

Toh, Wei Seong

List of Publications by Year in descending order

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82
papers

13,261
citations

87888

38
h-index

66911

78
g-index

84
all docs

84
docs citations

84
times ranked

17717
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical considerations in transforming MSC therapy for neurological diseases from cell to EV. <i>Experimental Neurology</i> , 2022, 349, 113953.	4.1	9
2	Macrophage Polarization as a Facile Strategy to Enhance Efficacy of Macrophage Membrane-Coated Nanoparticles in Osteoarthritis. <i>Small Science</i> , 2022, 2, .	9.9	11
3	Mesenchymal Stem Cell Exosomes Promote Functional Osteochondral Repair in a Clinically Relevant Porcine Model. <i>American Journal of Sports Medicine</i> , 2022, 50, 788-800.	4.2	24
4	Enhanced skin penetration of berberine from proniosome gel attenuates pain and inflammation in a mouse model of osteoarthritis. <i>Biomaterials Science</i> , 2022, 10, 1752-1764.	5.4	3
5	Mesenchymal Stem Cell Exosomes Promote Growth Plate Repair and Reduce Limb-Length Discrepancy in Young Rats. <i>Journal of Bone and Joint Surgery - Series A</i> , 2022, 104, 1098-1106.	3.0	4
6	Mesenchymal stromal cell-derived small extracellular vesicles modulate macrophage polarization and enhance angio-osteogenesis to promote bone healing. <i>Genes and Diseases</i> , 2022, 9, 841-844.	3.4	9
7	Mesenchymal Stem Cell Exosomes for Cartilage Regeneration: A Systematic Review of Preclinical <i>In Vivo</i> Studies. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 1-13.	4.8	46
8	Intra-articular Injections of Mesenchymal Stem Cells Without Adjuvant Therapies for Knee Osteoarthritis: A Systematic Review and Meta-analysis. <i>American Journal of Sports Medicine</i> , 2021, 49, 3113-3124.	4.2	29
9	Editorial: Extracellular Vesicle Treatment, Epigenetic Modification and Cell Reprogramming to Promote Bone and Cartilage Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 678014.	4.1	0
10	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. <i>Cytotherapy</i> , 2021, 23, 373-380.	0.7	125
11	Mesenchymal Stem Cell Extracellular Vesicles as Adjuvant to Bone Marrow Stimulation in Chondral Defect Repair in a Minipig Model. <i>Cartilage</i> , 2021, 13, 254S-266S.	2.7	5
12	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. <i>Cytotherapy</i> , 2020, 22, 482-485.	0.7	94
13	Mesenchymal stem cell exosomes in bone regenerative strategies—a systematic review of preclinical studies. <i>Materials Today Bio</i> , 2020, 7, 100067.	5.5	82
14	Intra-Articular Injections of Mesenchymal Stem Cell Exosomes and Hyaluronic Acid Improve Structural and Mechanical Properties of Repaired Cartilage in a Rabbit Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2020, 36, 2215-2228.e2.	2.7	60
15	Optimising administration of MSC exosomes for cartilage repair in the clinic. <i>Cytotherapy</i> , 2020, 22, S55.	0.7	0
16	Equivalent 10-Year Outcomes After Implantation of Autologous Bone Marrow-Derived Mesenchymal Stem Cells Versus Autologous Chondrocyte Implantation for Chondral Defects of the Knee. <i>American Journal of Sports Medicine</i> , 2019, 47, 2881-2887.	4.2	54
17	Defining mesenchymal stromal cell (MSC)-derived small extracellular vesicles for therapeutic applications. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1609206.	12.2	400
18	Mesenchymal stem cell exosomes enhance periodontal ligament cell functions and promote periodontal regeneration. <i>Acta Biomaterialia</i> , 2019, 89, 252-264.	8.3	170

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19	MSC exosomes alleviate temporomandibular joint osteoarthritis by attenuating inflammation and restoring matrix homeostasis. <i>Biomaterials</i> , 2019, 200, 35-47.	11.4	329
20	Substrate stiffness modulates the multipotency of human neural crest derived ectomesenchymal stem cells via CD44 mediated PDGFR signaling. <i>Biomaterials</i> , 2018, 167, 153-167.	11.4	28
21	MSC exosomes mediate cartilage repair by enhancing proliferation, attenuating apoptosis and modulating immune reactivity. <i>Biomaterials</i> , 2018, 156, 16-27.	11.4	606
22	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. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535750.	12.2	6,961
23	Immune regulatory targets of mesenchymal stromal cell exosomes/small extracellular vesicles in tissue regeneration. <i>Cytotherapy</i> , 2018, 20, 1419-1426.	0.7	59
24	Injectable Hydrogels for Cartilage Regeneration. <i>Gels Horizons: From Science To Smart Materials</i> , 2018, , 315-337.	0.3	3
25	MSC exosome works through a protein-based mechanism of action. <i>Biochemical Society Transactions</i> , 2018, 46, 843-853.	3.4	252
26	Comparison of cytotoxicity test models for evaluating resin-based composites. <i>Human and Experimental Toxicology</i> , 2017, 36, 339-348.	2.2	14
27	Distribution of pericellular matrix molecules in the temporomandibular joint and their chondroprotective effects against inflammation. <i>International Journal of Oral Science</i> , 2017, 9, 43-52.	8.6	30
28	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1730-1739.	3.3	247
29	MSC exosome as a cell-free MSC therapy for cartilage regeneration: Implications for osteoarthritis treatment. <i>Seminars in Cell and Developmental Biology</i> , 2017, 67, 56-64.	5.0	351
30	The role of laminins in cartilaginous tissues: from development to regeneration. , 2017, 34, 40-54.		33
31	Pluripotent Stem Cells: Differentiation Potential and Therapeutic Efficacy for Cartilage Repair. , 2016, , .		1
32	Exosomes derived from human embryonic mesenchymal stem cells promote osteochondral regeneration. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 2135-2140.	1.3	480
33	Adipose Tissue and Extracellular Matrix Development by Injectable Decellularized Adipose Matrix Loaded with Basic Fibroblast Growth Factor. <i>Plastic and Reconstructive Surgery</i> , 2016, 137, 1171-1180.	1.4	50
34	Repair and Regeneration of Temporomandibular Joint: The Future of Stem Cell-Based Therapies. <i>Stem Cells in Clinical Applications</i> , 2016, , 47-75.	0.4	2
35	Stem Cells for Articular Cartilage Repair and Regeneration. <i>Stem Cells in Clinical Applications</i> , 2016, , 119-147.	0.4	0
36	Depth of cure of contemporary bulk-fill resin-based composites. <i>Dental Materials Journal</i> , 2016, 35, 503-510.	1.8	66

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37	Collagen Type IV and Laminin Expressions during Cartilage Repair and in Late Clinically Failed Repair Tissues from Human Subjects. <i>Cartilage</i> , 2016, 7, 52-61.	2.7	19
38	Cellular senescence in aging and osteoarthritis. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 87, 6-14.	3.3	96
39	Potential applications of keratinocytes derived from human embryonic stem cells. <i>Biotechnology Journal</i> , 2016, 11, 58-70.	3.5	14
40	Exploiting Stem Cell-Extracellular Matrix Interactions for Cartilage Regeneration: A Focus on Basement Membrane Molecules. <i>Current Stem Cell Research and Therapy</i> , 2016, 11, 618-625.	1.3	13
41	Stem Cells: Microenvironment, Micro/Nanotechnology, and Application. <i>Stem Cells International</i> , 2015, 2015, 1-2.	2.5	3
42	Modulation of Dental Pulp Stem Cell Odontogenesis in a Tunable PEG-Fibrinogen Hydrogel System. <i>Stem Cells International</i> , 2015, 2015, 1-9.	2.5	38
43	Differential Effects of the Extracellular Microenvironment on Human Embryonic Stem Cell Differentiation into Keratinocytes and Their Subsequent Replicative Life Span. <i>Tissue Engineering - Part A</i> , 2015, 21, 1432-1443.	3.1	16
44	Investigation of Human Embryonic Stem Cell-Derived Keratinocytes as an In Vitro Research Model for Mechanical Stress Dynamic Response. <i>Stem Cell Reviews and Reports</i> , 2015, 11, 460-473.	5.6	11
45	Stem Cells for Temporomandibular Joint Repair and Regeneration. <i>Stem Cell Reviews and Reports</i> , 2015, 11, 728-742.	5.6	34
46	In Vitro Biocompatibility of Contemporary Bulk-fill Composites. <i>Operative Dentistry</i> , 2015, 40, 644-652.	1.2	32
47	Hydrogels for Stem Cell Fate Control and Delivery in Regenerative Medicine. <i>Series in Bioengineering</i> , 2015, , 187-214.	0.6	6
48	Recent Progress in Stem Cell Chondrogenesis. <i>Progress in Stem Cell</i> , 2014, 1, .	0.4	1
49	Inducing pluripotency for disease modeling, drug development and craniofacial applications. <i>Expert Opinion on Biological Therapy</i> , 2014, 14, 1233-1240.	3.1	12
50	Derivation of Chondrogenic Cells from Human Embryonic Stem Cells for Cartilage Tissue Engineering. <i>Methods in Molecular Biology</i> , 2014, , 263-279.	0.9	11
51	Distribution of Basement Membrane Molecules, Laminin and Collagen Type IV, in Normal and Degenerated Cartilage Tissues. <i>Cartilage</i> , 2014, 5, 123-132.	2.7	38
52	Modulation of chondrocyte functions and stiffness-dependent cartilage repair using an injectable enzymatically crosslinked hydrogel with tunable mechanical properties. <i>Biomaterials</i> , 2014, 35, 2207-2217.	11.4	170
53	Advances in hydrogel delivery systems for tissue regeneration. <i>Materials Science and Engineering C</i> , 2014, 45, 690-697.	7.3	157
54	Identification of Nephrotoxic Compounds with Embryonic Stem-Cell-Derived Human Renal Proximal Tubular-Like Cells. <i>Molecular Pharmaceutics</i> , 2014, 11, 1982-1990.	4.6	61

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55	Advances in Mesenchymal Stem Cell-based Strategies for Cartilage Repair and Regeneration. <i>Stem Cell Reviews and Reports</i> , 2014, 10, 686-696.	5.6	126
56	Recent Progress in Stem Cell Chondrogenesis. <i>Progress in Stem Cell</i> , 2014, 1, 7.	0.4	3
57	Differentiation of Human Embryonic Stem Cells into Clinically Amenable Keratinocytes in an Autogenic Environment. <i>Journal of Investigative Dermatology</i> , 2013, 133, 618-628.	0.7	40
58	Chemotactic recruitment of adult neural progenitor cells into multifunctional hydrogels providing sustained SDF-1 α release and compatible structural support. <i>FASEB Journal</i> , 2013, 27, 1023-1033.	0.5	58
59	Basement membrane molecule expression attendant to chondrogenesis by nucleus pulposus cells and mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1136-1143.	2.3	27
60	Human fibroblast matrices bio-assembled under macromolecular crowding support stable propagation of human embryonic stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, e74-e86.	2.7	31
61	The effect of injectable gelatin-hydroxyphenylpropionic acid hydrogel matrices on the proliferation, migration, differentiation and oxidative stress resistance of adult neural stem cells. <i>Biomaterials</i> , 2012, 33, 3446-3455.	11.4	96
62	Modulation of mesenchymal stem cell chondrogenesis in a tunable hyaluronic acid hydrogel microenvironment. <i>Biomaterials</i> , 2012, 33, 3835-3845.	11.4	261
63	Biomaterial-Mediated Delivery of Microenvironmental Cues for Repair and Regeneration of Articular Cartilage. <i>Molecular Pharmaceutics</i> , 2011, 8, 994-1001.	4.6	60
64	Potential of Human Embryonic Stem Cells in Cartilage Tissue Engineering and Regenerative Medicine. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 544-559.	5.6	96
65	Establishment of Clinically Compliant Human Embryonic Stem Cells in an Autologous Feeder-Free System. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 927-937.	2.1	39
66	Cartilage repair using hyaluronan hydrogel-encapsulated human embryonic stem cell-derived chondrogenic cells. <i>Biomaterials</i> , 2010, 31, 6968-6980.	11.4	239
67	Autologous Feeder Cells from Embryoid Body Outgrowth Support the Long-Term Growth of Human Embryonic Stem Cells More Effectively than Those from Direct Differentiation. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 719-733.	2.1	27
68	Therapeutic angiogenesis by transplantation of human embryonic stem cell-derived CD133 ⁺ endothelial progenitor cells for cardiac repair. <i>Regenerative Medicine</i> , 2010, 5, 231-244.	1.7	58
69	Differentiation and enrichment of expandable chondrogenic cells from human embryonic stem cells <i>in vitro</i> . <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3570-3590.	3.6	66
70	A subpopulation of mesenchymal stromal cells with high osteogenic potential. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2436-2447.	3.6	28
71	Stage-Dependent Effect of TGF- β 1 on Chondrogenic Differentiation of Human Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2009, 18, 929-940.	2.1	50
72	In Vitro Derivation of Chondrogenic Cells from Human Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2009, 584, 317-331.	0.9	25

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73	An autologous cell lysate extract from human embryonic stem cell (hESC) derived osteoblasts can enhance osteogenesis of hESC. <i>Tissue and Cell</i> , 2008, 40, 219-228.	2.2	24
74	Effects of Culture Conditions and Bone Morphogenetic Protein 2 on Extent of Chondrogenesis from Human Embryonic Stem Cells. <i>Stem Cells</i> , 2007, 25, 950-960.	3.2	139
75	Culture media conditioned by heat-shocked osteoblasts enhances the osteogenesis of bone marrow-derived mesenchymal stromal cells. <i>Cell Biochemistry and Function</i> , 2007, 25, 267-276.	2.9	25
76	Directing endothelial differentiation of human embryonic stem cells via transduction with an adenoviral vector expressing the VEGF165 gene. <i>Journal of Gene Medicine</i> , 2007, 9, 452-461.	2.8	55
77	Differentiation of Human Embryonic Stem Cells Toward the Chondrogenic Lineage. <i>Methods in Molecular Biology</i> , 2007, 407, 333-349.	0.9	16
78	New Perspectives in Chondrogenic Differentiation of Stem Cells for Cartilage Repair. <i>Scientific World Journal</i> , The, 2006, 6, 361-364.	2.1	3
79	Loss of viability during freeze-thaw of intact and adherent human embryonic stem cells with conventional slow-cooling protocols is predominantly due to apoptosis rather than cellular necrosis. <i>Journal of Biomedical Science</i> , 2006, 13, 433-445.	7.0	108
80	Kinetics of cell death of frozen-thawed human embryonic stem cell colonies is reversibly slowed down by exposure to low temperature. <i>Zygote</i> , 2006, 14, 341-348.	1.1	17
81	Combined effects of TGF β 1 and BMP2 in serum-free chondrogenic differentiation of mesenchymal stem cells induced hyaline-like cartilage formation. <i>Growth Factors</i> , 2005, 23, 313-321.	1.7	100
82	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. <i>Tissue and Cell</i> , 2005, 37, 325-334.	2.2	72