Byung-Soo Kim

List of Publications by Year
in descending order

349 papers	22,087 citations	5891 81 h-index	13365 130 g-index
352 all docs	352 docs citations	352 times ranked	23628 citing authors

#	Article	IF	Citations
1	Development of biocompatible synthetic extracellular matrices for tissue engineering. Trends in Biotechnology, 1998, 16, 224-230.	4.9	850
2	Poly(lactide-co-glycolide)/hydroxyapatite composite scaffolds for bone tissue engineering. Biomaterials, 2006, 27, 1399-1409.	5.7	710
3	Open pore biodegradable matrices formed with gas foaming. Journal of Biomedical Materials Research Part B, 1998, 42, 396-402.	3.0	700
4	Cyclic mechanical strain regulates the development of engineered smooth muscle tissue. Nature Biotechnology, 1999, 17, 979-983.	9.4	427
5	Angiogenesis in ischemic tissue produced by spheroid grafting of human adipose-derived stromal cells. Biomaterials, 2011, 32, 2734-2747.	5.7	327
6	Synergistic Oxygen Generation and Reactive Oxygen Species Scavenging by Manganese Ferrite/Ceria Co-decorated Nanoparticles for Rheumatoid Arthritis Treatment. ACS Nano, 2019, 13, 3206-3217.	7.3	325
7	Biomaterials for tissue engineering. World Journal of Urology, 2000, 18, 2-9.	1.2	300
8	M1 Macrophage-Derived Nanovesicles Potentiate the Anticancer Efficacy of Immune Checkpoint Inhibitors. ACS Nano, 2018, 12, 8977-8993.	7.3	286
9	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.	3.3	278
10	Design of artificial extracellular matrices for tissue engineering. Progress in Polymer Science, 2011, 36, 238-268.	11.8	257
11	Enhancement of ectopic bone formation by bone morphogenetic protein-2 released from a heparin-conjugated poly(l-lactic-co-glycolic acid) scaffold. Biomaterials, 2007, 28, 2763-2771.	5.7	244
12	Early In Vivo Experience With Tissue-Engineered Trileaflet Heart Valves. Circulation, 2000, 102, III-22-III-29.	1.6	243
13	Optimizing seeding and culture methods to engineer smooth muscle tissue on biodegradable polymer matrices. Biotechnology and Bioengineering, 1998, 57, 46-54.	1.7	233
14	In vivo biocompatibilty and degradation behavior of elastic poly(l-lactide-co-Îµ-caprolactone) scaffolds. Biomaterials, 2004, 25, 5939-5946.	5.7	230
15	Implantation of bone marrow mononuclear cells using injectable fibrin matrix enhances neovascularization in infarcted myocardium. Biomaterials, 2005, 26, 319-326.	5.7	214
16	Small-Diameter Blood Vessels Engineered With Bone Marrowâ€“Derived Cells. Annals of Surgery, 2005, 241, 506-515.	2.1	213
17	Mechano-active tissue engineering of vascular smooth muscle using pulsatile perfusion bioreactors and elastic PLCL scaffolds. Biomaterials, 2005, 26, 1405-1411.	5.7	203
18	Graphene Oxide Flakes as a Cellular Adhesive: Prevention of Reactive Oxygen Species Mediated Death of Implanted Cells for Cardiac Repair. ACS Nano, 2015, 9, 4987-4999.	7.3	203

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19	Engineering smooth muscle tissue with a predefined structure. , 1998, 41, 322-332.		196
20	Improvement of Postnatal Neovascularization by Human Embryonic Stem Cellâ€"Derived Endothelial-Like Cell Transplantation in a Mouse Model of Hindlimb Ischemia. Circulation, 2007, 116, 2409-2419.	1.6	190
21	Engineered Smooth Muscle Tissues: Regulating Cell Phenotype with the Scaffold. Experimental Cell Research, 1999, 251, 318-328.	1.2	187
22	Dual Roles of Graphene Oxide To Attenuate Inflammation and Elicit Timely Polarization of Macrophage Phenotypes for Cardiac Repair. ACS Nano, 2018, 12, 1959-1977.	7.3	184
23	In vitro biocompatibility assessment of naturally derived and synthetic biomaterials using normal human urothelial cells. Journal of Biomedical Materials Research Part B, 2001, 55, 33-39.	3.0	180
24	Delivery of a Therapeutic Protein for Bone Regeneration from a Substrate Coated with Graphene Oxide. Small, 2013, 9, 4051-4060.	5.2	178
25	Hyaluronateâ€"Gold Nanoparticle/Tocilizumab Complex for the Treatment of Rheumatoid Arthritis. ACS Nano, 2014, 8, 4790-4798.	7.3	178
26	Mesenchymal stem cell-derived magnetic extracellular nanovesicles for targeting and treatment of ischemic stroke. Biomaterials, 2020, 243, 119942.	5.7	176
27	Long-term and zero-order release of basic fibroblast growth factor from heparin-conjugated poly(l-lactide-co-glycolide) nanospheres and fibrin gel. Biomaterials, 2006, 27, 1598-1607.	5.7	173
28	Transplantation of Cord Blood Mesenchymal Stem Cells as Spheroids Enhances Vascularization. Tissue Engineering - Part A, 2012, 18, 2138-2147.	1.6	172
29	Control of basic fibroblast growth factor release from fibrin gel with heparin and concentrations of fibrinogen and thrombin. Journal of Controlled Release, 2005, 105, 249-259.	4.8	170
30	Long-term delivery enhances in vivo osteogenic efficacy of bone morphogenetic protein-2 compared to short-term delivery. Biochemical and Biophysical Research Communications, 2008, 369, 774-780.	1.0	170
31	Mechanical properties and degradation behaviors of hyaluronic acid hydrogels cross-linked at various cross-linking densities. Carbohydrate Polymers, 2007, 70, 251-257.	5.1	166
32	Manufacture of elastic biodegradable PLCL scaffolds for mechano-active vascular tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 645-660.	1.9	161
33	Morphology of Elastic Poly(l-lactide-co-Îµ-caprolactone) Copolymers and in Vitro and in Vivo Degradation Behavior of Their Scaffolds. Biomacromolecules, 2004, 5, 1303-1309.	2.6	161
34	pH-Responsive Assembly of Gold Nanoparticles and â€œSpatiotemporally Concertedâ€• Drug Release for Synergistic Cancer Therapy. ACS Nano, 2013, 7, 3388-3402.	7.3	161
35	Elastic biodegradable poly(glycolide-co-caprolactone) scaffold for tissue engineering. Journal of Biomedical Materials Research Part B, 2003, 66A, 29-37.	3.0	160
36	Hyaluronic Acidâ^'Quantum Dot Conjugates for <i>In Vivo</i> Lymphatic Vessel Imaging. ACS Nano, 2009, 3, 1389-1398.	7.3	157

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37	Mesenchymal Stem Cells Aggregate and Deliver Gold Nanoparticles to Tumors for Photothermal Therapy. ACS Nano, 2015, 9, 9678-9690.	7.3	155
38	Scaffolds for Engineering Smooth Muscle Under Cyclic Mechanical Strain Conditions. Journal of Biomechanical Engineering, 2000, 122, 210-215.	0.6	153
39	Regeneration of whole meniscus using meniscal cells and polymer scaffolds in a rabbit total meniscectomy model. Journal of Biomedical Materials Research - Part A, 2006, 77A, 659-671.	2.1	151
40	In vivo bone formation from human embryonic stem cell-derived osteogenic cells in poly(d,l-lactic-co-glycolic acid)/hydroxyapatite composite scaffolds. Biomaterials, 2008, 29, 1043-1053.	5.7	143
41	A poly(lactide-co-glycolide)/hydroxyapatite composite scaffold with enhanced osteoconductivity. Journal of Biomedical Materials Research - Part A, 2007, 80A, 206-215.	2.1	140
42	In Vitro Biocompatibility Evaluation Of Naturally Derived And Synthetic Biomaterials Using Normal Human Bladder Smooth Muscle Cells. Journal of Urology, 2002, 167, 1867-1871.	0.2	138
43	Dual Roles of Graphene Oxide in Chondrogenic Differentiation of Adult Stem Cells: Cellâ€Adhesion Substrate and Growth Factorâ€Delivery Carrier. Advanced Functional Materials, 2014, 24, 6455-6464.	7.8	138
44	Enhanced Cartilage Formation via Three-Dimensional Cell Engineering of Human Adipose-Derived Stem Cells. Tissue Engineering - Part A, 2012, 18, 1949-1956.	1.6	135
45	Efficacious and Clinically Relevant Conditioned Medium of Human Adipose-derived Stem Cells for Therapeutic Angiogenesis. Molecular Therapy, 2014, 22, 862-872.	3.7	135
46	Dynamic Seeding and in Vitro Culture of Hepatocytes in a Flow Perfusion System. Tissue Engineering, 2000, 6, 39-44.	4.9	134
47	Engineering of volume-stable adipose tissues. Biomaterials, 2005, 26, 3577-3585.	5.7	134
48	Grapheneâ€'Regulated Cardiomyogenic Differentiation Process of Mesenchymal Stem Cells by Enhancing the Expression of Extracellular Matrix Proteins and Cell Signaling Molecules. Advanced Healthcare Materials, 2014, 3, 176-181.	3.9	133
49	Therapeutic Efficacy-Potentiated and Diseased Organ-Targeting Nanovesicles Derived from Mesenchymal Stem Cells for Spinal Cord Injury Treatment. Nano Letters, 2018, 18, 4965-4975.	4.5	133
50	Zinc Oxide Nanorodâ€Based Piezoelectric Dermal Patch for Wound Healing. Advanced Functional Materials, 2017, 27, 1603497.	7.8	132
51	A poly(lactic acid)/calcium metaphosphate composite for bone tissue engineering. Biomaterials, 2005, 26, 6314-6322.	5.7	125
52	Accelerated Bonelike Apatite Growth on Porous Polymer/Ceramic Composite Scaffolds in Vitro. Tissue Engineering, 2006, 12, 2997-3006.	4.9	123
53	Iron Oxide Nanoparticle-Mediated Development of Cellular Gap Junction Crosstalk to Improve Mesenchymal Stem Cellsâ€™ Therapeutic Efficacy for Myocardial Infarction. ACS Nano, 2015, 9, 2805-2819.	7.3	122
54	Effects of cardiac patches engineered with bone marrow-derived mononuclear cells and PGCL scaffolds in a rat myocardial infarction model. Biomaterials, 2007, 28, 641-649.	5.7	121

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55	Action potential duration restitution kinetics in human atrial fibrillation. Journal of the American College of Cardiology, 2002, 39, 1329-1336.	1.2	114
56	The effect of cyclic strain on embryonic stem cell-derived cardiomyocytes. Biomaterials, 2008, 29, 844-856.	5.7	114
57	Injectable hyaluronic acidâ€"tyramine hydrogels for the treatment of rheumatoid arthritis. Acta Biomaterialia, 2011, 7, 666-674.	4.1	114
58	Graphene Potentiates the Myocardial Repair Efficacy of Mesenchymal Stem Cells by Stimulating the Expression of Angiogenic Growth Factors and Gap Junction Protein. Advanced Functional Materials, 2015, 25, 2590-2600.	7.8	114
59	Poly(lactic-co-glycolic acid) Microspheres as an Injectable Scaffold for Cartilage Tissue Engineering. Tissue Engineering, 2005, 11, 438-447.	4.9	111
60	Enhanced skin wound healing by a sustained release of growth factors contained in platelet-rich plasma. Experimental and Molecular Medicine, 2011, 43, 622.	3.2	111
61	Covalent conjugation of mechanically stiff graphene oxide flakes to three-dimensional collagen scaffolds for osteogenic differentiation of human mesenchymal stem cells. Carbon, 2015, 83, 162-172.	5.4	110
62	Effect of Cross-Linking Reagents for Hyaluronic Acid Hydrogel Dermal Fillers on Tissue Augmentation and Regeneration. Bioconjugate Chemistry, 2010, 21, 240-247.	1.8	109
63	Nanovesicles derived from iron oxide nanoparticlesâ€"incorporated mesenchymal stem cells for cardiac repair. Science Advances, 2020, 6, eaaz0952.	4.7	109
64	<i>In Vivo</i> Bone Formation Following Transplantation of Human Adiposeâ€"Derived Stromal Cells That Are Not Differentiated Osteogenically. Tissue Engineering - Part A, 2008, 14, 1285-1294.	1.6	108
65	Heparin-Conjugated Fibrin as an Injectable System for Sustained Delivery of Bone Morphogenetic Protein-2. Tissue Engineering - Part A, 2010, 16, 1225-1233.	1.6	107
66	Development of Technologies Aiding Large-Tissue Engineering. Biotechnology Progress, 1998, 14, 134-140.	1.3	103
67	Studies of brush border enzymes, basement membrane components, and electrophysiology of tissue-engineered neointestine. Journal of Pediatric Surgery, 1998, 33, 991-997.	0.8	100
68	Peripheral nerve regeneration using acellular nerve grafts. Journal of Biomedical Materials Research Part B, 2004, 68A, 201-209.	3.0	100
69	Enhancement of adipose tissue formation by implantation of adipogenic-differentiated preadipocytes. Biochemical and Biophysical Research Communications, 2006, 345, 588-594.	1.0	100
70	Culture of neural cells and stem cells on graphene. Tissue Engineering and Regenerative Medicine, 2013, 10, 39-46.	1.6	100
71	Efficient mRNA delivery with graphene oxide-polyethylenimine for generation of footprint-free human induced pluripotent stem cells. Journal of Controlled Release, 2016, 235, 222-235.	4.8	99
72	Shearâ€reversibly Crosslinked Alginate Hydrogels for Tissue Engineering. Macromolecular Bioscience, 2009, 9, 895-901.	2.1	98

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73	Therapeutic effects of human adipose stem cellâ€conditioned medium on stroke. Journal of Neuroscience Research, 2012, 90, 1794-1802.	1.3	97
74	Graphene enhances the cardiomyogenic differentiation of human embryonic stem cells. Biochemical and Biophysical Research Communications, 2014, 452, 174-180.	1.0	97
75	Injectable multifunctional microgel encapsulating outgrowth endothelial cells and growth factors for enhanced neovascularization. Journal of Controlled Release, 2014, 187, 1-13.	4.8	96
76	Stem cell recruitment and angiogenesis of neuropeptide substance P coupled with self-assembling peptide nanofiber in a mouse hind limb ischemia model. Biomaterials, 2013, 34, 1657-1668.	5.7	92
77	Apatiteâ€coated poly(lacticâ€<i>co</i>â€glycolic acid) microspheres as an injectable scaffold for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2008, 85A, 747-756.	2.1	89
78	The behavior of neural stem cells on biodegradable synthetic polymers. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 223-239.	1.9	88
79	Comparison between heparin-conjugated fibrin and collagen sponge as bone morphogenetic protein-2 carriers for bone regeneration. Experimental and Molecular Medicine, 2012, 44, 350.	3.2	86
80	Vascular patches tissue-engineered with autologous bone marrow-derived cells and decellularized tissue matrices. Biomaterials, 2005, 26, 1915-1924.	5.7	85
81	Control of the molecular degradation of hyaluronic acid hydrogels for tissue augmentation. Journal of Biomedical Materials Research - Part A, 2008, 86A, 685-693.	2.1	85
82	Transfection of mesenchymal stem cells with the FGF-2 gene improves their survival under hypoxic conditions. Molecules and Cells, 2005, 19, 402-7.	1.0	83
83	In situ hybridization of carbon nanotubes with bacterial cellulose for three-dimensional hybrid bioscaffolds. Biomaterials, 2015, 58, 93-102.	5.7	82
84	Tissue Transglutaminase Is Essential for Integrin-Mediated Survival of Bone Marrow-Derived Mesenchymal Stem Cells. Stem Cells, 2007, 25, 1431-1438.	1.4	81
85	Articular cartilage regeneration with microfracture and hyaluronic acid. Biotechnology Letters, 2008, 30, 435-439.	1.1	81
86	Highly porous polymer matrices as a three-dimensional culture system for hepatocytes. Cell Transplantation, 1997, 6, 463-468.	1.2	78
87	Stimulation of Chondrogenic Differentiation of Mesenchymal Stem Cells. International Journal of Stem Cells, 2012, 5, 16-22.	0.8	78
88	Suspension Culture of Mammalian Cells Using Thermosensitive Microcarrier that Allows Cell Detachment without Proteolytic Enzyme Treatment. Cell Transplantation, 2010, 19, 1123-1132.	1.2	77
89	Thermally Produced Biodegradable Scaffolds for Cartilage Tissue Engineering. Macromolecular Bioscience, 2004, 4, 802-810.	2.1	76
90	Gold Nanoparticle/Graphene Oxide Hybrid Sheets Attached on Mesenchymal Stem Cells for Effective Photothermal Cancer Therapy. Chemistry of Materials, 2017, 29, 3461-3476.	3.2	76

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91	Combining Chondrocytes and Smooth Muscle Cells to Engineer Hybrid Soft Tissue Constructs. Tissue Engineering, 2000, 6, 297-305.	4.9	75
92	Immunomodulatory Lipocomplex Functionalized with Photosensitizer-Embedded Cancer Cell Membrane Inhibits Tumor Growth and Metastasis. Nano Letters, 2019, 19, 5185-5193.	4.5	73
93	Tâ€Cellâ€Mimicking Nanoparticles for Cancer Immunotherapy. Advanced Materials, 2020, 32, e2003368.	11.1	73
94	Porous Poly(Lactic-Co-Glycolic Acid) Microsphere as Cell Culture Substrate and Cell Transplantation Vehicle for Adipose Tissue Engineering. Tissue Engineering - Part C: Methods, 2008, 14, 25-34.	1.1	72
95	Locally Delivered Growth Factor Enhances the Angiogenic Efficacy of Adipose-Derived Stromal Cells Transplanted to Ischemic Limbs. Stem Cells, 2009, 27, 1976-1986.	1.4	72
96	Hyaline Cartilage Regeneration by Combined Therapy of Microfracture and Long-Term Bone Morphogenetic Protein-2 Delivery. Tissue Engineering - Part A, 2011, 17, 1809-1818.	1.6	71
97	Modified Magnesium Hydroxide Nanoparticles Inhibit the Inflammatory Response to Biodegradable Poly(lactide-<i>co</i>-glycolide) Implants. ACS Nano, 2018, 12, 6917-6925.	7.3	71
98	Effects of BMP-2 and vitamin D3 on the osteogenic differentiation of adipose stem cells. Biochemical and Biophysical Research Communications, 2011, 408, 126-131.	1.0	68
99	Nanocomplexâ€Mediated In Vivo Programming to Chimeric Antigen Receptorâ€M1 Macrophages for Cancer Therapy. Advanced Materials, 2021, 33, e2103258.	11.1	68
100	In vivo realâ€time bioimaging of hyaluronic acid derivatives using quantum dots. Biopolymers, 2008, 89, 1144-1153.	1.2	67
101	Nanogrooved substrate promotes direct lineage reprogramming ofÂfibroblasts to functional induced dopaminergic neurons. Biomaterials, 2015, 45, 36-45.	5.7	66
102	LONG-TERM FOLLOW-UP OF TISSUE-ENGINEERED INTESTINE AFTER ANASTOMOSIS TO NATIVE SMALL BOWEL12. Transplantation, 2000, 69, 1927-1932.	0.5	66
103	Angiogenesis Facilitated by Autologous Whole Bone Marrow Stem Cell Transplantation for Buerger's Disease. Stem Cells, 2006, 24, 1194-1200.	1.4	63
104	Chitosan-g-hematin: Enzyme-mimicking polymeric catalyst for adhesive hydrogels. Acta Biomaterialia, 2014, 10, 224-233.	4.1	63
105	Nanosphere-mediated delivery of vascular endothelial growth factor gene for therapeutic angiogenesis in mouse ischemic limbs. Biomaterials, 2008, 29, 1109-1117.	5.7	62
106	Delivery of bone morphogenetic protein-2 and substance P using graphene oxide for bone regeneration. International Journal of Nanomedicine, 2014, 9 Suppl 1, 107.	3.3	62
107	InÂvivo stem cell tracking with imageable nanoparticles that bind bioorthogonal chemical receptors on the stem cell surface. Biomaterials, 2017, 139, 12-29.	5.7	62
108	In Vivo Tracking of Mesechymal Stem Cells Using Fluorescent Nanoparticles in an Osteochondral Repair Model. Molecular Therapy, 2012, 20, 1434-1442.	3.7	61

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109	Orthotopic bone formation by implantation of apatiteâ€coated poly(lactideâ€<i>co</i>â€glycolide)/hydroxyapatite composite particulates and bone morphogenetic proteinâ€2. Journal of Biomedical Materials Research - Part A, 2008, 87A, 245-253.	2.1	60
110	Active Blood Vessel Formation in the Ischemic Hindlimb Mouse Model Using a Microsphere/Hydrogel Combination System. Pharmaceutical Research, 2010, 27, 767-774.	1.7	58
111	Cyclic strain inhibits switching of smooth muscle cells to an osteoblastâ€like phenotype. FASEB Journal, 2003, 17, 1-21.	0.2	57
112	Electroactive Electrospun Polyaniline/Poly[(<scp>L</scp>â€lactide)<i>â€coâ€</i>(<i>Îµ</i>â€caprolactone)] Fibers for Control of Neural Cell Function. Macromolecular Bioscience, 2012, 12, 402-411.	2.1	57
113	Improvement of Kidney Failure With Fetal Kidney Precursor Cell Transplantation. Transplantation, 2007, 83, 1249-1258.	0.5	55
114	Treatment of <scp>FGF</scp>â€2 on stem cells from inflamed dental pulp tissue from human deciduous teeth. Oral Diseases, 2014, 20, 191-204.	1.5	55
115	Open Macroporous Poly(lactic-co-glycolic Acid) Microspheres as an Injectable Scaffold for Cartilage Tissue Engineering. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 399-409.	1.9	54
116	The Efficacy of Bone Morphogenetic Proteinâ€2 Depends on Its Mode of Delivery. Artificial Organs, 2010, 34, 1150-1153.	1.0	54
117	Injury-Mediated Vascular Regeneration Requires Endothelial ER71/ETV2. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 86-96.	1.1	54
118	Dual-Modal Imaging-Guided Precise Tracking of Bioorthogonally Labeled Mesenchymal Stem Cells in Mouse Brain Stroke. ACS Nano, 2019, 13, 10991-11007.	7.3	53
119	Self-Assembled Extracellular Macromolecular Matrices and Their Different Osteogenic Potential with Preosteoblasts and Rat Bone Marrow Mesenchymal Stromal Cells. Biomacromolecules, 2012, 13, 2811-2820.	2.6	52
120	Effects of Anastomosis of Tissue-Engineered Neointestine to Native Small Bowel. Journal of Surgical Research, 1999, 87, 6-13.	0.8	50
121	Early diagnosis of arthritis in mice with collagen-induced arthritis, using a fluorogenic matrix metalloproteinase 3-specific polymeric probe. Arthritis and Rheumatism, 2011, 63, 3824-3832.	6.7	50
122	Heparin-conjugated polyethylenimine for gene delivery. Journal of Controlled Release, 2008, 132, 236-242.	4.8	49
123	<i>In vitro</i> cardiomyogenic differentiation of adiposeâ€derived stromal cells using transforming growth factorâ€<i>Î²</i>1. Cell Biochemistry and Function, 2009, 27, 148-154.	1.4	49
124	Non-invasive optical imaging of cathepsin B with activatable fluorogenic nanoprobes in various metastatic models. Biomaterials, 2014, 35, 2302-2311.	5.7	49
125	REGENERATIVE SIGNALS FOR INTESTINAL EPITHELIAL ORGANOID UNITS TRANSPLANTED ON BIODEGRADABLE POLYMER SCAFFOLDS FOR TISSUE ENGINEERING OF SMALL INTESTINE1,2. Transplantation, 1999, 67, 227-233.	0.5	49
126	Engineered Adipose Tissue Formation Enhanced by Basic Fibroblast Growth Factor and a Mechanically Stable Environment. Cell Transplantation, 2007, 16, 421-434.	1.2	47

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127	Engineering of Human Cartilage Rods: Potential Application for Penile Prostheses. Journal of Urology, 2002, 168, 1794-1797.	0.2	46
128	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.	2.1	46
129	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.	1.6	46
130	Apatite-Coated Collagen Scaffold for Bone Morphogenetic Protein-2 Delivery. Tissue Engineering - Part A, 2011, 17, 2153-2164.	1.6	46
131	Survival and function of rat hepatocytes cocultured with nonparenchymal cells or sinusoidal endothelial cells on biodegradable polymers under flow conditions. Journal of Pediatric Surgery, 2000, 35, 1287-1290.	0.8	45
132	Modulation of BMP-2-Induced Chondrogenic Versus Osteogenic Differentiation of Human Mesenchymal Stem Cells by Cell-Specific Extracellular Matrices. Tissue Engineering - Part A, 2013, 19, 49-58.	1.6	45
133	A Novel Polymeric Ionomer as a Potential Biomaterial: Crystallization Behavior, Degradation, and In-Vitro Cellular Interactions. Advanced Functional Materials, 2005, 15, 367-374.	7.8	44
134	Three-Dimensional Cell Grafting Enhances the Angiogenic Efficacy of Human Umbilical Vein Endothelial Cells. Tissue Engineering - Part A, 2012, 18, 310-319.	1.6	44
135	Nanothin Coculture Membranes with Tunable Pore Architecture and Thermoresponsive Functionality for Transfer-Printable Stem Cell-Derived Cardiac Sheets. ACS Nano, 2015, 9, 10186-10202.	7.3	44
136	Poly(l-lactide-co-glycolide) nanospheres conjugated with a nuclear localization signal for delivery of plasmid DNA. Journal of Drug Targeting, 2007, 15, 190-198.	2.1	43
137	Additive effect of endothelial progenitor cell mobilization and bone marrow mononuclear cell transplantation on angiogenesis in mouse ischemic limbs. Journal of Biomedical Science, 2007, 14, 323-330.	2.6	43
138	Smooth muscle-like tissues engineered with bone marrow stromal cells. Biomaterials, 2004, 25, 2979-2986.	5.7	42
139	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.	1.0	42
140	Ridge regeneration of damaged extraction sockets using rh<scp>BMP</scp>â€2: an experimental study in canine. Journal of Clinical Periodontology, 2015, 42, 678-687.	2.3	42
141	Thermosensitive, Stretchable, and Piezoelectric Substrate for Generation of Myogenic Cell Sheet Fragments from Human Mesenchymal Stem Cells for Skeletal Muscle Regeneration. Advanced Functional Materials, 2017, 27, 1703853.	7.8	42
142	Targeted Delivery of Mesenchymal Stem Cell-Derived Nanovesicles for Spinal Cord Injury Treatment. International Journal of Molecular Sciences, 2020, 21, 4185.	1.8	42
143	Small intestinal submucosa as a small-caliber venous graft: A novel model for hepatocyte transplantation on synthetic biodegradable polymer scaffolds with direct access to the portal venous system. Journal of Pediatric Surgery, 1999, 34, 124-128.	0.8	41
144	Cellular interactions and degradation of aliphatic poly(ester amide)s derived from glycine and/or 4-amino butyric acid. Biomaterials, 2003, 24, 3453-3462.	5.7	41

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145	The effect of the controlled release of nerve growth factor from collagen gel on the efficiency of neural cell culture. Biomaterials, 2009, 30, 126-132.	5.7	41
146	Adhesive barrier/directional controlled release for cartilage repair byÂendogenous progenitor cell recruitment. Biomaterials, 2015, 39, 173-181.	5.7	41
147	Tâ€Cellâ€Derived Nanovesicles for Cancer Immunotherapy. Advanced Materials, 2021, 33, e2101110.	11.1	41
148	Controlled release of nerve growth factor from fibrin gel. Journal of Biomedical Materials Research - Part A, 2007, 80A, 998-1002.	2.1	40
149	Behaviors of stem cells on carbon nanotube. Biomaterials Research, 2015, 19, 3.	3.2	40
150	Delivery of Basic Fibroblast Growth Factor Using Heparin-Conjugated Fibrin for Therapeutic Angiogenesis. Tissue Engineering - Part A, 2010, 16, 2113-2119.	1.6	39
151	Simple and facile preparation of recombinant human bone morphogenetic protein-2 immobilized titanium implant via initiated chemical vapor deposition technique to promote osteogenesis for bone tissue engineering application. Materials Science and Engineering C, 2019, 100, 949-958.	3.8	39
152	End-to-End Anastomosis between Tissue-Engineered Intestine and Native Small Bowel. Tissue Engineering, 1999, 5, 339-346.	4.9	38
153	Tissue-engineered neomucosa: morphology, enterocyte dynamics, and SGLT1 expression topography1. Transplantation, 2003, 75, 181-185.	0.5	38
154	Evidence for<i>In Vivo</i>Growth Potential and Vascular Remodeling of Tissue-Engineered Artery. Tissue Engineering - Part A, 2009, 15, 901-912.	1.6	38
155	Solid Free-Form Fabrication-Based PCL/HA Scaffolds Fabricated with a Multi-head Deposition System for Bone Tissue Engineering. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 951-962.	1.9	38
156	Cathepsin B-sensitive nanoprobe for in vivo tumor diagnosis. Journal of Materials Chemistry, 2011, 21, 17631.	6.7	38
157	Mutual effect of subcutaneously transplanted human adipose-derived stem cells and pancreatic islets within fibrin gel. Biomaterials, 2013, 34, 7247-7256.	5.7	38
158	Bone morphogenetic protein-2 for bone regeneration â€“ Dose reduction through graphene oxide-based delivery. Carbon, 2014, 78, 428-438.	5.4	38
159	Cooperative Catechol-Functionalized Polypept(o)ide Brushes and Ag Nanoparticles for Combination of Protein Resistance and Antimicrobial Activity on Metal Oxide Surfaces. Biomacromolecules, 2018, 19, 1602-1613.	2.6	38
160	Open pore biodegradable matrices formed with gas foaming. Journal of Biomedical Materials Research Part B, 1998, 42, 396-402.	3.0	38
161	SUCCESSFUL ANASTOMOSIS BETWEEN TISSUE-ENGINEERED INTESTINE AND NATIVE SMALL BOWEL1,2. Transplantation, 1999, 67, 241-245.	0.5	38
162	TISSUE ENGINEERED STENTS CREATED FROM CHONDROCYTES. Journal of Urology, 2001, 165, 2091-2095.	0.2	37

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163	Skin regeneration using keratinocytes and dermal fibroblasts cultured on biodegradable microspherical polymer scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 75B, 369-377.	1.6	37
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