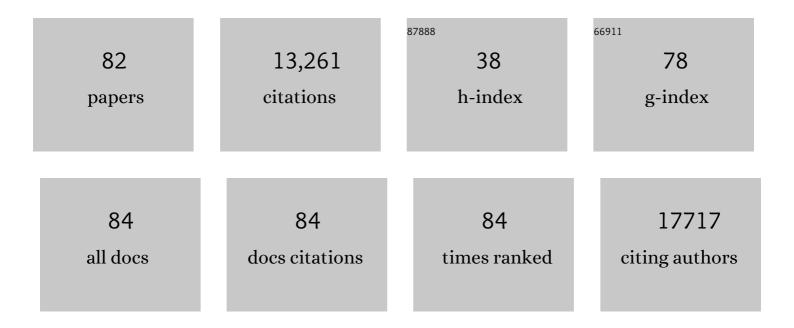
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. Journal of Extracellular Vesicles, 2018, 7, 1535750.	12.2	6,961
2	MSC exosomes mediate cartilage repair by enhancing proliferation, attenuating apoptosis and modulating immune reactivity. Biomaterials, 2018, 156, 16-27.	11.4	606
3	Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration. Osteoarthritis and Cartilage, 2016, 24, 2135-2140.	1.3	480
4	Defining mesenchymal stromal cell (MSC)â€derived small extracellular vesicles for therapeutic applications. Journal of Extracellular Vesicles, 2019, 8, 1609206.	12.2	400
5	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment. Seminars in Cell and Developmental Biology, 2017, 67, 56-64.	5.0	351
6	MSC exosomes alleviate temporomandibular joint osteoarthritis by attenuating inflammation and restoring matrix homeostasis. Biomaterials, 2019, 200, 35-47.	11.4	329
7	Modulation of mesenchymal stem cell chondrogenesis in a tunable hyaluronic acid hydrogel microenvironment. Biomaterials, 2012, 33, 3835-3845.	11.4	261
8	MSC exosome works through a protein-based mechanism of action. Biochemical Society Transactions, 2018, 46, 843-853.	3.4	252
9	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. Stem Cells Translational Medicine, 2017, 6, 1730-1739.	3.3	247
10	Cartilage repair using hyaluronan hydrogel-encapsulated human embryonic stem cell-derived chondrogenic cells. Biomaterials, 2010, 31, 6968-6980.	11.4	239
11	Modulation of chondrocyte functions and stiffness-dependent cartilage repair using an injectable enzymatically crosslinked hydrogelÂwith tunable mechanical properties. Biomaterials, 2014, 35, 2207-2217.	11.4	170
12	Mesenchymal stem cell exosomes enhance periodontal ligament cell functions and promote periodontal regeneration. Acta Biomaterialia, 2019, 89, 252-264.	8.3	170
13	Advances in hydrogel delivery systems for tissue regeneration. Materials Science and Engineering C, 2014, 45, 690-697.	7.3	157
14	Effects of Culture Conditions and Bone Morphogenetic Protein 2 on Extent of Chondrogenesis from Human Embryonic Stem Cells. Stem Cells, 2007, 25, 950-960.	3.2	139
15	Advances in Mesenchymal Stem Cell-based Strategies for Cartilage Repair and Regeneration. Stem Cell Reviews and Reports, 2014, 10, 686-696.	5.6	126
16	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. Cytotherapy, 2021, 23, 373-380.	0.7	125
17	Loss of viability during freeze–thaw of intact and adherent human embryonic stem cells with conventional slow-cooling protocols is predominantly due toâ£apoptosis rather than cellular necrosis. Journal of Biomedical Science, 2006, 13, 433-445.	7.0	108
18	Combined effects of TGFβ1 and BMP2 in serum-free chondrogenic differentiation of mesenchymal stem cells induced hyaline-like cartilage formation. Growth Factors, 2005, 23, 313-321.	1.7	100

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19	Potential of Human Embryonic Stem Cells in Cartilage Tissue Engineering and Regenerative Medicine. Stem Cell Reviews and Reports, 2011, 7, 544-559.	5.6	96
20	The effect of injectable gelatin-hydroxyphenylpropionic acid hydrogel matrices on the proliferation, migration, differentiation and oxidative stress resistance of adult neural stem cells. Biomaterials, 2012, 33, 3446-3455.	11.4	96
21	Cellular senescence in aging and osteoarthritis. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 87, 6-14.	3.3	96
22	International Society for Extracellular Vesicles and International Society for Cell and Gene Therapy statement on extracellular vesicles from mesenchymal stromal cells and other cells: considerations for potential therapeutic agents to suppress coronavirus disease-19. Cytotherapy, 2020, 22, 482-485.	0.7	94
23	Mesenchymal stem cell exosomes in bone regenerative strategies—a systematic review of preclinical studies. Materials Today Bio, 2020, 7, 100067.	5.5	82
24	Osteogenic differentiation within intact human embryoid bodies result in a marked increase in osteocalcin secretion after 12 days of in vitro culture, and formation of morphologically distinct nodule-like structures. Tissue and Cell, 2005, 37, 325-334.	2.2	72
25	Differentiation and enrichment of expandable chondrogenic cells from human embryonic stem cells <i>in vitro</i> . Journal of Cellular and Molecular Medicine, 2009, 13, 3570-3590.	3.6	66
26	Depth of cure of contemporary bulk-fill resin-based composites. Dental Materials Journal, 2016, 35, 503-510.	1.8	66
27	Identification of Nephrotoxic Compounds with Embryonic Stem-Cell-Derived Human Renal Proximal Tubular-Like Cells. Molecular Pharmaceutics, 2014, 11, 1982-1990.	4.6	61
28	Biomaterial-Mediated Delivery of Microenvironmental Cues for Repair and Regeneration of Articular Cartilage. Molecular Pharmaceutics, 2011, 8, 994-1001.	4.6	60
29	Intra-Articular Injections of Mesenchymal Stem Cell Exosomes and Hyaluronic Acid Improve Structural and Mechanical Properties of Repaired Cartilage in a Rabbit Model. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2020, 36, 2215-2228.e2.	2.7	60
30	Immune regulatory targets of mesenchymal stromal cell exosomes/small extracellular vesicles in tissue regeneration. Cytotherapy, 2018, 20, 1419-1426.	0.7	59
31	Therapeutic angiogenesis by transplantation of human embryonic stem cell-derived CD133 ⁺ endothelial progenitor cells for cardiac repair. Regenerative Medicine, 2010, 5, 231-244.	1.7	58
32	Chemotactic recruitment of adult neural progenitor cells into multifunctional hydrogels providing sustained SDFâ€1α release and compatible structural support. FASEB Journal, 2013, 27, 1023-1033.	0.5	58
33	Directing endothelial differentiation of human embryonic stem cells via transduction with an adenoviral vector expressing the VEGF165 gene. Journal of Gene Medicine, 2007, 9, 452-461.	2.8	55
34	Equivalent 10-Year Outcomes After Implantation of Autologous Bone Marrow–Derived Mesenchymal Stem Cells Versus Autologous Chondrocyte Implantation for Chondral Defects of the Knee. American Journal of Sports Medicine, 2019, 47, 2881-2887.	4.2	54
35	Stage-Dependent Effect of TGF-β1 on Chondrogenic Differentiation of Human Embryonic Stem Cells. Stem Cells and Development, 2009, 18, 929-940.	2.1	50
36	Adipose Tissue and Extracellular Matrix Development by Injectable Decellularized Adipose Matrix Loaded with Basic Fibroblast Growth Factor. Plastic and Reconstructive Surgery, 2016, 137, 1171-1180.	1.4	50

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37	Mesenchymal Stem Cell Exosomes for Cartilage Regeneration: A Systematic Review of Preclinical <i>In Vivo</i> Studies. Tissue Engineering - Part B: Reviews, 2021, 27, 1-13.	4.8	46
38	Differentiation of Human Embryonic Stem Cells into Clinically Amenable Keratinocytes in an Autogenic Environment. Journal of Investigative Dermatology, 2013, 133, 618-628.	0.7	40
39	Establishment of Clinically Compliant Human Embryonic Stem Cells in an Autologous Feeder-Free System. Tissue Engineering - Part C: Methods, 2011, 17, 927-937.	2.1	39
40	Distribution of Basement Membrane Molecules, Laminin and Collagen Type IV, in Normal and Degenerated Cartilage Tissues. Cartilage, 2014, 5, 123-132.	2.7	38
41	Modulation of Dental Pulp Stem Cell Odontogenesis in a Tunable PEG-Fibrinogen Hydrogel System. Stem Cells International, 2015, 2015, 1-9.	2.5	38
42	Stem Cells for Temporomandibular Joint Repair and Regeneration. Stem Cell Reviews and Reports, 2015, 11, 728-742.	5.6	34
43	The role of laminins in cartilaginous tissues: from development to regeneration. , 2017, 34, 40-54.		33
44	In Vitro Biocompatibility of Contemporary Bulk-fill Composites. Operative Dentistry, 2015, 40, 644-652.	1.2	32
45	Human fibroblast matrices bio-assembled under macromolecular crowding support stable propagation of human embryonic stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, e74-e86.	2.7	31
46	Distribution of pericellular matrix molecules in the temporomandibular joint and their chondroprotective effects against inflammation. International Journal of Oral Science, 2017, 9, 43-52.	8.6	30
47	Intra-articular Injections of Mesenchymal Stem Cells Without Adjuvant Therapies for Knee Osteoarthritis: A Systematic Review and Meta-analysis. American Journal of Sports Medicine, 2021, 49, 3113-3124.	4.2	29
48	A subpopulation of mesenchymal stromal cells with high osteogenic potential. Journal of Cellular and Molecular Medicine, 2009, 13, 2436-2447.	3.6	28
49	Substrate stiffness modulates the multipotency of human neural crest derived ectomesenchymal stem cells via CD44 mediated PDGFR signaling. Biomaterials, 2018, 167, 153-167.	11.4	28
50	Autologous Feeder Cells from Embryoid Body Outgrowth Support the Long-Term Growth of Human Embryonic Stem Cells More Effectively than Those from Direct Differentiation. Tissue Engineering - Part C: Methods, 2010, 16, 719-733.	2.1	27
51	Basement membrane molecule expression attendant to chondrogenesis by nucleus pulposus cells and mesenchymal stem cells. Journal of Orthopaedic Research, 2013, 31, 1136-1143.	2.3	27
52	Culture media conditioned by heat-shocked osteoblasts enhances the osteogenesis of bone marrow-derived mesenchymal stromal cells. Cell Biochemistry and Function, 2007, 25, 267-276.	2.9	25
53	In Vitro Derivation of Chondrogenic Cells from Human Embryonic Stem Cells. Methods in Molecular Biology, 2009, 584, 317-331.	0.9	25
54	An autologous cell lysate extract from human embryonic stem cell (hESC) derived osteoblasts can enhance osteogenesis of hESC. Tissue and Cell, 2008, 40, 219-228.	2.2	24

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55	Mesenchymal Stem Cell Exosomes Promote Functional Osteochondral Repair in a Clinically Relevant Porcine Model. American Journal of Sports Medicine, 2022, 50, 788-800.	4.2	24
56	Collagen Type IV and Laminin Expressions during Cartilage Repair and in Late Clinically Failed Repair Tissues from Human Subjects. Cartilage, 2016, 7, 52-61.	2.7	19
57	Kinetics of cell death of frozen-thawed human embryonic stem cell colonies is reversibly slowed down by exposure to low temperature. Zygote, 2006, 14, 341-348.	1.1	17
58	Differential Effects of the Extracellular Microenvironment on Human Embryonic Stem Cell Differentiation into Keratinocytes and Their Subsequent Replicative Life Span. Tissue Engineering - Part A, 2015, 21, 1432-1443.	3.1	16
59	Differentiation of Human Embryonic Stem Cells Toward the Chondrogenic Lineage. Methods in Molecular Biology, 2007, 407, 333-349.	0.9	16
60	Potential applications of keratinocytes derived from human embryonic stem cells. Biotechnology Journal, 2016, 11, 58-70.	3.5	14
61	Comparison of cytotoxicity test models for evaluating resin-based composites. Human and Experimental Toxicology, 2017, 36, 339-348.	2.2	14
62	Exploiting Stem Cell-Extracellular Matrix Interactions for Cartilage Regeneration: A Focus on Basement Membrane Molecules. Current Stem Cell Research and Therapy, 2016, 11, 618-625.	1.3	13
63	Inducing pluripotency for disease modeling, drug development and craniofacial applications. Expert Opinion on Biological Therapy, 2014, 14, 1233-1240.	3.1	12
64	Derivation of Chondrogenic Cells from Human Embryonic Stem Cells for Cartilage Tissue Engineering. Methods in Molecular Biology, 2014, , 263-279.	0.9	11
65	Investigation of Human Embryonic Stem Cell-Derived Keratinocytes as an In Vitro Research Model for Mechanical Stress Dynamic Response. Stem Cell Reviews and Reports, 2015, 11, 460-473.	5.6	11
66	Macrophage Polarization as a Facile Strategy to Enhance Efficacy of Macrophage Membrane oated Nanoparticles in Osteoarthritis. Small Science, 2022, 2, .	9.9	11
67	Practical considerations in transforming MSC therapy for neurological diseases from cell to EV. Experimental Neurology, 2022, 349, 113953.	4.1	9
68	Mesenchymal stromal cell-derived small extracellular vesicles modulate macrophage polarization and enhance angio-osteogenesis to promote bone healing. Genes and Diseases, 2022, 9, 841-844.	3.4	9
69	Hydrogels for Stem Cell Fate Control and Delivery in Regenerative Medicine. Series in Bioengineering, 2015, , 187-214.	0.6	6
70	Mesenchymal Stem Cell Extracellular Vesicles as Adjuvant to Bone Marrow Stimulation in Chondral Defect Repair in a Minipig Model. Cartilage, 2021, 13, 254S-266S.	2.7	5
71	Mesenchymal Stem Cell Exosomes Promote Growth Plate Repair and Reduce Limb-Length Discrepancy in Young Rats. Journal of Bone and Joint Surgery - Series A, 2022, 104, 1098-1106.	3.0	4
72	New Perspectives in Chondrogenic Differentiation of Stem Cells for Cartilage Repair. Scientific World Journal, The, 2006, 6, 361-364.	2.1	3

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73	Stem Cells: Microenvironment, Micro/Nanotechnology, and Application. Stem Cells International, 2015, 2015, 1-2.	2.5	3
74	Injectable Hydrogels for Cartilage Regeneration. Gels Horizons: From Science To Smart Materials, 2018, , 315-337.	0.3	3
75	Recent Progress in Stem Cell Chondrogenesis. Progress in Stem Cell, 2014, 1, 7.	0.4	3
76	Enhanced skin penetration of berberine from proniosome gel attenuates pain and inflammation in a mouse model of osteoarthritis. Biomaterials Science, 2022, 10, 1752-1764.	5.4	3
77	Repair and Regeneration of Temporomandibular Joint: The Future of Stem Cell-Based Therapies. Stem Cells in Clinical Applications, 2016, , 47-75.	0.4	2
78	Recent Progress in Stem Cell Chondrogenesis. Progress in Stem Cell, 2014, 1, .	0.4	1
79	Pluripotent Stem Cells: Differentiation Potential and Therapeutic Efficacy for Cartilage Repair. , 2016, ,		1
80	Stem Cells for Articular Cartilage Repair and Regeneration. Stem Cells in Clinical Applications, 2016, , 119-147.	0.4	0
81	Editorial: Extracellular Vesicle Treatment, Epigenetic Modification and Cell Reprogramming to Promote Bone and Cartilage Regeneration. Frontiers in Bioengineering and Biotechnology, 2021, 9, 678014.	4.1	0
82	Optimising administration of MSC exosomes for cartilage repair in the clinic. Cytotherapy, 2020, 22, S55.	0.7	0