Seung-Woo Cho

List of Publications by Year in descending order

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189 papers 10,276 citations

28274 55 h-index 93 g-index

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. Nature Materials, 2010, 9, 768-778.	27.5	504
2	Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. Advanced Functional Materials, 2015, 25, 3814-3824.	14.9	351
3	Angiogenesis in ischemic tissue produced by spheroid grafting of human adipose-derived stromal cells. Biomaterials, 2011, 32, 2734-2747.	11.4	327
4	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. Biomaterials, 2012, 33, 6952-6964.	11.4	311
5	Genetic engineering of human stem cells for enhanced angiogenesis using biodegradable polymeric nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3317-3322.	7.1	278
6	Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pHâ€Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering. Advanced Functional Materials, 2013, 23, 1774-1780.	14.9	246
7	Bioinspired, Calcium-Free Alginate Hydrogels with Tunable Physical and Mechanical Properties and Improved Biocompatibility. Biomacromolecules, 2013, 14, 2004-2013.	5.4	242
8	Implantation of bone marrow mononuclear cells using injectable fibrin matrix enhances neovascularization in infarcted myocardium. Biomaterials, 2005, 26, 319-326.	11.4	214
9	Small-Diameter Blood Vessels Engineered With Bone Marrow–Derived Cells. Annals of Surgery, 2005, 241, 506-515.	4.2	213
10	Mechano-active tissue engineering of vascular smooth muscle using pulsatile perfusion bioreactors and elastic PLCL scaffolds. Biomaterials, 2005, 26, 1405-1411.	11.4	203
11	Targeting protein and peptide therapeutics to the heart via tannic acid modification. Nature Biomedical Engineering, 2018, 2, 304-317.	22.5	202
12	Liver Extracellular Matrix Providing Dual Functions of Two-Dimensional Substrate Coating and Three-Dimensional Injectable Hydrogel Platform for Liver Tissue Engineering. Biomacromolecules, 2014, 15, 206-218.	5.4	199
13	Polydopamine-Assisted Osteoinductive Peptide Immobilization of Polymer Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. Biomacromolecules, 2013, 14, 3202-3213.	5.4	196
14	Improvement of Postnatal Neovascularization by Human Embryonic Stem Cell–Derived Endothelial-Like Cell Transplantation in a Mouse Model of Hindlimb Ischemia. Circulation, 2007, 116, 2409-2419.	1.6	190
15	Microfluidic device with brain extracellular matrix promotes structural and functional maturation of human brain organoids. Nature Communications, 2021, 12, 4730.	12.8	164
16	Nanotopographical Manipulation of Focal Adhesion Formation for Enhanced Differentiation of Human Neural Stem Cells. ACS Applied Materials & Samp; Interfaces, 2013, 5, 10529-10540.	8.0	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. Biomacromolecules, 2017, 18, 3060-3072.	5.4	144
18	Engineering of volume-stable adipose tissues. Biomaterials, 2005, 26, 3577-3585.	11.4	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. Macromolecular Bioscience, 2016, 16, 1653-1661.	4.1	133
20	Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. ACS Nano, 2014, 8, 7809-7822.	14.6	132
21	Painting blood vessels and atherosclerotic plaques with an adhesive drug depot. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21444-21449.	7.1	117
22	Electrospun Silk Fibroin Nanofibrous Scaffolds with Two-Stage Hydroxyapatite Functionalization for Enhancing the Osteogenic Differentiation of Human Adipose-Derived Mesenchymal Stem Cells. ACS Applied Materials & Diterfaces, 2018, 10, 7614-7625.	8.0	117
23	High-resolution acoustophoretic 3D cell patterning to construct functional collateral cylindroids for ischemia therapy. Nature Communications, 2018, 9, 5402.	12.8	116
24	The effect of cyclic strain on embryonic stem cell-derived cardiomyocytes. Biomaterials, 2008, 29, 844-856.	11.4	114
25	Catechol-Functionalized Hyaluronic Acid Hydrogels Enhance Angiogenesis and Osteogenesis of Human Adipose-Derived Stem Cells in Critical Tissue Defects. Biomacromolecules, 2016, 17, 1939-1948.	5 . 4	113
26	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. Biomaterials, 2013, 34, 7236-7246.	11.4	109
27	Tissue extracellular matrix hydrogels as alternatives to Matrigel for culturing gastrointestinal organoids. Nature Communications, 2022, 13, 1692.	12.8	101
28	Enhancement of adipose tissue formation by implantation of adipogenic-differentiated preadipocytes. Biochemical and Biophysical Research Communications, 2006, 345, 588-594.	2.1	100
29	Vascularized Liver Organoids Generated Using Induced Hepatic Tissue and Dynamic Liverâ€Specific Microenvironment as a Drug Testing Platform. Advanced Functional Materials, 2018, 28, 1801954.	14.9	100
30	Tissue Tapesâ€"Phenolic Hyaluronic Acid Hydrogel Patches for Offâ€theâ€Shelf Therapy. Advanced Functional Materials, 2019, 29, 1903863.	14.9	97
31	Gastrointestinal tract modeling using organoids engineered with cellular and microbiota niches. Experimental and Molecular Medicine, 2020, 52, 227-237.	7.7	96
32	Gene delivery to human adult and embryonic cell-derived stem cells using biodegradable nanoparticulate polymeric vectors. Gene Therapy, 2009, 16, 533-546.	4.5	95
33	Paper-based bioactive scaffolds for stem cell-mediated bone tissue engineering. Biomaterials, 2014, 35, 9811-9823.	11.4	93
34	Triboelectric Nanogenerator Accelerates Highly Efficient Nonviral Direct Conversion and In Vivo Reprogramming of Fibroblasts to Functional Neuronal Cells. Advanced Materials, 2016, 28, 7365-7374.	21.0	90
35	Three-dimensional brain-like microenvironments facilitate the direct reprogramming of fibroblasts into therapeutic neurons. Nature Biomedical Engineering, 2018, 2, 522-539.	22.5	86
36	Vascular patches tissue-engineered with autologous bone marrow-derived cells and decellularized tissue matrices. Biomaterials, 2005, 26, 1915-1924.	11.4	85

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37	A serotonin-modified hyaluronic acid hydrogel for multifunctional hemostatic adhesives inspired by a platelet coagulation mediator. Materials Horizons, 2019, 6, 1169-1178.	12.2	83
38	Fungal brain infection modelled in a human-neurovascular-unit-on-a-chip with a functional blood–brain barrier. Nature Biomedical Engineering, 2021, 5, 830-846.	22.5	83
39	Single-Droplet Multiplex Bioassay on a Robust and Stretchable Extreme Wetting Substrate through Vacuum-Based Droplet Manipulation. ACS Nano, 2018, 12, 932-941.	14.6	82
40	Graphene Oxide Hierarchical Patterns for the Derivation of Electrophysiologically Functional Neuron-like Cells from Human Neural Stem Cells. ACS Applied Materials & Samp; Interfaces, 2016, 8, 17763-17774.	8.0	81
41	Switchable Waterâ€Adhesive, Superhydrophobic Palladiumâ€Layered Silicon Nanowires Potentiate the Angiogenic Efficacy of Human Stem Cell Spheroids. Advanced Materials, 2014, 26, 7043-7050.	21.0	73
42	Locally Delivered Growth Factor Enhances the Angiogenic Efficacy of Adipose-Derived Stromal Cells Transplanted to Ischemic Limbs. Stem Cells, 2009, 27, 1976-1986.	3.2	72
43	Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. Nanoscale, 2017, 9, 18737-18752.	5.6	72
44	Facile Synthetic Route for Surface-Functionalized Magnetic Nanoparticles: Cell Labeling and Magnetic Resonance Imaging Studies. ACS Nano, 2011, 5, 4329-4336.	14.6	71
45	Combinatorial Extracellular Matrices for Human Embryonic Stem Cell Differentiation in 3D. Biomacromolecules, 2010, 11, 1909-1914.	5.4	68
46	Ascidianâ€Inspired Fastâ€Forming Hydrogel System for Versatile Biomedical Applications: Pyrogallol Chemistry for Dual Modes of Crosslinking Mechanism. Advanced Functional Materials, 2018, 28, 1705244.	14.9	68
47	Mapping the Interactions among Biomaterials, Adsorbed Proteins, and Human Embryonic Stem Cells. Advanced Materials, 2009, 21, 2781-2786.	21.0	67
48	Recapitulation of inÂvivo-like paracrine signals of human mesenchymal stem cells for functional neuronal differentiation of human neural stem cells in a 3D microfluidic system. Biomaterials, 2015, 63, 177-188.	11.4	67
49	Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. Scientific Reports, 2015, 5, 12326.	3.3	65
50	Nonviral delivery of genetic medicine for therapeutic angiogenesis. Advanced Drug Delivery Reviews, 2012, 64, 40-52.	13.7	64
51	Angiogenesis Facilitated by Autologous Whole Bone Marrow Stem Cell Transplantation for Buerger's Disease. Stem Cells, 2006, 24, 1194-1200.	3.2	63
52	Three-dimensional extracellular matrix-mediated neural stem cell differentiation in a microfluidic device. Lab on A Chip, 2012, 12, 2305.	6.0	61
53	Bio-inspired oligovitronectin-grafted surface for enhanced self-renewal and long-term maintenance of human pluripotent stem cells under feeder-free conditions. Biomaterials, 2015, 50, 127-139.	11.4	59
54	Reconstituting Vascular Microenvironment of Neural Stem Cell Niche in Threeâ€Đimensional Extracellular Matrix. Advanced Healthcare Materials, 2014, 3, 1457-1464.	7.6	58

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55	Plant Flavonoid-Mediated Multifunctional Surface Modification Chemistry: Catechin Coating for Enhanced Osteogenesis of Human Stem Cells. Chemistry of Materials, 2017, 29, 4375-4384.	6.7	56
56	A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process. Advanced Materials, 2020, 32, e2002118.	21.0	55
57	Significant improvement in cell adhesion and wear resistance of biomedical \hat{l}^2 -type titanium alloy through ultrasonic nanocrystal surface modification. Journal of Alloys and Compounds, 2018, 762, 941-949.	5.5	54
58	Biodegradable Nanotopography Combined with Neurotrophic Signals Enhances Contact Guidance and Neuronal Differentiation of Human Neural Stem Cells. Macromolecular Bioscience, 2015, 15, 1348-1356.	4.1	53
59	Sonic hedgehog intradermal gene therapy using a biodegradable poly(\hat{l}^2 -amino esters) nanoparticle to enhance wound healing. Biomaterials, 2012, 33, 9148-9156.	11.4	51
60	Osteoconductive hybrid hyaluronic acid hydrogel patch for effective bone formation. Journal of Controlled Release, 2020, 327, 571-583.	9.9	51
61	Bio-artificial tongue with tongue extracellular matrix and primary taste cells. Biomaterials, 2018, 151, 24-37.	11.4	49
62	Engineered Adipose Tissue Formation Enhanced by Basic Fibroblast Growth Factor and a Mechanically Stable Environment. Cell Transplantation, 2007, 16, 421-434.	2.5	47
63	Enhancement ofin vivo endothelialization of tissue-engineered vascular grafts by granulocyte colony-stimulating factor. Journal of Biomedical Materials Research - Part A, 2006, 76A, 252-263.	4.0	46
64	Enhancement of the osteogenic efficacy of osteoblast transplantation by the sustained delivery of basic fibroblast growth factor. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 79B, 353-359.	3.4	46
65	Musselâ€Inspired Cellâ€Adhesion Peptide Modification for Enhanced Endothelialization of Decellularized Blood Vessels. Macromolecular Bioscience, 2014, 14, 1181-1189.	4.1	46
66	Lipidâ€Like Nanoparticles for Small Interfering RNA Delivery to Endothelial Cells. Advanced Functional Materials, 2009, 19, 3112-3118.	14.9	45
67	Three-Dimensional Cell Grafting Enhances the Angiogenic Efficacy of Human Umbilical Vein Endothelial Cells. Tissue Engineering - Part A, 2012, 18, 310-319.	3.1	44
68	A microfluidic array for quantitative analysis of human neural stem cell self-renewal and differentiation in three-dimensional hypoxic microenvironment. Biomaterials, 2013, 34, 6607-6614.	11.4	44
69	Tissue-Adhesive Chondroitin Sulfate Hydrogel for Cartilage Reconstruction. ACS Biomaterials Science and Engineering, 2021, 7, 4230-4243.	5.2	43
70	Smooth muscle-like tissues engineered with bone marrow stromal cells. Biomaterials, 2004, 25, 2979-2986.	11.4	42
71	Basic fibroblast growth factor promotes bone marrow stromal cell transplantation-mediated neural regeneration in traumatic brain injury. Biochemical and Biophysical Research Communications, 2007, 359, 40-45.	2.1	42
72	A Novel Family of Biodegradable Poly(ester amide) Elastomers. Advanced Materials, 2011, 23, H95-100.	21.0	41

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73	Thermo-responsive polymeric nanoparticles for enhancing neuronal differentiation of human induced pluripotent stem cells. Nanomedicine: Nanotechnology, Biology, and Medicine, $2015, 11, 1861-1869$.	3.3	40
74	Functional Skeletal Muscle Regeneration with Thermally Drawn Porous Fibers and Reprogrammed Muscle Progenitors for Volumetric Muscle Injury. Advanced Materials, 2021, 33, e2007946.	21.0	40
75	Aligned Brain Extracellular Matrix Promotes Differentiation and Myelination of Human-Induced Pluripotent Stem Cell-Derived Oligodendrocytes. ACS Applied Materials & Samp; Interfaces, 2019, 11, 15344-15353.	8.0	39
76	Organoid engineering with microfluidics and biomaterials for liver, lung disease, and cancer modeling. Acta Biomaterialia, 2021, 132, 37-51.	8.3	39
77	Evidence for <i>In Vivo </i> Growth Potential and Vascular Remodeling of Tissue-Engineered Artery. Tissue Engineering - Part A, 2009, 15, 901-912.	3.1	38
78	Therapeutic angiogenesis using genetically engineered human endothelial cells. Journal of Controlled Release, 2012, 160, 515-524.	9.9	38
79	Diving beetle–like miniaturized plungers with reversible, rapid biofluid capturing for machine learning–based care of skin disease. Science Advances, 2021, 7, .	10.3	36
80	Multiphoton luminescent graphene quantum dots for in vivo tracking of human adipose-derived stem cells. Nanoscale, 2016, 8, 8512-8519.	5.6	35
81	In Situ Self-Cross-Linkable, Long-Term Stable Hyaluronic Acid Filler by Gallol Autoxidation for Tissue Augmentation and Wrinkle Correction. Chemistry of Materials, 2019, 31, 9614-9624.	6.7	35
82	Enhancement of Angiogenic Efficacy of Human Cord Blood Cell Transplantation. Tissue Engineering, 2006, 12, 1651-1661.	4.6	34
83	Nanostructured Tendon-Derived Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. ACS Applied Materials & Stem Cells. ACS ACS Applied Materials & Stem Cells. ACS	8.0	33
84	Preliminary experience with tissue engineering of a venous vascular patch by using bone marrow–derived cells and a hybrid biodegradable polymer scaffold. Journal of Vascular Surgery, 2006, 44, 1329-1340.	1.1	32
85	Electrochemical deposition of dopamine–hyaluronic acid conjugates for anti-biofouling bioelectrodes. Journal of Materials Chemistry B, 2017, 5, 4507-4513.	5.8	32
86	Tissue engineering of heart valves by recellularization of glutaraldehyde-fixed porcine valves using bone marrow-derived cells. Experimental and Molecular Medicine, 2006, 38, 273-283.	7.7	31
87	Liver tissue engineering: Recent advances in the development of a bio-artificial liver. Biotechnology and Bioprocess Engineering, 2012, 17, 427-438.	2.6	31
88	Photoactive Poly(3-hexylthiophene) Nanoweb for Optoelectrical Stimulation to Enhance Neurogenesis of Human Stem Cells. Theranostics, 2017, 7, 4591-4604.	10.0	31
89	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. ACS Applied Materials & Samp; Interfaces, 2018, 10, 33891-33900.	8.0	31
90	Tissue Beads: Tissueâ€Specific Extracellular Matrix Microbeads to Potentiate Reprogrammed Cellâ€Based Therapy. Advanced Functional Materials, 2019, 29, 1807803.	14.9	31

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91	A Surfaceâ€Tailoring Method for Rapid Nonâ€Thermosensitive Cellâ€Sheet Engineering via Functional Polymer Coatings. Advanced Materials, 2020, 32, e1907225.	21.0	31
92	Tissueâ€engineered blood vessels with endothelial nitric oxide synthase activity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 85B, 537-546.	3.4	30
93	In Situ Bone Tissue Engineering With an Endogenous Stem Cell Mobilizer and Osteoinductive Nanofibrous Polymeric Scaffolds. Biotechnology Journal, 2017, 12, 1700062.	3.5	30
94	Synthesis of electroconductive hydrogel films by an electro-controlled click reaction and their application to drug delivery systems. Polymer Chemistry, 2015, 6, 4473-4478.	3.9	29
95	High-density lipoprotein-mimicking nanodiscs carrying peptide for enhanced therapeutic angiogenesis in diabetic hindlimb ischemia. Biomaterials, 2018, 161, 69-80.	11.4	29
96	Biodegradable Nerve Guidance Conduit with Microporous and Micropatterned Poly(lacticâ€ <i>co</i> à€glycolic acid)â€Accelerated Sciatic Nerve Regeneration. Macromolecular Bioscience, 2018, 18, e1800290.	4.1	29
97	Kidney Tissue Reconstruction by Fetal Kidney Cell Transplantation: Effect of Gestation Stage of Fetal Kidney Cells. Stem Cells, 2007, 25, 1393-1401.	3.2	28
98	Intragenic CpG islands play important roles in bivalent chromatin assembly of developmental genes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1885-E1894.	7.1	27
99	Tissue Engineering of Heart Valves In Vivo Using Bone Marrow-derived Cells. Artificial Organs, 2006, 30, 554-557.	1.9	26
100	A high throughput micro-array system of polymer surfaces for the manipulation of primary pancreatic islet cells. Biomaterials, 2010, 31, 8989-8995.	11.4	26
101	Hepatocyte Cytotoxicity Evaluation with Zinc Oxide Nanoparticles. Journal of Biomedical Nanotechnology, 2013, 9, 926-929.	1.1	26
102	Inhibition of hepatitis C virus in mouse models by lipidoid nanoparticle-mediated systemic delivery of siRNA against PRK2. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1489-1498.	3.3	26
103	Mussel Adhesionâ€Inspired Reverse Transfection Platform Enhances Osteogenic Differentiation and Bone Formation of Human Adiposeâ€Derived Stem Cells. Small, 2016, 12, 6266-6278.	10.0	25
104	Mechanically-reinforced and highly adhesive decellularized tissue-derived hydrogel for efficient tissue repair. Chemical Engineering Journal, 2022, 427, 130926.	12.7	25
105	Granulocyte colony-stimulating factor treatment enhances the efficacy of cellular cardiomyoplasty with transplantation of embryonic stem cell-derived cardiomyocytes in infarcted myocardium. Biochemical and Biophysical Research Communications, 2006, 340, 573-582.	2.1	24
106	Spheroform: Therapeutic Spheroidâ€Forming Nanotextured Surfaces Inspired by Desert Beetle <i>Physosterna cribripes</i> . Advanced Healthcare Materials, 2015, 4, 511-515.	7.6	24
107	Bioengineered Extracellular Membranous Nanovesicles for Efficient Smallâ€Interfering RNA Delivery: Versatile Platforms for Stem Cell Engineering and In Vivo Delivery. Advanced Functional Materials, 2016, 26, 5804-5817.	14.9	24
108	Graded functionalization of biomaterial surfaces using mussel-inspired adhesive coating of polydopamine. Colloids and Surfaces B: Biointerfaces, 2017, 159, 546-556.	5.0	23

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109	Highly durable and biocompatible periodical Si/DLC nanocomposite coatings. Nanoscale, 2018, 10, 4852-4860.	5.6	23
110	Effects of a Catechol-Functionalized Hyaluronic Acid Patch Combined with Human Adipose-Derived Stem Cells in Diabetic Wound Healing. International Journal of Molecular Sciences, 2021, 22, 2632.	4.1	23
111	Photoactivation of Noncovalently Assembled Peptide Ligands on Carbon Nanotubes Enables the Dynamic Regulation of Stem Cell Differentiation. ACS Applied Materials & Interfaces, 2016, 8, 26470-26481.	8.0	22
112	Magnetic Control of Axon Navigation in Reprogrammed Neurons. Nano Letters, 2019, 19, 6517-6523.	9.1	22
113	Organoids for Advanced Therapeutics and Disease Models. Advanced Therapeutics, 2019, 2, 1800087.	3.2	22
114	Inhibition of Hepatitis C Virus in Mice by a Small Interfering RNA Targeting a Highly Conserved Sequence in Viral IRES Pseudoknot. PLoS ONE, 2016, 11, e0146710.	2.5	22
115	Reconstruction of Muscle Fascicleâ€Like Tissues by Anisotropic 3D Patterning. Advanced Functional Materials, 2021, 31, 2006227.	14.9	21
116	Cell-permeable mitochondrial ubiquinol–cytochrome c reductase binding protein induces angiogenesis in vitro and in vivo. Cancer Letters, 2015, 366, 52-60.	7.2	20
117	Hyaluronic Acid-based Biomimetic Hydrogels for Tissue Engineering and Medical Applications. Biotechnology and Bioprocess Engineering, 2021, 26, 503-516.	2.6	20
118	Combined therapy with human cord blood cell transplantation and basic fibroblast growth factor delivery for treatment of myocardial infarction. European Journal of Heart Failure, 2007, 9, 974-985.	7.1	19
119	Therapeutic angiogenesis by a myoblast layer harvested by tissue transfer printing from cell-adhesive, thermosensitive hydrogels. Biomaterials, 2013, 34, 8258-8268.	11.4	19
120	Genetically Engineered Myoblast Sheet for Therapeutic Angiogenesis. Biomacromolecules, 2014, 15, 361-372.	5.4	19
121	Enhanced Selfâ€Renewal and Accelerated Differentiation of Human Fetal Neural Stem Cells Using Graphene Oxide Nanoparticles. Macromolecular Bioscience, 2017, 17, 1600540.	4.1	19
122	Decellularized Tissue Matrix for Stem Cell and Tissue Engineering. Advances in Experimental Medicine and Biology, 2018, 1064, 161-180.	1.6	18
123	Autologous bone marrow cell transplantation combined with off-pump coronary artery bypass grafting in patients with ischemic cardiomyopathy. Canadian Journal of Surgery, 2008, 51, 269-75.	1.2	18
124	Shape Control of Cellulose Nanocrystals via Compositional Acid Hydrolysis. Journal of Biomedical Nanotechnology, 2013, 9, 1293-1298.	1.1	17
125	Strong contact coupling of neuronal growth cones with height-controlled vertical silicon nanocolumns. Nano Research, 2018, 11, 2532-2543.	10.4	17
126	Evolutionarily conserved sequence motif analysis guides development of chemically defined hydrogels for therapeutic vascularization. Science Advances, 2020, 6, eaaz5894.	10.3	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. International Journal of Stem Cells, 2011, 4, 88-98.	1.8	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. Ceramics International, 2022, 48, 17376-17384.	4.8	17
129	Implantable microfluidic device for the formation of three-dimensional vasculature by human endothelial progenitor cells. Biotechnology and Bioprocess Engineering, 2014, 19, 379-385.	2.6	16
130	Surface Chemistry of Vitamin: Pyridoxal 5â€2â€Phosphate (Vitamin B ₆) as a Multifunctional Compound for Surface Functionalization. Advanced Functional Materials, 2015, 25, 4754-4760.	14.9	16
131	Ferritin nanoparticles for improved self-renewal and differentiation of human neural stem cells. Biomaterials Research, 2018, 22, 5.	6.9	16
132	Delivery of small interfering RNA for inhibition of endothelial cell apoptosis by hypoxia and serum deprivation. Biochemical and Biophysical Research Communications, 2008, 376, 158-163.	2.1	15
133	Nonviral delivery for reprogramming to pluripotency and differentiation. Archives of Pharmacal Research, 2014, 37, 107-119.	6.3	15
134	Galactosylated Lipidoid Nanoparticles for Delivery of Small Interfering RNA to Inhibit Hepatitis C Viral Replication In Vivo. Advanced Healthcare Materials, 2016, 5, 2931-2941.	7.6	15
135	Vertical Nanowire Electrode Array for Enhanced Neurogenesis of Human Neural Stem Cells via Intracellular Electrical Stimulation. Nano Letters, 2021, 21, 6343-6351.	9.1	15
136	DNA-mediated self-assembly of taste cells and neurons for taste signal transmission. Biomaterials Science, 2018, 6, 3388-3396.	5.4	14
137	Immunomodulatory Scaffolds Derived from Lymph Node Extracellular Matrices. ACS Applied Materials & Lamp; Interfaces, 2021, 13, 14037-14049.	8.0	14
138	Biomimetic Polymer Scaffolds to Promote Stem Cell-Mediated Osteogenesis. International Journal of Stem Cells, 2013, 6, 87-91.	1.8	14
139	Enhanced bone formation by marrowâ€derived endothelial and osteogenic cell transplantation. Journal of Biomedical Materials Research - Part A, 2010, 92A, 246-253.	4.0	13
140	A Lightâ€Driven Antiâ€Cancer Dualâ€Therapeutic Cassette Enhances Solid Tumour Regression. Advanced Healthcare Materials, 2013, 2, 1252-1258.	7.6	13
141	A Fluorescent Tile DNA Diagnocode System for In Situ Rapid and Selective Diagnosis of Cytosolic RNA Cancer Markers. Scientific Reports, 2015, 5, 18497.	3.3	13
142	Inhibitory effects of mesenchymal stem cells in intimal hyperplasia after balloon angioplasty. Journal of Vascular Surgery, 2016, 63, 510-517.	1.1	13
143	Microchannel system for rate-controlled, sequential, and pH-responsive drug delivery. Acta Biomaterialia, 2018, 68, 249-260.	8.3	13
144	Regeneration of irradiation-damaged esophagus by local delivery of mesenchymal stem-cell spheroids encapsulated in a hyaluronic-acid-based hydrogel. Biomaterials Science, 2021, 9, 2197-2208.	5.4	13

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145	HEK 293 cell suspension culture using fibronectin-adsorbed polymer nanospheres in serum-free medium. Journal of Biomedical Materials Research Part B, 2004, 71A, 128-133.	3.1	12
146	Intestinal extracellular matrix hydrogels to generate intestinal organoids for translational applications. Journal of Industrial and Engineering Chemistry, 2022, 107, 155-164.	5.8	12
147	Blood-brain barrier-on-a-chip for brain disease modeling and drug testing. BMB Reports, 2022, 55, 213-219.	2.4	12
148	A method for the effective formation of hepatocyte spheroids using a biodegradable polymer nanosphere. Journal of Biomedical Materials Research - Part A, 2006, 78A, 268-275.	4.0	11
149	Wrinkledâ€Surface Mediated Reverse Transfection Platform for Highly Efficient, Addressable Gene Delivery. Advanced Healthcare Materials, 2016, 5, 2025-2030.	7.6	11
150	Role of Pyridoxal 5′â€Phosphate at the Titanium Implant Interface In Vivo: Increased Hemophilicity, Inactive Platelet Adhesion, and Osteointegration. Advanced Healthcare Materials, 2017, 6, 1600962.	7.6	11
151	Hydrogel-integrated Microfluidic Systems for Advanced Stem Cell Engineering. Biochip Journal, 2019, 13, 306-322.	4.9	10
152	Bacterial tRNase–Based Gene Therapy with Poly(βâ€Amino Ester) Nanoparticles for Suppressing Melanoma Tumor Growth and Relapse. Advanced Healthcare Materials, 2018, 7, e1800052.	7.6	9
153	Bioinspired Adhesives: A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process (Adv. Mater.) Tj ETQ	q1 ₂ 1.8.78	43]4 rgBT /C
154	NEUROD1 Intrinsically Initiates Differentiation of Induced Pluripotent Stem Cells into Neural Progenitor Cells. Molecules and Cells, 2020, 43, 1011-1022.	2.6	9
155	Engineering Biomaterials for Feeder-Free Maintenance of Human Pluripotent Stem Cells. International Journal of Stem Cells, 2012, 5, 1-5.	1.8	9
156	X-DNA Origami-Networked Core-Supported Lipid Stratum. Langmuir, 2015, 31, 912-916.	3.5	8
157	Hydrogel Skin-Covered Neurons Self-Assembled with Gustatory Cells for Selective Taste Stimulation. ACS Omega, 2019, 4, 12393-12401.	3.5	8
158	PEGylated substance P augments therapeutic angiogenesis in diabetic critical limb ischemia. Journal of Industrial and Engineering Chemistry, 2019, 78, 396-409.	5.8	8
159	Quasi-Irreversible Inhibition of CYP2D6 by Berberine. Pharmaceutics, 2020, 12, 916.	4.5	8
160	Biphasic Electrical Pulse by a Micropillar Electrode Array Enhances Maturation and Drug Response of Reprogrammed Cardiac Spheroids. Nano Letters, 2020, 20, 6947-6956.	9.1	7
161	Prevention of irradiation-induced damage to salivary glands by local delivery of adipose-derived stem cells via hyaluronic acid-based hydrogels. Journal of Industrial and Engineering Chemistry, 2020, 90, 47-57.	5.8	7
162	Hybrid skin chips for toxicological evaluation of chemical drugs and cosmetic compounds. Lab on A Chip, 2022, 22, 343-353.	6.0	7

#	Article	IF	CITATIONS
163	A Gene-Networked Gel Matrix-Supported Lipid Bilayer as a Synthetic Nucleus System. Langmuir, 2012, 28, 17036-17042.	3.5	6
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