

Seung-Woo Cho

List of Publications by Year in descending order

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189
papers

10,276
citations

28190

55
h-index

40881

93
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200
all docs

200
docs citations

200
times ranked

13715
citing authors

#	ARTICLE	IF	CITATIONS
1	Combinatorial development of biomaterials for clonal growth of human pluripotent stem cells. <i>Nature Materials</i> , 2010, 9, 768-778.	13.3	504
2	Tissue Adhesive Catechol-Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. <i>Advanced Functional Materials</i> , 2015, 25, 3814-3824.	7.8	351
3	Angiogenesis in ischemic tissue produced by spheroid grafting of human adipose-derived stromal cells. <i>Biomaterials</i> , 2011, 32, 2734-2747.	5.7	327
4	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. <i>Biomaterials</i> , 2012, 33, 6952-6964.	5.7	311
5	Genetic engineering of human stem cells for enhanced angiogenesis using biodegradable polymeric nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3317-3322.	3.3	278
6	Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pH-Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering. <i>Advanced Functional Materials</i> , 2013, 23, 1774-1780.	7.8	246
7	Bioinspired, Calcium-Free Alginate Hydrogels with Tunable Physical and Mechanical Properties and Improved Biocompatibility. <i>Biomacromolecules</i> , 2013, 14, 2004-2013.	2.6	242
8	Implantation of bone marrow mononuclear cells using injectable fibrin matrix enhances neovascularization in infarcted myocardium. <i>Biomaterials</i> , 2005, 26, 319-326.	5.7	214
9	Small-Diameter Blood Vessels Engineered With Bone Marrow-Derived Cells. <i>Annals of Surgery</i> , 2005, 241, 506-515.	2.1	213
10	Mechano-active tissue engineering of vascular smooth muscle using pulsatile perfusion bioreactors and elastic PLCL scaffolds. <i>Biomaterials</i> , 2005, 26, 1405-1411.	5.7	203
11	Targeting protein and peptide therapeutics to the heart via tannic acid modification. <i>Nature Biomedical Engineering</i> , 2018, 2, 304-317.	11.6	202
12	Liver Extracellular Matrix Providing Dual Functions of Two-Dimensional Substrate Coating and Three-Dimensional Injectable Hydrogel Platform for Liver Tissue Engineering. <i>Biomacromolecules</i> , 2014, 15, 206-218.	2.6	199
13	Polydopamine-Assisted Osteoinductive Peptide Immobilization of Polymer Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. <i>Biomacromolecules</i> , 2013, 14, 3202-3213.	2.6	196
14	Improvement of Postnatal Neovascularization by Human Embryonic Stem Cell-Derived Endothelial-Like Cell Transplantation in a Mouse Model of Hindlimb Ischemia. <i>Circulation</i> , 2007, 116, 2409-2419.	1.6	190
15	Microfluidic device with brain extracellular matrix promotes structural and functional maturation of human brain organoids. <i>Nature Communications</i> , 2021, 12, 4730.	5.8	164
16	Nanotopographical Manipulation of Focal Adhesion Formation for Enhanced Differentiation of Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10529-10540.	4.0	155
17	Three-Dimensional Electroconductive Hyaluronic Acid Hydrogels Incorporated with Carbon Nanotubes and Polypyrrole by Catechol-Mediated Dispersion Enhance Neurogenesis of Human Neural Stem Cells. <i>Biomacromolecules</i> , 2017, 18, 3060-3072.	2.6	144
18	Engineering of volume-stable adipose tissues. <i>Biomaterials</i> , 2005, 26, 3577-3585.	5.7	134

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19	Polypyrrole/Alginate Hybrid Hydrogels: Electrically Conductive and Soft Biomaterials for Human Mesenchymal Stem Cell Culture and Potential Neural Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , 2016, 16, 1653-1661.	2.1	133
20	Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. <i>ACS Nano</i> , 2014, 8, 7809-7822.	7.3	132
21	Painting blood vessels and atherosclerotic plaques with an adhesive drug depot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21444-21449.	3.3	117
22	Electrospun Silk Fibroin Nanofibrous Scaffolds with Two-Stage Hydroxyapatite Functionalization for Enhancing the Osteogenic Differentiation of Human Adipose-Derived Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7614-7625.	4.0	117
23	High-resolution acoustophoretic 3D cell patterning to construct functional collateral cylindroids for ischemia therapy. <i>Nature Communications</i> , 2018, 9, 5402.	5.8	116
24	The effect of cyclic strain on embryonic stem cell-derived cardiomyocytes. <i>Biomaterials</i> , 2008, 29, 844-856.	5.7	114
25	Catechol-Functionalized Hyaluronic Acid Hydrogels Enhance Angiogenesis and Osteogenesis of Human Adipose-Derived Stem Cells in Critical Tissue Defects. <i>Biomacromolecules</i> , 2016, 17, 1939-1948.	2.6	113
26	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , 2013, 34, 7236-7246.	5.7	109
27	Tissue extracellular matrix hydrogels as alternatives to Matrigel for culturing gastrointestinal organoids. <i>Nature Communications</i> , 2022, 13, 1692.	5.8	101
28	Enhancement of adipose tissue formation by implantation of adipogenic-differentiated preadipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 588-594.	1.0	100
29	Vascularized Liver Organoids Generated Using Induced Hepatic Tissue and Dynamic Liver-Specific Microenvironment as a Drug Testing Platform. <i>Advanced Functional Materials</i> , 2018, 28, 1801954.	7.8	100
30	Tissue Tapes-Phenolic Hyaluronic Acid Hydrogel Patches for Off-the-Shelf Therapy. <i>Advanced Functional Materials</i> , 2019, 29, 1903863.	7.8	97
31	Gastrointestinal tract modeling using organoids engineered with cellular and microbiota niches. <i>Experimental and Molecular Medicine</i> , 2020, 52, 227-237.	3.2	96
32	Gene delivery to human adult and embryonic cell-derived stem cells using biodegradable nanoparticulate polymeric vectors. <i>Gene Therapy</i> , 2009, 16, 533-546.	2.3	95
33	Paper-based bioactive scaffolds for stem cell-mediated bone tissue engineering. <i>Biomaterials</i> , 2014, 35, 9811-9823.	5.7	93
34	Triboelectric Nanogenerator Accelerates Highly Efficient Nonviral Direct Conversion and In Vivo Reprogramming of Fibroblasts to Functional Neuronal Cells. <i>Advanced Materials</i> , 2016, 28, 7365-7374.	11.1	90
35	Three-dimensional brain-like microenvironments facilitate the direct reprogramming of fibroblasts into therapeutic neurons. <i>Nature Biomedical Engineering</i> , 2018, 2, 522-539.	11.6	86
36	Vascular patches tissue-engineered with autologous bone marrow-derived cells and decellularized tissue matrices. <i>Biomaterials</i> , 2005, 26, 1915-1924.	5.7	85

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37	A serotonin-modified hyaluronic acid hydrogel for multifunctional hemostatic adhesives inspired by a platelet coagulation mediator. <i>Materials Horizons</i> , 2019, 6, 1169-1178.	6.4	83
38	Fungal brain infection modelled in a human-neurovascular-unit-on-a-chip with a functional blood-brain barrier. <i>Nature Biomedical Engineering</i> , 2021, 5, 830-846.	11.6	83
39	Single-Droplet Multiplex Bioassay on a Robust and Stretchable Extreme Wetting Substrate through Vacuum-Based Droplet Manipulation. <i>ACS Nano</i> , 2018, 12, 932-941.	7.3	82
40	Graphene Oxide Hierarchical Patterns for the Derivation of Electrophysiologically Functional Neuron-like Cells from Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17763-17774.	4.0	81
41	Switchable Water-Adhesive, Superhydrophobic Palladium-Layered Silicon Nanowires Potentiate the Angiogenic Efficacy of Human Stem Cell Spheroids. <i>Advanced Materials</i> , 2014, 26, 7043-7050.	11.1	73
42	Locally Delivered Growth Factor Enhances the Angiogenic Efficacy of Adipose-Derived Stromal Cells Transplanted to Ischemic Limbs. <i>Stem Cells</i> , 2009, 27, 1976-1986.	1.4	72
43	Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. <i>Nanoscale</i> , 2017, 9, 18737-18752.	2.8	72
44	Facile Synthetic Route for Surface-Functionalized Magnetic Nanoparticles: Cell Labeling and Magnetic Resonance Imaging Studies. <i>ACS Nano</i> , 2011, 5, 4329-4336.	7.3	71
45	Combinatorial Extracellular Matrices for Human Embryonic Stem Cell Differentiation in 3D. <i>Biomacromolecules</i> , 2010, 11, 1909-1914.	2.6	68
46	Ascidian-Inspired Fast-Forming Hydrogel System for Versatile Biomedical Applications: Pyrogallol Chemistry for Dual Modes of Crosslinking Mechanism. <i>Advanced Functional Materials</i> , 2018, 28, 1705244.	7.8	68
47	Mapping the Interactions among Biomaterials, Adsorbed Proteins, and Human Embryonic Stem Cells. <i>Advanced Materials</i> , 2009, 21, 2781-2786.	11.1	67
48	Recapitulation of in vivo-like paracrine signals of human mesenchymal stem cells for functional neuronal differentiation of human neural stem cells in a 3D microfluidic system. <i>Biomaterials</i> , 2015, 63, 177-188.	5.7	67
49	Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. <i>Scientific Reports</i> , 2015, 5, 12326.	1.6	65
50	Nonviral delivery of genetic medicine for therapeutic angiogenesis. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 40-52.	6.6	64
51	Angiogenesis Facilitated by Autologous Whole Bone Marrow Stem Cell Transplantation for Buerger's Disease. <i>Stem Cells</i> , 2006, 24, 1194-1200.	1.4	63
52	Three-dimensional extracellular matrix-mediated neural stem cell differentiation in a microfluidic device. <i>Lab on A Chip</i> , 2012, 12, 2305.	3.1	61
53	Bio-inspired oligovitronectin-grafted surface for enhanced self-renewal and long-term maintenance of human pluripotent stem cells under feeder-free conditions. <i>Biomaterials</i> , 2015, 50, 127-139.	5.7	59
54	Reconstituting Vascular Microenvironment of Neural Stem Cell Niche in Three-Dimensional Extracellular Matrix. <i>Advanced Healthcare Materials</i> , 2014, 3, 1457-1464.	3.9	58

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55	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. <i>Chemistry of Materials</i> , 2017, 29, 4375-4384.	3.2	56
56	A Phenol-amine Superglue Inspired by Insect Sclerotization Process. <i>Advanced Materials</i> , 2020, 32, e2002118.	11.1	55
57	Significant improvement in cell adhesion and wear resistance of biomedical β -type titanium alloy through ultrasonic nanocrystal surface modification. <i>Journal of Alloys and Compounds</i> , 2018, 762, 941-949.	2.8	54
58	Biodegradable Nanotopography Combined with Neurotrophic Signals Enhances Contact Guidance and Neuronal Differentiation of Human Neural Stem Cells. <i>Macromolecular Bioscience</i> , 2015, 15, 1348-1356.	2.1	53
59	Sonic hedgehog intradermal gene therapy using a biodegradable poly(β -amino esters) nanoparticle to enhance wound healing. <i>Biomaterials</i> , 2012, 33, 9148-9156.	5.7	51
60	Osteoconductive hybrid hyaluronic acid hydrogel patch for effective bone formation. <i>Journal of Controlled Release</i> , 2020, 327, 571-583.	4.8	51
61	Bio-artificial tongue with tongue extracellular matrix and primary taste cells. <i>Biomaterials</i> , 2018, 151, 24-37.	5.7	49
62	Engineered Adipose Tissue Formation Enhanced by Basic Fibroblast Growth Factor and a Mechanically Stable Environment. <i>Cell Transplantation</i> , 2007, 16, 421-434.	1.2	47
63	Enhancement of in vivo endothelialization of tissue-engineered vascular grafts by granulocyte colony-stimulating factor. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 252-263.	2.1	46
64	Enhancement of the osteogenic efficacy of osteoblast transplantation by the sustained delivery of basic fibroblast growth factor. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006, 79B, 353-359.	1.6	46
65	Mussel-Inspired Cell-Adhesion Peptide Modification for Enhanced Endothelialization of Decellularized Blood Vessels. <i>Macromolecular Bioscience</i> , 2014, 14, 1181-1189.	2.1	46
66	Lipid-Like Nanoparticles for Small Interfering RNA Delivery to Endothelial Cells. <i>Advanced Functional Materials</i> , 2009, 19, 3112-3118.	7.8	45
67	Three-Dimensional Cell Grafting Enhances the Angiogenic Efficacy of Human Umbilical Vein Endothelial Cells. <i>Tissue Engineering - Part A</i> , 2012, 18, 310-319.	1.6	44
68	A microfluidic array for quantitative analysis of human neural stem cell self-renewal and differentiation in three-dimensional hypoxic microenvironment. <i>Biomaterials</i> , 2013, 34, 6607-6614.	5.7	44
69	Tissue-Adhesive Chondroitin Sulfate Hydrogel for Cartilage Reconstruction. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4230-4243.	2.6	43
70	Smooth muscle-like tissues engineered with bone marrow stromal cells. <i>Biomaterials</i> , 2004, 25, 2979-2986.	5.7	42
71	Basic fibroblast growth factor promotes bone marrow stromal cell transplantation-mediated neural regeneration in traumatic brain injury. <i>Biochemical and Biophysical Research Communications</i> , 2007, 359, 40-45.	1.0	42
72	A Novel Family of Biodegradable Poly(ester amide) Elastomers. <i>Advanced Materials</i> , 2011, 23, H95-100.	11.1	41

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73	Thermo-responsive polymeric nanoparticles for enhancing neuronal differentiation of human induced pluripotent stem cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1861-1869.	1.7	40
74	Functional Skeletal Muscle Regeneration with Thermally Drawn Porous Fibers and Reprogrammed Muscle Progenitors for Volumetric Muscle Injury. <i>Advanced Materials</i> , 2021, 33, e2007946.	11.1	40
75	Aligned Brain Extracellular Matrix Promotes Differentiation and Myelination of Human-Induced Pluripotent Stem Cell-Derived Oligodendrocytes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15344-15353.	4.0	39
76	Organoid engineering with microfluidics and biomaterials for liver, lung disease, and cancer modeling. <i>Acta Biomaterialia</i> , 2021, 132, 37-51.	4.1	39
77	Evidence for <i>In Vivo</i> Growth Potential and Vascular Remodeling of Tissue-Engineered Artery. <i>Tissue Engineering - Part A</i> , 2009, 15, 901-912.	1.6	38
78	Therapeutic angiogenesis using genetically engineered human endothelial cells. <i>Journal of Controlled Release</i> , 2012, 160, 515-524.	4.8	38
79	Diving beetle-like miniaturized plungers with reversible, rapid biofluid capturing for machine learning-based care of skin disease. <i>Science Advances</i> , 2021, 7, .	4.7	36
80	Multiphoton luminescent graphene quantum dots for in vivo tracking of human adipose-derived stem cells. <i>Nanoscale</i> , 2016, 8, 8512-8519.	2.8	35
81	In Situ Self-Cross-Linkable, Long-Term Stable Hyaluronic Acid Filler by Gallol Autoxidation for Tissue Augmentation and Wrinkle Correction. <i>Chemistry of Materials</i> , 2019, 31, 9614-9624.	3.2	35
82	Enhancement of Angiogenic Efficacy of Human Cord Blood Cell Transplantation. <i>Tissue Engineering</i> , 2006, 12, 1651-1661.	4.9	34
83	Nanostructured Tendon-Derived Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22819-22829.	4.0	33
84	Preliminary experience with tissue engineering of a venous vascular patch by using bone marrow-derived cells and a hybrid biodegradable polymer scaffold. <i>Journal of Vascular Surgery</i> , 2006, 44, 1329-1340.	0.6	32
85	Electrochemical deposition of dopamine-hyaluronic acid conjugates for anti-biofouling bioelectrodes. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4507-4513.	2.9	32
86	Tissue engineering of heart valves by recellularization of glutaraldehyde-fixed porcine valves using bone marrow-derived cells. <i>Experimental and Molecular Medicine</i> , 2006, 38, 273-283.	3.2	31
87	Liver tissue engineering: Recent advances in the development of a bio-artificial liver. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 427-438.	1.4	31
88	Photoactive Poly(3-hexylthiophene) Nanoweb for Optoelectrical Stimulation to Enhance Neurogenesis of Human Stem Cells. <i>Theranostics</i> , 2017, 7, 4591-4604.	4.6	31
89	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33891-33900.	4.0	31
90	Tissue Beads: Tissue-specific Extracellular Matrix Microbeads to Potentiate Reprogrammed Cell-based Therapy. <i>Advanced Functional Materials</i> , 2019, 29, 1807803.	7.8	31

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91	A Surface-Tailoring Method for Rapid Non-Thermosensitive Cell Sheet Engineering via Functional Polymer Coatings. <i>Advanced Materials</i> , 2020, 32, e1907225.	11.1	31
92	Tissue-engineered blood vessels with endothelial nitric oxide synthase activity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 85B, 537-546.	1.6	30
93	In Situ Bone Tissue Engineering With an Endogenous Stem Cell Mobilizer and Osteoinductive Nanofibrous Polymeric Scaffolds. <i>Biotechnology Journal</i> , 2017, 12, 1700062.	1.8	30
94	Synthesis of electroconductive hydrogel films by an electro-controlled click reaction and their application to drug delivery systems. <i>Polymer Chemistry</i> , 2015, 6, 4473-4478.	1.9	29
95	High-density lipoprotein-mimicking nanodiscs carrying peptide for enhanced therapeutic angiogenesis in diabetic hindlimb ischemia. <i>Biomaterials</i> , 2018, 161, 69-80.	5.7	29
96	Biodegradable Nerve Guidance Conduit with Microporous and Micropatterned Poly(lactide-co-glycolic acid)-Accelerated Sciatic Nerve Regeneration. <i>Macromolecular Bioscience</i> , 2018, 18, e1800290.	2.1	29
97	Kidney Tissue Reconstruction by Fetal Kidney Cell Transplantation: Effect of Gestation Stage of Fetal Kidney Cells. <i>Stem Cells</i> , 2007, 25, 1393-1401.	1.4	28
98	Intragenic CpG islands play important roles in bivalent chromatin assembly of developmental genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1885-E1894.	3.3	27
99	Tissue Engineering of Heart Valves In Vivo Using Bone Marrow-derived Cells. <i>Artificial Organs</i> , 2006, 30, 554-557.	1.0	26
100	A high throughput micro-array system of polymer surfaces for the manipulation of primary pancreatic islet cells. <i>Biomaterials</i> , 2010, 31, 8989-8995.	5.7	26
101	Hepatocyte Cytotoxicity Evaluation with Zinc Oxide Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 926-929.	0.5	26
102	Inhibition of hepatitis C virus in mouse models by lipidoid nanoparticle-mediated systemic delivery of siRNA against PRK2. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1489-1498.	1.7	26
103	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.	5.2	25
104	Mechanically-reinforced and highly adhesive decellularized tissue-derived hydrogel for efficient tissue repair. <i>Chemical Engineering Journal</i> , 2022, 427, 130926.	6.6	25
105	Granulocyte colony-stimulating factor treatment enhances the efficacy of cellular cardiomyoplasty with transplantation of embryonic stem cell-derived cardiomyocytes in infarcted myocardium. <i>Biochemical and Biophysical Research Communications</i> , 2006, 340, 573-582.	1.0	24
106	Spheroform: Therapeutic Spheroid-Forming Nanotextured Surfaces Inspired by Desert Beetle <i>Physosterna cribripes</i> . <i>Advanced Healthcare Materials</i> , 2015, 4, 511-515.	3.9	24
107	Bioengineered Extracellular Membranous Nanovesicles for Efficient Small-Interfering RNA Delivery: Versatile Platforms for Stem Cell Engineering and In Vivo Delivery. <i>Advanced Functional Materials</i> , 2016, 26, 5804-5817.	7.8	24
108	Graded functionalization of biomaterial surfaces using mussel-inspired adhesive coating of polydopamine. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 546-556.	2.5	23

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109	Highly durable and biocompatible periodical Si/DLC nanocomposite coatings. <i>Nanoscale</i> , 2018, 10, 4852-4860.	2.8	23
110	Effects of a Catechol-Functionalized Hyaluronic Acid Patch Combined with Human Adipose-Derived Stem Cells in Diabetic Wound Healing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2632.	1.8	23
111	Photoactivation of Noncovalently Assembled Peptide Ligands on Carbon Nanotubes Enables the Dynamic Regulation of Stem Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26470-26481.	4.0	22
112	Magnetic Control of Axon Navigation in Reprogrammed Neurons. <i>Nano Letters</i> , 2019, 19, 6517-6523.	4.5	22
113	Organoids for Advanced Therapeutics and Disease Models. <i>Advanced Therapeutics</i> , 2019, 2, 1800087.	1.6	22
114	Inhibition of Hepatitis C Virus in Mice by a Small Interfering RNA Targeting a Highly Conserved Sequence in Viral IRES Pseudoknot. <i>PLoS ONE</i> , 2016, 11, e0146710.	1.1	22
115	Reconstruction of Muscle Fascicle-Like Tissues by Anisotropic 3D Patterning. <i>Advanced Functional Materials</i> , 2021, 31, 2006227.	7.8	21
116	Cell-permeable mitochondrial ubiquinol-cytochrome c reductase binding protein induces angiogenesis in vitro and in vivo. <i>Cancer Letters</i> , 2015, 366, 52-60.	3.2	20
117	Hyaluronic Acid-based Biomimetic Hydrogels for Tissue Engineering and Medical Applications. <i>Biotechnology and Bioprocess Engineering</i> , 2021, 26, 503-516.	1.4	20
118	Combined therapy with human cord blood cell transplantation and basic fibroblast growth factor delivery for treatment of myocardial infarction. <i>European Journal of Heart Failure</i> , 2007, 9, 974-985.	2.9	19
119	Therapeutic angiogenesis by a myoblast layer harvested by tissue transfer printing from cell-adhesive, thermosensitive hydrogels. <i>Biomaterials</i> , 2013, 34, 8258-8268.	5.7	19
120	Genetically Engineered Myoblast Sheet for Therapeutic Angiogenesis. <i>Biomacromolecules</i> , 2014, 15, 361-372.	2.6	19
121	Enhanced Self-Renewal and Accelerated Differentiation of Human Fetal Neural Stem Cells Using Graphene Oxide Nanoparticles. <i>Macromolecular Bioscience</i> , 2017, 17, 1600540.	2.1	19
122	Decellularized Tissue Matrix for Stem Cell and Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1064, 161-180.	0.8	18
123	Autologous bone marrow cell transplantation combined with off-pump coronary artery bypass grafting in patients with ischemic cardiomyopathy. <i>Canadian Journal of Surgery</i> , 2008, 51, 269-75.	0.5	18
124	Shape Control of Cellulose Nanocrystals via Compositional Acid Hydrolysis. <i>Journal of Biomedical Nanotechnology</i> , 2013, 9, 1293-1298.	0.5	17
125	Strong contact coupling of neuronal growth cones with height-controlled vertical silicon nanocolumns. <i>Nano Research</i> , 2018, 11, 2532-2543.	5.8	17
126	Evolutionarily conserved sequence motif analysis guides development of chemically defined hydrogels for therapeutic vascularization. <i>Science Advances</i> , 2020, 6, eaaz5894.	4.7	17

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127	Stem Cell Therapy in Patients with Thromboangiitis Obliterans: Assessment of the Long-Term Clinical Outcome and Analysis of the Prognostic Factors. <i>International Journal of Stem Cells</i> , 2011, 4, 88-98.	0.8	17
128	Exceptional improvement in the wear resistance of biomedical β -type titanium alloy with the use of a biocompatible multilayer Si/DLC nanocomposite coating. <i>Ceramics International</i> , 2022, 48, 17376-17384.	2.3	17
129	Implantable microfluidic device for the formation of three-dimensional vasculature by human endothelial progenitor cells. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 379-385.	1.4	16
130	Surface Chemistry of Vitamin: Pyridoxal 5-phosphate (Vitamin B ₆) as a Multifunctional Compound for Surface Functionalization. <i>Advanced Functional Materials</i> , 2015, 25, 4754-4760.	7.8	16
131	Ferritin nanoparticles for improved self-renewal and differentiation of human neural stem cells. <i>Biomaterials Research</i> , 2018, 22, 5.	3.2	16
132	Delivery of small interfering RNA for inhibition of endothelial cell apoptosis by hypoxia and serum deprivation. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 158-163.	1.0	15
133	Nonviral delivery for reprogramming to pluripotency and differentiation. <i>Archives of Pharmacal Research</i> , 2014, 37, 107-119.	2.7	15
134	Galactosylated Lipidoid Nanoparticles for Delivery of Small Interfering RNA to Inhibit Hepatitis C Viral Replication In Vivo. <i>Advanced Healthcare Materials</i> , 2016, 5, 2931-2941.	3.9	15
135	Vertical Nanowire Electrode Array for Enhanced Neurogenesis of Human Neural Stem Cells via Intracellular Electrical Stimulation. <i>Nano Letters</i> , 2021, 21, 6343-6351.	4.5	15
136	DNA-mediated self-assembly of taste cells and neurons for taste signal transmission. <i>Biomaterials Science</i> , 2018, 6, 3388-3396.	2.6	14
137	Immunomodulatory Scaffolds Derived from Lymph Node Extracellular Matrices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14037-14049.	4.0	14
138	Biomimetic Polymer Scaffolds to Promote Stem Cell-Mediated Osteogenesis. <i>International Journal of Stem Cells</i> , 2013, 6, 87-91.	0.8	14
139	Enhanced bone formation by marrow-derived endothelial and osteogenic cell transplantation. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 246-253.	2.1	13
140	A Light-Driven Anti-Cancer Dual-Therapeutic Cassette Enhances Solid Tumour Regression. <i>Advanced Healthcare Materials</i> , 2013, 2, 1252-1258.	3.9	13
141	A Fluorescent Tile DNA Diagnocode System for In Situ Rapid and Selective Diagnosis of Cytosolic RNA Cancer Markers. <i>Scientific Reports</i> , 2015, 5, 18497.	1.6	13
142	Inhibitory effects of mesenchymal stem cells in intimal hyperplasia after balloon angioplasty. <i>Journal of Vascular Surgery</i> , 2016, 63, 510-517.	0.6	13
143	Microchannel system for rate-controlled, sequential, and pH-responsive drug delivery. <i>Acta Biomaterialia</i> , 2018, 68, 249-260.	4.1	13
144	Regeneration of irradiation-damaged esophagus by local delivery of mesenchymal stem-cell spheroids encapsulated in a hyaluronic-acid-based hydrogel. <i>Biomaterials Science</i> , 2021, 9, 2197-2208.	2.6	13

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145	HEK 293 cell suspension culture using fibronectin-adsorbed polymer nanospheres in serum-free medium. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71A, 128-133.	3.0	12
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