

Su-Hwan Kim

List of Publications by Year in Descending Order

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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.

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

#	Paper	IF	Citations
104	Light-Triggered In Situ Biosynthesis of Artificial Melanin for Skin Protection.. <i>Advanced Science</i> , 2022 , e2103503	13.6	2
103	A brief review of mRNA therapeutics and delivery for bone tissue engineering.. <i>RSC Advances</i> , 2022 , 12, 8889-8900	3.7	1
102	VEGF-overexpressed Human Tonsil-derived Mesenchymal Stem Cells with PEG/HA-based Cryogels for Therapeutic Angiogenesis. <i>Biotechnology and Bioprocess Engineering</i> , 2022 , 27, 17-29	3.1	0
101	Differential modulation of endothelial cytoplasmic protrusions after exposure to graphene-family nanomaterials.. <i>NanoImpact</i> , 2022 , 26, 100401	5.6	0
100	Meniscus regeneration with injectable Pluronic/PMMA-reinforced fibrin hydrogels in a rabbit segmental meniscectomy model. <i>Journal of Tissue Engineering</i> , 2021 , 12, 20417314211050141	7.5	3
99	Injectable Fibrin/Polyethylene Oxide Semi-IPN Hydrogel for a Segmental Meniscal Defect Regeneration. <i>American Journal of Sports Medicine</i> , 2021 , 49, 1538-1550	6.8	5
98	A Biphasic Osteovascular Biomimetic Scaffold for Rapid and Self-Sustained Endochondral Ossification. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100070	10.1	2
97	Novel enzymatic cross-linking-based hydrogel nanofilm caging system on pancreatic cell spheroid for long-term blood glucose regulation. <i>Science Advances</i> , 2021 , 7,	14.3	6
96	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> , 2021 , 9, 681501	5.8	3
95	Supercritical Fluid-Based Decellularization Technologies for Regenerative Medicine Applications. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100160	5.5	3
94	Recent advancements in enzyme-mediated crosslinkable hydrogels: -mimicking strategies. <i>APL Bioengineering</i> , 2021 , 5, 021502	6.6	9
93	Graphene oxide film guided skeletal muscle differentiation. <i>Materials Science and Engineering C</i> , 2021 , 126, 112174	8.3	3
92	A cell surface-reducing microenvironment induces early osteogenic commitment. <i>FEBS Letters</i> , 2021 , 595, 2147-2159	3.8	1
91	Enhancement of Wound Healing Efficacy by Increasing the Stability and Skin-Penetrating Property of bFGF Using 30Kc19E-Based Fusion Protein. <i>Advanced Biology</i> , 2021 , 5, e2000176		0
90	Partially Digested Osteoblast Cell Line-Derived Extracellular Matrix Induces Rapid Mineralization and Osteogenesis. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1134-1146	5.5	3
89	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> , 2021 , 126, 112172	8.3	3
88	Enhanced Neovascularization Using Injectable and rhVEGF-Releasing Cryogel Microparticles. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100234	5.5	0

87	Facilitated Transdermal Drug Delivery Using Nanocarriers-Embedded Electroconductive Hydrogel Coupled with Reverse Electrodialysis-Driven Iontophoresis. <i>ACS Nano</i> , 2020 , 14, 4523-4535	16.7	41
86	Bioinspired inorganic nanoparticles and vascular factor microenvironment directed neo-bone formation. <i>Biomaterials Science</i> , 2020 , 8, 2627-2637	7.4	2
85	Ectopic transient overexpression of facilitates BMP4-induced osteogenic transdifferentiation of human umbilical vein endothelial cells. <i>Journal of Tissue Engineering</i> , 2020 , 11, 2041731420909208	7.5	6
84	Sequential growth factor releasing double cryogel system for enhanced bone regeneration. <i>Biomaterials</i> , 2020 , 257, 120223	15.6	35
83	One Step Further in the Elucidation of the Crystallographic Structure of Whitlockite. <i>Crystal Growth and Design</i> , 2020 , 20, 2553-2561	3.5	10
82	Fabrication of polyphenol-incorporated anti-inflammatory hydrogel via high-affinity enzymatic crosslinking for wet tissue adhesion. <i>Biomaterials</i> , 2020 , 242, 119905	15.6	44
81	Inflammation-Modulating Hydrogels for Osteoarthritis Cartilage Tissue Engineering. <i>Cells</i> , 2020 , 9,	7.9	27
80	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> , 2020 , 121, 105717	5.6	3
79	Recent Advances in the Transdermal Delivery of Protein Therapeutics with a Combinatorial System of Chemical Adjuvants and Physical Penetration Enhancements. <i>Advanced Therapeutics</i> , 2020 , 3, 1900116	4.9	14
78	CRISPR-Cpf1 Activation of Endogenous Gene for Osteogenic Differentiation of Umbilical-Cord-Derived Mesenchymal Stem Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 17, 309-316	6.4	10
77	Injectable anti-inflammatory hyaluronic acid hydrogel for osteoarthritic cartilage repair. <i>Materials Science and Engineering C</i> , 2020 , 115, 111096	8.3	30
76	Enzyme-mediated one-pot synthesis of hydrogel with the polyphenol cross-linker for skin regeneration. <i>Materials Today Bio</i> , 2020 , 8, 100079	9.9	11
75	Osteoconductive hybrid hyaluronic acid hydrogel patch for effective bone formation. <i>Journal of Controlled Release</i> , 2020 , 327, 571-583	11.7	18
74	Intracellular Delivery of Recombinant RUNX2 Facilitated by Cell-Penetrating Protein for the Osteogenic Differentiation of hMSCs. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5202-5214	5.5	5
73	Programmable Nuclease-Based Integration into Novel Extragenic Genomic Safe Harbor Identified from Korean Population-Based CNV Analysis. <i>Molecular Therapy - Oncolytics</i> , 2019 , 14, 253-265	6.4	
72	A biofunctionalized viral delivery patch for spatially defined transfection. <i>Chemical Communications</i> , 2019 , 55, 2317-2320	5.8	4
71	Bioactive calcium phosphate materials and applications in bone regeneration. <i>Biomaterials Research</i> , 2019 , 23, 4	16.8	253
70	Gelatin-based micro-hydrogel carrying genetically engineered human endothelial cells for neovascularization. <i>Acta Biomaterialia</i> , 2019 , 95, 285-296	10.8	22

69	Magnetic Nanoparticle-Embedded Hydrogel Sheet with a Groove Pattern for Wound Healing Application. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3909-3921	5.5	16
68	Dual-Channel Fluorescence Imaging of Hydrogel Degradation and Tissue Regeneration in the Brain. <i>Theranostics</i> , 2019 , 9, 4255-4264	12.1	18
67	Osteogenic Effects of VEGF-Overexpressed Human Adipose-Derived Stem Cells with Whitlockite Reinforced Cryogel for Bone Regeneration. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800460	5.5	17
66	Recent Advances in Engineered Stem Cell-Derived Cell Sheets for Tissue Regeneration. <i>Polymers</i> , 2019 , 11,	4.5	12
65	Lysosome-Targeted Bioprobes for Sequential Cell Tracking from Macroscopic to Microscopic Scales. <i>Advanced Materials</i> , 2019 , 31, e1806216	24	14
64	Cardiac-mimetic cell-culture system for direct cardiac reprogramming. <i>Theranostics</i> , 2019 , 9, 6734-6744	12.1	8
63	Injectable angiogenic and osteogenic carrageenan nanocomposite hydrogel for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 320-328	7.9	43
62	Injectable chitosan-fibrin/nanocurcumin composite hydrogel for the enhancement of angiogenesis. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4873-4887	2.8	18
61	Heparin Functionalized Injectable Cryogel with Rapid Shape-Recovery Property for Neovascularization. <i>Biomacromolecules</i> , 2018 , 19, 2257-2269	6.9	43
60	General and Facile Coating of Single Cells via Mild Reduction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1199-1202	16.4	43
59	Regulation of lubricin for functional cartilage tissue regeneration: a review. <i>Biomaterials Research</i> , 2018 , 22, 9	16.8	18
58	Tissue adhesive, rapid forming, and sprayable ECM hydrogel via recombinant tyrosinase crosslinking. <i>Biomaterials</i> , 2018 , 178, 401-412	15.6	69
57	Optical spectroscopic imaging for cell therapy and tissue engineering. <i>Applied Spectroscopy Reviews</i> , 2018 , 53, 360-375	4.5	15
56	Enhanced osteogenic commitment of murine mesenchymal stem cells on graphene oxide substrate. <i>Biomaterials Research</i> , 2018 , 22, 1	16.8	64
55	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> , 2018 , 32, 575-581	2.3	5
54	Enzyme-mediated tissue adhesive hydrogels for meniscus repair. <i>International Journal of Biological Macromolecules</i> , 2018 , 110, 479-487	7.9	30
53	Biomaterials for Stem Cell Therapy for Cardiac Disease. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1064, 181-193	3.6	2
52	Mild Reduction of the Cancer Cell Surface as an Anti-invasion Treatment. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35676-35680	9.5	13

51	Recent Advancements in Decellularized Matrix-Based Biomaterials for Musculoskeletal Tissue Regeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1077, 149-162	3.6	4
50	Injectable in Situ Shape-Forming Osteogenic Nanocomposite Hydrogel for Regenerating Irregular Bone Defects.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1037-1046	4.1	16
49	Self-Healing and Adhesive Artificial Tissue Implant for Voice Recovery.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1134-1146	4.1	16
48	Bioglass-Incorporated Methacrylated Gelatin Cryogel for Regeneration of Bone Defects. <i>Polymers</i> , 2018 , 10,	4.5	36
47	Chondrogenically primed tonsil-derived mesenchymal stem cells encapsulated in riboflavin-induced photocrosslinking collagen-hyaluronic acid hydrogel for meniscus tissue repairs. <i>Acta Biomaterialia</i> , 2017 , 53, 318-328	10.8	40
46	Graphene oxide reinforced hydrogels for osteogenic differentiation of human adipose-derived stem cells. <i>RSC Advances</i> , 2017 , 7, 20779-20788	3.7	26
45	Transdermal iontophoresis patch with reverse electrodialysis. <i>Drug Delivery</i> , 2017 , 24, 701-706	7	12
44	Chondroitin Sulfate-Based Biomineralizing Surface Hydrogels for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21639-21650	9.5	78
43	Optical High Content Nanoscopy of Epigenetic Marks Decodes Phenotypic Divergence in Stem Cells. <i>Scientific Reports</i> , 2017 , 7, 39406	4.9	3
42	Hydrogel Functionalized Janus Membrane for Skin Regeneration. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600795	10.1	32
41	Enhanced Osteogenic Commitment of Human Mesenchymal Stem Cells on Polyethylene Glycol-Based Cryogel with Graphene Oxide Substrate. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2470-2479	5.5	9
40	Lineage Specific Differentiation of Magnetic Nanoparticle-Based Size Controlled Human Embryoid Body. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1719-1729	5.5	2
39	Bone Tissue Engineering: Biomimetic Materials and Fabrication Approaches for Bone Tissue Engineering (Adv. Healthcare Mater. 23/2017). <i>Advanced Healthcare Materials</i> , 2017 , 6, 1770120	10.1	4
38	Biomimetic Materials and Fabrication Approaches for Bone Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700612	10.1	113
37	Gelatin-based extracellular matrix cryogels for cartilage tissue engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 421-429	6.3	39
36	Biomimetic whitlockite inorganic nanoparticles-mediated in situ remodeling and rapid bone regeneration. <i>Biomaterials</i> , 2017 , 112, 31-43	15.6	82
35	Biomimetically Reinforced Polyvinyl Alcohol-Based Hybrid Scaffolds for Cartilage Tissue Engineering. <i>Polymers</i> , 2017 , 9,	4.5	20
34	Riboflavin-induced photo-crosslinking of collagen hydrogel and its application in meniscus tissue engineering. <i>Drug Delivery and Translational Research</i> , 2016 , 6, 148-58	6.2	57

33	In Vitro and In Vivo Evaluation of Whitlockite Biocompatibility: Comparative Study with Hydroxyapatite and Tricalcium Phosphate. <i>Advanced Healthcare Materials</i> , 2016 , 5, 128-36	10.1	78
32	High throughput approaches for controlled stem cell differentiation. <i>Acta Biomaterialia</i> , 2016 , 34, 21-29	10.8	12
31	Extracellular matrix-based cryogels for cartilage tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1410-1419	7.9	43
30	Biomedical therapy using synthetic WKYMVM hexapeptide. <i>Organogenesis</i> , 2016 , 12, 53-60	1.7	7
29	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> , 2016 , 104, 686-97	3.5	6
28	Injectable PLGA microspheres encapsulating WKYMVM peptide for neovascularization. <i>Acta Biomaterialia</i> , 2015 , 25, 76-85	10.8	16
27	Osteogenic priming of mesenchymal stem cells by chondrocyte-conditioned factors and mineralized matrix. <i>Cell and Tissue Research</i> , 2015 , 362, 115-26	4.2	4
26	Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1339-47	10.1	37
25	Extracellular-matrix-based and Arg-Gly-Asp-modified photopolymerizing hydrogels for cartilage tissue engineering. <i>Tissue Engineering - Part A</i> , 2015 , 21, 757-66	3.9	33
24	Stem Cells: Physical Stimuli-Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles (Adv. Healthcare Mater. 9/2015). <i>Advanced Healthcare Materials</i> , 2015 , 4, 1418-1418	10.1	
23	Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1258-66	3.5	9
22	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> , 2015 , 112, 15426-31	11.5	74
21	Induced myogenic commitment of human chondrocytes via non-viral delivery of minicircle DNA. <i>Journal of Controlled Release</i> , 2015 , 200, 212-21	11.7	6
20	Multifunctional cell-culture platform for aligned cell sheet monitoring, transfer printing, and therapy. <i>ACS Nano</i> , 2015 , 9, 2677-88	16.7	58
19	Injectable multifunctional microgel encapsulating outgrowth endothelial cells and growth factors for enhanced neovascularization. <i>Journal of Controlled Release</i> , 2014 , 187, 1-13	11.7	73
18	Umbilical-cord-blood-derived mesenchymal stem cells seeded onto fibronectin-immobilized polycaprolactone nanofiber improve cardiac function. <i>Acta Biomaterialia</i> , 2014 , 10, 3007-17	10.8	61
17	Biomaterials directed in vivo osteogenic differentiation of mesenchymal cells derived from human embryonic stem cells. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1723-32	3.9	41
16	Diffusion-mediated in situ alginate encapsulation of cell spheroids using microscale concave well and nanoporous membrane. <i>Lab on A Chip</i> , 2011 , 11, 1168-73	7.2	61

15	Regulation of osteogenic and chondrogenic differentiation of mesenchymal stem cells in PEG-ECM hydrogels. <i>Cell and Tissue Research</i> , 2011 , 344, 499-509	4.2	98
14	Cell-laden microengineered pullulan methacrylate hydrogels promote cell proliferation and 3D cluster formation. <i>Soft Matter</i> , 2011 , 7, 1903-1911	3.6	88
13	Application of stem cells for articular cartilage regeneration. <i>Journal of Knee Surgery</i> , 2009 , 22, 60-71	2.4	36
12	Chondroitin sulfate based niches for chondrogenic differentiation of mesenchymal stem cells. <i>Matrix Biology</i> , 2008 , 27, 12-21	11.4	289
11	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> , 2008 , 105, 20641-6	11.5	223
10	Controlled differentiation of stem cells. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 199-214	18.5	261
9	Derivation of chondrogenically-committed cells from human embryonic cells for cartilage tissue regeneration. <i>PLoS ONE</i> , 2008 , 3, e2498	3.7	104
8	Morphogenetic signals from chondrocytes promote chondrogenic and osteogenic differentiation of mesenchymal stem cells. <i>Journal of Cellular Physiology</i> , 2007 , 212, 281-4	7	105
7	Response of zonal chondrocytes to extracellular matrix-hydrogels. <i>FEBS Letters</i> , 2007 , 581, 4172-8	3.8	73
6	Cartilage tissue engineering: Directed differentiation of embryonic stem cells in three-dimensional hydrogel culture. <i>Methods in Molecular Biology</i> , 2007 , 407, 351-73	1.4	47
5	Effects of three-dimensional culture and growth factors on the chondrogenic differentiation of murine embryonic stem cells. <i>Stem Cells</i> , 2006 , 24, 284-91	5.8	211
4	Chondrogenic differentiation of human embryonic stem cell-derived cells in arginine-glycine-aspartate-modified hydrogels. <i>Tissue Engineering</i> , 2006 , 12, 2695-706		238
3	Enhanced chondrogenic differentiation of murine embryonic stem cells in hydrogels with glucosamine. <i>Biomaterials</i> , 2006 , 27, 6015-23	15.6	100
2	Tyrosinase-mediated hydrogel crosslinking for tissue engineering. <i>Journal of Applied Polymer Science</i> , 51887	2.9	5
1	3D Microphysiological System-Inspired Scalable Vascularized Tissue Constructs for Regenerative Medicine. <i>Advanced Functional Materials</i> , 2105475	15.6	1