

Chider Chen

List of Publications by Year in descending order

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68
papers

5,850
citations

70961

41
h-index

98622

67
g-index

73
all docs

73
docs citations

73
times ranked

8337
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesenchymal-Stem-Cell-Induced Immunoregulation Involves FAS-Ligand-/FAS-Mediated T Cell Apoptosis. <i>Cell Stem Cell</i> , 2012, 10, 544-555.	5.2	608
2	Mesenchymal stem cell-based tissue regeneration is governed by recipient T lymphocytes via IFN- γ and TNF- α . <i>Nature Medicine</i> , 2011, 17, 1594-1601.	15.2	551
3	Immunomodulatory properties of stem cells from human exfoliated deciduous teeth. <i>Stem Cell Research and Therapy</i> , 2010, 1, 5.	2.4	280
4	Hydrogen Sulfide Promotes Tet1- and Tet2-Mediated Foxp3 Demethylation to Drive Regulatory T Cell Differentiation and Maintain Immune Homeostasis. <i>Immunity</i> , 2015, 43, 251-263.	6.6	276
5	Exosomes from TNF- α -treated human gingiva-derived MSCs enhance M2 macrophage polarization and inhibit periodontal bone loss. <i>Acta Biomaterialia</i> , 2021, 122, 306-324.	4.1	203
6	MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus. <i>Cell Metabolism</i> , 2015, 22, 606-618.	7.2	195
7	Single cell transcriptomics identifies a unique adipose lineage cell population that regulates bone marrow environment. <i>ELife</i> , 2020, 9, .	2.8	191
8	Cell-based immunotherapy with mesenchymal stem cells cures bisphosphonate-related osteonecrosis of the jaw-like disease in mice. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 1668-1679.	3.1	182
9	Circulating apoptotic bodies maintain mesenchymal stem cell homeostasis and ameliorate osteopenia via transferring multiple cellular factors. <i>Cell Research</i> , 2018, 28, 918-933.	5.7	165
10	Pluronic F-127 hydrogel as a promising scaffold for encapsulation of dental-derived mesenchymal stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 153.	1.7	146
11	Gingivae Contain Neural-crest- and Mesoderm-derived Mesenchymal Stem Cells. <i>Journal of Dental Research</i> , 2013, 92, 825-832.	2.5	139
12	The Fas/Fap-1/Cav-1 complex regulates IL-1RA secretion in mesenchymal stem cells to accelerate wound healing. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	131
13	IL-17-mediated M1/M2 Macrophage Alteration Contributes to Pathogenesis of Bisphosphonate-Related Osteonecrosis of the Jaws. <i>Clinical Cancer Research</i> , 2013, 19, 3176-3188.	3.2	126
14	IFN- γ and TNF- α Synergistically Induce Mesenchymal Stem Cell Impairment and Tumorigenesis via NF- κ B Signaling. <i>Stem Cells</i> , 2013, 31, 1383-1395.	1.4	122
15	Co-encapsulation of anti-BMP2 monoclonal antibody and mesenchymal stem cells in alginate microspheres for bone tissue engineering. <i>Biomaterials</i> , 2013, 34, 6572-6579.	5.7	121
16	Alginate hydrogel as a promising scaffold for dental-derived stem cells: an in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 3041-3051.	1.7	111
17	Application of stem cells derived from the periodontal ligament or gingival tissue sources for tendon tissue regeneration. <i>Biomaterials</i> , 2014, 35, 2642-2650.	5.7	111
18	Mouse Mandible Contains Distinctive Mesenchymal Stem Cells. <i>Journal of Dental Research</i> , 2011, 90, 317-324.	2.5	96

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19	Dental mesenchymal stem cells encapsulated in an alginate hydrogel co-delivery microencapsulation system for cartilage regeneration. <i>Acta Biomaterialia</i> , 2013, 9, 9343-9350.	4.1	96
20	Bone Regeneration Potential of Stem Cells Derived from Periodontal Ligament or Gingival Tissue Sources Encapsulated in RGD-Modified Alginate Scaffold. <i>Tissue Engineering - Part A</i> , 2013, 20, 131106060201007.	1.6	96
21	Pulp Stem Cell-Mediated Functional Pulp Regeneration. <i>Journal of Dental Research</i> , 2019, 98, 27-35.	2.5	92
22	Mesenchymal stem cell transplantation in tight-skin mice identifies miR-151-5p as a therapeutic target for systemic sclerosis. <i>Cell Research</i> , 2017, 27, 559-577.	5.7	89
23	Osteoblast-induced osteoclast apoptosis by fas ligand/FAS pathway is required for maintenance of bone mass. <i>Cell Death and Differentiation</i> , 2015, 22, 1654-1664.	5.0	86
24	Tet1 and Tet2 maintain mesenchymal stem cell homeostasis via demethylation of the P2rx7 promoter. <i>Nature Communications</i> , 2018, 9, 2143.	5.8	85
25	Encapsulated dental-derived mesenchymal stem cells in an injectable and biodegradable scaffold for applications in bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3285-3294.	2.1	80
26	Characterization of bone marrow derived mesenchymal stem cells in suspension. <i>Stem Cell Research and Therapy</i> , 2012, 3, 40.	2.4	77
27	A subset of IL-17+ mesenchymal stem cells possesses anti-Candida albicans effect. <i>Cell Research</i> , 2013, 23, 107-121.	5.7	72
28	Muscle Tissue Engineering Using Gingival Mesenchymal Stem Cells Encapsulated in Alginate Hydrogels Containing Multiple Growth Factors. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1908-1920.	1.3	71
29	Nanoindentation modulus of murine cartilage: a sensitive indicator of the initiation and progression of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 108-117.	0.6	70
30	Gingival Mesenchymal Stem Cell (GMSC) Delivery System Based on RGD-Coupled Alginate Hydrogel with Antimicrobial Properties: A Novel Treatment Modality for Peri-Implantitis. <i>Journal of Prosthodontics</i> , 2016, 25, 105-115.	1.7	69
31	mTOR inhibition rescues osteopenia in mice with systemic sclerosis. <i>Journal of Experimental Medicine</i> , 2015, 212, 73-91.	4.2	67
32	Regulation of the Stem Cell-Host Immune System Interplay Using Hydrogel Coencapsulation System with an Anti-Inflammatory Drug. <i>Advanced Functional Materials</i> , 2015, 25, 2296-2307.	7.8	66
33	Human Periodontal Ligament- and Gingiva-derived Mesenchymal Stem Cells Promote Nerve Regeneration When Encapsulated in Alginate/Hyaluronic Acid 3D Scaffold. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700670.	3.9	59
34	Acetylsalicylic Acid Treatment Improves Differentiation and Immunomodulation of SHED. <i>Journal of Dental Research</i> , 2015, 94, 209-218.	2.5	58
35	Transplantation of SHED Prevents Bone Loss in the Early Phase of Ovariectomy-induced Osteoporosis. <i>Journal of Dental Research</i> , 2014, 93, 1124-1132.	2.5	51
36	Chronic High Dose Alcohol Induces Osteopenia via Activation of mTOR Signaling in Bone Marrow Mesenchymal Stem Cells. <i>Stem Cells</i> , 2016, 34, 2157-2168.	1.4	51

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37	Hydrogel elasticity and microarchitecture regulate dental-derived mesenchymal stem cell-host immune system cross-talk. <i>Acta Biomaterialia</i> , 2017, 60, 181-189.	4.1	49
38	Alginate/hyaluronic acid hydrogel delivery system characteristics regulate the differentiation of periodontal ligament stem cells toward chondrogenic lineage. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 162.	1.7	47
39	Lineage Differentiation of Mesenchymal Stem Cells from Dental Pulp, Apical Papilla, and Periodontal Ligament. <i>Methods in Molecular Biology</i> , 2012, 887, 111-121.	0.4	46
40	Human-chimpanzee fused cells reveal cis-regulatory divergence underlying skeletal evolution. <i>Nature Genetics</i> , 2021, 53, 467-476.	9.4	46
41	Telomerase governs immunomodulatory properties of mesenchymal stem cells by regulating <sc>FAS</sc> ligand expression. <i>EMBO Molecular Medicine</i> , 2014, 6, 322-334.	3.3	45
42	Mesenchymal stem cells inhibit multiple myeloma cells via the Fas/Fas ligand pathway. <i>Stem Cell Research and Therapy</i> , 2013, 4, 111.	2.4	44
43	Periarticular Mesenchymal Progenitors Initiate and Contribute to Secondary Ossification Center Formation During Mouse Long Bone Development. <i>Stem Cells</i> , 2019, 37, 677-689.	1.4	43
44	Basic fibroblast growth factor inhibits osteogenic differentiation of stem cells from human exfoliated deciduous teeth through ERK signaling. <i>Oral Diseases</i> , 2012, 18, 285-292.	1.5	36
45	Microbiota regulates bone marrow mesenchymal stem cell lineage differentiation and immunomodulation. <i>Stem Cell Research and Therapy</i> , 2017, 8, 213.	2.4	33
46	Ecological Balance of Oral Microbiota Is Required to Maintain Oral Mesenchymal Stem Cell Homeostasis. <i>Stem Cells</i> , 2018, 36, 551-561.	1.4	32
47	PD-1 is required to maintain stem cell properties in human dental pulp stem cells. <i>Cell Death and Differentiation</i> , 2018, 25, 1350-1360.	5.0	31
48	Diabetes-Induced NF- κ B Dysregulation in Skeletal Stem Cells Prevents Resolution of Inflammation. <i>Diabetes</i> , 2019, 68, 2095-2106.	0.3	28
49	Proteomic analysis of MSC-derived apoptotic vesicles identifies Fas inheritance to ameliorate haemophilia a via activating platelet functions. <i>Journal of Extracellular Vesicles</i> , 2022, 11, .	5.5	28
50	Dental and orofacial mesenchymal stem cells in craniofacial regeneration: The prosthodontist's point of view. <i>Journal of Prosthetic Dentistry</i> , 2017, 118, 455-461.	1.1	27
51	RGD-Modified Alginate-GelMA Hydrogel Sheet Containing Gingival Mesenchymal Stem Cells: A Unique Platform for Wound Healing and Soft Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 3774-3782.	2.6	27
52	Oral Mucositis: An Update on Innate Immunity and New Interventional Targets. <i>Journal of Dental Research</i> , 2020, 99, 1122-1130.	2.5	24
53	Technetium-99 Conjugated with Methylene Diphosphonate Ameliorates Ovariectomy-Induced Osteoporotic Phenotype without Causing Osteonecrosis in the Jaw. <i>Calcified Tissue International</i> , 2012, 91, 400-408.	1.5	23
54	The mechanosensor of mesenchymal stem cells: mechanosensitive channel or cytoskeleton?. <i>Stem Cell Research and Therapy</i> , 2016, 7, 140.	2.4	23

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55	Bioactive glass-containing hydrogel delivery system for osteogenic differentiation of human dental pulp stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 557-564.	2.1	20
56	Autophagy controls mesenchymal stem cell therapy in psychological stress colitis mice. <i>Autophagy</i> , 2021, 17, 2586-2603.	4.3	15
57	Whitlockite-Enabled Hydrogel for Craniofacial Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35342-35355.	4.0	13
58	Mechanical force-driven TNF α endocytosis governs stem cell homeostasis. <i>Bone Research</i> , 2020, 8, 44.	5.4	13
59	Mesenchymal Stem Cells and Their Role in Dental Medicine. <i>Dental Clinics of North America</i> , 2017, 61, 161-172.	0.8	12
60	Metabolic Reconfiguration Activates Stemness and Immunomodulation of PDLSCs. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4038.	1.8	11
61	Oral Rehabilitation of Patients Sustaining Orofacial Injuries: The UPenn Initiative. <i>Advances in Dental Research</i> , 2019, 30, 50-56.	3.6	8
62	Microenvironment Can Induce Development of Auditory Progenitor Cells from Human Gingival Mesenchymal Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2263-2273.	2.6	6
63	Harnessing Dental Stem Cell Immunoregulation Using Cell-Laden Biomaterials. <i>Journal of Dental Research</i> , 2021, 100, 568-575.	2.5	6
64	mTOR Signaling in the Regulation of CD4+ T Cell Subsets in Periodontal Diseases. <i>Frontiers in Immunology</i> , 2022, 13, 827461.	2.2	6
65	Editorial: Advanced Materials for the Restoration and Reconstruction of Dental Functions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 756860.	2.0	2
66	Robustness Testing of Mesenchymal Stem Cell Monotherapy Following Vascularized Composite Allotransplantation. <i>Journal of Reconstructive Microsurgery</i> , 2020, 36, 397-402.	1.0	1
67	mTOR inhibition rescues osteopenia in mice with systemic sclerosis. <i>Journal of Cell Biology</i> , 2015, 208, 20810IA234.	2.3	0
68	Exosomes from TNF α -Treated Human Gingiva-Derived MSCs Inhibit Periodontal Bone Loss Via CD73 and MiR-1260b-Mediated Attenuation of Inflammation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0