

# Byoung-Hyun Min

## List of Publications by Citations

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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.

70  
papers

1,542  
citations

24  
h-index

37  
g-index

72  
ext. papers

1,803  
ext. citations

4.5  
avg, IF

4.56  
L-index

#	Paper	IF	Citations
70	The chondrogenic differentiation of mesenchymal stem cells on an extracellular matrix scaffold derived from porcine chondrocytes. <i>Biomaterials</i> , <b>2010</b> , 31, 5355-65	15.6	102
69	Effects of low-intensity ultrasound on chondrogenic differentiation of mesenchymal stem cells embedded in polyglycolic acid: an in vivo study. <i>Tissue Engineering</i> , <b>2006</b> , 12, 75-82		95
68	Chip-based comparison of the osteogenesis of human bone marrow- and adipose tissue-derived mesenchymal stem cells under mechanical stimulation. <i>PLoS ONE</i> , <b>2012</b> , 7, e46689	3.7	78
67	Intervertebral disk tissue engineering using biphasic silk composite scaffolds. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 447-58	3.9	71
66	In vivo cartilage tissue engineering using a cell-derived extracellular matrix scaffold. <i>Artificial Organs</i> , <b>2007</b> , 31, 183-92	2.6	69
65	Development of Printable Natural Cartilage Matrix Bioink for 3D Printing of Irregular Tissue Shape. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 15, 155-162	4.5	56
64	Silk-fibrin/hyaluronic acid composite gels for nucleus pulposus tissue regeneration. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 2999-3009	3.9	54
63	Three-Dimensional Spheroid Culture Increases Exosome Secretion from Mesenchymal Stem Cells. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 15, 427-436	4.5	47
62	Annulus fibrosus tissue engineering using lamellar silk scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 6 Suppl 3, s24-33	4.4	40
61	The maturity of tissue-engineered cartilage in vitro affects the reparability for osteochondral defect. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 3057-65	3.9	40
60	Tissue-engineered tracheal reconstruction using mesenchymal stem cells seeded on a porcine cartilage powder scaffold. <i>Annals of Biomedical Engineering</i> , <b>2015</b> , 43, 1003-13	4.7	39
59	Advances in three-dimensional bioprinting for hard tissue engineering. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 13, 622-635	4.5	39
58	Mechanical stimulation by ultrasound enhances chondrogenic differentiation of mesenchymal stem cells in a fibrin-hyaluronic acid hydrogel. <i>Artificial Organs</i> , <b>2013</b> , 37, 648-55	2.6	37
57	Detection of CTX-II in serum and urine to diagnose osteoarthritis by using a fluoro-microbeads guiding chip. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 192-9	11.8	35
56	Effect of different bone marrow stimulation techniques (BSTs) on MSCs mobilization. <i>Journal of Orthopaedic Research</i> , <b>2013</b> , 31, 1814-9	3.8	32
55	Cartilage engineering using cell-derived extracellular matrix scaffold in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 92, 1567-77	5.4	32
54	An electrostatically crosslinked chitosan hydrogel as a drug carrier. <i>Molecules</i> , <b>2012</b> , 17, 13704-11	4.8	31

53	Collagenous fibril texture of the discoid lateral meniscus. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2007</b> , 23, 635-41	5.4	31
52	Tissue-engineered tracheal reconstruction using chondrocyte seeded on a porcine cartilage-derived substance scaffold. <i>International Journal of Pediatric Otorhinolaryngology</i> , <b>2014</b> , 78, 32-8	1.7	29
51	Transplantation of autologous chondrocytes seeded on a fibrin/hyaluronan composite gel into tracheal cartilage defects in rabbits: preliminary results. <i>Artificial Organs</i> , <b>2012</b> , 36, 998-1006	2.6	29
50	Chondrogenesis of rabbit mesenchymal stem cells in fibrin/hyaluronan composite scaffold in vitro. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 1277-86	3.9	28
49	Using Cartilage Extracellular Matrix (CECM) Membrane to Enhance the Reparability of the Bone Marrow Stimulation Technique for Articular Cartilage Defect in Canine Model. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4292-4300	15.6	26
48	The Degeneration of Meniscus Roots Is Accompanied by Fibrocartilage Formation, Which May Precede Meniscus Root Tears in Osteoarthritic Knees. <i>American Journal of Sports Medicine</i> , <b>2015</b> , 43, 3034-44	6.8	25
47	Fetal Cartilage-Derived Cells Have Stem Cell Properties and Are a Highly Potent Cell Source for Cartilage Regeneration. <i>Cell Transplantation</i> , <b>2016</b> , 25, 449-61	4	25
46	Is bicompartamental knee arthroplasty more favourable to knee muscle strength and physical performance compared to total knee arthroplasty?. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2013</b> , 21, 2532-41	5.5	24
45	Chip-based cartilage oligomeric matrix protein detection in serum and synovial fluid for osteoarthritis diagnosis. <i>Analytical Biochemistry</i> , <b>2012</b> , 420, 139-46	3.1	23
44	Low-intensity ultrasound increased colony forming unit-fibroblasts of mesenchymal stem cells during primary culture. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 517-26	2.9	23
43	Cartilage extra-cellular matrix biomembrane for the enhancement of microfractured defects. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2014</b> , 22, 1249-59	5.5	22
42	Scaffold-free cartilage fabrication system using passaged porcine chondrocytes and basic fibroblast growth factor. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 1887-95	3.9	22
41	Development of a three-dimensionally printed scaffold grafted with bone forming peptide-1 for enhanced bone regeneration with in vitro and in vivo evaluations. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 539, 468-480	9.3	22
40	Low intensity ultrasound as a supporter of cartilage regeneration and its engineering. <i>Biotechnology and Bioprocess Engineering</i> , <b>2007</b> , 12, 22-31	3.1	21
39	Feasibility of autologous bone marrow mesenchymal stem cell-derived extracellular matrix scaffold for cartilage tissue engineering. <i>Artificial Organs</i> , <b>2013</b> , 37, E179-90	2.6	19
38	Evaluation of transtibial double-bundle posterior cruciate ligament reconstruction using a single-sling method with a tibialis anterior allograft. <i>American Journal of Sports Medicine</i> , <b>2011</b> , 39, 374-9	6.8	18
37	Granulocyte macrophage - colony stimulating factor (GM-CSF) significantly enhances articular cartilage repair potential by microfracture. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, 1345-1352	6.2	16
36	Mechanically Reinforced Extracellular Matrix Scaffold for Application of Cartilage Tissue Engineering. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 15, 287-299	4.5	15

35	Three dimensional plotted extracellular matrix scaffolds using a rapid prototyping for tissue engineering application. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 12, 172-180	4.5	15
34	In vivo degradation profile of porcine cartilage-derived extracellular matrix powder scaffolds using a non-invasive fluorescence imaging method. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2016</b> , 27, 177-90	3.5	14
33	Fabrication of an osteochondral graft with using a solid freeform fabrication system. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 12, 239-248	4.5	14
32	Arthroscopic loose body removal and cyst decompression using a posterior trans-septal portal in the blind spot during knee arthroscopy--technical report. <i>Knee</i> , <b>2011</b> , 18, 55-8	2.6	14
31	Cartilage tissue engineering using chondrocyte-derived extracellular matrix scaffold suppressed vessel invasion during chondrogenesis of mesenchymal stem cells in vivo. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 9, 43-50	4.5	13
30	Inhibition of blood vessel formation by a chondrocyte-derived extracellular matrix. <i>Biomaterials</i> , <b>2014</b> , 35, 5711-20	15.6	12
29	Low intensity ultrasound inhibits brain oedema formation in rats: potential action on AQP4 membrane localization. <i>Neuropathology and Applied Neurobiology</i> , <b>2015</b> , 41, e80-94	5.2	11
28	Comparison of fetal cartilage-derived progenitor cells isolated at different developmental stages in a rat model. <i>Development Growth and Differentiation</i> , <b>2016</b> , 58, 167-79	3	11
27	Construction of a tissue-engineered annulus fibrosus. <i>Artificial Organs</i> , <b>2013</b> , 37, E131-8	2.6	10
26	Differential protein expression in human articular chondrocytes expanded in serum-free media of different medium osmolalities by DIGE. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 2480-7	5.6	9
25	Low-intensity ultrasound attenuates paw edema formation and decreases vascular permeability induced by carrageenan injection in rats. <i>Journal of Inflammation</i> , <b>2020</b> , 17, 7	6.7	8
24	Transplantation of autologous chondrocytes seeded on a fibrin/hyaluronic acid composite gel into vocal fold in rabbits: Preliminary results. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 9, 203-208	4.5	8
23	Effect of joint mimicking loading system on zonal organization into tissue-engineered cartilage. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202834	3.7	8
22	Bilateral occurrence and morphologic analysis of complete discoid lateral meniscus. <i>Yonsei Medical Journal</i> , <b>2015</b> , 56, 753-9	3	7
21	Effect of ultrasound treatment on brain edema in a traumatic brain injury model with the weight drop method. <i>Pediatric Neurosurgery</i> , <b>2012</b> , 48, 102-8	0.9	7
20	Controlling medium osmolality improves the expansion of human articular chondrocytes in serum-free media. <i>Tissue Engineering - Part C: Methods</i> , <b>2010</b> , 16, 957-63	2.9	7
19	Repair of partial thickness cartilage defects using cartilage extracellular matrix membrane-based chondrocyte delivery system in human model. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 13, 182-190	4.5	7
18	Immunophenotype and Immune-Modulatory Activities of Human Fetal Cartilage-Derived Progenitor Cells. <i>Cell Transplantation</i> , <b>2019</b> , 28, 932-942	4	6

17	Engineered cartilage utilizing fetal cartilage-derived progenitor cells for cartilage repair. <i>Scientific Reports</i> , <b>2020</b> , 10, 5722	4.9	6
16	Fabrication of a Polycaprolactone/Alginate Bipartite Hybrid Scaffold for Osteochondral Tissue Using a Three-Dimensional Bioprinting System. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
15	Characterization of Human Fetal Cartilage Progenitor Cells During Long-Term Expansion in a Xeno-Free Medium. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 15, 649-659	4.5	6
14	Subchondral bone scan uptake correlates with articular cartilage degeneration in osteoarthritic knees. <i>International Journal of Rheumatic Diseases</i> , <b>2017</b> , 20, 1393-1402	2.3	5
13	Cross-linked cartilage acellular matrix film decreases postsurgical peritendinous adhesions. <i>Artificial Organs</i> , <b>2020</b> , 44, E136-E149	2.6	5
12	Nondestructive Assessment of Glycosaminoglycans in Engineered Cartilages Using Hexabrix-Enhanced Micro-Computed Tomography. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 15, 311-319	4.5	4
11	Development of three-dimensional articular cartilage construct using silica nano-patterned substrate. <i>PLoS ONE</i> , <b>2019</b> , 14, e0208291	3.7	3
10	Inhibitory Effect of Topical Cartilage Acellular Matrix Suspension Treatment on Neovascularization in a Rabbit Corneal Model. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 17, 625-640	4.5	3
9	Therapeutic possibility of human fetal cartilage-derived progenitor cells in rat arthritis model. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 12, 147-154	4.5	3
8	Nanostructured films as a novel substrate for chondrocytes growth. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 4265-8	1.3	1
7	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. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112312	8.3	1
6	Effect of glutaraldehyde-crosslinked cartilage acellular matrix film on anti-adhesion and nerve regeneration in a rat sciatic nerve injury model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2021</b> , 15, 1023-1036	4.4	1
5	Suppression of Osteoarthritis progression by post-natal Induction of Nkx3.2. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 571, 188-194	3.4	1
4	Simultaneous reconstruction of quadriceps tendon rupture after TKA and neglected Achilles tendon rupture. <i>Orthopedics</i> , <b>2010</b> , 33,	1.5	
3	Protocol of Chondrogenesis from BMSC on a Porcine Chondrocytes-Derived Extracellular Matrix Scaffold. <i>Manuals in Biomedical Research</i> , <b>2014</b> , 33-40		
2	The effect of distance between holes on the structural stability of subchondral bone in microfracture surgery: a finite element model study. <i>BMC Musculoskeletal Disorders</i> , <b>2020</b> , 21, 557	2.8	
1	Circumferential Rim Augmentation Suture Around the Perimeniscal Capsule Decreases Meniscal Extrusion and Progression of Osteoarthritis in Rabbit Meniscus Root Tear Model.. <i>American Journal of Sports Medicine</i> , <b>2022</b> , 50, 689-698	6.8	