Jong-Chul Park

List of Publications by Year
in descending order

166 papers	4,884 citations	101384 36 h-index	123241 61 g-index
168 all docs	168 docs citations	168 times ranked	7451 citing authors

#	Article	IF	Citations
1	Characterization of porous collagen/hyaluronic acid scaffold modified by 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide cross-linking. Biomaterials, 2002, 23, 1205-1212.	5.7	461
2	Polydopamine-mediated immobilization of multiple bioactive molecules for the development of functional vascular graft materials. Biomaterials, 2012, 33, 8343-8352.	5.7	155
3	Reduced graphene oxide-coated hydroxyapatite composites stimulate spontaneous osteogenic differentiation of human mesenchymal stem cells. Nanoscale, 2015, 7, 11642-11651.	2.8	143
4	Mussel-Inspired Immobilization of Vascular Endothelial Growth Factor (VEGF) for Enhanced Endothelialization of Vascular Grafts. Biomacromolecules, 2012, 13, 2020-2028.	2.6	142
5	Behavior of osteoblasts on a type I atelocollagen grafted ozone oxidized poly-?-lactic acid membrane. Biomaterials, 2001, 22, 219-230.	5.7	131
6	Analysis of sterilization effect by pulsed dielectric barrier discharge. Journal of Electrostatics, 2006, 64, 17-22.	1.0	131
7	Degradation of mycotoxins using microwave-induced argon plasma at atmospheric pressure. Surface and Coatings Technology, 2007, 201, 5733-5737.	2.2	111
8	Enhanced Patency and Endothelialization of Small-Caliber Vascular Grafts Fabricated by Coimmobilization of Heparin and Cell-Adhesive Peptides. ACS Applied Materials & Interfaces, 2016, 8, 4336-4346.	4.0	98
9	Asiaticoside enhances normal human skin cell migration, attachment and growth in vitro wound healing model. Phytomedicine, 2012, 19, 1223-1227.	2.3	92
10	Sterilization of Escherichia coli and MRSA using microwave-induced argon plasma at atmospheric pressure. Surface and Coatings Technology, 2005, 193, 35-38.	2.2	90
11	Enhanced chondrogenic responses of articular chondrocytes onto porous silk fibroin scaffolds treated with microwave-induced argon plasma. Surface and Coatings Technology, 2008, 202, 5794-5797.	2.2	82
12	Photosensitizer and vancomycin-conjugated novel multifunctional magnetic particles as photoinactivation agents for selective killing of pathogenic bacteria. Chemical Communications, 2012, 48, 4591.	2.2	74
13	Synergistic effects of reduced graphene oxide and hydroxyapatite on osteogenic differentiation of MC3T3-E1 preosteoblasts. Carbon, 2015, 95, 1051-1060.	5.4	66
14	RGD peptide and graphene oxide co-functionalized PLGA nanofiber scaffolds for vascular tissue engineering. International Journal of Energy Production and Management, 2017, 4, 159-166.	1.9	66
15	Stimulating effect of graphene oxide on myogenesis of C2C12 myoblasts on RGD peptide-decorated PLGA nanofiber matrices. Journal of Biological Engineering, 2015, 9, 22.	2.0	64
16	Enhanced Neural Cell Adhesion and Neurite Outgrowth on Graphene-Based Biomimetic Substrates. BioMed Research International, 2014, 2014, 1-8.	0.9	63
17	Removal and sterilization of biofilms and planktonic bacteria by microwave-induced argon plasma at atmospheric pressure. New Journal of Physics, 2009, 11, 115022.	1.2	60
18	Transforming growth factor-beta 1 in adipose derived stem cells conditioned medium is a dominant paracrine mediator determines hyaluronic acid and collagen expression profile. Cytotechnology, 2011, 63, 57-66.	0.7	60

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19	Surface modification of polytetrafluoroethylene using atmospheric pressure plasma jet for medical application. Surface and Coatings Technology, 2007, 201, 5097-5101.	2.2	57
20	Antifungal susceptibility of epigallocatechin 3-O-gallate (EGCg) on clinical isolates of pathogenic yeasts. Biochemical and Biophysical Research Communications, 2006, 347, 401-405.	1.0	56
21	Apoptosis of human fibrosarcoma HT-1080 cells by epigallocatechin-3-O-gallate via induction of p53 and caspases as well as suppression of Bcl-2 and phosphorylated nuclear factor-ÎºB. Apoptosis: an International Journal on Programmed Cell Death, 2011, 16, 75-85.	2.2	55
22	Various Ca/P ratios of thin calcium phosphate films. Materials Science and Engineering C, 2002, 22, 15-20.	3.8	54
23	Inactivation of Bacteria in Seawater by Low-Amperage Electric Current. Applied and Environmental Microbiology, 2003, 69, 2405-2408.	1.4	54
24	Protective effects of green tea polyphenol against reactive oxygen species-induced oxidative stress in cultured rat calvarial osteoblast. Cell Biology and Toxicology, 2003, 19, 325-337.	2.4	53
25	RGD peptide-immobilized electrospun matrix of polyurethane for enhanced endothelial cell affinity. Biomedical Materials (Bristol), 2008, 3, 044104.	1.7	53
26	Coculture of Primary Motor Neurons and Schwann Cells as a Model for In Vitro Myelination. Scientific Reports, 2015, 5, 15122.	1.6	53
27	Functional improvement of hemostatic dressing by addition of recombinant batroxobin. Acta Biomaterialia, 2017, 48, 175-185.	4.1	53
28	Plasma surface modification of poly (d,l-lactic-co-glycolic acid) (65/35) film for tissue engineering. Surface and Coatings Technology, 2005, 193, 60-64.	2.2	51
29	Type I atelocollagen grafting onto ozone-treated polyurethane films: Cell attachment, proliferation, and collagen synthesis. Journal of Biomedical Materials Research Part B, 2000, 52, 669-677.	3.0	49
30	Evaluation of the Extraction Method for the Cytotoxicity Testing of Latex Gloves. Yonsei Medical Journal, 2005, 46, 579.	0.9	47
31	Biocompatibility and charge injection property of iridium film formed by ion beam assisted deposition. Biomaterials, 2003, 24, 2225-2231.	5.7	42
32	Chemotactic Migration of Human Mesenchymal Stem Cells and MC3T3-E1 Osteoblast-Like Cells Induced by COS-7 Cell Line Expressing rhBMP-7. Tissue Engineering, 2006, 12, 1577-1586.	4.9	42
33	Effective stacking and transplantation of stem cell sheets using exogenous ROS-producing film for accelerated wound healing. Acta Biomaterialia, 2019, 95, 418-426.	4.1	41
34	Preventive Effects of Epigallocatechin-3-O-Gallate against Replicative Senescence Associated with p53 Acetylation in Human Dermal Fibroblasts. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-13.	1.9	39
35	Prevention of reactive oxygen species-induced oxidative stress in human microvascular endothelial cells by green tea polyphenol. Toxicology Letters, 2005, 155, 269-275.	0.4	38
36	Escherichia coli sterilization and lipopolysaccharide inactivation using microwave-induced argon plasma at atmospheric pressure. Surface and Coatings Technology, 2007, 201, 5738-5741.	2.2	38

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37	The biological activities of (1,3)-(1,6)-Î²-d-glucan and porous electrospun PLGA membranes containing Î²-glucan in human dermal fibroblasts and adipose tissue-derived stem cells. Biomedical Materials (Bristol), 2010, 5, 044109.	1.7	38
38	Development of a Shapeâ€Memory Tube to Prevent Vascular Stenosis. Advanced Materials, 2019, 31, e1904476.	11.1	38
39	Heparinized bovine pericardium as a novel cardiovascular bioprosthesis. Biomaterials, 2000, 21, 2323-2330.	5.7	37
40	PLGA scaffold incorporated with hydroxyapatite for cartilage regeneration. Surface and Coatings Technology, 2008, 202, 5757-5761.	2.2	36
41	Epigallocatechin-3-gallate regulates cell growth, cell cycle and phosphorylated nuclear factor-ÎºB in human dermal fibroblasts. Acta Pharmacologica Sinica, 2011, 32, 637-646.	2.8	36
42	Long-Term Preservation of Human Saphenous Vein by Green Tea Polyphenol under Physiological Conditions. Tissue Engineering, 2005, 11, 1054-1064.	4.9	35
43	Enhanced Chondrogenic Responses of Human Articular Chondrocytes Onto Silk Fibroin/Wool Keratose Scaffolds Treated With Microwaveâ€Induced Argon Plasma. Artificial Organs, 2010, 34, 384-392.	1.0	35
44	Surface modification for enhancing behaviors of vascular endothelial cells onto polyurethane films by microwave-induced argon plasma. Surface and Coatings Technology, 2008, 202, 5768-5772.	2.2	34
45	An Infection-Preventing Bilayered Collagen Membrane Containing Antibiotic-Loaded Hyaluronan Microparticles: Physical and Biological Properties. Artificial Organs, 2002, 26, 636-646.	1.0	33
46	Formation of silver incorporated calcium phosphate film for medical applications. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 45-47.	0.6	33
47	Evaluation of the Cytotoxicity of Polyetherurethane (PU) Film Containing Zinc Diethyldithiocarbamate (ZDEC) on Various Cell Lines. Yonsei Medical Journal, 2002, 43, 518.	0.9	32
48	Evaluation of Electrospun (1,3)-(1,6)-Î²-D-Glucans/Biodegradable Polymer as Artificial Skin for Full-Thickness Wound Healing. Tissue Engineering - Part A, 2012, 18, 2315-2322.	1.6	32
49	Biological Advantages of Porous Hydroxyapatite Scaffold Made by Solid Freeform Fabrication for Bone Tissue Regeneration. Artificial Organs, 2013, 37, 663-670.	1.0	32
50	PLGA nanofiber membranes loaded with epigallocatechin-3-O-gallate are beneficial to prevention of postsurgical adhesions. International Journal of Nanomedicine, 2014, 9, 4067.	3.3	32
51	A comparative study of the physical and mechanical properties of porous hydroxyapatite scaffolds fabricated by solid freeform fabrication and polymer replication method. International Journal of Precision Engineering and Manufacturing, 2011, 12, 695-701.	1.1	31
52	Tissueâ€engineered blood vessels with endothelial nitric oxide synthase activity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 85B, 537-546.	1.6	30
53	Promotion of Fullâ€Thickness Wound Healing Using Epigallocatechinâ€3â€<scp>O</scp>â€Gallate/Poly (Lacticâ€<scp>C</scp>oâ€<scp>G</scp>lycolic Acid) Membrane as Temporary Wound Dressing. Artificial Organs, 2014, 38, 411-417.	1.0	29
54	Controlled Delivery of Extracellular ROS Based on Hematoporphyrin-Incorporated Polyurethane Film for Enhanced Proliferation of Endothelial Cells. ACS Applied Materials & Interfaces, 2016, 8, 28448-28457.	4.0	29

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55	Stimulated Osteogenic Differentiation of Human Mesenchymal Stem Cells by Reduced Graphene Oxide. Journal of Nanoscience and Nanotechnology, 2015, 15, 7966-7970.	0.9	28
56	Differential biological responses of green tea polyphenol in normal cells vs. cancer cells. Current Applied Physics, 2005, 5, 449-452.	1.1	27
57	Sterilization of microorganisms in silk fabrics by microwave-induced argon plasma treatment at atmospheric pressure. Surface and Coatings Technology, 2008, 202, 5773-5778.	2.2	27
58	Formation of nano iridium oxide: material properties and neural cell culture. Thin Solid Films, 2005, 475, 332-336.	0.8	26
59	Optogenetic neuronal stimulation promotes axon outgrowth and myelination of motor neurons in a threeâ€dimensional motor neuronâ€“Schwann cell coculture model on a microfluidic biochip. Biotechnology and Bioengineering, 2019, 116, 2425-2438.	1.7	26
60	Heat Shock Protein 90 Inhibitor (17-AAG) Induces Apoptosis and Decreases Cell Migration/Motility of Keloid Fibroblasts. Plastic and Reconstructive Surgery, 2015, 136, 44e-53e.	0.7	25
61	High-Mobility Group Box 1 Mediates Fibroblast Activity via RAGE-MAPK and NF-ÎºB Signaling in Keloid Scar Formation. International Journal of Molecular Sciences, 2018, 19, 76.	1.8	25
62	Dedifferentiated Schwann cells secrete progranulin that enhances the survival and axon growth of motor neurons. Glia, 2019, 67, 360-375.	2.5	25
63	A Bone Replaceable Artificial Bone Substitute: Osteoinduction by Combining with Bone Inducing Agent. Artificial Organs, 2001, 25, 459-466.	1.0	24
64	Inhibitory effects of epigallocatechin-3-O-gallate on serum-stimulated rat aortic smooth muscle cells via nuclear factor-ÎºB down-modulation. Biochemical and Biophysical Research Communications, 2006, 345, 148-155.	1.0	24
65	Laminin Modified Infection-Preventing Collagen Membrane Containing Silver Sulfadiazine-Hyaluronan Microparticles. Artificial Organs, 2002, 26, 521-528.	1.0	23
66	Protection of rabbit kidney from ischemia/reperfusion injury by green tea polyphenol pretreatment. Archives of Pharmacal Research, 2007, 30, 1447-1454.	2.7	23
67	In VitroAntifungal Activity of Epigallocatechin 3-O-Gallate against Clinical Isolates of Dermatophytes. Yonsei Medical Journal, 2011, 52, 535.	0.9	23
68	Inactivation of Vibrio parahaemolyticus in Effluent Seawater by Alternating-Current Treatment. Applied and Environmental Microbiology, 2004, 70, 1833-1835.	1.4	22
69	The effective control of a bleeding injury using a medical adhesive containing batroxobin. Biomedical Materials (Bristol), 2014, 9, 025002.	1.7	22
70	Exogenous ROS-induced cell sheet transfer based on hematoporphyrin-polyketone film via a one-step process. Biomaterials, 2018, 161, 47-56.	5.7	22
71	Increasing potential risks of contamination from repetitive use of endoscope. American Journal of Infection Control, 2015, 43, e13-e17.	1.1	21
72	Control of neonatal human dermal fibroblast migration on poly(lactic-co-glycolic acid)-coated surfaces by electrotaxis. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 862-868.	1.3	21

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73	Tyrosinase-Mediated Surface Coimmobilization of Heparin and Silver Nanoparticles for Antithrombotic and Antimicrobial Activities. ACS Applied Materials & Interfaces, 2017, 9, 20376-20384.	4.0	21
74	A Bone Replaceable Artificial Bone Substitute: Cytotoxicity, Cell Adhesion, Proliferation, and Alkaline Phosphataseâ€ƒActivity. Artificial Organs, 2001, 25, 14-21.	1.0	20
75	Effects of Î²-glucan on proliferation and migration of fibroblasts. Current Applied Physics, 2005, 5, 468-471.	1.1	20
76	Cellular responses of vascular endothelial cells on surface modified polyurethane films grafted electrospun PLGA fiber with microwave-induced plasma at atmospheric pressure. Surface and Coatings Technology, 2010, 205, S222-S226.	2.2	20
77	Golgi polarization plays a role in the directional migration of neonatal dermal fibroblasts induced by the direct current electric fields. Biochemical and Biophysical Research Communications, 2015, 460, 255-260.	1.0	20
78	Multiphoton imaging of myogenic differentiation in gelatin-based hydrogels as tissue engineering scaffolds. Biomaterials Research, 2016, 20, 2.	3.2	20
79	In-Vivo and In-Vitro Biocompatibility Evaluations of Silver Nanoparticles with Antimicrobial Activity. Journal of Nanoscience and Nanotechnology, 2012, 12, 5205-5209.	0.9	19
80	Cell Migration According to Shape of Graphene Oxide Micropatterns. Micromachines, 2016, 7, 186.	1.4	19
81	Characterization and preparation of bio-tubular scaffolds for fabricating artificial vascular grafts by combining electrospinning and a co-culture system. Macromolecular Research, 2016, 24, 131-142.	1.0	19
82	Preservation of Human Saphenous Vein against Reactive Oxygen Species-induced Oxidative Stress by Green Tea Polyphenol Pretreatment. Artificial Organs, 2003, 27, 1137-1142.	1.0	18
83	The use of Silver-coated Ceramic Beads for Sterilization of Sphingomonas sp. in Drinking Mineral Water. World Journal of Microbiology and Biotechnology, 2005, 21, 921-924.	1.7	18
84	Beneficial effects of microwave-induced argon plasma treatment on cellular behaviors of articular chondrocytes onto nanofibrous silk fibroin mesh. Macromolecular Research, 2009, 17, 703-708.	1.0	18
85	Titanium surface modification by using microwave-induced argon plasma in various conditions to enhance osteoblast biocompatibility. Biomaterials Research, 2015, 19, 13.	3.2	18
86	Stem cell passage affects directional migration of stem cells in electrotaxis. Stem Cell Research, 2019, 38, 101475.	0.3	18
87	Fabrication of endothelial cell-specific polyurethane surfaces co-immobilized with GRGDS and YIGSR peptides. Macromolecular Research, 2009, 17, 458-463.	1.0	17
88	Recombinant batroxobin-coated nonwoven chitosan as hemostatic dressing for initial hemorrhage control. International Journal of Biological Macromolecules, 2018, 113, 757-763.	3.6	17
89	Effects of low temperature hydrogen peroxide gas on sterilization and cytocompatibility of porous poly(d,l-lactic-co-glycolic acid) scaffolds. Surface and Coatings Technology, 2008, 202, 5762-5767.	2.2	16
90	Underlying mechanism for suppression of vascular smooth muscle cells by green tea polyphenol EGCG released from biodegradable polymers for stent application. Journal of Biomedical Materials Research - Part A, 2010, 95A, 424-433.	2.1	16

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91	Mitogenesis of Vascular Smooth Muscle Cell Stimulated by Platelet-Derived Growth Factor-bb Is Inhibited by Blocking of Intracellular Signaling by Epigallocatechin-3-O-Gallate. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-10.	1.9	16
92	Stimulated migration and penetration of vascular endothelial cells into poly (L-lactic acid) scaffolds under flow conditions. Biomaterials Research, 2014, 18, 7.	3.2	16
93	Epigallocatechin-3-<I>O</I>-Gallate-Loaded Poly(lactic-<I>co</I>-glycolic acid) Fibrous Sheets as Anti-Adhesion Barriers. Journal of Biomedical Nanotechnology, 2015, 11, 1461-1471.	0.5	16
94	Effects of thymosin Î²4 on wound healing of rat palatal mucosa. International Journal of Molecular Medicine, 2014, 34, 816-821.	1.8	15
95	Adipose-derived stem cell-released osteoprotegerin protects cardiomyocytes from reactive oxygen species-induced cell death. Stem Cell Research and Therapy, 2017, 8, 195.	2.4	15
96	Effects of green tea polyphenol on preservation of human saphenous vein. Journal of Biotechnology, 2004, 110, 109-117.	1.9	14
97	Synergistic induction of cyclooxygenase-II by bacterial lipopolysaccharide in combination with particles of medical device materials in a murine macrophage cell line J774A.1. Journal of Biomedical Materials Research Part B, 2001, 55, 547-553.	3.0	13
98	Molecular cloning and biochemical characterization of Candida albicans acyl-CoA:sterol acyltransferase, a potential target of antifungal agents. Biochemical and Biophysical Research Communications, 2004, 319, 911-919.	1.0	13
99	Promoted cell and material interaction on atmospheric pressure plasma treated titanium. Applied Surface Science, 2012, 258, 4718-4723.	3.1	13
100	Recent Advances in ROS-Responsive Cell Sheet Techniques for Tissue Engineering. International Journal of Molecular Sciences, 2019, 20, 5656.	1.8	13
101	Specific Determination of Endothelial Cell Viability in the Whole Cell Fraction from Cryopreserved Canine Femoral Veins Using Flowâ€ƒCytometry. Artificial Organs, 2000, 24, 829-833.	1.0	12
102	The Effects of Recombinant Human BMP-7, Prepared from a COS-7 Expression System, on the Proliferation and Differentiation of Rat Newborn Calvarial Osteoblasts. Yonsei Medical Journal, 2003, 44, 593.	0.9	12
103	Development of epigallocatechin gallate-eluting polymeric stent and its physicochemical, biomechanical and biological evaluations. Biomedical Materials (Bristol), 2009, 4, 044104.	1.7	12
104	Selective Inhibitory Effect of Epigallocatechin-3-gallate on Migration of Vascular Smooth Muscle Cells. Molecules, 2010, 15, 8488-8500.	1.7	12
105	Selective fibronectin adsorption against albumin and enhanced stem cell attachment on helium atmospheric pressure glow discharge treated titanium. Journal of Applied Physics, 2011, 109, .	1.1	12
106	Heparin-functionalized polymer graft surface eluting MK2 inhibitory peptide to improve hemocompatibility and anti-neointimal activity. Journal of Controlled Release, 2017, 266, 321-330.	4.8	12
107	Protection of osteoblastic cells from freeze/thaw cycle-induced oxidative stress by green tea polyphenol. Biotechnology Letters, 2005, 27, 655-660.	1.1	11
108	In VitroBioassay of Endotoxin Using Fluorescein as a pH Indicator in a Macrophage Cell Culture System. Yonsei Medical Journal, 2005, 46, 268.	0.9	11

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109	Singlet oxygen generating nanolayer coatings on NiTi alloy for photodynamic application. Surface and Coatings Technology, 2010, 205, S62-S67.	2.2	11
110	Resveratrol Inhibits Phenotype Modulation by Platelet Derived Growth Factor-bb in Rat Aortic Smooth Muscle Cells. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-9.	1.9	11
111	Preconditioning process for dermal tissue decellularization using electroporation with sonication. International Journal of Energy Production and Management, 2022, 9, rbab071.	1.9	11
112	Nitrogen grafting onto polycarprolactone by a simple surface modification with atmospheric pressure glow discharge (Ar-APGD) and promoted neonatal human fibroblast growth. Macromolecular Research, 2011, 19, 1134-1141.	1.0	10
113	Fabrication of hollow porous PLGA microspheres using sucrose for controlled dual delivery of dexamethasone and BMP2. Journal of Industrial and Engineering Chemistry, 2016, 37, 101-106.	2.9	10
114	Asiaticoside and polylysine-releasing collagen complex for effectively reducing initial inflammatory response using inflamed induced in vitro model. Materials Science and Engineering C, 2021, 121, 111837.	3.8	10
115	Viability and enzymatic activity of cryopreserved porcine heart valve. Yonsei Medical Journal, 1999, 40, 184.	0.9	9
116	A bone replaceable artificial bone substitute: morphological and physiochemical characterizations. Yonsei Medical Journal, 2000, 41, 468.	0.9	9
117	Enhanced cellular responses of vascular endothelial cells on poly-Î³-glutamic acid/PU composite film treated with microwave-induced plasma at atmospheric pressure. Macromolecular Research, 2011, 19, 537-541.	1.0	9
118	Calcification of Leaflets from Porcine Aortic Valves Crosslinked by Ultravioletâ€ƒIrradiation. Artificial Organs, 2000, 24, 555-563.	1.0	8
119	Plasma processing of materials for medical applications. Surface and Coatings Technology, 2003, 171, 252-256.	2.2	8
120	Enhanced neurite outgrowth of rat neural cortical cells on surface-modified films of poly(lactic-co-glycolic acid). Biotechnology Letters, 2005, 27, 53-58.	1.1	8
121	Incorporation of cytochrome C with thin calcium phosphate film formed by electron-beam evaporation. Surface and Coatings Technology, 2008, 202, 5742-5745.	2.2	8
122	Effects of direct current electric-field using ITO plate on breast cancer cell migration. Biomaterials Research, 2014, 18, 10.	3.2	8
123	Differentiation of adipose-derived stem cells into functional chondrocytes by a small molecule that induces Sox9. Experimental and Molecular Medicine, 2020, 52, 672-681.	3.2	8
124	A collagen-AS/ÎµPLL bilayered artificial substitute regulates anti-inflammation and infection for initial inflamed wound healing. Biomaterials Science, 2021, 9, 6865-6878.	2.6	8
125	Tonsil-derived mesenchymal stem cells incorporated in reactive oxygen species-releasing hydrogel promote bone formation by increasing the translocation of cell surface GRP78. Biomaterials, 2021, 278, 121156.	5.7	8
126	Motion effects on the measurement of stiffness on ultrasound shear wave elastography: a moving liver fibrosis phantom study. Medical Ultrasonography, 2018, 1, 14.	0.4	8

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127	Antimicrobial Effect of Medical Adhesive Composed of Aldehyded Dextran and Îµ-Poly(L-Lysine). Journal of Microbiology and Biotechnology, 2011, 21, 1199-1202.	0.9	8
128	Pulsed Electrical Stimulation Enhances Consistency of Directional Migration of Adipose-Derived Stem Cells. Cells, 2021, 10, 2846.	1.8	8
129	Production of bone morphogenetic protein-7 using pET expression system. Current Applied Physics, 2005, 5, 422-425.	1.1	7
130	Non-frozen preservation of mammalian tissue using green tea polyphenolic compounds. Biomedical Materials (Bristol), 2006, 1, R18-R29.	1.7	7
131	Cellular responses and behaviors of adipose-derived stem cells onto Î²-glucan and PLGA composites surface-modified by microwave-induced argon plasma. Macromolecular Research, 2010, 18, 90-93.	1.0	7
132	Plasma treatment induces internal surface modifications of electrospun poly(L-lactic) acid scaffold to enhance protein coating. Journal of Applied Physics, 2013, 114, 073304.	1.1	7
133	Fabrication of three-dimensional poly(lactic-co-glycolic acid) mesh by electrospinning using different solvents with dry ice. Macromolecular Research, 2014, 22, 377-381.	1.0	7
134	Exploring for the optimal structural design for the 3D-printing technology for cranial reconstruction: a biomechanical and histological study comparison of solid vs. porous structure. Child's Nervous System, 2017, 33, 1553-1562.	0.6	7
135	A Novel In Vitro Assessment of Tissue Valve Calcification by a Continuous Flow Type Method. Artificial Organs, 2000, 24, 158-160.	1.0	6
136	Beneficial Effects of Freezing Rate Determined by Indirect Thermophysical Calculation on Cell Viability in Cryopreserved Tissues. Artificial Cells, Blood Substitutes, and Biotechnology, 2006, 34, 205-221.	0.9	6
137	Stimulated TNF-Î± release in macrophage and enhanced migration of dermal fibroblast by Î²-glucan. Current Applied Physics, 2007, 7, e33-e36.	1.1	6
138	Enhancement of human mesenchymal stem cell infiltration into the electrospun poly(lactic-co-glycolic acid) scaffold by fluid shear stress. Biochemical and Biophysical Research Communications, 2015, 463, 137-142.	1.0	6
139	Homogeneity evaluation of mesenchymal stem cells based on electrotaxis analysis. Scientific Reports, 2017, 7, 9582.	1.6	6
140	An effective method to generate controllable levels of ROS for the enhancement of HUVEC proliferation using a chlorin e6-immobilized PET film as a photo-functional biomaterial. International Journal of Energy Production and Management, 2021, 8, rbab005.	1.9	6
141	Liposomal Entrapment of Cefoxitin to Improve Cellular Viability and Function in Human Saphenous Veins. Artificial Organs, 2003, 27, 623-630.	1.0	5
142	Differential cytokine responses of murine macrophage J774A.1 cells to stainless steel coated with and without hydroxyapatite. Surface and Coatings Technology, 2007, 201, 5729-5732.	2.2	5
143	Exovascular application of epigallocatechin-3-O-gallate-releasing electrospun poly(l-lactide glycolic) Tj ETQq1 1 0.784314 rgBT /Overlock (Bristol), 2015, 10, 055010.	1.7	5
144	Microneedle Vascular Couplers with Heparin-Immobilized Surface Improve Suture-Free Anastomosis Performance. ACS Biomaterials Science and Engineering, 2018, 4, 3848-3853.	2.6	4

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145	Antibacterial Effect of Antibiotic Solution on Cellular Viability in Canine Veins. Artificial Organs, 2001, 25, 490-494.	1.0	3
146	Effective layer by layer cell seeding into non-woven 3D electrospun scaffolds of poly-L-lactic acid microfibers for uniform tissue formation. Macromolecular Research, 2012, 20, 795-799.	1.0	3
147	Ethyl-3,4-Dihydroxybenzoate with a Dual Function of Induction of Osteogenic Differentiation and Inhibition of Osteoclast Differentiation for Bone Tissue Engineering. Tissue Engineering - Part A, 2014, 20, 2975-2984.	1.6	3
148	The role of nuclear factor of activated T cells during phorbol myristate acetate-induced cardiac differentiation of mesenchymal stem cells. Stem Cell Research and Therapy, 2016, 7, 90.	2.4	3
149	Golgi polarization effects on infiltration of mesenchymal stem cells into electrospun scaffolds by fluid shear stress: Analysis by confocal microscopy and Fourier transform infrared spectroscopy. Applied Spectroscopy Reviews, 2016, 51, 570-581.	3.4	3
150	Suppression of T24 human bladder cancer cells by ROS from locally delivered hematoporphyrin-containing polyurethane films. Photochemical and Photobiological Sciences, 2018, 17, 763-772.	1.6	3
151	Biological Safety Evaluation of Polyketones as Biomaterials. Porrime, 2016, 40, 225.	0.0	3
152	Determination of a Favorable Medium for Detection of Fungal Extracellular Protease.. Biocontrol Science, 1999, 4, 91-95.	0.2	2
153	Pre-wetting process with helium atmospheric pressure glow discharge for three-dimensional porous scaffold. Macromolecular Research, 2011, 19, 711-715.	1.0	2
154	Photofunctional Co-Cr Alloy Generating Reactive Oxygen Species for Photodynamic Applications. International Journal of Photoenergy, 2013, 2013, 1-8.	1.4	2
155	Influence of Biomimetic Materials on Cell Migration. Advances in Experimental Medicine and Biology, 2018, 1064, 93-107.	0.8	2
156	Sterilization of sealed PVDF pouches containing decellularized scaffold by electrical stimulation. Biotechnology Journal, 2021, 16, e2100156.	1.8	2
157	Evaluating the validity of lightweight talar replacement designs: rational models and topologically optimized models. Biomaterials Research, 2022, 26, 10.	3.2	2
158	Effective Screening Medium for the Biodegradation of Oleic Acid by Aspergillus niger.. Biocontrol Science, 2001, 6, 37-41.	0.2	1
159	Ethyl-2, 5-dihydroxybenzoate displays dual activity by promoting osteoblast differentiation and inhibiting osteoclast differentiation. Biochemical and Biophysical Research Communications, 2016, 471, 335-341.	1.0	1
160	Type I atelocollagen grafting onto ozoneâ€treated polyurethane films: Cell attachment, proliferation, and collagen synthesis. Journal of Biomedical Materials Research Part B, 2000, 52, 669-677.	3.0	1
161	Selective Sterilization of Vibro parahaemolyticus from a Bacterial Mixture by Low-Amperage Electric Current. Journal of Microbiology and Biotechnology, 2009, 19, 537-41.	0.9	1
162	The variation of biomechanical property of chondrocyte under the various biological conditions. Current Applied Physics, 2005, 5, 493-496.	1.1	0

#	Article	IF	Citations
163	Special issue featuring articles from the 4th Koreaâ€“China Symposium on Biomaterials and Nano-Biotechnology. Biomedical Materials (Bristol), 2007, 2, .	1.7	0
164	Tissueâ€Engineered Blood Vessels With Endothelial Nitric Oxide Synthase Activity. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 302-302.	1.6	0
165	Design of Polymeric Culture Substrates to Promote Proangiogenic Potential of Stem Cells. Macromolecular Bioscience, 2018, 18, 1700340.	2.1	0
166	Biological Safety Evaluation of Polymers. , 2012, , 463-479.		0