

# Yan Jin

## List of Publications by Citations

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204  
papers

9,151  
citations

57  
h-index

85  
g-index

228  
ext. papers

10,967  
ext. citations

7.3  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
204	Electrospun fibrous mats with high porosity as potential scaffolds for skin tissue engineering. <i>Biomacromolecules</i> , <b>2008</b> , 9, 1795-801	6.9	292
203	Periodontal tissue engineering and regeneration: current approaches and expanding opportunities. <i>Tissue Engineering - Part B: Reviews</i> , <b>2010</b> , 16, 219-55	7.9	229
202	Tumor necrosis factor $\beta$ suppresses the mesenchymal stem cell osteogenesis promoter miR-21 in estrogen deficiency-induced osteoporosis. <i>Journal of Bone and Mineral Research</i> , <b>2013</b> , 28, 559-73	6.3	185
201	Deciduous autologous tooth stem cells regenerate dental pulp after implantation into injured teeth. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	172
200	The promotion of bone regeneration through positive regulation of angiogenic-osteogenic coupling using microRNA-26a. <i>Biomaterials</i> , <b>2013</b> , 34, 5048-58	15.6	158
199	Odontogenic capability: bone marrow stromal stem cells versus dental pulp stem cells. <i>Biology of the Cell</i> , <b>2007</b> , 99, 465-74	3.5	157
198	Autophagy controls mesenchymal stem cell properties and senescence during bone aging. <i>Aging Cell</i> , <b>2018</b> , 17, e12709	9.9	151
197	Treatment of periodontal intrabony defects using autologous periodontal ligament stem cells: a randomized clinical trial. <i>Stem Cell Research and Therapy</i> , <b>2016</b> , 7, 33	8.3	150
196	MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus. <i>Cell Metabolism</i> , <b>2015</b> , 22, 606-18	24.6	147
195	Comparison of mesenchymal stem cells derived from gingival tissue and periodontal ligament in different incubation conditions. <i>Biomaterials</i> , <b>2013</b> , 34, 7033-47	15.6	135
194	MiR-17 modulates osteogenic differentiation through a coherent feed-forward loop in mesenchymal stem cells isolated from periodontal ligaments of patients with periodontitis. <i>Stem Cells</i> , <b>2011</b> , 29, 1804-16	5.8	133
193	High levels of $\beta$ catenin signaling reduce osteogenic differentiation of stem cells in inflammatory microenvironments through inhibition of the noncanonical Wnt pathway. <i>Journal of Bone and Mineral Research</i> , <b>2011</b> , 26, 2082-95	6.3	133
192	Differentiation potential of STRO-1+ dental pulp stem cells changes during cell passaging. <i>BMC Cell Biology</i> , <b>2010</b> , 11, 32		130
191	A nerve graft constructed with xenogeneic acellular nerve matrix and autologous adipose-derived mesenchymal stem cells. <i>Biomaterials</i> , <b>2010</b> , 31, 5312-24	15.6	128
190	The effect of aging on the pluripotential capacity and regenerative potential of human periodontal ligament stem cells. <i>Biomaterials</i> , <b>2012</b> , 33, 6974-86	15.6	122
189	Differentiation of dental pulp stem cells into regular-shaped dentin-pulp complex induced by tooth germ cell conditioned medium. <i>Tissue Engineering</i> , <b>2006</b> , 12, 3097-105		122
188	Tissue-engineered skin containing mesenchymal stem cells improves burn wounds. <i>Artificial Organs</i> , <b>2008</b> , 32, 925-31	2.6	118

187	The use of dentin matrix scaffold and dental follicle cells for dentin regeneration. <i>Biomaterials</i> , <b>2009</b> , 30, 6708-23	15.6	117
186	Characterization of mesenchymal stem cells from human normal and hyperplastic gingiva. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 832-42	7	115
185	Mesenchymal stem cell characteristics of dental pulp and periodontal ligament stem cells after in vivo transplantation. <i>Biomaterials</i> , <b>2014</b> , 35, 6332-43	15.6	112
184	Localized delivery of growth factors for periodontal tissue regeneration: role, strategies, and perspectives. <i>Medicinal Research Reviews</i> , <b>2009</b> , 29, 472-513	14.4	111
183	Evaluation of electrospun fibrous scaffolds of poly(dl-lactide) and poly(ethylene glycol) for skin tissue engineering. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 1869-1876	8.3	109
182	MSC-Derived Exosome Promotes M2 Polarization and Enhances Cutaneous Wound Healing. <i>Stem Cells International</i> , <b>2019</b> , 2019, 7132708	5	107
181	Synergistic angiogenesis promoting effects of extracellular matrix scaffolds and adipose-derived stem cells during wound repair. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 725-39	3.9	106
180	IFN- $\gamma$ and TNF- $\alpha$ synergistically induce mesenchymal stem cell impairment and tumorigenesis via NF $\kappa$ B signaling. <i>Stem Cells</i> , <b>2013</b> , 31, 1383-95	5.8	98
179	Novel glycidyl methacrylated dextran (Dex-GMA)/gelatin hydrogel scaffolds containing microspheres loaded with bone morphogenetic proteins: formulation and characteristics. <i>Journal of Controlled Release</i> , <b>2007</b> , 118, 65-77	11.7	98
178	Effects of FGF2 and TGF $\beta$ 1 on the differentiation of human dental pulp stem cells in vitro. <i>Cell Biology International</i> , <b>2008</b> , 32, 827-34	4.5	98
177	Suppression of EZH2 Prevents the Shift of Osteoporotic MSC Fate to Adipocyte and Enhances Bone Formation During Osteoporosis. <i>Molecular Therapy</i> , <b>2016</b> , 24, 217-229	11.7	97
176	Characterization of stem cells from alveolar periodontal ligament. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 1015-26	3.9	95
175	Anti-aging pharmacology in cutaneous wound healing: effects of metformin, resveratrol, and rapamycin by local application. <i>Aging Cell</i> , <b>2017</b> , 16, 1083-1093	9.9	92
174	Lipopolysaccharide differentially affects the osteogenic differentiation of periodontal ligament stem cells and bone marrow mesenchymal stem cells through Toll-like receptor 4 mediated nuclear factor $\kappa$ B pathway. <i>Stem Cell Research and Therapy</i> , <b>2014</b> , 5, 67	8.3	91
173	Mesenchymal stem cells prevent hypertrophic scar formation via inflammatory regulation when undergoing apoptosis. <i>Journal of Investigative Dermatology</i> , <b>2014</b> , 134, 2648-2657	4.3	90
172	Dental follicle cells and treated dentin matrix scaffold for tissue engineering the tooth root. <i>Biomaterials</i> , <b>2012</b> , 33, 1291-302	15.6	90
171	Stem cell-based bone and dental regeneration: a view of microenvironmental modulation. <i>International Journal of Oral Science</i> , <b>2019</b> , 11, 23	27.9	89
170	Enhancement of periodontal tissue regeneration by locally controlled delivery of insulin-like growth factor-I from dextran-co-gelatin microspheres. <i>Journal of Controlled Release</i> , <b>2006</b> , 114, 209-22	11.7	88

169	Autophagy Maintains the Function of Bone Marrow Mesenchymal Stem Cells to Prevent Estrogen Deficiency-Induced Osteoporosis. <i>Theranostics</i> , <b>2017</b> , 7, 4498-4516	12.1	85
168	TNF- $\alpha$ Inhibits FoxO1 by Upregulating miR-705 to Aggravate Oxidative Damage in Bone Marrow-Derived Mesenchymal Stem Cells during Osteoporosis. <i>Stem Cells</i> , <b>2016</b> , 34, 1054-67	5.8	84
167	Regeneration of dental pulp/dentine complex with a three-dimensional and scaffold-free stem-cell sheet-derived pellet. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 261-70	4.4	82
166	Melatonin Treatment Improves Mesenchymal Stem Cells Therapy by Preserving Stemness during Long-term In Vitro Expansion. <i>Theranostics</i> , <b>2016</b> , 6, 1899-917	12.1	78
165	Heparin improves BMSC cell therapy: Anticoagulant treatment by heparin improves the safety and therapeutic effect of bone marrow-derived mesenchymal stem cell cytotherapy. <i>Theranostics</i> , <b>2017</b> , 7, 106-116	12.1	77
164	Integration of a calcined bovine bone and BMSC-sheet 3D scaffold and the promotion of bone regeneration in large defects. <i>Biomaterials</i> , <b>2013</b> , 34, 9998-10006	15.6	76
163	Electrospun Composite Mats of Poly[(D,L-lactide)-co-glycolide] and Collagen with High Porosity as Potential Scaffolds for Skin Tissue Engineering. <i>Macromolecular Materials and Engineering</i> , <b>2009</b> , 294, 611-619	3.9	74
162	Tissue engineering of cementum/periodontal-ligament complex using a novel three-dimensional pellet cultivation system for human periodontal ligament stem cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2009</b> , 15, 571-81	2.9	73
161	Canonical Wnt signaling differently modulates osteogenic differentiation of mesenchymal stem cells derived from bone marrow and from periodontal ligament under inflammatory conditions. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 1125-34	4	72
160	Periodontal regeneration using novel glycidyl methacrylated dextran (Dex-GMA)/gelatin scaffolds containing microspheres loaded with bone morphogenetic proteins. <i>Journal of Controlled Release</i> , <b>2007</b> , 121, 81-90	11.7	72
159	miR-21 deficiency inhibits osteoclast function and prevents bone loss in mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 43191	4.9	71
158	Loss of proliferation and differentiation capacity of aged human periodontal ligament stem cells and rejuvenation by exposure to the young extrinsic environment. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 2363-71	3.9	71
157	Construction of tissue-engineered cornea composed of amniotic epithelial cells and acellular porcine cornea for treating corneal alkali burn. <i>Biomaterials</i> , <b>2013</b> , 34, 6748-59	15.6	70
156	Epigenetic inhibition of Wnt pathway suppresses osteogenic differentiation of BMSCs during osteoporosis. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 176	9.8	69
155	Expansion and delivery of human fibroblasts on micronized acellular dermal matrix for skin regeneration. <i>Biomaterials</i> , <b>2009</b> , 30, 2666-74	15.6	64
154	Prospects for translational regenerative medicine. <i>Biotechnology Advances</i> , <b>2012</b> , 30, 658-72	17.8	61
153	Stem cell-based bone regeneration in diseased microenvironments: Challenges and solutions. <i>Biomaterials</i> , <b>2019</b> , 196, 18-30	15.6	61
152	Resveratrol counteracts bone loss via mitofilin-mediated osteogenic improvement of mesenchymal stem cells in senescence-accelerated mice. <i>Theranostics</i> , <b>2018</b> , 8, 2387-2406	12.1	60

151	The protection of MSCs from apoptosis in nerve regeneration by TGF $\beta$ 1 through reducing inflammation and promoting VEGF-dependent angiogenesis. <i>Biomaterials</i> , <b>2012</b> , 33, 4277-87	15.6	58
150	Release of bioactive BMP from dextran-derived microspheres: a novel delivery concept. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 307, 23-32	6.5	58
149	Mechanical stress regulates osteogenic differentiation and RANKL/OPG ratio in periodontal ligament stem cells by the Wnt/ $\beta$ catenin pathway. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 2211-9	4	58
148	Mesenchymal stem cells and extracellular matrix scaffold promote muscle regeneration by synergistically regulating macrophage polarization toward the M2 phenotype. <i>Stem Cell Research and Therapy</i> , <b>2018</b> , 9, 88	8.3	57
147	The effect of the coumarin-like derivative osthole on the osteogenic properties of human periodontal ligament and jaw bone marrow mesenchymal stem cell sheets. <i>Biomaterials</i> , <b>2013</b> , 34, 9937-51	15.6	57
146	MiR-26a Rescues Bone Regeneration Deficiency of Mesenchymal Stem Cells Derived From Osteoporotic Mice. <i>Molecular Therapy</i> , <b>2015</b> , 23, 1349-1357	11.7	56
145	Heterogeneous dental follicle cells and the regeneration of complex periodontal tissues. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 459-70	3.9	56
144	Expansion and delivery of adipose-derived mesenchymal stem cells on three microcarriers for soft tissue regeneration. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 2981-97	3.9	54
143	GSK3 $\beta$ is a checkpoint for TNF- $\alpha$ -mediated impaired osteogenic differentiation of mesenchymal stem cells in inflammatory microenvironments. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 5119-29	4	53
142	Periapical follicle stem cell: a promising candidate for cementum/periodontal ligament regeneration and bio-root engineering. <i>Stem Cells and Development</i> , <b>2010</b> , 19, 1405-15	4.4	53
141	Allogeneic Mesenchymal Stem Cell Therapy Promotes Osteoblastogenesis and Prevents Glucocorticoid-Induced Osteoporosis. <i>Stem Cells Translational Medicine</i> , <b>2016</b> , 5, 1238-46	6.9	52
140	Advancing application of mesenchymal stem cell-based bone tissue regeneration. <i>Bioactive Materials</i> , <b>2021</b> , 6, 666-683	16.7	52
139	Effect of age and extrinsic microenvironment on the proliferation and osteogenic differentiation of rat dental pulp stem cells in vitro. <i>Journal of Endodontics</i> , <b>2009</b> , 35, 1546-53	4.7	50
138	Dental stem cell and dental tissue regeneration. <i>Frontiers of Medicine</i> , <b>2019</b> , 13, 152-159	12	49
137	Increased autophagy is required to protect periodontal ligament stem cells from apoptosis in inflammatory microenvironment. <i>Journal of Clinical Periodontology</i> , <b>2016</b> , 43, 618-25	7.7	48
136	Mesenchymal progenitors in osteopenias of diverse pathologies: differential characteristics in the common shift from osteoblastogenesis to adipogenesis. <i>Scientific Reports</i> , <b>2016</b> , 6, 30186	4.9	47
135	Treatment of infarcted heart tissue via the capture and local delivery of circulating exosomes through antibody-conjugated magnetic nanoparticles. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 1063-1075	19	46
134	Role of bone marrow-derived progenitor cells in the maintenance and regeneration of dental mesenchymal tissues. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 2081-90	7	46

133	Induction of transforming growth factor-beta 1 on dentine pulp cells in different culture patterns. <i>Cell Biology International</i> , <b>2006</b> , 30, 295-300	4.5	44
132	The p53/miR-17/Smurf1 pathway mediates skeletal deformities in an age-related model via inhibiting the function of mesenchymal stem cells. <i>Aging</i> , <b>2015</b> , 7, 205-18	5.6	44
131	The effect of licochalcone A on cell-aggregates ECM secretion and osteogenic differentiation during bone formation in metaphyseal defects in ovariectomized rats. <i>Biomaterials</i> , <b>2014</b> , 35, 2789-97	15.6	43
130	Bone tissue engineering by using a combination of polymer/Bioglass composites with human adipose-derived stem cells. <i>Cell and Tissue Research</i> , <b>2014</b> , 356, 97-107	4.2	42
129	Functional neovascularization in tissue engineering with porcine acellular dermal matrix and human umbilical vein endothelial cells. <i>Tissue Engineering - Part C: Methods</i> , <b>2011</b> , 17, 423-33	2.9	41
128	Multifunctional implantable particles for skin tissue regeneration: preparation, characterization, in vitro and in vivo studies. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 1057-66	10.8	40
127	Current progress of skin tissue engineering: Seed cells, bioscaffolds, and construction strategies. <i>Burns and Trauma</i> , <b>2013</b> , 1, 63-72		39
126	Differentiation of dermal multipotent cells into odontogenic lineage induced by embryonic and neonatal tooth germ cell-conditioned medium. <i>Stem Cells and Development</i> , <b>2010</b> , 19, 93-104	4.4	39
125	Natural mineralized scaffolds promote the dentinogenic potential of dental pulp stem cells via the mitogen-activated protein kinase signaling pathway. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 677-91	3.9	38
124	Differentiation of mouse embryonic stem cells into dental epithelial-like cells induced by ameloblasts serum-free conditioned medium. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 394, 342-7	3.4	38
123	Cell pellets from dental papillae can reexhibit dental morphogenesis and dentinogenesis. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 346, 116-24	3.4	38
122	GCN5 modulates osteogenic differentiation of periodontal ligament stem cells through DKK1 acetylation in inflammatory microenvironment. <i>Scientific Reports</i> , <b>2016</b> , 6, 26542	4.9	37
121	Dentin non-collagenous proteins (dNCPs) can stimulate dental follicle cells to differentiate into cementoblast lineages. <i>Biology of the Cell</i> , <b>2008</b> , 100, 291-302	3.5	36
120	Composite cell sheet for periodontal regeneration: crosstalk between different types of MSCs in cell sheet facilitates complex periodontal-like tissue regeneration. <i>Stem Cell Research and Therapy</i> , <b>2016</b> , 7, 168	8.3	35
119	Apocynin suppression of NADPH oxidase reverses the aging process in mesenchymal stem cells to promote osteogenesis and increase bone mass. <i>Scientific Reports</i> , <b>2015</b> , 5, 18572	4.9	35
118	Odontogenic potential of mesenchymal cells from hair follicle dermal papilla. <i>Stem Cells and Development</i> , <b>2009</b> , 18, 583-9	4.4	35
117	Reconstruction of a tissue-engineered skin containing melanocytes. <i>Cell Biology International</i> , <b>2007</b> , 31, 985-90	4.5	35
116	Donor MSCs release apoptotic bodies to improve myocardial infarction via autophagy regulation in recipient cells. <i>Autophagy</i> , <b>2020</b> , 16, 2140-2155	10.2	34



115	Estrogen preserves Fas ligand levels by inhibiting microRNA-181a in bone marrow-derived mesenchymal stem cells to maintain bone remodeling balance. <i>FASEB Journal</i> , <b>2015</b> , 29, 3935-44	0.9	33
114	The biological effect of dentin noncollagenous proteins (DNCPs) on the human periodontal ligament stem cells (HPDLSCs) in vitro and in vivo. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 2059-68	3.9	33
113	Survival and integration of tissue-engineered corneal stroma in a model of corneal ulcer. <i>Cell and Tissue Research</i> , <b>2007</b> , 329, 249-57	4.2	33
112	Chimeric apoptotic bodies functionalized with natural membrane and modular delivery system for inflammation modulation. <i>Science Advances</i> , <b>2020</b> , 6, eaba2987	14.3	33
111	Mitochondrial metabolic failure in telomere attrition-provoked aging of bone marrow mesenchymal stem cells. <i>Biogerontology</i> , <b>2016</b> , 17, 267-79	4.5	32
110	Wound dressings containing bFGF-impregnated microspheres. <i>Journal of Microencapsulation</i> , <b>2006</b> , 23, 277-90	3.4	32
109	Declining histone acetyltransferase GCN5 represses BMSC-mediated angiogenesis during osteoporosis. <i>FASEB Journal</i> , <b>2017</b> , 31, 4422-4433	0.9	31
108	Human Umbilical Cord MSCs as New Cell Sources for Promoting Periodontal Regeneration in Inflammatory Periodontal Defect. <i>Theranostics</i> , <b>2017</b> , 7, 4370-4382	12.1	31
107	DKK1 rescues osteogenic differentiation of mesenchymal stem cells isolated from periodontal ligaments of patients with diabetes mellitus induced periodontitis. <i>Scientific Reports</i> , <b>2015</b> , 5, 13142	4.9	31
106	Mixture of fibroblasts and adipose tissue-derived stem cells can improve epidermal morphogenesis of tissue-engineered skin. <i>Cells Tissues Organs</i> , <b>2012</b> , 195, 197-206	2.1	31
105	Current approaches and challenges in making a bio-tooth. <i>Tissue Engineering - Part B: Reviews</i> , <b>2008</b> , 14, 307-19	7.9	31
104	Exosomes released from educated mesenchymal stem cells accelerate cutaneous wound healing via promoting angiogenesis. <i>Cell Proliferation</i> , <b>2020</b> , 53, e12830	7.9	30
103	Decreased MORF leads to prolonged endoplasmic reticulum stress in periodontitis-associated chronic inflammation. <i>Cell Death and Differentiation</i> , <b>2016</b> , 23, 1862-1872	12.7	30
102	Tumor necrosis factor- $\beta$ suppresses adipogenic and osteogenic differentiation of human periodontal ligament stem cell by inhibiting miR-21/Spry1 functional axis. <i>Differentiation</i> , <b>2017</b> , 97, 33-43	3.5	30
101	Combination of platelet-rich plasma within periodontal ligament stem cell sheets enhances cell differentiation and matrix production. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 627-636	4.4	29
100	Bone marrow mesenchymal stem cell aggregate: an optimal cell therapy for full-layer cutaneous wound vascularization and regeneration. <i>Scientific Reports</i> , <b>2015</b> , 5, 17036	4.9	29
99	Functional bilayered skin substitute constructed by tissue-engineered extracellular matrix and microsphere-incorporated gelatin hydrogel for wound repair. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 2617-24	3.9	29
98	Preparation and biological characteristics of recombinant human bone morphogenetic protein-2-loaded dextran-co-gelatin hydrogel microspheres, in vitro and in vivo studies. <i>Pharmacology</i> , <b>2005</b> , 75, 133-44	2.3	29

97	Knockdown of MicroRNA Let-7a Improves the Functionality of Bone Marrow-Derived Mesenchymal Stem Cells in Immunotherapy. <i>Molecular Therapy</i> , <b>2017</b> , 25, 480-493	11.7	28
96	Dental follicle cells rescue the regenerative capacity of periodontal ligament stem cells in an inflammatory microenvironment. <i>PLoS ONE</i> , <b>2014</b> , 9, e108752	3.7	28
95	Dysplastic spondylolysis is caused by mutations in the diastrophic dysplasia sulfate transporter gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8064-9	11.5	27
94	Epigenetic Regulation of Mesenchymal Stem Cell Homeostasis. <i>Trends in Cell Biology</i> , <b>2020</b> , 30, 97-116	18.3	27
93	Mesenchymal stem cells as a potential treatment for critically ill patients with coronavirus disease 2019. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 813-814	6.9	26
92	Recipient Glycemic Micro-environments Govern Therapeutic Effects of Mesenchymal Stem Cell Infusion on Osteopenia. <i>Theranostics</i> , <b>2017</b> , 7, 1225-1244	12.1	26
91	Mutual inhibition between HDAC9 and miR-17 regulates osteogenesis of human periodontal ligament stem cells in inflammatory conditions. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 480	9.8	26
90	Reconstruction of structure and function in tissue engineering of solid organs: Toward simulation of natural development based on decellularization. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 1432-1447	4.4	26
89	Inflammatory environment induces gingival tissue-specific mesenchymal stem cells to differentiate towards a pro-fibrotic phenotype. <i>Biology of the Cell</i> , <b>2013</b> , 105, 261-75	3.5	26
88	Nicotine deteriorates the osteogenic differentiation of periodontal ligament stem cells through $\alpha$ 7 nicotinic acetylcholine receptor regulating Wnt pathway. <i>PLoS ONE</i> , <b>2013</b> , 8, e83102	3.7	26
87	prevents bone ageing sensitivity by specifically regulating senescence and differentiation in mesenchymal stem cells. <i>Bone Research</i> , <b>2018</b> , 6, 27	13.3	26
86	Periodontal ligament stem cells modulate root resorption of human primary teeth via Runx2 regulating RANKL/OPG system. <i>Stem Cells and Development</i> , <b>2014</b> , 23, 2524-34	4.4	25
85	Preparation of recombinant human bone morphogenetic protein-2 loaded dextran-based microspheres and their characteristics. <i>Acta Pharmacologica Sinica</i> , <b>2005</b> , 26, 1093-103	8	25
84	Gender-independent efficacy of mesenchymal stem cell therapy in sex hormone-deficient bone loss via immunosuppression and resident stem cell recovery. <i>Experimental and Molecular Medicine</i> , <b>2018</b> , 50, 1-14	12.8	25
83	Liver extracellular matrix promotes BM-MSCs hepatic differentiation and reversal of liver fibrosis through activation of integrin pathway. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 2685-2698	4.4	24
82	Epithelial-mesenchymal cell ratios can determine the crown morphogenesis of dental pulp stem cells. <i>Stem Cells and Development</i> , <b>2008</b> , 17, 475-82	4.4	24
81	Mitochondrial Regulation of Stem Cells in Bone Homeostasis. <i>Trends in Molecular Medicine</i> , <b>2020</b> , 26, 89-104	11.5	24
80	Effects of transforming growth factor beta1 (TGFbeta-1) and dentin non-collagenous proteins (DNCP) on human embryonic ectomesenchymal cells in a three-dimensional culture system. <i>Archives of Oral Biology</i> , <b>2005</b> , 50, 937-45	2.8	23



79	Deciduous dental pulp stem cells are involved in osteoclastogenesis during physiologic root resorption. <i>Journal of Cellular Physiology</i> , <b>2013</b> , 228, 207-15	7	22
78	Comparison of therapeutic effects of different mesenchymal stem cells on rheumatoid arthritis in mice. <i>PeerJ</i> , <b>2019</b> , 7, e7023	3.1	21
77	Apoptotic bodies derived from mesenchymal stem cells promote cutaneous wound healing via regulating the functions of macrophages. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 507	8.3	21
76	PD-1 is required to maintain stem cell properties in human dental pulp stem cells. <i>Cell Death and Differentiation</i> , <b>2018</b> , 25, 1350-1360	12.7	20
75	Osthole improves function of periodontitis periodontal ligament stem cells via epigenetic modification in cell sheets engineering. <i>Scientific Reports</i> , <b>2017</b> , 7, 5254	4.9	20
74	Influence of nanotopography on periodontal ligament stem cell functions and cell sheet based periodontal regeneration. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 4009-27	7.3	20
73	Ameloblasts serum-free conditioned medium: bone morphogenic protein 4-induced odontogenic differentiation of mouse induced pluripotent stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 466-74	4.4	19
72	Adipose mesenchymal stem cells from osteoporotic donors preserve functionality and modulate systemic inflammatory microenvironment in osteoporotic cytotherapy. <i>Scientific Reports</i> , <b>2018</b> , 8, 5215	4.9	19
71	Circular RNA circ_0102049 promotes cell progression as ceRNA to target MDM2 via sponging miR-1304-5p in osteosarcoma. <i>Pathology Research and Practice</i> , <b>2019</b> , 215, 152688	3.4	19
70	Micronized acellular dermal matrix as an efficient expansion substrate and delivery vehicle of adipose-derived stem cells for vocal fold regeneration. <i>Laryngoscope</i> , <b>2012</b> , 122, 1815-25	3.6	19
69	Porcine tooth germ cell conditioned medium can induce odontogenic differentiation of human dental pulp stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2011</b> , 5, 354-62	4.4	19
68	Isolation of neural crest-derived stem cells from rat embryonic mandibular processes. <i>Biology of the Cell</i> , <b>2006</b> , 98, 567-75	3.5	19
67	Tissue-engineered nerve constructs under a microgravity system for peripheral nerve regeneration. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 267-76	3.9	17
66	Licochalcone A up-regulates of FasL in mesenchymal stem cells to strengthen bone formation and increase bone mass. <i>Scientific Reports</i> , <b>2014</b> , 4, 7209	4.9	15
65	A novel possible strategy based on self-assembly approach to achieve complete periodontal regeneration. <i>Artificial Organs</i> , <b>2010</b> , 34, 603-9	2.6	14
64	Apoptotic vesicles restore liver macrophage homeostasis to counteract type 2 diabetes. <i>Journal of Extracellular Vesicles</i> , <b>2021</b> , 10, e12109	16.4	14
63	CCL21/IL21-armed oncolytic adenovirus enhances antitumor activity against TERT-positive tumor cells. <i>Virus Research</i> , <b>2016</b> , 220, 172-8	6.4	14
62	Tissue-specific composite cell aggregates drive periodontium tissue regeneration by reconstructing a regenerative microenvironment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 1792-1805	4.4	13

61	Ca 1.2 regulates osteogenesis of bone marrow-derived mesenchymal stem cells via canonical Wnt pathway in age-related osteoporosis. <i>Aging Cell</i> , <b>2019</b> , 18, e12967	9.9	13
60	Enhanced growth suppression of TERT-positive tumor cells by oncolytic adenovirus armed with CCL20 and CD40L. <i>International Immunopharmacology</i> , <b>2015</b> , 28, 487-93	5.8	13
59	Alkaline Phosphatase Controls Lineage Switching of Mesenchymal Stem Cells by Regulating the LRP6/GSK3 $\beta$ Complex in Hypophosphatasia. <i>Theranostics</i> , <b>2018</b> , 8, 5575-5592	12.1	13
58	Resveratrol enhances the functionality and improves the regeneration of mesenchymal stem cell aggregates. <i>Experimental and Molecular Medicine</i> , <b>2018</b> , 50, 1-15	12.8	13
57	Jawbone microenvironment promotes periodontium regeneration by regulating the function of periodontal ligament stem cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 40088	4.9	12
56	The long-term differentiation of embryonic stem cells into cardiomyocytes: an indirect co-culture model. <i>PLoS ONE</i> , <b>2013</b> , 8, e55233	3.7	12
55	ADAM28 participates in the regulation of tooth development. <i>Archives of Oral Biology</i> , <b>2006</b> , 51, 996-1005	12.5	12
54	SHED promote angiogenesis in stem cell-mediated dental pulp regeneration. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 529, 1158-1164	3.4	12
53	Dental Stem Cells and Tooth Regeneration. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1107, 41-52	3.6	11
52	Supernatant of bone marrow mesenchymal stromal cells induces peripheral blood mononuclear cells possessing mesenchymal features. <i>International Journal of Biological Sciences</i> , <b>2011</b> , 7, 364-75	11.2	11
51	Gli1 Cells Couple with Type H Vessels and Are Required for Type H Vessel Formation. <i>Stem Cell Reports</i> , <b>2020</b> , 15, 110-124	8	11
50	Mechanosensing by Gli1 cells contributes to the orthodontic force-induced bone remodelling. <i>Cell Proliferation</i> , <b>2020</b> , 53, e12810	7.9	10
49	The effect of the cleidocranial dysplasia-related novel 1116_1119insC mutation in the RUNX2 gene on the biological function of mesenchymal cells. <i>European Journal of Medical Genetics</i> , <b>2013</b> , 56, 180-7	2.6	10
48	Essential role of ADAM28 in regulating the proliferation and differentiation of human dental papilla mesenchymal cells (hDPMCs). <i>Histochemistry and Cell Biology</i> , <b>2008</b> , 130, 1015-25	2.4	10
47	Modular immune-homeostatic microparticles promote immune tolerance in mouse autoimmune models. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	10
46	SHED aggregate exosomes shuttled miR-26a promote angiogenesis in pulp regeneration via TGF- $\beta$ /SMAD2/3 signalling. <i>Cell Proliferation</i> , <b>2021</b> , 54, e13074	7.9	10
45	On-demand manipulation of tumorigenic microenvironments by nano-modulator for synergistic tumor therapy. <i>Biomaterials</i> , <b>2021</b> , 275, 120956	15.6	10
44	Skin epithelial cells as possible substitutes for ameloblasts during tooth regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2013</b> , 7, 934-43	4.4	9

43	Stress and strain analysis on the anastomosis site sutured with either epineurial or perineurial sutures after simulation of sciatic nerve injury. <i>Neural Regeneration Research</i> , <b>2012</b> , 7, 2299-304	4.5	9
42	Sciatic nerve injury repair: a visualized analysis of research fronts and development trends. <i>Neural Regeneration Research</i> , <b>2014</b> , 9, 1716-22	4.5	9
41	T cell-depleting nanoparticles ameliorate bone loss by reducing activated T cells and regulating the Treg/Th17 balance. <i>Bioactive Materials</i> , <b>2021</b> , 6, 3150-3163	16.7	9
40	Co-culture with neonatal cardiomyocytes enhances the proliferation of iPSC-derived cardiomyocytes via FAK/JNK signaling. <i>BMC Developmental Biology</i> , <b>2016</b> , 16, 11	3.1	8
39	Determination of genes involved in the early process of molar root development initiation in rat by modified subtractive hybridization. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 363, 994-1000	3.4	8
38	Peripheral nerve repair: a hot spot analysis on treatment methods from 2010 to 2014. <i>Neural Regeneration Research</i> , <b>2015</b> , 10, 996-1002	4.5	8
37	Immobilization of heparin on decellularized kidney scaffold to construct microenvironment for antithrombosis and inducing reendothelialization. <i>Science China Life Sciences</i> , <b>2018</b> , 61, 1168-1177	8.5	8
36	A standardized quantitative method for detecting remnant alpha-Gal antigen in animal tissues or animal tissue-derived biomaterials and its application. <i>Scientific Reports</i> , <b>2018</b> , 8, 15424	4.9	8
35	Scaffold-free cell pellet transplantations can be applied to periodontal regeneration. <i>Cell Transplantation</i> , <b>2014</b> , 23, 181-94	4	7
34	Somatic stem cell biology and periodontal regeneration. <i>International Journal of Oral and Maxillofacial Implants</i> , <b>2013</b> , 28, e494-502	2.8	7
33	Cardiotrophin-1 promotes cardiomyocyte differentiation from mouse induced pluripotent stem cells via JAK2/STAT3/Pim-1 signaling pathway. <i>Journal of Geriatric Cardiology</i> , <b>2015</b> , 12, 591-9	1.7	7
32	Engineered neutrophil apoptotic bodies ameliorate myocardial infarction by promoting macrophage efferocytosis and inflammation resolution. <i>Bioactive Materials</i> , <b>2022</b> , 9, 183-197	16.7	7
31	Cosmetic improvement in various acute skin defects treated with tissue-engineered skin. <i>Artificial Organs</i> , <b>2007</b> , 31, 703-10	2.6	6
30	Mesenchymal stromal cell-mediated immune regulation: A promising remedy in the therapy of type 2 diabetes mellitus. <i>Stem Cells</i> , <b>2021</b> , 39, 838-852	5.8	6
29	Impaired autophagy triggered by HDAC9 in mesenchymal stem cells accelerates bone mass loss. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 269	8.3	5
28	Activation of the Wnt/ECatenin Pathway by an Inflammatory Microenvironment Affects the Myogenic Differentiation Capacity of Human Laryngeal Mucosa Mesenchymal Stromal Cells. <i>Stem Cells and Development</i> , <b>2018</b> , 27, 771-782	4.4	5
27	Facile modification of gelatin-based microcarriers with multiporous surface and proliferative growth factors delivery to enhance cell growth. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, 639-645	5.7	5
26	Redundant let-7a suppresses the immunomodulatory properties of BMSCs by inhibiting the Fas/FasL system in osteoporosis. <i>FASEB Journal</i> , <b>2018</b> , 32, 1982-1992	0.9	5

25	Circulating microRNAs in serum as novel biomarkers for osteoporosis: a case-control study. <i>Therapeutic Advances in Musculoskeletal Disease</i> , <b>2020</b> , 12, 1759720X20953331	3.8	5
24	Oxygen carrier in core-shell fibers synthesized by coaxial electrospinning enhances Schwann cell survival and nerve regeneration. <i>Theranostics</i> , <b>2020</b> , 10, 8957-8973	12.1	5
23	Ionomycin ameliorates hypophosphatasia via rescuing alkaline phosphatase deficiency-mediated L-type Ca channel internalization in mesenchymal stem cells. <i>Bone Research</i> , <b>2020</b> , 8, 19	13.3	4
22	Nanorepairers Rescue Inflammation-Induced Mitochondrial Dysfunction in Mesenchymal Stem Cells. <i>Advanced Science</i> , <b>2021</b> , e2103839	13.6	4
21	Induction of antigen-specific cytotoxic T-cell response by dendritic cells generated from ecto-mesenchymal stem cells infected with an adenovirus containing the MAGE-D4a gene. <i>Oncology Letters</i> , <b>2016</b> , 11, 2886-2892	2.6	3
20	Wound dressings containing bFGF-impregnated microspheres: Preparation, characterization, in vitro and in vivo studies. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 4772-4781	2.9	3
19	Identification and characterization of a novel gene, Mcpr1, and its possible function in the proliferation of embryonic palatal mesenchymal cells. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 33997-4008	5.4	3
18	Odontogenesis-related developmental microenvironment facilitates deciduous dental pulp stem cell aggregates to revitalize an avulsed tooth. <i>Biomaterials</i> , <b>2021</b> , 279, 121223	15.6	3
17	NDRG2 suppression as a molecular hallmark of photoreceptor-specific cell death in the mouse retina. <i>Cell Death Discovery</i> , <b>2018</b> , 4, 32	6.9	3
16	Reconstruction of Regenerative Stem Cell Niche by Cell Aggregate Engineering. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2002, 87-99	1.4	3
15	Exosomes Regulate Interclonal Communication on Osteogenic Differentiation Among Heterogeneous Osteogenic Single-Cell Clones Through PINK1/Parkin-Mediated Mitophagy. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 687258	5.7	3
14	Mesenchymal Stem Cells Enhance Therapeutic Effect and Prevent Adverse Gastrointestinal Reaction of Methotrexate Treatment in Collagen-Induced Arthritis. <i>Stem Cells International</i> , <b>2021</b> , 2021, 8850820	5	3
13	Sympathetic Neurostress Drives Osteoblastic Exosomal MiR-21 Transfer to Disrupt Bone Homeostasis and Promote Osteopenia.. <i>Small Methods</i> , <b>2022</b> , 6, e2100763	12.8	3
12	Innovative strategies for tissue engineered skin based on multiple growth factors gene transfection. <i>Medical Hypotheses</i> , <b>2009</b> , 73, 516-8	3.8	2
11	Development of rat antigen-presenting cells from pluripotent ecto-mesenchymal stem cells in vitro and in vivo. <i>Molecular Immunology</i> , <b>2008</b> , 45, 3818-26	4.3	2
10	Substrate-independent polymer coating with stimuli-responsive dexamethasone release for on-demand fibrosis inhibition. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 7777-7784	7.3	2
9	Tooth and Dental Pulp Regeneration <b>2019</b> , 367-392		2
8	Periodontal Tissue Engineering <b>2015</b> , 471-482		1

7	Characterization of rat apical tissues in different root development stage. <i>Connective Tissue Research</i> , <b>2011</b> , 52, 393-400	3.3	1
6	Dentin elasticity may contribute to the differentiation of dental follicle cells into cementoblast lineages. <i>Bioscience Hypotheses</i> , <b>2008</b> , 1, 2-4		1
5	Hybrid Biomaterial Initiates Refractory Wound Healing via Inducing Transiently Heightened Inflammatory Responses. <i>Advanced Science</i> , 2105650	13.6	1
4	Naphthalenephenylalanine-phenylalanine-glycine-arginine-glycine-aspartic promotes self-assembly of nephron progenitor cells in decellularized scaffolds to construct bioengineered kidneys.. <i>Materials Science and Engineering C</i> , <b>2021</b> , 112590	8.3	0
3	Gli1 Cells Residing in Bone Sutures Respond to Mechanical Force via IPR to Mediate Osteogenesis. <i>Stem Cells International</i> , <b>2021</b> , 2021, 8138374	5	0
2	Periodontal Bioengineering Strategies: The Present Status and Some Developing Trends <b>2013</b> , 501-524		
1	Negative regulating factors of notch signaling may be a key factor for the teeth root formation. <i>Bioscience Hypotheses</i> , <b>2009</b> , 2, 151-152		