

Sang-Hyug Park

List of Publications by Year in descending order

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71
papers

3,871
citations

136885

32
h-index

123376

61
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71
all docs

71
docs citations

71
times ranked

5103
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Silk Material Structure by Temperature-Controlled Water Vapor Annealing. <i>Biomacromolecules</i> , 2011, 12, 1686-1696.	2.6	530
2	Controlling silk fibroin particle features for drug delivery. <i>Biomaterials</i> , 2010, 31, 4583-4591.	5.7	433
3	The influence of elasticity and surface roughness on myogenic and osteogenic-differentiation of cells on silk-elastin biomaterials. <i>Biomaterials</i> , 2011, 32, 8979-8989.	5.7	188
4	Multilayered silk scaffolds for meniscus tissue engineering. <i>Biomaterials</i> , 2011, 32, 639-651.	5.7	181
5	Helicoidal multi-lamellar features of RGD-functionalized silk biomaterials for corneal tissue engineering. <i>Biomaterials</i> , 2010, 31, 8953-8963.	5.7	164
6	Relationships between degradability of silk scaffolds and osteogenesis. <i>Biomaterials</i> , 2010, 31, 6162-6172.	5.7	146
7	Tissue-engineered Cartilage Using Fibrin/Hyaluronan Composite Gel and Its In Vivo Implantation. <i>Artificial Organs</i> , 2005, 29, 838-845.	1.0	128
8	Response of Human Corneal Fibroblasts on Silk Film Surface Patterns. <i>Macromolecular Bioscience</i> , 2010, 10, 664-673.	2.1	124
9	Ingrowth of human mesenchymal stem cells into porous silk particle reinforced silk composite scaffolds: An in vitro study. <i>Acta Biomaterialia</i> , 2011, 7, 144-151.	4.1	112
10	Chip-Based Comparison of the Osteogenesis of Human Bone Marrow- and Adipose Tissue-Derived Mesenchymal Stem Cells under Mechanical Stimulation. <i>PLoS ONE</i> , 2012, 7, e46689.	1.1	104
11	Intervertebral Disk Tissue Engineering Using Biphasic Silk Composite Scaffolds. <i>Tissue Engineering - Part A</i> , 2012, 18, 447-458.	1.6	84
12	In vivo bone formation by human marrow stromal cells in biodegradable scaffolds that release dexamethasone and ascorbate-2-phosphate. <i>Biochemical and Biophysical Research Communications</i> , 2005, 332, 1053-1060.	1.0	83
13	Development of Printable Natural Cartilage Matrix Bioink for 3D Printing of Irregular Tissue Shape. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 155-162.	1.6	79
14	Silk-Fibrin/Hyaluronic Acid Composite Gels for Nucleus Pulposus Tissue Regeneration. <i>Tissue Engineering - Part A</i> , 2011, 17, 2999-3009.	1.6	63
15	Dual pH-/thermo-responsive chitosan-based hydrogels prepared using "click" chemistry for colon-targeted drug delivery applications. <i>Carbohydrate Polymers</i> , 2021, 260, 117812.	5.1	60
16	Impact of Sterilization on the Enzymatic Degradation and Mechanical Properties of Silk Biomaterials. <i>Macromolecular Bioscience</i> , 2014, 14, 257-269.	2.1	59
17	Quantifying Osteogenic Cell Degradation of Silk Biomaterials. <i>Biomacromolecules</i> , 2010, 11, 3592-3599.	2.6	55
18	Evaluation of mechanical strength and bone regeneration ability of 3D printed kagome-structure scaffold using rabbit calvarial defect model. <i>Materials Science and Engineering C</i> , 2019, 98, 949-959.	3.8	55

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19	An Electromagnetic Compressive Force by Cell Exciter Stimulates Chondrogenic Differentiation of Bone Marrow-Derived Mesenchymal Stem Cells. <i>Tissue Engineering</i> , 2006, 12, 3107-3117.	4.9	53
20	Tunable porosity of covalently crosslinked alginate-based hydrogels and its significance in drug release behavior. <i>Carbohydrate Polymers</i> , 2021, 260, 117779.	5.1	53
21	Stem Cell-Based Meniscus Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2011, 17, 2749-2761.	1.6	50
22	ECM Based Bioink for Tissue Mimetic 3D Bioprinting. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1064, 335-353.	0.8	50
23	Advances in three-dimensional bioprinting for hard tissue engineering. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 622-635.	1.6	47
24	Development of an in vitro model to study the impact of BMP-2 on metastasis to bone. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 590-599.	1.3	45
25	Quantitative analysis of the role of nanohydroxyapatite (nHA) on 3D-printed PCL/nHA composite scaffolds. <i>Materials Letters</i> , 2018, 220, 112-115.	1.3	45
26	Mechanically Robust, Rapidly Actuating, and Biologically Functionalized Macroporous Poly(N-isopropylacrylamide)/Silk Hybrid Hydrogels. <i>Langmuir</i> , 2010, 26, 15614-15624.	1.6	44
27	Mechanical Stimulation by Ultrasound Enhances Chondrogenic Differentiation of Mesenchymal Stem Cells in a Fibrin-Hyaluronic Acid Hydrogel. <i>Artificial Organs</i> , 2013, 37, 648-655.	1.0	43
28	Synergistic Effect of Combined Growth Factors in Porcine Intervertebral Disc Degeneration. <i>Connective Tissue Research</i> , 2013, 54, 181-186.	1.1	41
29	Biomimetic Scaffolds for Bone Tissue Engineering. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1064, 109-121.	0.8	36
30	Multi-stimuli responsive hydrogels derived from hyaluronic acid for cancer therapy application. <i>Carbohydrate Polymers</i> , 2022, 286, 119303.	5.1	36
31	Hypoxia and Amino Acid Supplementation Synergistically Promote the Osteogenesis of Human Mesenchymal Stem Cells on Silk Protein Scaffolds. <i>Tissue Engineering - Part A</i> , 2010, 16, 3623-3634.	1.6	35
32	Chondrogenesis of Rabbit Mesenchymal Stem Cells in Fibrin/Hyaluronan Composite Scaffold In Vitro. <i>Tissue Engineering - Part A</i> , 2011, 17, 1277-1286.	1.6	34
33	Snapshot of degenerative aging of porcine intervertebral disc: a model to unravel the molecular mechanisms. <i>Experimental and Molecular Medicine</i> , 2011, 43, 334.	3.2	34
34	Dual cross-linked chitosan/alginate hydrogels prepared by Nb-Tz click reaction for pH responsive drug delivery. <i>Carbohydrate Polymers</i> , 2022, 288, 119389.	5.1	34
35	Potential of Fortified Fibrin/Hyaluronic Acid Composite Gel as a Cell Delivery Vehicle for Chondrocytes. <i>Artificial Organs</i> , 2009, 33, 439-447.	1.0	32
36	Injectable and biocompatible alginate-derived porous hydrogels cross-linked by IEDDA click chemistry for reduction-responsive drug release application. <i>Carbohydrate Polymers</i> , 2022, 278, 118964.	5.1	32

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37	Patterned Silk Film Scaffolds for Aligned Lamellar Bone Tissue Engineering. <i>Macromolecular Bioscience</i> , 2012, 12, 1671-1679.	2.1	29
38	The effect of sonication on simulated osteoarthritis. Part II: Alleviation of osteoarthritis pathogenesis by 1 MHz ultrasound with simultaneous hyaluronate injection. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1559-1566.	0.7	28
39	Sizable Scaffold-Free Tissue-Engineered Articular Cartilage Construct for Cartilage Defect Repair. <i>Artificial Organs</i> , 2019, 43, 278-287.	1.0	27
40	Highly porous and injectable hydrogels derived from cartilage acellularized matrix exhibit reduction and NIR light dual-responsive drug release properties for application in antitumor therapy. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	27
41	The effect of sonication on simulated osteoarthritis. Part I: Effects of 1 MHz ultrasound on uptake of hyaluronan into the rabbit synovium. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1551-1558.	0.7	25
42	Fabrication and characterization of 3D scaffolds made from blends of sodium alginate and poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	25
43	Mechanically Reinforced Extracellular Matrix Scaffold for Application of Cartilage Tissue Engineering. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 287-299.	1.6	24
44	In vitro chondrogenic differentiation of human adipose-derived stem cells with silk scaffolds. <i>Journal of Tissue Engineering</i> , 2012, 3, 204173141246640.	2.3	22
45	Mechanical properties and cell-culture characteristics of a polycaprolactone kagome-structure scaffold fabricated by a precision extruding deposition system. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 055003.	1.7	22
46	Noninvasive visualization of early osteoarthritic cartilage using targeted nanosomes in a destabilization of the medial meniscus mouse model. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 1215-1224.	3.3	20
47	Synthesis of Arg-Gly-Asp (RGD) Sequence Conjugated Thermo-Reversible Gelatin PEG Spacer Arm as an Extracellular Matrix for a Pheochromocytoma Cell (PC12) Culture. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 2224-2229.	0.6	19
48	Fabrication of an osteochondral graft with using a solid freeform fabrication system. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 239-248.	1.6	17
49	Three dimensional plotted extracellular matrix scaffolds using a rapid prototyping for tissue engineering application. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 172-180.	1.6	17
50	Phlorofucofuroeckol A from <i>Ecklonia cava</i> ameliorates TGF- β 1-induced fibrotic response of human tracheal fibroblasts via the downregulation of MAPKs and SMAD 2/3 pathways inactivated TGF- β 2 receptor. <i>Biochemical and Biophysical Research Communications</i> , 2020, 522, 626-632.	1.0	16
51	Effect of joint mimicking loading system on zonal organization into tissue-engineered cartilage. <i>PLoS ONE</i> , 2018, 13, e0202834.	1.1	15
52	Rabbit Calvarial Defect Model for Customized 3D-Printed Bone Grafts. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 255-262.	1.1	14
53	Fabrication of Microchannels and Evaluation of Guided Vascularization in Biomimetic Hydrogels. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 403-413.	1.6	14
54	Construction of a Tissue-Engineered Annulus Fibrosus. <i>Artificial Organs</i> , 2013, 37, E131-E138.	1.0	11

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55	Onlay-graft of 3D printed Kagome-structure PCL scaffold incorporated with rhBMP-2 based on hyaluronic acid hydrogel. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 055004.	1.7	11
56	Sargahydroquinoic Acid, a Cyclooxygenase-2 Inhibitor, Attenuates Inflammatory Responses by Regulating NF- κ B Inactivation and Nrf2 Activation in Lipopolysaccharide-Stimulated Cells. <i>Inflammation</i> , 2021, 44, 2120-2131.	1.7	10
57	Novel Marine Organism-Derived Extracellular Vesicles for Control of Anti-Inflammation. <i>Tissue Engineering and Regenerative Medicine</i> , 2021, 18, 71-79.	1.6	10
58	Development of three-dimensional articular cartilage construct using silica nano-patterned substrate. <i>PLoS ONE</i> , 2019, 14, e0208291.	1.1	9
59	Preparation of a Cross-Linked Cartilage Acellular-Matrix Film and Its In Vivo Evaluation as an Antiadhesive Barrier. <i>Polymers</i> , 2019, 11, 247.	2.0	9
60	Extracellular Matrix (ECM) Multilayer Membrane as a Sustained Releasing Growth Factor Delivery System for rhTGF- β 3 in Articular Cartilage Repair. <i>PLoS ONE</i> , 2016, 11, e0156292.	1.1	9
61	Near-Infrared Light-Responsive Shell-Crosslinked Micelles of Poly(D,L-lactide)-b-poly((furfuryl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj of Doxorubicin. <i>Materials</i> , 2021, 14, 7913.	1.3	9
62	Conditioned media derived from human fetal progenitor cells improves skin regeneration in burn wound healing. <i>Cell and Tissue Research</i> , 2022, 389, 289-308.	1.5	9
63	A phlorotannins-loaded homogeneous acellular matrix film modulates post-implantation inflammatory responses. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022, 16, 51-62.	1.3	8
64	Sargahydroquinoic acid (SHQA) suppresses cellular senescence through Akt/mTOR signaling pathway. <i>Experimental Gerontology</i> , 2021, 151, 111406.	1.2	6
65	Immobilization of fibrinogen antibody on self-assembled gold monolayers for immunosensor applications. <i>Tissue Engineering and Regenerative Medicine</i> , 2014, 11, 10-15.	1.6	5
66	Corneal Repair with Adhesive Cell Sheets of Fetal Cartilage-Derived Stem Cells. <i>Tissue Engineering and Regenerative Medicine</i> , 2021, 18, 187-198.	1.6	4
67	Characterization of Marine Organism Extracellular Matrix-Anchored Extracellular Vesicles and Their Biological Effect on the Alleviation of Pro-Inflammatory Cytokines. <i>Marine Drugs</i> , 2021, 19, 592.	2.2	4
68	Effects of Induction Culture on Osteogenesis of Scaffold-Free Engineered Tissue for Bone Regeneration Applications. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, 19, 417-429.	1.6	4
69	Fabrication and Preliminary Test Results of A MEMS Cell Stimulator for Stem Cell Research. , 2006, , .		0
70	Relationships between structural stability of implanted site and biomechanical properties of tissue-engineered cartilage in the tibiofemoral joint defect. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 105-112.	1.6	0
71	Interface-cross-linked micelles of poly(D,L-lactide)-b-poly(furfuryl methacrylate)-b-poly(N-acryloylmorpholine) for near-infrared-triggered drug delivery application. <i>Polymers for Advanced Technologies</i> , 0, , .	1.6	0