411.	4.1	57
48	Effects of Immobilized BMP-2 and Nanofiber Morphology on <i>In Vitro</i> Osteogenic Differentiation of hMSCs and <i>In Vivo</i> Collagen Assembly of Regenerated Bone. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8798-8808.	8.0	57
49	<i>In situ</i> hydrogelation and RGD conjugation of tyramine-conjugated 4-arm PPO-PEO block copolymer for injectable bio-mimetic scaffolds. <i>Soft Matter</i> , 2011, 7, 986-992.	2.7	53
50	Fabrication and characterization of novel diopside/silk fibroin nanocomposite scaffolds for potential application in maxillofacial bone regeneration. <i>International Journal of Biological Macromolecules</i> , 2013, 58, 275-280.	7.5	52
51	Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles. <i>Advanced Healthcare Materials</i> , 2015, 4, 1339-1347.	7.6	51
52	Surface engineering of titanium alloy using metal-polyphenol network coating with magnesium ions for improved osseointegration. <i>Biomaterials Science</i> , 2020, 8, 3404-3417.	5.4	51
53	Simple Large-Scale Synthesis of Hydroxyapatite Nanoparticles: <i>In Situ</i> Observation of Crystallization Process. <i>Langmuir</i> , 2010, 26, 384-388.	3.5	49
54	Stem cell spheroids incorporating fibers coated with adenosine and polydopamine as a modular building blocks for bone tissue engineering. <i>Biomaterials</i> , 2020, 230, 119652.	11.4	49

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55	Tissue Engineering and Regenerative Medicine 2017: A Year in Review. <i>Tissue Engineering - Part B: Reviews</i> , 2018, 24, 327-344.	4.8	47
56	Human adipose-derived stem cell spheroids incorporating platelet-derived growth factor (PDGF) and bio-minerals for vascularized bone tissue engineering. <i>Biomaterials</i> , 2020, 255, 120192.	11.4	47
57	Surface modification of electrospun poly(L-lactide-co- $\epsilon$ -caprolactone) fibrous meshes with a RGD peptide for the control of adhesion, proliferation and differentiation of the preosteoblastic cells. <i>Macromolecular Research</i> , 2010, 18, 472-481.	2.4	44
58	Fabrication of in vitro 3D mineralized tissue by fusion of composite spheroids incorporating biomaterial-coated nanofibers and human adipose-derived stem cells. <i>Acta Biomaterialia</i> , 2018, 74, 464-477.	8.3	44
59	Creating Hierarchical Topographies on Fibrous Platforms Using Femtosecond Laser Ablation for Directing Myoblasts Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 3407-3417.	8.0	42
60	Engineering an aligned endothelial monolayer on a topologically modified nanofibrous platform with a micropatterned structure produced by femtosecond laser ablation. <i>Journal of Materials Chemistry B</i> , 2017, 5, 318-328.	5.8	42
61	Evaluation of the anti-oxidative and ROS scavenging properties of biomaterials coated with epigallocatechin gallate for tissue engineering. <i>Acta Biomaterialia</i> , 2021, 124, 166-178.	8.3	40
62	Immunomodulatory properties of stem cells and bioactive molecules for tissue engineering. <i>Journal of Controlled Release</i> , 2015, 219, 107-118.	9.9	39
63	Aligned Brain Extracellular Matrix Promotes Differentiation and Myelination of Human-Induced Pluripotent Stem Cell-Derived Oligodendrocytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15344-15353.	8.0	39
64	Modulation of Osteogenic Differentiation of Human Mesenchymal Stem Cells by Poly[(L-lactide-co- $\epsilon$ -caprolactone)]/Gelatin Nanofibers. <i>Macromolecular Bioscience</i> , 2009, 9, 795-804.	4.1	35
65	Effect of immobilized collagen type IV on biological properties of endothelial cells for the enhanced endothelialization of synthetic vascular graft materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 196-203.	5.0	35
66	Transfer Printing of Cell Layers with an Anisotropic Extracellular Matrix Assembly using Cell-Interactive and Thermosensitive Hydrogels. <i>Advanced Functional Materials</i> , 2012, 22, 4060-4069.	14.9	33
67	Microcontact printing of polydopamine on thermally expandable hydrogels for controlled cell adhesion and delivery of geometrically defined microtissues. <i>Acta Biomaterialia</i> , 2017, 61, 75-87.	8.3	33
68	Bio-Inspired Immobilization of Cell-Adhesive Ligands on Electrospun Nanofibrous Patches for Cell Delivery. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 555-564.	3.6	32
69	Development of Functional Fibrous Matrices for the Controlled Release of Basic Fibroblast Growth Factor to Improve Therapeutic Angiogenesis. <i>Tissue Engineering - Part A</i> , 2010, 16, 2999-3010.	3.1	31
70	Transfer stamping of human mesenchymal stem cell patches using thermally expandable hydrogels with tunable cell-adhesive properties. <i>Biomaterials</i> , 2015, 54, 44-54.	11.4	30
71	Quantitatively controlled in situ formation of hydrogel membranes in microchannels for generation of stable chemical gradients. <i>Lab on A Chip</i> , 2012, 12, 302-308.	6.0	29
72	Mussel adhesive protein inspired coatings on temperature-responsive hydrogels for cell sheet engineering. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6012-6022.	5.8	29

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73	Controlled Retention of BMP-2-Derived Peptide on Nanofibers Based on Mussel-Inspired Adhesion for Bone Formation. <i>Tissue Engineering - Part A</i> , 2017, 23, 323-334.	3.1	29
74	Mesenchymal Stem Cell-Conditioned Medium Enhances Osteogenic and Chondrogenic Differentiation of Human Embryonic Stem Cells and Human Induced Pluripotent Stem Cells by Mesodermal Lineage Induction. <i>Tissue Engineering - Part A</i> , 2014, 20, 1306-1313.	3.1	28
75	Fabrication of core-shell spheroids as building blocks for engineering 3D complex vascularized tissue. <i>Acta Biomaterialia</i> , 2019, 100, 158-172.	8.3	28
76	Enhancement of long-term angiogenic efficacy of adipose stem cells by delivery of FGF2. <i>Microvascular Research</i> , 2012, 84, 1-8.	2.5	27
77	The incorporation of bFGF mediated by heparin into PCL/gelatin composite fiber meshes for guided bone regeneration. <i>Drug Delivery and Translational Research</i> , 2015, 5, 146-159.	5.8	27
78	Enhancement of osteogenic and chondrogenic differentiation of human embryonic stem cells by mesodermal lineage induction with BMP-4 and FGF2 treatment. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 793-797.	2.1	26
79	Rapid Transfer of Endothelial Cell Sheet Using a Thermosensitive Hydrogel and Its Effect on Therapeutic Angiogenesis. <i>Biomacromolecules</i> , 2013, 14, 4309-4319.	5.4	25
80	Mussel Adhesion-Inspired Reverse Transfection Platform Enhances Osteogenic Differentiation and Bone Formation of Human Adipose-Derived Stem Cells. <i>Small</i> , 2016, 12, 6266-6278.	10.0	25
81	Fabrication and characterization of 3D scaffolds made from blends of sodium alginate and poly(vinyl Tj ETQq1 1 0.784314 rgBT /Ove	1.9	25
82	Directed Regeneration of Osteochondral Tissue by Hierarchical Assembly of Spatially Organized Composite Spheroids. <i>Advanced Science</i> , 2022, 9, e2103525.	11.2	25
83	Enhancement of cardiac myoblast responses onto electrospun PLCL fibrous matrices coated with polydopamine for gelatin immobilization. <i>Macromolecular Research</i> , 2011, 19, 835-842.	2.4	23
84	Graded functionalization of biomaterial surfaces using mussel-inspired adhesive coating of polydopamine. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 546-556.	5.0	23
85	Fabrication of Spheroids with Uniform Size by Self-Assembly of a Micro-Scaled Cell Sheet (1/4CS): The Effect of Cell Contraction on Spheroid Formation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2802-2813.	8.0	23
86	Lotus seedpod-inspired hydrogels as an all-in-one platform for culture and delivery of stem cell spheroids. <i>Biomaterials</i> , 2019, 225, 119534.	11.4	21
87	Oxidative Epigallocatechin Gallate Coating on Polymeric Substrates for Bone Tissue Regeneration. <i>Macromolecular Bioscience</i> , 2019, 19, e1800392.	4.1	21
88	Spatially arranged encapsulation of stem cell spheroids within hydrogels for the regulation of spheroid fusion and cell migration. <i>Acta Biomaterialia</i> , 2022, 142, 60-72.	8.3	21
89	Engineered ECM-like microenvironment with fibrous particles for guiding 3D-encapsulated hMSC behaviours. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2732-2741.	5.8	20
90	Development and characterization of heparin-immobilized polycaprolactone nanofibrous scaffolds for tissue engineering using gamma-irradiation. <i>RSC Advances</i> , 2017, 7, 8963-8972.	3.6	20

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91	Fabrication of 3D plotted scaffold with microporous strands for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2020, 8, 951-960.	5.8	20
92	Bioactive Membrane Immobilized with Lactoferrin for Modulation of Bone Regeneration and Inflammation. <i>Tissue Engineering - Part A</i> , 2020, 26, 1243-1258.	3.1	20
93	Tissue engineering using a cyclic strain bioreactor and gelatin/PLCL scaffolds. <i>Macromolecular Research</i> , 2008, 16, 567-569.	2.4	19
94	Therapeutic angiogenesis by a myoblast layer harvested by tissue transfer printing from cell-adhesive, thermosensitive hydrogels. <i>Biomaterials</i> , 2013, 34, 8258-8268.	11.4	19
95	Genetically Engineered Myoblast Sheet for Therapeutic Angiogenesis. <i>Biomacromolecules</i> , 2014, 15, 361-372.	5.4	19
96	Control of adhesion, focal adhesion assembly, and differentiation of myoblasts by enzymatically crosslinked cell-interactive hydrogels. <i>Macromolecular Research</i> , 2011, 19, 911-920.	2.4	18
97	Delivery of a Cell Patch of Cocultured Endothelial Cells and Smooth Muscle Cells Using Thermoresponsive Hydrogels for Enhanced Angiogenesis. <i>Tissue Engineering - Part A</i> , 2016, 22, 182-193.	3.1	18
98	Advanced capability of radially aligned fibrous scaffolds coated with polydopamine for guiding directional migration of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8725-8737.	5.8	18
99	Stem cell spheroid engineering with osteoinductive and ROS scavenging nanofibers for bone regeneration. <i>Biofabrication</i> , 2021, 13, 034101.	7.1	18
100	Release Kinetics and in vitro Bioactivity of Basic Fibroblast Growth Factor: Effect of the Thickness of Fibrous Matrices. <i>Macromolecular Bioscience</i> , 2011, 11, 122-130.	4.1	17
101	Fabrication of size-controllable human mesenchymal stromal cell spheroids from micro-scaled cell sheets. <i>Biofabrication</i> , 2019, 11, 035025.	7.1	17
102	Spatially Assembled Bilayer Cell Sheets of Stem Cells and Endothelial Cells Using Thermosensitive Hydrogels for Therapeutic Angiogenesis. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601340.	7.6	16
103	Size-controlled human adipose-derived stem cell spheroids hybridized with single-segmented nanofibers and their effect on viability and stem cell differentiation. <i>Biomaterials Research</i> , 2021, 25, 14.	6.9	16
104	Fabrication of cell sheets with anisotropically aligned myotubes using thermally expandable micropatterned hydrogels. <i>Macromolecular Research</i> , 2016, 24, 562-572.	2.4	15
105	Preparation of Biomimetic Hydrogels with Controlled Cell Adhesive Properties and Topographical Features for the Study of Muscle Cell Adhesion and Proliferation. <i>Macromolecular Bioscience</i> , 2012, 12, 1502-1513.	4.1	14
106	Collagen-Immobilized Extracellular FRET Reporter for Visualizing Protease Activity Secreted by Living Cells. <i>ACS Sensors</i> , 2020, 5, 655-664.	7.8	14
107	Preparation and characterization of temperature-sensitive poly(N-isopropylacrylamide)-g-poly(L-lactide-co- $\epsilon$ -caprolactone) nanofibers. <i>Macromolecular Research</i> , 2008, 16, 139-148.	2.4	13
108	One-step harvest and delivery of micropatterned cell sheets mimicking the multi-cellular microenvironment of vascularized tissue. <i>Acta Biomaterialia</i> , 2021, 132, 176-187.	8.3	13



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109	Reconstruction of Vascular Structure with Multicellular Components using Cell Transfer Printing Methods. <i>Advanced Healthcare Materials</i> , 2014, 3, 1465-1474.	7.6	12
110	Facile Cell Sheet Harvest and Translocation Mediated by a Thermally Expandable Hydrogel with Controlled Cell Adhesion. <i>Advanced Healthcare Materials</i> , 2016, 5, 2320-2324.	7.6	12
111	Osteoinductive superparamagnetic Fe nanocrystal/calcium phosphate heterostructured microspheres. <i>Nanoscale</i> , 2017, 9, 19145-19153.	5.6	12
112	One-step delivery of a functional multi-layered cell sheet using a thermally expandable hydrogel with controlled presentation of cell adhesive proteins. <i>Biofabrication</i> , 2018, 10, 025001.	7.1	12
113	Agglomeration of human dermal fibroblasts with ECM mimicking nano-fragments and their effects on proliferation and cell/ECM interactions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 80-91.	5.8	12
114	3D printed micro-chambers carrying stem cell spheroids and pro-proliferative growth factors for bone tissue regeneration. <i>Biofabrication</i> , 2021, 13, 015011.	7.1	11
115	Effects of mechanical properties of gelatin methacryloyl hydrogels on encapsulated stem cell spheroids for 3D tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 903-913.	7.5	11
116	Development and characterization of nanofibrous poly(lactic-co-glycolic acid)/biphasic calcium phosphate composite scaffolds for enhanced osteogenic differentiation. <i>Macromolecular Research</i> , 2011, 19, 172-179.	2.4	10
117	Effect of gradient biomineral concentrations on osteogenic and chondrogenic differentiation of adipose derived stem cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 784-794.	5.8	10
118	Free radical-scavenging composite gelatin methacryloyl hydrogels for cell encapsulation. <i>Acta Biomaterialia</i> , 2022, 149, 96-110.	8.3	10
119	Surface engineering of 3D-printed scaffolds with minerals and a pro-angiogenic factor for vascularized bone regeneration. <i>Acta Biomaterialia</i> , 2022, 140, 730-744.	8.3	9
120	Efficacy of mechanically modified electrospun poly(l-lactide-co- $\epsilon$ -caprolactone)/gelatin membrane on full-thickness wound healing in rats. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 200-209.	2.6	8
121	Oxygen-dependent generation of a graded polydopamine coating on nanofibrous materials for controlling stem cell functions. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8865-8878.	5.8	8
122	Adipose-derived mesenchymal stem cell spheroid sheet accelerates regeneration of ulcerated oral mucosa by enhancing inherent therapeutic properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 91, 296-310.	5.8	8
123	Polydopamine-assisted one-step modification of nanofiber surfaces with adenosine to tune the osteogenic differentiation of mesenchymal stem cells and the maturation of osteoclasts. <i>Biomaterials Science</i> , 2020, 8, 2825-2839.	5.4	8
124	Improvement of Differentiation and Mineralization of Pre-Osteoblasts on Composite Nanofibers of Poly(lactic acid) and Nanosized Bovine Bone Powder. <i>Macromolecular Bioscience</i> , 2008, 8, 1098-1107.	4.1	7
125	The effect of a long-term cyclic strain on human dermal fibroblasts cultured in a bioreactor on chitosan-based scaffolds for the development of tissue engineered artificial dermis. <i>Macromolecular Research</i> , 2007, 15, 370-378.	2.4	6
126	Magnetism-controlled assembly of composite stem cell spheroids for the biofabrication of contraction-modulatory 3D tissue. <i>Biofabrication</i> , 2022, 14, 015007.	7.1	6



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127	In vitro and in vivo characterization of a coronary stent coated with an elastic biodegradable polymer for the sustained release of paclitaxel. <i>Macromolecular Research</i> , 2009, 17, 1039-1042.	2.4	5
128	Effect of spatial arrangement and structure of hierarchically patterned fibrous scaffolds generated by a femtosecond laser on cardiomyoblast behavior. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1732-1742.	4.0	5
129	Modulation of human mesenchymal stem cell survival on electrospun mesh with co-immobilized epithelial growth factor and gelatin. <i>RSC Advances</i> , 2015, 5, 55948-55956.	3.6	4
130	Effect of dual growth factor delivery using poly(lactic-co-glycolic acid) mesh on neovascularization in a mouse skin flap model. <i>Macromolecular Research</i> , 2016, 24, 385-391.	2.4	3
131	On/off switchable physical stimuli regulate the future direction of adherent cellular fate. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5560-5571.	5.8	3
132	Integration of Bioinspired Fibrous Strands with 3D Spheroids for Environmental Hazard Monitoring. <i>Small</i> , 2022, 18, e2200757.	10.0	3
133	Frontiers in research for bone biomaterials. , 2020, , 307-332.		2
134	Sulfobetaine polymers for effective permeability into multicellular tumor spheroids (MCTSs). <i>Journal of Materials Chemistry B</i> , 2022, 10, 2649-2660.	5.8	2
135	Cytotoxicity of redox radical initiators for encapsulation of mesenchymal stem cells. , 0, , .		0
136	Formation of hydrogel membranes in microchannels and its applications. , 2011, , .		0
137	Stem Cells: Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles ( <i>Adv. Healthcare Mater.</i> 9/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 1418-1418.	7.6	0
138	A Special Dedication to Editor-in-Chief, Dr. Tony Mikos. <i>Tissue Engineering - Part A</i> , 2020, 26, 1223-1223.	3.1	0