Byoung-Hyun Min

List of Publications by Year
in descending order

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72 papers	2,039 citations	218592 26 h-index	265120 42 g-index
72 all docs	72 docs citations	72 times ranked	2726 citing authors

#	Article	IF	Citations
1	Circumferential Rim Augmentation Suture Around the Perimeniscal Capsule Decreases Meniscal Extrusion and Progression of Osteoarthritis in Rabbit Meniscus Root Tear Model. American Journal of Sports Medicine, 2022, 50, 689-698.	1.9	4
2	Conditioned media derived from human fetal progenitor cells improves skin regeneration in burn wound healing. Cell and Tissue Research, 2022, 389, 289-308.	1.5	9
3	Fabrication of decellularized meniscus extracellular matrix according to inner cartilaginous, middle transitional, and outer fibrous zones result in zone-specific protein expression useful for precise replication of meniscus zones. Materials Science and Engineering C, 2021, 128, 112312.	3.8	10
4	Effect of glutaraldehydeâ€crosslinked cartilage acellular matrix film on antiâ€adhesion and nerve regeneration in a rat sciatic nerve injury model. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 1023-1036.	1.3	7
5	Suppression of Osteoarthritis progression by post-natal Induction of Nkx3.2. Biochemical and Biophysical Research Communications, 2021, 571, 188-194.	1.0	4
6	Crossâ€linked cartilage acellular matrix film decreases postsurgical peritendinous adhesions. Artificial Organs, 2020, 44, E136-E149.	1.0	12
7	Fabrication of a Polycaprolactone/Alginate Bipartite Hybrid Scaffold for Osteochondral Tissue Using a Three-Dimensional Bioprinting System. Polymers, 2020, 12, 2203.	2.0	17
8	The effect of distance between holes on the structural stability of subchondral bone in microfracture surgery: a finite element model study. BMC Musculoskeletal Disorders, 2020, 21, 557.	0.8	3
9	Inhibitory Effect of Topical Cartilage Acellular Matrix Suspension Treatment on Neovascularization in a Rabbit Corneal Model. Tissue Engineering and Regenerative Medicine, 2020, 17, 625-640.	1.6	7
10	Low-intensity ultrasound attenuates paw edema formation and decreases vascular permeability induced by carrageenan injection in rats. Journal of Inflammation, 2020, 17, 7.	1.5	11
11	Engineered cartilage utilizing fetal cartilage-derived progenitor cells for cartilage repair. Scientific Reports, 2020, 10, 5722.	1.6	19
12	Development of three-dimensional articular cartilage construct using silica nano-patterned substrate. PLoS ONE, 2019, 14, e0208291.	1.1	9
13	Immunophenotype and Immune-Modulatory Activities of Human Fetal Cartilage-Derived Progenitor Cells. Cell Transplantation, 2019, 28, 932-942.	1.2	16
14	Development of a three-dimensionally printed scaffold grafted with bone forming peptide-1 for enhanced bone regeneration with in vitro and in vivo evaluations. Journal of Colloid and Interface Science, 2019, 539, 468-480.	5.0	36
15	Development of Printable Natural Cartilage Matrix Bioink for 3D Printing of Irregular Tissue Shape. Tissue Engineering and Regenerative Medicine, 2018, 15, 155-162.	1.6	79
16	Mechanically Reinforced Extracellular Matrix Scaffold for Application of Cartilage Tissue Engineering. Tissue Engineering and Regenerative Medicine, 2018, 15, 287-299.	1.6	24
17	Nondestructive Assessment of Glycosaminoglycans in Engineered Cartilages Using Hexabrix-Enhanced Micro-Computed Tomography. Tissue Engineering and Regenerative Medicine, 2018, 15, 311-319.	1.6	6
18	Characterization of Human Fetal Cartilage Progenitor Cells During Long-Term Expansion in a Xeno-Free Medium. Tissue Engineering and Regenerative Medicine, 2018, 15, 649-659.	1.6	13

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19	Effect of joint mimicking loading system on zonal organization into tissue-engineered cartilage. PLoS ONE, 2018, 13, e0202834.	1.1	15
20	Three-Dimensional Spheroid Culture Increases Exosome Secretion from Mesenchymal Stem Cells. Tissue Engineering and Regenerative Medicine, 2018, 15, 427-436.	1.6	98
21	Granulocyte macrophage â€“ colony stimulating factor (GM-CSF) significantly enhances articular cartilage repair potential by microfracture. Osteoarthritis and Cartilage, 2017, 25, 1345-1352.	0.6	19
22	Subchondral bone scan uptake correlates with articular cartilage degeneration in osteoarthritic knees. International Journal of Rheumatic Diseases, 2017, 20, 1393-1402.	0.9	8
23	Advances in three-dimensional bioprinting for hard tissue engineering. Tissue Engineering and Regenerative Medicine, 2016, 13, 622-635.	1.6	47
24	Repair of partial thickness cartilage defects using cartilage extracellular matrix membrane-based chondrocyte delivery system in human Ex Vivo model. Tissue Engineering and Regenerative Medicine, 2016, 13, 182-190.	1.6	9
25	Fetal Cartilage-Derived Cells Have Stem Cell Properties and Are a Highly Potent Cell Source for Cartilage Regeneration. Cell Transplantation, 2016, 25, 449-461.	1.2	40
26	Comparison of fetal cartilageâ€derived progenitor cells isolated at different developmental stages in a rat model. Development Growth and Differentiation, 2016, 58, 167-179.	0.6	14
27	In vivodegradation profile of porcine cartilage-derived extracellular matrix powder scaffolds using a non-invasive fluorescence imaging method. Journal of Biomaterials Science, Polymer Edition, 2016, 27, 177-190.	1.9	19
28	Bilateral Occurrence and Morphologic Analysis of Complete Discoid Lateral Meniscus. Yonsei Medical Journal, 2015, 56, 753.	0.9	9
29	Fabrication of an osteochondral graft with using a solid freeform fabrication system. Tissue Engineering and Regenerative Medicine, 2015, 12, 239-248.	1.6	17
30	Therapeutic possibility of human fetal cartilage-derived progenitor cells in rat arthritis model. Tissue Engineering and Regenerative Medicine, 2015, 12, 147-154.	1.6	6
31	Detection of CTX-II in serum and urine to diagnose osteoarthritis by using a fluoro-microbeads guiding chip. Biosensors and Bioelectronics, 2015, 67, 192-199.	5.3	39
32	Three dimensional plotted extracellular matrix scaffolds using a rapid prototyping for tissue engineering application. Tissue Engineering and Regenerative Medicine, 2015, 12, 172-180.	1.6	17
33	The Degeneration of Meniscus Roots Is Accompanied by Fibrocartilage Formation, Which May Precede Meniscus Root Tears in Osteoarthritic Knees. American Journal of Sports Medicine, 2015, 43, 3034-3044.	1.9	39
34	Low intensity ultrasound inhibits brain oedema formation in rats: potential action on <scp>AQP4</scp> membrane localization. Neuropathology and Applied Neurobiology, 2015, 41, e80-94.	1.8	14
35	Tissue-Engineered Tracheal Reconstruction Using Mesenchymal Stem Cells Seeded on a Porcine Cartilage Powder Scaffold. Annals of Biomedical Engineering, 2015, 43, 1003-1013.	1.3	52
36	Tissue-engineered tracheal reconstruction using chondrocyte seeded on a porcine cartilage-derived substance scaffold. International Journal of Pediatric Otorhinolaryngology, 2014, 78, 32-38.	0.4	31

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37	Cartilage extra-cellular matrix biomembrane for the enhancement of microfractured defects. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 1249-1259.	2.3	32
38	Inhibition of blood vessel formation by a chondrocyte-derived extracellular matrix. Biomaterials, 2014, 35, 5711-5720.	5.7	18
39	Protocol of Chondrogenesis from BMSC on a Porcine Chondrocytes-Derived Extracellular Matrix Scaffold. Manuals in Biomedical Research, 2014, , 33-40.	0.0	0
40	Is bicompartmental knee arthroplasty more favourable to knee muscle strength and physical performance compared to total knee arthroplasty?. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 2532-2541.	2.3	25
41	Effect of different bone marrow stimulation techniques (BSTs) on MSCs mobilization. Journal of Orthopaedic Research, 2013, 31, 1814-1819.	1.2	37
42	Construction of a Tissue-Engineered Annulus Fibrosus. Artificial Organs, 2013, 37, E131-E138.	1.0	11
43	Feasibility of Autologous Bone Marrow Mesenchymal Stem Cellâ€"Derived Extracellular Matrix Scaffold for Cartilage Tissue Engineering. Artificial Organs, 2013, 37, E179-90.	1.0	20
44	Mechanical Stimulation by Ultrasound Enhances Chondrogenic Differentiation of Mesenchymal Stem Cells in a Fibrin-Hyaluronic Acid Hydrogel. Artificial Organs, 2013, 37, 648-655.	1.0	43
45	Transplantation of Autologous Chondrocytes Seeded on a Fibrin/Hyaluronan Composite Gel Into Tracheal Cartilage Defects in Rabbits: Preliminary Results. Artificial Organs, 2012, 36, 998-1006.	1.0	34
46	Transplantation of autologous chondrocytes seeded on a fibrin/hyaluronic acid composite gel into vocal fold in rabbits: Preliminary results. Tissue Engineering and Regenerative Medicine, 2012, 9, 203-208.	1.6	8
47	Intervertebral Disk Tissue Engineering Using Biphasic Silk Composite Scaffolds. Tissue Engineering - Part A, 2012, 18, 447-458.	1.6	84
48	Effect of Ultrasound Treatment on Brain Edema in a Traumatic Brain Injury Model with the Weight Drop Method. Pediatric Neurosurgery, 2012, 48, 102-108.	0.4	10
49	Chip-Based Comparison of the Osteogenesis of Human Bone Marrow- and Adipose Tissue-Derived Mesenchymal Stem Cells under Mechanical Stimulation. PLoS ONE, 2012, 7, e46689.	1.1	104
50	An Electrostatically Crosslinked Chitosan Hydrogel as a Drug Carrier. Molecules, 2012, 17, 13704-13711.	1.7	41
51	Annulus fibrosus tissue engineering using lamellar silk scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, s24-s33.	1.3	48
52	Using Cartilage Extracellular Matrix (CECM) Membrane to Enhance the Reparability of the Bone Marrow Stimulation Technique for Articular Cartilage Defect in Canine Model. Advanced Functional Materials, 2012, 22, 4292-4300.	7.8	35
53	Chip-based cartilage oligomeric matrix protein detection in serum and synovial fluid for osteoarthritis diagnosis. Analytical Biochemistry, 2012, 420, 139-146.	1.1	25
54	Cartilage tissue engineering using chondrocyte-derived extracellular matrix scaffold suppressed vessel invasion during chondrogenesis of mesenchymal stem cells in vivo. Tissue Engineering and Regenerative Medicine, 2012, 9, 43-50.	1.6	14

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55	Chondrogenesis of Rabbit Mesenchymal Stem Cells in Fibrin/Hyaluronan Composite ScaffoldIn Vitro. Tissue Engineering - Part A, 2011, 17, 1277-1286.	1.6	34
56	Low-Intensity Ultrasound Increased Colony Forming Unit-Fibroblasts of Mesenchymal Stem Cells During Primary Culture. Tissue Engineering - Part C: Methods, 2011, 17, 517-526.	1.1	26
57	The Maturity of Tissue-Engineered CartilageIn VitroAffects the Repairability for Osteochondral Defect. Tissue Engineering - Part A, 2011, 17, 3057-3065.	1.6	48
58	Nanostructured Films as a Novel Substrate for Chondrocytes Growth. Journal of Nanoscience and Nanotechnology, 2011, 11, 4265-4268.	0.9	1
59	Arthroscopic loose body removal and cyst decompression using a posterior trans-septal portal in the blind spot during knee arthroscopyâ€"Technical report. Knee, 2011, 18, 55-58.	0.8	18
60	Silk-Fibrin/Hyaluronic Acid Composite Gels for Nucleus Pulposus Tissue Regeneration. Tissue Engineering - Part A, 2011, 17, 2999-3009.	1.6	63
61	Evaluation of Transtibial Double-Bundle Posterior Cruciate Ligament Reconstruction Using a Single-Sling Method With a Tibialis Anterior Allograft. American Journal of Sports Medicine, 2011, 39, 374-379.	1.9	23
62	Cartilage engineering using cellâ€derived extracellular matrix scaffold in vitro. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1567-1577.	2.1	44
63	The chondrogenic differentiation of mesenchymal stem cells on an extracellular matrix scaffold derived from porcine chondrocytes. Biomaterials, 2010, 31, 5355-5365.	5.7	122
64	Controlling Medium Osmolality Improves the Expansion of Human Articular Chondrocytes in Serum-Free Media. Tissue Engineering - Part C: Methods, 2010, 16, 957-963.	1.1	9
65	Differential Protein Expression in Human Articular Chondrocytes Expanded in Serum-Free Media of Different Medium Osmolalities by DIGE. Journal of Proteome Research, 2010, 9, 2480-2487.	1.8	10
66	Simultaneous Reconstruction of Quadriceps Tendon Rupture After TKA and Neglected Achilles Tendon Rupture. Orthopedics, 2010, 33, 355.	0.5	0
67	Scaffold-Free Cartilage Fabrication System Using Passaged Porcine Chondrocytes and Basic Fibroblast Growth Factor. Tissue Engineering - Part A, 2009, 15, 1887-1895.	1.6	23
68	Collagenous Fibril Texture of the Discoid Lateral Meniscus. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2007, 23, 635-641.	1.3	36
69	In Vivo Cartilage Tissue Engineering Using a Cell-Derived Extracellular Matrix Scaffold. Artificial Organs, 2007, 31, 183-192.	1.0	76
70	Low intensity ultrasound as a supporter of cartilage regeneration and its engineering. Biotechnology and Bioprocess Engineering, 2007, 12, 22-31.	1.4	23
71	Fabrication and Preliminary Test Results of A MEMS Cell Stimulator for Stem Cell Research. , 2006, , .		0
72	Effects of Low-Intensity Ultrasound on Chondrogenic Differentiation of Mesenchymal Stem Cells Embedded in Polyglycolic Acid: An in Vivo Study. Tissue Engineering, 2006, 12, 75-82.	4.9	115