Seung-Woo Cho

List of Publications by Year
in descending order

189	10,276	28274 55	40979 93
papers	citations	h-index	g-index

200	200	200	13715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanically-reinforced and highly adhesive decellularized tissue-derived hydrogel for efficient tissue repair. Chemical Engineering Journal, 2022, 427, 130926.	12.7	25
2	Intestinal extracellular matrix hydrogels to generate intestinal organoids for translational applications. Journal of Industrial and Engineering Chemistry, 2022, 107, 155-164.	5.8	12
3	Hybrid skin chips for toxicological evaluation of chemical drugs and cosmetic compounds. Lab on A Chip, 2022, 22, 343-353.	6.0	7
4	Tissue extracellular matrix hydrogels as alternatives to Matrigel for culturing gastrointestinal organoids. Nature Communications, 2022, 13, 1692.	12.8	101
5	Exceptional improvement in the wear resistance of biomedical Î²-type titanium alloy with the use of a biocompatible multilayer Si/DLC nanocomposite coating. Ceramics International, 2022, 48, 17376-17384.	4.8	17
6	Blood-brain barrier-on-a-chip for brain disease modeling and drug testing.. BMB Reports, 2022, , .	2.4	0
7	Liver organoid platforms for disease modeling and drug testing. Annals of Hepato-biliary-pancreatic Surgery, 2022, 26, S170-S170.	0.1	0
8	Blood-brain barrier-on-a-chip for brain disease modeling and drug testing. BMB Reports, 2022, 55, 213-219.	2.4	12
9	In situ microenvironment remodeling using a dual-responsive system: photodegradable hydrogels and gene activation by visible light. Biomaterials Science, 2022, 10, 3981-3992.	5.4	4
10	Tissue-Adhesive Chondroitin Sulfate Hydrogel for Cartilage Reconstruction. ACS Biomaterials Science and Engineering, 2021, 7, 4230-4243.	5.2	43
11	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
12	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
13	Immunomodulatory Scaffolds Derived from Lymph Node Extracellular Matrices. ACS Applied Materials & Interfaces, 2021, 13, 14037-14049.	8.0	14
14	Reconstruction of Muscle Fascicleâ€Like Tissues by Anisotropic 3D Patterning. Advanced Functional Materials, 2021, 31, 2006227.	14.9	21
15	Effects of rifampicin on hepatic antioxidant enzymes in PXR and CAR double humanized mice. Molecular and Cellular Toxicology, 2021, 17, 277-286.	1.7	1
16	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
17	Diving beetleâ€“like miniaturized plungers with reversible, rapid biofluid capturing for machine learningâ€“based care of skin disease. Science Advances, 2021, 7, .	10.3	36
18	Fungal brain infection modelled in a human-neurovascular-unit-on-a-chip with a functional bloodâ€“brain barrier. Nature Biomedical Engineering, 2021, 5, 830-846.	22.5	83

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19	Hyaluronic Acid-based Biomimetic Hydrogels for Tissue Engineering and Medical Applications. Biotechnology and Bioprocess Engineering, 2021, 26, 503-516.	2.6	20
20	Microfluidic device with brain extracellular matrix promotes structural and functional maturation of human brain organoids. Nature Communications, 2021, 12, 4730.	12.8	164
21	Bioengineering platforms for cell therapeutics derived from pluripotent and direct reprogramming. APL Bioengineering, 2021, 5, 031501.	6.2	4
22	Organoid engineering with microfluidics and biomaterials for liver, lung disease, and cancer modeling. Acta Biomaterialia, 2021, 132, 37-51.	8.3	39
23	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
24	Nanotechnology for stem cell and tissue engineering. , 2021, , .		1
25	DNA Methylation of Intragenic CpG Islands are Required for Differentiation from iPSC to NPC. Stem Cell Reviews and Reports, 2020, 16, 1316-1327.	3.8	6
26	Quasi-Irreversible Inhibition of CYP2D6 by Berberine. Pharmaceutics, 2020, 12, 916.	4.5	8
27	Chromatin Interaction Changes during the iPSC-NPC Model to Facilitate the Study of Biologically Significant Genes Involved in Differentiation. Genes, 2020, 11, 1176.	2.4	2
28	Bioinspired Adhesives: A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 1	21.0	9
29	Evolutionarily conserved sequence motif analysis guides development of chemically defined hydrogels for therapeutic vascularization. Science Advances, 2020, 6, eaaz5894.	10.3	17
30	Osteoconductive hybrid hyaluronic acid hydrogel patch for effective bone formation. Journal of Controlled Release, 2020, 327, 571-583.	9.9	51
31	A Phenolâ€Amine Superglue Inspired by Insect Sclerotization Process. Advanced Materials, 2020, 32, e2002118.	21.0	55
32	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
33	A Surfaceâ€Tailoring Method for Rapid Nonâ€Thermosensitive Cellâ€Sheet Engineering via Functional Polymer Coatings. Advanced Materials, 2020, 32, e1907225.	21.0	31
34	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
35	Gastrointestinal tract modeling using organoids engineered with cellular and microbiota niches. Experimental and Molecular Medicine, 2020, 52, 227-237.	7.7	96
36	NEUROD1 Intrinsically Initiates Differentiation of Induced Pluripotent Stem Cells into Neural Progenitor Cells. Molecules and Cells, 2020, 43, 1011-1022.	2.6	9

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37	Hydrogel Skin-Covered Neurons Self-Assembled with Gustatory Cells for Selective Taste Stimulation. ACS Omega, 2019, 4, 12393-12401.	3.5	8
38	Tissue Tapesâ€"Phenolic Hyaluronic Acid Hydrogel Patches for Offâ€theâ€Shelf Therapy. Advanced Functional Materials, 2019, 29, 1903863.	14.9	97
39	Magnetic Control of Axon Navigation in Reprogrammed Neurons. Nano Letters, 2019, 19, 6517-6523.	9.1	22
40	PEGylated substance P augments therapeutic angiogenesis in diabetic critical limb ischemia. Journal of Industrial and Engineering Chemistry, 2019, 78, 396-409.	5.8	8
41	Tissue Beads: Tissueâ€Specific Extracellular Matrix Microbeads to Potentiate Reprogrammed Cellâ€Based Therapy. Advanced Functional Materials, 2019, 29, 1807803.	14.9	31
42	Endothelial-neurosphere crosstalk in microwell arrays regulates self-renewal and differentiation of human neural stem cells. Journal of Industrial and Engineering Chemistry, 2019, 74, 148-157.	5.8	6
43	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
44	Aligned Brain Extracellular Matrix Promotes Differentiation and Myelination of Human-Induced Pluripotent Stem Cell-Derived Oligodendrocytes. ACS Applied Materials & Interfaces, 2019, 11, 15344-15353.	8.0	39
45	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
46	Hydrogel-integrated Microfluidic Systems for Advanced Stem Cell Engineering. Biochip Journal, 2019, 13, 306-322.	4.9	10
47	Time-Dependent Retention of Nanotopographical Cues in Differentiated Neural Stem Cells. ACS Biomaterials Science and Engineering, 2019, 5, 3802-3807.	5.2	5
48	Organoids for Advanced Therapeutics and Disease Models. Advanced Therapeutics, 2019, 2, 1800087.	3.2	22
49	Highly durable and biocompatible periodical Si/DLC nanocomposite coatings. Nanoscale, 2018, 10, 4852-4860.	5.6	23
50	High-density lipoprotein-mimicking nanodiscs carrying peptide for enhanced therapeutic angiogenesis in diabetic hindlimb ischemia. Biomaterials, 2018, 161, 69-80.	11.4	29
51	Microchannel system for rate-controlled, sequential, and pH-responsive drug delivery. Acta Biomaterialia, 2018, 68, 249-260.	8.3	13
52	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
53	Ferritin nanoparticles for improved self-renewal and differentiation of human neural stem cells. Biomaterials Research, 2018, 22, 5.	6.9	16
54	Targeting protein and peptide therapeutics to the heart via tannic acid modification. Nature Biomedical Engineering, 2018, 2, 304-317.	22.5	202

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55	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 & Interfaces, 2018, 10, 7614-7625.	8.0	117
56	Bio-artificial tongue with tongue extracellular matrix and primary taste cells. Biomaterials, 2018, 151, 24-37.	11.4	49
57	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
58	Strong contact coupling of neuronal growth cones with height-controlled vertical silicon nanocolumns. Nano Research, 2018, 11, 2532-2543.	10.4	17
59	DNA-mediated self-assembly of taste cells and neurons for taste signal transmission. Biomaterials Science, 2018, 6, 3388-3396.	5.4	14
60	Biodegradable Nerve Guidance Conduit with Microporous and Micropatterned Poly(lacticâ€coâ€glycolic acid)â€Accelerated Sciatic Nerve Regeneration. Macromolecular Bioscience, 2018, 18, e1800290.	4.1	29
61	Decellularized Tissue Matrix for Stem Cell and Tissue Engineering. Advances in Experimental Medicine and Biology, 2018, 1064, 161-180.	1.6	18
62	High-resolution acoustophoretic 3D cell patterning to construct functional collateral cylindroids for ischemia therapy. Nature Communications, 2018, 9, 5402.	12.8	116
63	Alginate-Catechol Cross-Linking Interferes with Insulin Secretion Capacity in Isolated Murine Islet Cells. Diabetes and Metabolism Journal, 2018, 42, 164.	4.7	6
64	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. ACS Applied Materials & Interfaces, 2018, 10, 33891-33900.	8.0	31
65	Drug Screening: Vascularized Liver Organoids Generated Using Induced Hepatic Tissue and Dynamic Liver-Specific Microenvironment as a Drug Testing Platform (Adv. Funct. Mater. 37/2018). Advanced Functional Materials, 2018, 28, 1870266.	14.9	5
66	Pore Diameter of Mesoporous Silica Modulates Oxidation of H₂O₂-Sensing Chromophore in a Porous Matrix. Langmuir, 2018, 34, 11242-11252.	3.5	6
67	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
68	Three-dimensional brain-like microenvironments facilitate the direct reprogramming of fibroblasts into therapeutic neurons. Nature Biomedical Engineering, 2018, 2, 522-539.	22.5	86
69	Significant improvement in cell adhesion and wear resistance of biomedical Î²-type titanium alloy through ultrasonic nanocrystal surface modification. Journal of Alloys and Compounds, 2018, 762, 941-949.	5.5	54
70	Bacterial tRNaseâ€“Based Gene Therapy with Poly(Î²â€Amino Ester) Nanoparticles for Suppressing Melanoma Tumor Growth and Relapse. Advanced Healthcare Materials, 2018, 7, e1800052.	7.6	9
71	Role of Pyridoxal 5â€²â€Phosphate at the Titanium Implant Interface In Vivo: Increased Hemophilicity, Inactive Platelet Adhesion, and Osteointegration. Advanced Healthcare Materials, 2017, 6, 1600962.	7.6	11
72	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

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73	Enhanced Selfâ€Renewal and Accelerated Differentiation of Human Fetal Neural Stem Cells Using Graphene Oxide Nanoparticles. Macromolecular Bioscience, 2017, 17, 1600540.	4.1	19
74	Electrochemical deposition of dopamineâ€“hyaluronic acid conjugates for anti-biofouling bioelectrodes. Journal of Materials Chemistry B, 2017, 5, 4507-4513.	5.8	32
75	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
76	Fluorescence-coded DNA Nanostructure Probe System to Enable Discrimination of Tumor Heterogeneity via a Screening of Dual Intracellular microRNA Signatures in situ. Scientific Reports, 2017, 7, 13499.	3.3	5
77	Graded functionalization of biomaterial surfaces using mussel-inspired adhesive coating of polydopamine. Colloids and Surfaces B: Biointerfaces, 2017, 159, 546-556.	5.0	23
78	In Situ Bone Tissue Engineering With an Endogenous Stem Cell Mobilizer and Osteoinductive Nanofibrous Polymeric Scaffolds. Biotechnology Journal, 2017, 12, 1700062.	3.5	30
79	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
80	Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. Nanoscale, 2017, 9, 18737-18752.	5.6	72
81	Photoactive Poly(3-hexylthiophene) Nanoweb for Optoelectrical Stimulation to Enhance Neurogenesis of Human Stem Cells. Theranostics, 2017, 7, 4591-4604.	10.0	31
82	Wrinkledâ€Surface Mediated Reverse Transfection Platform for Highly Efficient, Addressable Gene Delivery. Advanced Healthcare Materials, 2016, 5, 2025-2030.	7.6	11
83	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
84	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
85	Multiphoton luminescent graphene quantum dots for in vivo tracking of human adipose-derived stem cells. Nanoscale, 2016, 8, 8512-8519.	5.6	35
86	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
87	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
88	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
89	Nanostructured Tendon-Derived Scaffolds for Enhanced Bone Regeneration by Human Adipose-Derived Stem Cells. ACS Applied Materials & Interfaces, 2016, 8, 22819-22829.	8.0	33
90	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

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91	Nanovesicles: Bioengineered Extracellular Membranous Nanovesicles for Efficient Small-Interfering RNA Delivery: Versatile Platforms for Stem Cell Engineering and In Vivo Delivery (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	8.0	3
92	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
93	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
94	Angiogenic Type I Collagen Extracellular Matrix Integrated with Recombinant Bacteriophages Displaying Vascular Endothelial Growth Factors. Advanced Healthcare Materials, 2016, 5, 205-212.	7.6	4
95	Graphene Oxide Hierarchical Patterns for the Derivation of Electrophysiologically Functional Neuron-like Cells from Human Neural Stem Cells. ACS Applied Materials & Interfaces, 2016, 8, 17763-17774.	8.0	81
96	Fabrication of coloured liquid crystal device using photoluminescent biomolecular chlorophyll. Liquid Crystals, 2016, 43, 77-82.	2.2	3
97	Inhibitory effects of mesenchymal stem cells in intimal hyperplasia after balloon angioplasty. Journal of Vascular Surgery, 2016, 63, 510-517.	1.1	13
98	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
99	Tissue Reconstruction: Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy (Adv. Funct. Mater. 25/2015). Advanced Functional Materials, 2015, 25, 3798-3798.	14.9	3
100	Path-programmable water droplet manipulations on an adhesion controlled superhydrophobic surface. Scientific Reports, 2015, 5, 12326.	3.3	65
101	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
102	Surface Chemistry of Vitamin: Pyridoxal 5â€²â€Phosphate (Vitamin B₆) as a Multifunctional Compound for Surface Functionalization. Advanced Functional Materials, 2015, 25, 4754-4760.	14.9	16
103	Tissue Adhesive Catecholâ€Modified Hyaluronic Acid Hydrogel for Effective, Minimally Invasive Cell Therapy. Advanced Functional Materials, 2015, 25, 3814-3824.	14.9	351
104	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
105	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
106	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
107	X-DNA Origami-Networked Core-Supported Lipid Stratum. Langmuir, 2015, 31, 912-916.	3.5	8
108	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

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109	Cell-permeable mitochondrial ubiquinolâ€“cytochrome c reductase binding protein induces angiogenesis in vitro and in vivo. Cancer Letters, 2015, 366, 52-60.	7.2	20
110	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
111	Fabrication of photoluminescent liquid crystal device using an in situ self-assembled molecular layer of a pyrene derivative. Liquid Crystals, 2015, 42, 1076-1082.	2.2	5
112	Osteogenic priming of mesenchymal stem cells by chondrocyte-conditioned factors and mineralized matrix. Cell and Tissue Research, 2015, 362, 115-126.	2.9	5
113	Spheroform: Therapeutic Spheroidâ€Forming Nanotextured Surfaces Inspired by Desert Beetle Physosterna cribripes. Advanced Healthcare Materials, 2015, 4, 511-515.	7.6	24
114	Musselâ€Inspired Cellâ€Adhesion Peptide Modification for Enhanced Endothelialization of Decellularized Blood Vessels. Macromolecular Bioscience, 2014, 14, 1181-1189.	4.1	46
115	Reconstituting Vascular Microenvironment of Neural Stem Cell Niche in Threeâ€Dimensional Extracellular Matrix. Advanced Healthcare Materials, 2014, 3, 1457-1464.	7.6	58
116	Novel stem-loop RNA and drug-bearing DNA hybrid nanostructures specific to LNCaP prostate carcinoma. Biomaterials Science, 2014, 2, 76-83.	5.4	4
117	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
118	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
119	Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. ACS Nano, 2014, 8, 7809-7822.	14.6	132
120	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
121	Paper-based bioactive scaffolds for stem cell-mediated bone tissue engineering. Biomaterials, 2014, 35, 9811-9823.	11.4	93
122	A fluorescence color-encoded lipid-supported polymeric particle. Colloids and Surfaces B: Biointerfaces, 2014, 122, 840-845.	5.0	1
123	Nonviral delivery for reprogramming to pluripotency and differentiation. Archives of Pharmacal Research, 2014, 37, 107-119.	6.3	15
124	Genetically Engineered Myoblast Sheet for Therapeutic Angiogenesis. Biomacromolecules, 2014, 15, 361-372.	5.4	19
125	Bioinspired Materials: Hyaluronic Acid Catechol: A Biopolymer Exhibiting a pH-Dependent Adhesive or Cohesive Property for Human Neural Stem Cell Engineering (Adv. Funct. Mater. 14/2013). Advanced Functional Materials, 2013, 23, 1856-1856.	14.9	2
126	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

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127	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
128	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. Biomaterials, 2013, 34, 7236-7246.	11.4	109
129	A superhydrophobic layer formed by fluoro-derivative-treated gold sheets on grown-up zinc oxide nanoparticles for a spherical DNA hydrogel. Colloids and Surfaces B: Biointerfaces, 2013, 111, 342-345.	5.0	4
130	Therapeutic angiogenesis by a myoblast layer harvested by tissue transfer printing from cell-adhesive, thermosensitive hydrogels. Biomaterials, 2013, 34, 8258-8268.	11.4	19
131	A Lightâ€Driven Antiâ€Cancer Dualâ€Therapeutic Cassette Enhances Solid Tumour Regression. Advanced Healthcare Materials, 2013, 2, 1252-1258.	7.6	13
132	Bioinspired, Calcium-Free Alginate Hydrogels with Tunable Physical and Mechanical Properties and Improved Biocompatibility. Biomacromolecules, 2013, 14, 2004-2013.	5.4	242
133	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
134	Nanotopographical Manipulation of Focal Adhesion Formation for Enhanced Differentiation of Human Neural Stem Cells. ACS Applied Materials & Interfaces, 2013, 5, 10529-10540.	8.0	155
135	Shape Control of Cellulose Nanocrystals via Compositional Acid Hydrolysis. Journal of Biomedical Nanotechnology, 2013, 9, 1293-1298.	1.1	17
136	Hepatocyte Cytotoxicity Evaluation with Zinc Oxide Nanoparticles. Journal of Biomedical Nanotechnology, 2013, 9, 926-929.	1.1	26
137	Biomimetic Polymer Scaffolds to Promote Stem Cell-Mediated Osteogenesis. International Journal of Stem Cells, 2013, 6, 87-91.	1.8	14
138	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
139	Sonic hedgehog intradermal gene therapy using a biodegradable poly(Î²-amino esters) nanoparticle to enhance wound healing. Biomaterials, 2012, 33, 9148-9156.	11.4	51
140	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
141	Three-dimensional extracellular matrix-mediated neural stem cell differentiation in a microfluidic device. Lab on A Chip, 2012, 12, 2305.	6.0	61
142	A Gene-Networked Gel Matrix-Supported Lipid Bilayer as a Synthetic Nucleus System. Langmuir, 2012, 28, 17036-17042.	3.5	6
143	Polydopamine-mediated surface modification of scaffold materials for human neural stem cell engineering. Biomaterials, 2012, 33, 6952-6964.	11.4	311
144	Liver tissue engineering: Recent advances in the development of a bio-artificial liver. Biotechnology and Bioprocess Engineering, 2012, 17, 427-438.	2.6	31

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145	Nonviral delivery of genetic medicine for therapeutic angiogenesis. Advanced Drug Delivery Reviews, 2012, 64, 40-52.	13.7	64
146	Therapeutic angiogenesis using genetically engineered human endothelial cells. Journal of Controlled Release, 2012, 160, 515-524.	9.9	38
147	Engineering Biomaterials for Feeder-Free Maintenance of Human Pluripotent Stem Cells. International Journal of Stem Cells, 2012, 5, 1-5.	1.8	9
148	Uncovering the biological function of UQCRB, a terpestacinâ€binding mitochondrial protein, implies its proâ€angiogenic activity in vitro and in vivo. FASEB Journal, 2012, 26, 565.13.	0.5	0
149	Facile Synthetic Route for Surface-Functionalized Magnetic Nanoparticles: Cell Labeling and Magnetic Resonance Imaging Studies. ACS Nano, 2011, 5, 4329-4336.	14.6	71
150	Angiogenesis in ischemic tissue produced by spheroid grafting of human adipose-derived stromal cells. Biomaterials, 2011, 32, 2734-2747.	11.4	327
151	A Novel Family of Biodegradable Poly(ester amide) Elastomers. Advanced Materials, 2011, 23, H95-100.	21.0	41
152	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
153	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
154	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
155	Combinatorial development of biomaterials for clonal growth of human pluripotent stem cells. Nature Materials, 2010, 9, 768-778.	27.5	504
156	Combinatorial Extracellular Matrices for Human Embryonic Stem Cell Differentiation in 3D. Biomacromolecules, 2010, 11, 1909-1914.	5.4	68
157	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
158	Evidence forIn VivoGrowth Potential and Vascular Remodeling of Tissue-Engineered Artery. Tissue Engineering - Part A, 2009, 15, 901-912.	3.1	38
159	Lipidâ€Like Nanoparticles for Small Interfering RNA Delivery to Endothelial Cells. Advanced Functional Materials, 2009, 19, 3112-3118.	14.9	45
160	Mapping the Interactions among Biomaterials, Adsorbed Proteins, and Human Embryonic Stem Cells. Advanced Materials, 2009, 21, 2781-2786.	21.0	67
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