#### Su-Hwan Kim

### List of Publications by Citations

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

62 36 4,114 104 h-index g-index citations papers 5.69 7.8 109 5,012 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
104	Chondroitin sulfate based niches for chondrogenic differentiation of mesenchymal stem cells. <i>Matrix Biology</i> , <b>2008</b> , 27, 12-21	11.4	289
103	Controlled differentiation of stem cells. Advanced Drug Delivery Reviews, 2008, 60, 199-214	18.5	261
102	Bioactive calcium phosphate materials and applications in bone regeneration. <i>Biomaterials Research</i> , <b>2019</b> , 23, 4	16.8	253
101	Chondrogenic differentiation of human embryonic stem cell-derived cells in arginine-glycine-aspartate-modified hydrogels. <i>Tissue Engineering</i> , <b>2006</b> , 12, 2695-706		238
100	In vivo commitment and functional tissue regeneration using human embryonic stem cell-derived mesenchymal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 20641-6	11.5	223
99	Effects of three-dimensional culture and growth factors on the chondrogenic differentiation of murine embryonic stem cells. <i>Stem Cells</i> , <b>2006</b> , 24, 284-91	5.8	211
98	Biomimetic Materials and Fabrication Approaches for Bone Tissue Engineering. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700612	10.1	113
97	Morphogenetic signals from chondrocytes promote chondrogenic and osteogenic differentiation of mesenchymal stem cells. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 212, 281-4	7	105
96	Derivation of chondrogenically-committed cells from human embryonic cells for cartilage tissue regeneration. <i>PLoS ONE</i> , <b>2008</b> , 3, e2498	3.7	104
95	Enhanced chondrogenic differentiation of murine embryonic stem cells in hydrogels with glucosamine. <i>Biomaterials</i> , <b>2006</b> , 27, 6015-23	15.6	100
94	Regulation of osteogenic and chondrogenic differentiation of mesenchymal stem cells in PEG-ECM hydrogels. <i>Cell and Tissue Research</i> , <b>2011</b> , 344, 499-509	4.2	98
93	Cell-laden microengineered pullulan methacrylate hydrogels promote cell proliferation and 3D cluster formation. <i>Soft Matter</i> , <b>2011</b> , 7, 1903-1911	3.6	88
92	Biomimetic whitlockite inorganic nanoparticles-mediated in situ remodeling and rapid bone regeneration. <i>Biomaterials</i> , <b>2017</b> , 112, 31-43	15.6	82
91	Chondroitin Sulfate-Based Biomineralizing Surface Hydrogels for Bone Tissue Engineering. <i>ACS Applied Materials &amp; District Applied &amp; District Applied</i>	9.5	78
90	In Vitro and In Vivo Evaluation of Whitlockite Biocompatibility: Comparative Study with Hydroxyapatite and ETricalcium Phosphate. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 128-36	10.1	78
89	Hydrogel-laden paper scaffold system for origami-based tissue engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 15426-31	11.5	74
88	Injectable multifunctional microgel encapsulating outgrowth endothelial cells and growth factors for enhanced neovascularization. <i>Journal of Controlled Release</i> , <b>2014</b> , 187, 1-13	11.7	73

# (2015-2007)

87	Response of zonal chondrocytes to extracellular matrix-hydrogels. FEBS Letters, 2007, 581, 4172-8	3.8	73
86	Tissue adhesive, rapid forming, and sprayable ECM hydrogel via recombinant tyrosinase crosslinking. <i>Biomaterials</i> , <b>2018</b> , 178, 401-412	15.6	69
85	Enhanced osteogenic commitment of murine mesenchymal stem cells on graphene oxide substrate. <i>Biomaterials Research</i> , <b>2018</b> , 22, 1	16.8	64
84	Umbilical-cord-blood-derived mesenchymal stem cells seeded onto fibronectin-immobilized polycaprolactone nanofiber improve cardiac function. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 3007-17	10.8	61
83	Diffusion-mediated in situ alginate encapsulation of cell spheroids using microscale concave well and nanoporous membrane. <i>Lab on A Chip</i> , <b>2011</b> , 11, 1168-73	7.2	61
82	Multifunctional cell-culture platform for aligned cell sheet monitoring, transfer printing, and therapy. <i>ACS Nano</i> , <b>2015</b> , 9, 2677-88	16.7	58
81	Riboflavin-induced photo-crosslinking of collagen hydrogel and its application in meniscus tissue engineering. <i>Drug Delivery and Translational Research</i> , <b>2016</b> , 6, 148-58	6.2	57
80	Cartilage tissue engineering: Directed differentiation of embryonic stem cells in three-dimensional hydrogel culture. <i>Methods in Molecular Biology</i> , <b>2007</b> , 407, 351-73	1.4	47
79	Fabrication of polyphenol-incorporated anti-inflammatory hydrogel via high-affinity enzymatic crosslinking for wet tissue adhesion. <i>Biomaterials</i> , <b>2020</b> , 242, 119905	15.6	44
78	Heparin Functionalized Injectable Cryogel with Rapid Shape-Recovery Property for Neovascularization. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2257-2269	6.9	43
77	General and Facile Coating of Single Cells via Mild Reduction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1199-1202	16.4	43
76	Extracellular matrix-based cryogels for cartilage tissue engineering. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 93, 1410-1419	7.9	43
75	Injectable angiogenic and osteogenic carrageenan nanocomposite hydrogel for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 122, 320-328	7.9	43
74	Facilitated Transdermal Drug Delivery Using Nanocarriers-Embedded Electroconductive Hydrogel Coupled with Reverse Electrodialysis-Driven Iontophoresis. <i>ACS Nano</i> , <b>2020</b> , 14, 4523-4535	16.7	41
73	Biomaterials directed in vivo osteogenic differentiation of mesenchymal cells derived from human embryonic stem cells. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 1723-32	3.9	41
72	Chondrogenically primed tonsil-derived mesenchymal stem cells encapsulated in riboflavin-induced photocrosslinking collagen-hyaluronic acid hydrogel for meniscus tissue repairs. <i>Acta Biomaterialia</i> , <b>2017</b> , 53, 318-328	10.8	40
71	Gelatin-based extracellular matrix cryogels for cartilage tissue engineering. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 45, 421-429	6.3	39
7º	Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1339-47	10.1	37

69	Application of stem cells for articular cartilage regeneration. Journal of Knee Surgery, 2009, 22, 60-71	2.4	36
68	Bioglass-Incorporated Methacrylated Gelatin Cryogel for Regeneration of Bone Defects. <i>Polymers</i> , <b>2018</b> , 10,	4.5	36
67	Sequential growth factor releasing double cryogel system for enhanced bone regeneration. <i>Biomaterials</i> , <b>2020</b> , 257, 120223	15.6	35
66	Extracellular-matrix-based and Arg-Gly-Asp-modified photopolymerizing hydrogels for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 757-66	3.9	33
65	Hydrogel Functionalized Janus Membrane for Skin Regeneration. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1600795	10.1	32
64	Injectable anti-inflammatory hyaluronic acid hydrogel for osteoarthritic cartilage repair. <i>Materials Science and Engineering C</i> , <b>2020</b> , 115, 111096	8.3	30
63	Enzyme-mediated tissue adhesive hydrogels for meniscus repair. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 110, 479-487	7.9	30
62	Inflammation-Modulating Hydrogels for Osteoarthritis Cartilage Tissue Engineering. <i>Cells</i> , <b>2020</b> , 9,	7.9	27
61	Graphene oxide reinforced hydrogels for osteogenic differentiation of human adipose-derived stem cells. <i>RSC Advances</i> , <b>2017</b> , 7, 20779-20788	3.7	26
60	Gelatin-based micro-hydrogel carrying genetically engineered human endothelial cells for neovascularization. <i>Acta Biomaterialia</i> , <b>2019</b> , 95, 285-296	10.8	22
59	Biomimetically Reinforced Polyvinyl Alcohol-Based Hybrid Scaffolds for Cartilage Tissue Engineering. <i>Polymers</i> , <b>2017</b> , 9,	4.5	20
58	Dual-Channel Fluorescence Imaging of Hydrogel Degradation and Tissue Regeneration in the Brain. <i>Theranostics</i> , <b>2019</b> , 9, 4255-4264	12.1	18
57	Injectable chitosan-fibrin/nanocurcumin composite hydrogel for the enhancement of angiogenesis. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 4873-4887	2.8	18
56	Regulation of lubricin for functional cartilage tissue regeneration: a review. <i>Biomaterials Research</i> , <b>2018</b> , 22, 9	16.8	18
55	Osteoconductive hybrid hyaluronic acid hydrogel patch for effective bone formation. <i>Journal of Controlled Release</i> , <b>2020</b> , 327, 571-583	11.7	18
54	Osteogenic Effects of VEGF-Overexpressed Human Adipose-Derived Stem Cells with Whitlockite Reinforced Cryogel for Bone Regeneration. <i>Macromolecular Bioscience</i> , <b>2019</b> , 19, e1800460	5.5	17
53	Magnetic Nanoparticle-Embedded Hydrogel Sheet with a Groove Pattern for Wound Healing Application. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 3909-3921	5.5	16
52	Injectable PLGA microspheres encapsulating WKYMVM peptide for neovascularization. <i>Acta Biomaterialia</i> , <b>2015</b> , 25, 76-85	10.8	16

# (2020-2018)

Injectable in Situ Shape-Forming Osteogenic Nanocomposite Hydrogel for Regenerating Irregular Bone Defects <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1037-1046	4.1	16	
Self-Healing and Adhesive Artificial Tissue Implant for Voice Recovery <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1134-1146	4.1	16	
Optical spectroscopic imaging for cell therapy and tissue engineering. <i>Applied Spectroscopy Reviews</i> , <b>2018</b> , 53, 360-375	4.5	15	
Lysosome-Targeted Bioprobes for Sequential Cell Tracking from Macroscopic to Microscopic Scales. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806216	24	14	
Recent Advances in the Transdermal Delivery of Protein Therapeutics with a Combinatorial System of Chemical Adjuvants and Physical Penetration Enhancements. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 19001	1 <b>€</b> -9	14	
Mild Reduction of the Cancer Cell Surface as an Anti-invasion Treatment. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 35676-35680	9.5	13	
Transdermal iontophoresis patch with reverse electrodialysis. <i>Drug Delivery</i> , <b>2017</b> , 24, 701-706	7	12	
Recent Advances in Engineered Stem Cell-Derived Cell Sheets for Tissue Regeneration. <i>Polymers</i> , <b>2019</b> , 11,	4.5	12	
High throughput approaches for controlled stem cell differentiation. <i>Acta Biomaterialia</i> , <b>2016</b> , 34, 21-2	910.8	12	
Enzyme-mediated one-pot synthesis of hydrogel with the polyphenol cross-linker for skin regeneration. <i>Materials Today Bio</i> , <b>2020</b> , 8, 100079	9.9	11	
One Step Further in the Elucidation of the Crystallographic Structure of Whitlockite. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 2553-2561	3.5	10	
CRISPR-Cpf1 Activation of Endogenous Gene for Osteogenic Differentiation of Umbilical-Cord-Derived Mesenchymal Stem Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2020</b> , 17, 309-316	6.4	10	
Enhanced Osteogenic Commitment of Human Mesenchymal Stem Cells on Polyethylene Glycol-Based Cryogel with Graphene Oxide Substrate. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 2470-2479	5.5	9	
Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 1258-6	5 <b>∂</b> ·5	9	
Recent advancements in enzyme-mediated crosslinkable hydrogels: -mimicking strategies. <i>APL Bioengineering</i> , <b>2021</b> , 5, 021502	6.6	9	
Cardiac-mimetic cell-culture system for direct cardiac reprogramming. <i>Theranostics</i> , <b>2019</b> , 9, 6734-6744	12.1	8	
Biomedical therapy using synthetic WKYMVm hexapeptide. <i>Organogenesis</i> , <b>2016</b> , 12, 53-60	1.7	7	
Ectopic transient overexpression of facilitates BMP4-induced osteogenic transdifferentiation of human umbilical vein endothelial cells. <i>Journal of Tissue Engineering</i> , <b>2020</b> , 11, 2041731420909208	7.5	6	
	Bone Defects. ACS Applied Bio Materials, 2018, 1, 1037-1046  Self-Healing and Adhesive Artificial Tissue Implant for Voice Recovery ACS Applied Bio Materials, 2018, 1, 1134-1146  Optical spectroscopic imaging for cell therapy and tissue engineering. Applied Spectroscopy Reviews, 2018, 53, 360-375  Lysosome-Targeted Bioprobes for Sequential Cell Tracking from Macroscopic to Microscopic Scales. Advanced Materials, 2019, 31, e1806216  Recent Advances in the Transdermal Delivery of Protein Therapeutics with a Combinatorial System of Chemical Adjuvants and Physical Penetration Enhancements. Advanced Therapeutics, 2020, 3, 19001: Mild Reduction of the Cancer Cell Surface as an Anti-invasion Treatment. ACS Applied Materials & Amp: Interfaces, 2018, 10, 35676-35680  Transdermal iontophoresis patch with reverse electrodialysis. Drug Delivery, 2017, 24, 701-706  Recent Advances in Engineered Stem Cell-Derived Cell Sheets for Tissue Regeneration. Polymers, 2019, 11.  High throughput approaches for controlled stem cell differentiation. Acta Biomaterialia, 2016, 34, 21-2: Enzyme-mediated one-pot synthesis of hydrogel with the polyphenol cross-linker for skin regeneration. Materials Today Bio, 2020, 8, 100079  One Step Further in the Elucidation of the Crystallographic Structure of Whitlockite. Crystal Growth and Design, 2020, 20, 2553-2561  CRISPR-Cpf1 Activation of Endogenous Gene for Osteogenic Differentiation of Umbilical-Cord-Derived Mesenchymal Stem Cells. Malecular Therapy - Methods and Clinical Development, 2020, 17, 309-316  Enhanced Osteogenic Commitment of Human Mesenchymal Stem Cells on Polyethylene Glycol-Based Cryogel with Graphene Oxide Substrate. ACS Biomaterials Science and Engineering, 2017, 3, 2470-2479  Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1258-6 Biomedinal Advancements in enzyme-mediated crosslinkable hydrogels: -mimicking strategies. APL Bioengineering, 202	Self-Healing and Adhesive Artificial Tissue Implant for Voice Recovery ACS Applied Bio Materials, 2018, 1, 1134-1146  Optical spectroscopic imaging for cell therapy and tissue engineering. Applied Spectroscopy Reviews , 2018, 53, 360-375  Lysosome-Targeted Bioprobes for Sequential Cell Tracking from Macroscopic to Microscopic Scales. Advanced Materials, 2019, 31, e1806216  Recent Advances in the Transdermal Delivery of Protein Therapeutics with a Combinatorial System of Chemical Adjuvants and Physical Penetration Enhancements. Advanced Therapeutics, 2020, 3, 1900116 9  Mild Reduction of the Cancer Cell Surface as an Anti-invasion Treatment. ACS Applied Materials Samp; Interfaces, 2018, 10, 35676-35680  Transdermal iontophoresis patch with reverse electrodialysis. 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ACS Biomaterials Science and Engineering, 2017, 3, 2470-2479  Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1258-66-5  Recent advancements in enzyme-mediated crosslinkable hydrogels:-mimicking strategies. APL Biomedical therapy using synthetic WKYMVm hexapeptide. Organogenes	Self-Healing and Adhesive Artificial Tissue Implant for Voice Recovery. ACS Applied Bio Materials, 2018, 1, 1134-1146  Self-Healing and Adhesive Artificial Tissue Implant for Voice Recovery. ACS Applied Bio Materials, 2018, 1, 1134-1146  Optical spectroscopic imaging for cell therapy and tissue engineering. Applied Spectroscopy Reviews 4.5 15  Lysosome-Targeted Bioprobes for Sequential Cell Tracking from Macroscopic to Microscopic Scales, 244 Advanced Materials, 2019, 31, e1806216  Recent Advances in the Transdermal Delivery of Protein Therapeutics with a Combinatorial System of Chemical Adjuvants and Physical Penetration Enhancements. Advanced Therapeutics, 2020, 3, 1900116-9  Idl Reduction of the Cancer Cell Surface as an Anti-invasion Treatment. ACS Applied Materials Samp; Interfaces, 2018, 10, 35676-35680  Transdermal iontophoresis patch with reverse electrodialysis. Drug Delivery, 2017, 24, 701-706 7 12  Recent Advances in Engineered Stem Cell-Derived Cell Sheets for Tissue Regeneration. Polymers, 2019, 11.  High throughput approaches for controlled stem cell differentiation. Acta Biomaterialia, 2016, 34, 21-2910.8 12  Enzyme-mediated one-pot synthesis of hydrogel with the polyphenol cross-linker for skin regeneration. Materials Today Bio, 2020, 8, 100079  One Step Further in the Elucidation of the Crystallographic Structure of Whitlockite. Crystal Growth and Design, 2020, 20, 2555-2561  CRISPR-CpFl Activation of Endogenous Gene for Osteogenic Differentiation of Umblical-Cord-Derived Mesenchymal Stem Cells. Molecular Therapy - Methods and Clinical Development, 2020, 17, 309-316  Enhanced Osteogenic Commitment of Human Mesenchymal Stem Cells on Polyethylene Clycol-Based Cryogel with Graphene Oxide Substrate. ACS Biomaterials Science and Engineering, 2017, 3, 2470-2479  Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1258-60-5 9  Recent Advancements in enzyme-mediated crossl

33	Induced myogenic commitment of human chondrocytes via non-viral delivery of minicircle DNA. <i>Journal of Controlled Release</i> , <b>2015</b> , 200, 212-21	11.7	6
32	Novel enzymatic cross-linking-based hydrogel nanofilm caging system on pancreatic cell spheroid for long-term blood glucose regulation. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	6
31	Non-viral approaches for direct conversion into mesenchymal cell types: Potential application in tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2016</b> , 104, 68	6 <sup>3</sup> 9 <sup>5</sup> 7	6
30	Tyrosinase-mediated hydrogel crosslinking for tissue engineering. <i>Journal of Applied Polymer Science</i> ,51887	2.9	5
29	Clinical Application of Bone Morphogenetic Protein-2 Microcarriers Fabricated by the Cryopolymerization of Gelatin Methacrylate for the Treatment of Radial Fracture in Two Dogs. <i>In Vivo</i> , <b>2018</b> , 32, 575-581	2.3	5
28	Intracellular Delivery of Recombinant RUNX2 Facilitated by Cell-Penetrating Protein for the Osteogenic Differentiation of hMSCs. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 5202-5214	5.5	5
27	Injectable Fibrin/Polyethylene Oxide Semi-IPN Hydrogel for a Segmental Meniscal Defect Regeneration. <i>American Journal of Sports Medicine</i> , <b>2021</b> , 49, 1538-1550	6.8	5
26	A biofunctionalized viral delivery patch for spatially defined transfection. <i>Chemical Communications</i> , <b>2019</b> , 55, 2317-2320	5.8	4
25	Osteogenic priming of mesenchymal stem cells by chondrocyte-conditioned factors and mineralized matrix. <i>Cell and Tissue Research</i> , <b>2015</b> , 362, 115-26	4.2	4
24	Bone Tissue Engineering: Biomimetic Materials and Fabrication Approaches for Bone Tissue Engineering (Adv. Healthcare Mater. 23/2017). <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1770120	10.1	4
23	Recent Advancements in Decellularized Matrix-Based Biomaterials for Musculoskeletal Tissue Regeneration. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1077, 149-162	3.6	4
22	Optical High Content Nanoscopy of Epigenetic Marks Decodes Phenotypic Divergence in Stem Cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 39406	4.9	3
21	Protein-based direct reprogramming of fibroblasts to neuronal cells using 30Kc19 protein and transcription factor Ascl1. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2020</b> , 121, 105717	5.6	3
20	Meniscus regeneration with injectable Pluronic/PMMA-reinforced fibrin hydrogels in a rabbit segmental meniscectomy model. <i>Journal of Tissue Engineering</i> , <b>2021</b> , 12, 20417314211050141	7.5	3
19	High-Efficient Production of Adipose-Derived Stem Cell (ADSC) Secretome Through Maturation Process and Its Non-scarring Wound Healing Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 681501	5.8	3
18	Supercritical Fluid-Based Decellularization Technologies for Regenerative Medicine Applications. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100160	5.5	3
17	Graphene oxide film guided skeletal muscle differentiation. <i>Materials Science and Engineering C</i> , <b>2021</b> , 126, 112174	8.3	3
16	Partially Digested Osteoblast Cell Line-Derived Extracellular Matrix Induces Rapid Mineralization and Osteogenesis. ACS Biomaterials Science and Engineering, 2021, 7, 1134-1146	5.5	3

#### LIST OF PUBLICATIONS

15	Addition of lactoferrin and substance P in a chitin/PLGA-CaSO hydrogel for regeneration of calvarial bone defects. <i>Materials Science and Engineering C</i> , <b>2021</b> , 126, 112172	8.3	3
14	Bioinspired inorganic nanoparticles and vascular factor microenvironment directed neo-bone formation. <i>Biomaterials Science</i> , <b>2020</b> , 8, 2627-2637	7.4	2
13	Lineage Specific Differentiation of Magnetic Nanoparticle-Based Size Controlled Human Embryoid Body. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1719-1729	5.5	2
12	Light-Triggered In Situ Biosynthesis of Artificial Melanin for Skin Protection <i>Advanced Science</i> , <b>2022</b> , e2103503	13.6	2
11	A Biphasic Osteovascular Biomimetic Scaffold for Rapid and Self-Sustained Endochondral Ossification. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100070	10.1	2
10	Biomaterials for Stem Cell Therapy for Cardiac Disease. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1064, 181-193	3.6	2
9	A cell surface-reducing microenvironment induces early osteogenic commitment. <i>FEBS Letters</i> , <b>2021</b> , 595, 2147-2159	3.8	1
8	3D Microphysiological System-Inspired Scalable Vascularized Tissue Constructs for Regenerative Medicine. <i>Advanced Functional Materials</i> ,2105475	15.6	1
7	A brief review of mRNA therapeutics and delivery for bone tissue engineering <i>RSC Advances</i> , <b>2022</b> , 12, 8889-8900	3.7	1
6	Enhancement of Wound Healing Efficacy by Increasing the Stability and Skin-Penetrating Property of bFGF Using 30Kc19EBased Fusion Protein. <i>Advanced Biology</i> , <b>2021</b> , 5, e2000176		Ο
5	Enhanced Neovascularization Using Injectable and rhVEGF-Releasing Cryogel Microparticles. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100234	5.5	О
4	VEGF-overexpressed Human Tonsil-derived Mesenchymal Stem Cells with PEG/HA-based Cryogels for Therapeutic Angiogenesis. <i>Biotechnology and Bioprocess Engineering</i> , <b>2022</b> , 27, 17-29	3.1	Ο
3	Differential modulation of endothelial cytoplasmic protrusions after exposure to graphene-family nanomaterials <i>NanoImpact</i> , <b>2022</b> , 26, 100401	5.6	О
2	Programmable Nuclease-Based Integration into Novel Extragenic Genomic Safe Harbor Identified from Korean Population-Based CNV Analysis. <i>Molecular Therapy - Oncolytics</i> , <b>2019</b> , 14, 253-265	6.4	
1	Stem Cells: Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles (Adv. Healthcare Mater. 9/2015). <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1418-1418	10.1	