

Byung-Soo Kim

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

349
papers

18,222
citations

75
h-index

120
g-index

352
ext. papers

20,057
ext. citations

7.3
avg, IF

6.54
L-index

#	Paper	IF	Citations
349	Development of biocompatible synthetic extracellular matrices for tissue engineering. <i>Trends in Biotechnology</i> , 1998 , 16, 224-30	15.1	751
348	Poly(lactide-co-glycolide)/hydroxyapatite composite scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2006 , 27, 1399-409	15.6	651
347	Open pore biodegradable matrices formed with gas foaming. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 42, 396-402		626
346	Cyclic mechanical strain regulates the development of engineered smooth muscle tissue. <i>Nature Biotechnology</i> , 1999 , 17, 979-83	44.5	379
345	Angiogenesis in ischemic tissue produced by spheroid grafting of human adipose-derived stromal cells. <i>Biomaterials</i> , 2011 , 32, 2734-47	15.6	271
344	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, 3317-22	11.5	250
343	Biomaterials for tissue engineering. <i>World Journal of Urology</i> , 2000 , 18, 2-9	4	247
342	Enhancement of ectopic bone formation by bone morphogenetic protein-2 released from a heparin-conjugated poly(L-lactic-co-glycolic acid) scaffold. <i>Biomaterials</i> , 2007 , 28, 2763-71	15.6	230
341	Design of artificial extracellular matrices for tissue engineering. <i>Progress in Polymer Science</i> , 2011 , 36, 238-268	29.6	214
340	Early in vivo experience with tissue-engineered trileaflet heart valves. <i>Circulation</i> , 2000 , 102, III22-9	16.7	209
339	Optimizing seeding and culture methods to engineer smooth muscle tissue on biodegradable polymer matrices 1998 , 57, 46-54		206
338	In vivo biocompatibility and degradation behavior of elastic poly(L-lactide-co-epsilon-caprolactone) scaffolds. <i>Biomaterials</i> , 2004 , 25, 5939-46	15.6	199
337	Small-diameter blood vessels engineered with bone marrow-derived cells. <i>Annals of Surgery</i> , 2005 , 241, 506-15	7.8	199
336	Implantation of bone marrow mononuclear cells using injectable fibrin matrix enhances neovascularization in infarcted myocardium. <i>Biomaterials</i> , 2005 , 26, 319-26	15.6	192
335	Mechano-active tissue engineering of vascular smooth muscle using pulsatile perfusion bioreactors and elastic PLCL scaffolds. <i>Biomaterials</i> , 2005 , 26, 1405-11	15.6	176
334	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, 2409-19	16.7	173
333	Engineered smooth muscle tissues: regulating cell phenotype with the scaffold. <i>Experimental Cell Research</i> , 1999 , 251, 318-28	4.2	173

332	Synergistic Oxygen Generation and Reactive Oxygen Species Scavenging by Manganese Ferrite/Ceria Co-decorated Nanoparticles for Rheumatoid Arthritis Treatment. <i>ACS Nano</i> , 2019 , 13, 3206-3217	16.7	171
331	Engineering smooth muscle tissue with a predefined structure. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 41, 322-32		171
330	Graphene oxide flakes as a cellular adhesive: prevention of reactive oxygen species mediated death of implanted cells for cardiac repair. <i>ACS Nano</i> , 2015 , 9, 4987-99	16.7	164
329	Long-term delivery enhances in vivo osteogenic efficacy of bone morphogenetic protein-2 compared to short-term delivery. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 369, 774-804	3.04	163
328	Long-term and zero-order release of basic fibroblast growth factor from heparin-conjugated poly(L-lactide-co-glycolide) nanospheres and fibrin gel. <i>Biomaterials</i> , 2006 , 27, 1598-607	15.6	162
327	In vitro biocompatibility assessment of naturally derived and synthetic biomaterials using normal human urothelial cells. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 33-9		161
326	Control of basic fibroblast growth factor release from fibrin gel with heparin and concentrations of fibrinogen and thrombin. <i>Journal of Controlled Release</i> , 2005 , 105, 249-59	11.7	156
325	pH-responsive assembly of gold nanoparticles and "spatiotemporally concerted" drug release for synergistic cancer therapy. <i>ACS Nano</i> , 2013 , 7, 3388-402	16.7	148
324	Delivery of a therapeutic protein for bone regeneration from a substrate coated with graphene oxide. <i>Small</i> , 2013 , 9, 4051-60	11	147
323	M1 Macrophage-Derived Nanovesicles Potentiate the Anticancer Efficacy of Immune Checkpoint Inhibitors. <i>ACS Nano</i> , 2018 , 12, 8977-8993	16.7	146
322	Hyaluronic acid-quantum dot conjugates for in vivo lymphatic vessel imaging. <i>ACS Nano</i> , 2009 , 3, 1389-98	6.7	146
321	Manufacture of elastic biodegradable PLCL scaffolds for mechano-active vascular tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 645-60	3.5	144
320	Morphology of elastic poly(L-lactide-co-epsilon-caprolactone) copolymers and in vitro and in vivo degradation behavior of their scaffolds. <i>Biomacromolecules</i> , 2004 , 5, 1303-9	6.9	142
319	Scaffolds for engineering smooth muscle under cyclic mechanical strain conditions. <i>Journal of Biomechanical Engineering</i> , 2000 , 122, 210-5	2.1	137
318	Hyaluronate-gold nanoparticle/tocilizumab complex for the treatment of rheumatoid arthritis. <i>ACS Nano</i> , 2014 , 8, 4790-8	16.7	136
317	Transplantation of cord blood mesenchymal stem cells as spheroids enhances vascularization. <i>Tissue Engineering - Part A</i> , 2012 , 18, 2138-47	3.9	135
316	Regeneration of whole meniscus using meniscal cells and polymer scaffolds in a rabbit total meniscectomy model. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 659-71	5.4	133
315	In vivo bone formation from human embryonic stem cell-derived osteogenic cells in poly(D,L-lactic-co-glycolic acid)/hydroxyapatite composite scaffolds. <i>Biomaterials</i> , 2008 , 29, 1043-53	15.6	131

314	Elastic biodegradable poly(glycolide-co-caprolactone) scaffold for tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 29-37		128
313	A poly(lactide-co-glycolide)/hydroxyapatite composite scaffold with enhanced osteoconductivity. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 206-15	5.4	127
312	Mechanical properties and degradation behaviors of hyaluronic acid hydrogels cross-linked at various cross-linking densities. <i>Carbohydrate Polymers</i> , 2007 , 70, 251-257	10.3	127
311	Mesenchymal Stem Cells Aggregate and Deliver Gold Nanoparticles to Tumors for Photothermal Therapy. <i>ACS Nano</i> , 2015 , 9, 9678-90	16.7	126
310	Engineering of volume-stable adipose tissues. <i>Biomaterials</i> , 2005 , 26, 3577-85	15.6	123
309	Dynamic seeding and in vitro culture of hepatocytes in a flow perfusion system. <i>Tissue Engineering</i> , 2000 , 6, 39-44		122
308	In Vitro Biocompatibility Evaluation Of Naturally Derived And Synthetic Biomaterials Using Normal Human Bladder Smooth Muscle Cells. <i>Journal of Urology</i> , 2002 , 167, 1867-1871	2.5	118
307	Graphene-regulated cardiomyogenic differentiation process of mesenchymal stem cells by enhancing the expression of extracellular matrix proteins and cell signaling molecules. <i>Advanced Healthcare Materials</i> , 2014 , 3, 176-81	10.1	117
306	Dual Roles of Graphene Oxide To Attenuate Inflammation and Elicit Timely Polarization of Macrophage Phenotypes for Cardiac Repair. <i>ACS Nano</i> , 2018 , 12, 1959-1977	16.7	116
305	Accelerated bonelike apatite growth on porous polymer/ceramic composite scaffolds in vitro. <i>Tissue Engineering</i> , 2006 , 12, 2997-3006		115
304	Dual Roles of Graphene Oxide in Chondrogenic Differentiation of Adult Stem Cells: Cell-Adhesion Substrate and Growth Factor-Delivery Carrier. <i>Advanced Functional Materials</i> , 2014 , 24, 6455-6464	15.6	112
303	A poly(lactic acid)/calcium metaphosphate composite for bone tissue engineering. <i>Biomaterials</i> , 2005 , 26, 6314-22	15.6	108
302	Enhanced cartilage formation via three-dimensional cell engineering of human adipose-derived stem cells. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1949-56	3.9	107
301	Effects of cardiac patches engineered with bone marrow-derived mononuclear cells and PGCL scaffolds in a rat myocardial infarction model. <i>Biomaterials</i> , 2007 , 28, 641-9	15.6	107
300	Iron oxide nanoparticle-mediated development of cellular gap junction crosstalk to improve mesenchymal stem cells' therapeutic efficacy for myocardial infarction. <i>ACS Nano</i> , 2015 , 9, 2805-19	16.7	102
299	Efficacious and clinically relevant conditioned medium of human adipose-derived stem cells for therapeutic angiogenesis. <i>Molecular Therapy</i> , 2014 , 22, 862-72	11.7	102
298	The effect of cyclic strain on embryonic stem cell-derived cardiomyocytes. <i>Biomaterials</i> , 2008 , 29, 844-56	15.6	102
297	Poly(lactic-co-glycolic acid) microspheres as an injectable scaffold for cartilage tissue engineering. <i>Tissue Engineering</i> , 2005 , 11, 438-47		100

296	Covalent conjugation of mechanically stiff graphene oxide flakes to three-dimensional collagen scaffolds for osteogenic differentiation of human mesenchymal stem cells. <i>Carbon</i> , 2015 , 83, 162-172	10.4	97
295	Heparin-conjugated fibrin as an injectable system for sustained delivery of bone morphogenetic protein-2. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1225-33	3.9	96
294	Injectable hyaluronic acid-tyramine hydrogels for the treatment of rheumatoid arthritis. <i>Acta Biomaterialia</i> , 2011 , 7, 666-74	10.8	95
293	In vivo bone formation following transplantation of human adipose-derived stromal cells that are not differentiated osteogenically. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1285-94	3.9	95
292	Effect of cross-linking reagents for hyaluronic acid hydrogel dermal fillers on tissue augmentation and regeneration. <i>Bioconjugate Chemistry</i> , 2010 , 21, 240-7	6.3	94
291	Enhancement of adipose tissue formation by implantation of adipogenic-differentiated preadipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 345, 588-94	3.4	92
290	Action potential duration restitution kinetics in human atrial fibrillation. <i>Journal of the American College of Cardiology</i> , 2002 , 39, 1329-36	15.1	88
289	Shear-reversibly crosslinked alginate hydrogels for tissue engineering. <i>Macromolecular Bioscience</i> , 2009 , 9, 895-901	5.5	87
288	Development of technologies aiding large-tissue engineering. <i>Biotechnology Progress</i> , 1998 , 14, 134-40	2.8	86
287	Studies of brush border enzymes, basement membrane components, and electrophysiology of tissue-engineered neointestine. <i>Journal of Pediatric Surgery</i> , 1998 , 33, 991-6; discussion 996-7	2.6	86
286	Peripheral nerve regeneration using acellular nerve grafts. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 201-9		86
285	Graphene Potentiates the Myocardial Repair Efficacy of Mesenchymal Stem Cells by Stimulating the Expression of Angiogenic Growth Factors and Gap Junction Protein. <i>Advanced Functional Materials</i> , 2015 , 25, 2590-2600	15.6	85
284	Culture of neural cells and stem cells on graphene. <i>Tissue Engineering and Regenerative Medicine</i> , 2013 , 10, 39-46	4.5	84
283	Enhanced skin wound healing by a sustained release of growth factors contained in platelet-rich plasma. <i>Experimental and Molecular Medicine</i> , 2011 , 43, 622-9	12.8	84
282	Graphene enhances the cardiomyogenic differentiation of human embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 452, 174-80	3.4	83
281	Apatite-coated poly(lactic-co-glycolic acid) microspheres as an injectable scaffold for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 747-56	5.4	83
280	Therapeutic effects of human adipose stem cell-conditioned medium on stroke. <i>Journal of Neuroscience Research</i> , 2012 , 90, 1794-802	4.4	82
279	Vascular patches tissue-engineered with autologous bone marrow-derived cells and decellularized tissue matrices. <i>Biomaterials</i> , 2005 , 26, 1915-24	15.6	82

278	Stem cell recruitment and angiogenesis of neuropeptide substance P coupled with self-assembling peptide nanofiber in a mouse hind limb ischemia model. <i>Biomaterials</i> , 2013 , 34, 1657-68	15.6	80
277	Therapeutic Efficacy-Potentiated and Diseased Organ-Targeting Nanovesicles Derived from Mesenchymal Stem Cells for Spinal Cord Injury Treatment. <i>Nano Letters</i> , 2018 , 18, 4965-4975	11.5	78
276	Transfection of mesenchymal stem cells with the FGF-2 gene improves their survival under hypoxic conditions. <i>Molecules and Cells</i> , 2005 , 19, 402-7	3.5	77
275	Efficient mRNA delivery with graphene oxide-polyethylenimine for generation of footprint-free human induced pluripotent stem cells. <i>Journal of Controlled Release</i> , 2016 , 235, 222-235	11.7	76
274	Tissue transglutaminase is essential for integrin-mediated survival of bone marrow-derived mesenchymal stem cells. <i>Stem Cells</i> , 2007 , 25, 1431-8	5.8	74
273	Injectable multifunctional microgel encapsulating outgrowth endothelial cells and growth factors for enhanced neovascularization. <i>Journal of Controlled Release</i> , 2014 , 187, 1-13	11.7	73
272	Comparison between heparin-conjugated fibrin and collagen sponge as bone morphogenetic protein-2 carriers for bone regeneration. <i>Experimental and Molecular Medicine</i> , 2012 , 44, 350-5	12.8	73
271	Control of the molecular degradation of hyaluronic acid hydrogels for tissue augmentation. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 685-93	5.4	73
270	Zinc Oxide Nanorod-Based Piezoelectric Dermal Patch for Wound Healing. <i>Advanced Functional Materials</i> , 2017 , 27, 1603497	15.6	72
269	The behavior of neural stem cells on biodegradable synthetic polymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 223-39	3.5	72
268	Thermally produced biodegradable scaffolds for cartilage tissue engineering. <i>Macromolecular Bioscience</i> , 2004 , 4, 802-10	5.5	70
267	Combining chondrocytes and smooth muscle cells to engineer hybrid soft tissue constructs. <i>Tissue Engineering</i> , 2000 , 6, 297-305		70
266	Mesenchymal stem cell-derived magnetic extracellular nanovesicles for targeting and treatment of ischemic stroke. <i>Biomaterials</i> , 2020 , 243, 119942	15.6	68
265	Highly porous polymer matrices as a three-dimensional culture system for hepatocytes. <i>Cell Transplantation</i> , 1997 , 6, 463-8	4	68
264	Articular cartilage regeneration with microfracture and hyaluronic acid. <i>Biotechnology Letters</i> , 2008 , 30, 435-9	3	68
263	Locally delivered growth factor enhances the angiogenic efficacy of adipose-derived stromal cells transplanted to ischemic limbs. <i>Stem Cells</i> , 2009 , 27, 1976-86	5.8	67
262	Suspension culture of mammalian cells using thermosensitive microcarrier that allows cell detachment without proteolytic enzyme treatment. <i>Cell Transplantation</i> , 2010 , 19, 1123-32	4	66
261	Gold Nanoparticle/Graphene Oxide Hybrid Sheets Attached on Mesenchymal Stem Cells for Effective Photothermal Cancer Therapy. <i>Chemistry of Materials</i> , 2017 , 29, 3461-3476	9.6	65

260	In situ hybridization of carbon nanotubes with bacterial cellulose for three-dimensional hybrid bioscaffolds. <i>Biomaterials</i> , 2015 , 58, 93-102	15.6	62
259	In vivo real-time bioimaging of hyaluronic acid derivatives using quantum dots. <i>Biopolymers</i> , 2008 , 89, 1144-53	2.2	61
258	Stimulation of chondrogenic differentiation of mesenchymal stem cells. <i>International Journal of Stem Cells</i> , 2012 , 5, 16-22	3	61
257	Effects of BMP-2 and vitamin D3 on the osteogenic differentiation of adipose stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 408, 126-31	3.4	60
256	Hyaline cartilage regeneration by combined therapy of microfracture and long-term bone morphogenetic protein-2 delivery. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1809-18	3.9	60
255	Porous poly(lactic-co-glycolic acid) microsphere as cell culture substrate and cell transplantation vehicle for adipose tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2008 , 14, 25-34	2.9	60
254	Nanosphere-mediated delivery of vascular endothelial growth factor gene for therapeutic angiogenesis in mouse ischemic limbs. <i>Biomaterials</i> , 2008 , 29, 1109-17	15.6	56
253	Long-term follow-up of tissue-engineered intestine after anastomosis to native small bowel. <i>Transplantation</i> , 2000 , 69, 1927-32	1.8	55
252	Angiogenesis facilitated by autologous whole bone marrow stem cell transplantation for Buerger's disease. <i>Stem Cells</i> , 2006 , 24, 1194-200	5.8	54
251	Chitosan-g-hematin: enzyme-mimicking polymeric catalyst for adhesive hydrogels. <i>Acta Biomaterialia</i> , 2014 , 10, 224-33	10.8	53
250	In vivo tracking of mesenchymal stem cells using fluorescent nanoparticles in an osteochondral repair model. <i>Molecular Therapy</i> , 2012 , 20, 1434-42	11.7	53
249	Orthotopic bone formation by implantation of apatite-coated poly(lactide-co-glycolide)/hydroxyapatite composite particulates and bone morphogenetic protein-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 245-53	5.4	53
248	Active blood vessel formation in the ischemic hindlimb mouse model using a microsphere/hydrogel combination system. <i>Pharmaceutical Research</i> , 2010 , 27, 767-74	4.5	52
247	Cyclic strain inhibits switching of smooth muscle cells to an osteoblast-like phenotype. <i>FASEB Journal</i> , 2003 , 17, 455-7	0.9	52
246	Nanogrooved substrate promotes direct lineage reprogramming of fibroblasts to functional induced dopaminergic neurons. <i>Biomaterials</i> , 2015 , 45, 36-45	15.6	50
245	Nanovesicles derived from iron oxide nanoparticles-incorporated mesenchymal stem cells for cardiac repair. <i>Science Advances</i> , 2020 , 6, eaaz0952	14.3	49
244	Self-assembled extracellular macromolecular matrices and their different osteogenic potential with preosteoblasts and rat bone marrow mesenchymal stromal cells. <i>Biomacromolecules</i> , 2012 , 13, 2811-20	6.9	48
243	Open macroporous poly(lactic-co-glycolic Acid) microspheres as an injectable scaffold for cartilage tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 399-409	3.5	48

242	Modified Magnesium Hydroxide Nanoparticles Inhibit the Inflammatory Response to Biodegradable Poly(lactide- co-glycolide) Implants. <i>ACS Nano</i> , 2018 , 12, 6917-6925	16.7	48
241	Delivery of bone morphogenetic protein-2 and substance P using graphene oxide for bone regeneration. <i>International Journal of Nanomedicine</i> , 2014 , 9 Suppl 1, 107-16	7.3	47
240	The efficacy of bone morphogenetic protein-2 depends on its mode of delivery. <i>Artificial Organs</i> , 2010 , 34, 1150-3	2.6	47
239	In vivo stem cell tracking with imageable nanoparticles that bind bioorthogonal chemical receptors on the stem cell surface. <i>Biomaterials</i> , 2017 , 139, 12-29	15.6	46
238	Electroactive electrospun polyaniline/poly[(L-lactide)-co-(ε-caprolactone)] fibers for control of neural cell function. <i>Macromolecular Bioscience</i> , 2012 , 12, 402-11	5.5	46
237	Heparin-conjugated polyethylenimine for gene delivery. <i>Journal of Controlled Release</i> , 2008 , 132, 236-42	11.7	46
236	Early diagnosis of arthritis in mice with collagen-induced arthritis, using a fluorogenic matrix metalloproteinase 3-specific polymeric probe. <i>Arthritis and Rheumatism</i> , 2011 , 63, 3824-32		45
235	Effects of anastomosis of tissue-engineered neointestine to native small bowel. <i>Journal of Surgical Research</i> , 1999 , 87, 6-13	2.5	44
234	Treatment of FGF-2 on stem cells from inflamed dental pulp tissue from human deciduous teeth. <i>Oral Diseases</i> , 2014 , 20, 191-204	3.5	43
233	Non-invasive optical imaging of cathepsin B with activatable fluorogenic nanoprobe in various metastatic models. <i>Biomaterials</i> , 2014 , 35, 2302-11	15.6	43
232	In vitro cardiomyogenic differentiation of adipose-derived stromal cells using transforming growth factor-beta1. <i>Cell Biochemistry and Function</i> , 2009 , 27, 148-54	4.2	43
231	Engineering of Human Cartilage Rods: Potential Application for Penile Protheses. <i>Journal of Urology</i> , 2002 , 168, 1794-1797	2.5	43
230	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 , 79, 353-9	3.5	42
229	Improvement of kidney failure with fetal kidney precursor cell transplantation. <i>Transplantation</i> , 2007 , 83, 1249-58	1.8	42
228	Poly(L-lactide-co-glycolide) nanospheres conjugated with a nuclear localization signal for delivery of plasmid DNA. <i>Journal of Drug Targeting</i> , 2007 , 15, 190-8	5.4	42
227	A Novel Polymeric Ionomer as a Potential Biomaterial: Crystallization Behavior, Degradation, and In-Vitro Cellular Interactions. <i>Advanced Functional Materials</i> , 2005 , 15, 367-374	15.6	42
226	Immunomodulatory Lipocomplex Functionalized with Photosensitizer-Embedded Cancer Cell Membrane Inhibits Tumor Growth and Metastasis. <i>Nano Letters</i> , 2019 , 19, 5185-5193	11.5	41
225	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 , 76, 252-63	5.4	41

224	Survival and function of rat hepatocytes cocultured with nonparenchymal cells or sinusoidal endothelial cells on biodegradable polymers under flow conditions. <i>Journal of Pediatric Surgery</i> , 2000 , 35, 1287-90	2.6	41
223	Three-dimensional cell grafting enhances the angiogenic efficacy of human umbilical vein endothelial cells. <i>Tissue Engineering - Part A</i> , 2012 , 18, 310-9	3.9	40
222	Engineered adipose tissue formation enhanced by basic fibroblast growth factor and a mechanically stable environment. <i>Cell Transplantation</i> , 2007 , 16, 421-34	4	40
221	Smooth muscle-like tissues engineered with bone marrow stromal cells. <i>Biomaterials</i> , 2004 , 25, 2979-86	15.6	40
220	Modulation of BMP-2-induced chondrogenic versus osteogenic differentiation of human mesenchymal stem cells by cell-specific extracellular matrices. <i>Tissue Engineering - Part A</i> , 2013 , 19, 49-58	3.9	39
219	Apatite-coated collagen scaffold for bone morphogenetic protein-2 delivery. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2153-64	3.9	39
218	The effect of the controlled release of nerve growth factor from collagen gel on the efficiency of neural cell culture. <i>Biomaterials</i> , 2009 , 30, 126-32	15.6	39
217	Nanothin Coculture Membranes with Tunable Pore Architecture and Thermo-responsive Functionality for Transfer-Printable Stem Cell-Derived Cardiac Sheets. <i>ACS Nano</i> , 2015 , 9, 10186-202	16.7	37
216	Additive effect of endothelial progenitor cell mobilization and bone marrow mononuclear cell transplantation on angiogenesis in mouse ischemic limbs. <i>Journal of Biomedical Science</i> , 2007 , 14, 323-30	13.3	37
215	Regenerative signals for intestinal epithelial organoid units transplanted on biodegradable polymer scaffolds for tissue engineering of small intestine. <i>Transplantation</i> , 1999 , 67, 227-33	1.8	37
214	Open pore biodegradable matrices formed with gas foaming		37
213	Injury-Mediated Vascular Regeneration Requires Endothelial ER71/ETV2. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 86-96	9.4	36
212	Controlled release of nerve growth factor from fibrin gel. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 998-1002	5.4	36
211	Regeneration of whole meniscus using meniscal cells and polymer scaffolds in a rabbit total meniscectomy model. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 659-71	5.4	36
210	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, 40-5	3.4	36
209	Cellular interactions and degradation of aliphatic poly(ester amide)s derived from glycine and/or 4-amino butyric acid. <i>Biomaterials</i> , 2003 , 24, 3453-62	15.6	36
208	Skin regeneration using keratinocytes and dermal fibroblasts cultured on biodegradable microspherical polymer scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 75, 369-77	3.5	36
207	Adhesive barrier/directional controlled release for cartilage repair by endogenous progenitor cell recruitment. <i>Biomaterials</i> , 2015 , 39, 173-81	15.6	35

206	Bone morphogenetic protein-2 for bone regeneration Dose reduction through graphene oxide-based delivery. <i>Carbon</i> , 2014 , 78, 428-438	10.4	35
205	Behaviors of stem cells on carbon nanotube. <i>Biomaterials Research</i> , 2015 , 19, 3	16.8	35
204	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. <i>Journal of Pediatric Surgery</i> , 1999 , 34, 124-8	2.6	35
203	Delivery of basic fibroblast growth factor using heparin-conjugated fibrin for therapeutic angiogenesis. <i>Tissue Engineering - Part A</i> , 2010 , 16, 2113-9	3.9	34
202	Evidence for in vivo growth potential and vascular remodeling of tissue-engineered artery. <i>Tissue Engineering - Part A</i> , 2009 , 15, 901-12	3.9	34
201	Effect of chondrocyte passage number on histological aspects of tissue-engineered cartilage. <i>Bio-Medical Materials and Engineering</i> , 2007 , 17, 269-76	1	34
200	Dual-Modal Imaging-Guided Precise Tracking of Bioorthogonally Labeled Mesenchymal Stem Cells in Mouse Brain Stroke. <i>ACS Nano</i> , 2019 , 13, 10991-11007	16.7	33
199	Mutual effect of subcutaneously transplanted human adipose-derived stem cells and pancreatic islets within fibrin gel. <i>Biomaterials</i> , 2013 , 34, 7247-56	15.6	33
198	Cartilage tissue formation from dedifferentiated chondrocytes by codelivery of BMP-2 and SOX-9 genes encoding bicistronic vector. <i>Cell Transplantation</i> , 2013 , 22, 1519-28	4	33
197	Cathepsin B-sensitive nanoprobe for in vivo tumor diagnosis. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17631		33
196	Tissue-engineered neomucosa: morphology, enterocyte dynamics, and SGLT1 expression topography. <i>Transplantation</i> , 2003 , 75, 181-5	1.8	33
195	TISSUE ENGINEERED STENTS CREATED FROM CHONDROCYTES. <i>Journal of Urology</i> , 2001 , 165, 2091-2095	5.5	33
194	End-to-end anastomosis between tissue-engineered intestine and native small bowel. <i>Tissue Engineering</i> , 1999 , 5, 339-46		32
193	In vivo fluorescence imaging for cancer diagnosis using receptor-targeted epidermal growth factor-based nanoprobe. <i>Biomaterials</i> , 2013 , 34, 9149-59	15.6	31
192	Synergistic effect of sustained delivery of basic fibroblast growth factor and bone marrow mononuclear cell transplantation on angiogenesis in mouse ischemic limbs. <i>Biomaterials</i> , 2006 , 27, 1617-25	15.6	31
191	The role of tauroursodeoxycholic acid on adipogenesis of human adipose-derived stem cells by modulation of ER stress. <i>Biomaterials</i> , 2014 , 35, 2851-8	15.6	30
190	Enhancement of angiogenic efficacy of human cord blood cell transplantation. <i>Tissue Engineering</i> , 2006 , 12, 1651-61		30
189	Integration of mesenchymal stem cells with nanobiomaterials for the repair of myocardial infarction. <i>Advanced Drug Delivery Reviews</i> , 2015 , 95, 15-28	18.5	29

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