

# Fa-Ming Chen

## List of Publications by Year in Descending Order

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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.

88  
papers

5,006  
citations

37  
h-index

70  
g-index

98  
ext. papers

5,890  
ext. citations

8.7  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
88	LncRNA GACAT2 binds with protein PKM1/2 to regulate cell mitochondrial function and cementogenesis in an inflammatory environment.. <i>Bone Research</i> , <b>2022</b> , 10, 29	13.3	0
87	Role of molybdenum in material immunomodulation and periodontal wound healing: Targeting immunometabolism and mitochondrial function for macrophage modulation.. <i>Biomaterials</i> , <b>2022</b> , 283, 121439	15.6	0
86	Periodontitis-compromised dental pulp stem cells secrete extracellular vesicles carrying miRNA-378a promote local angiogenesis by targeting Sufu to activate the Hedgehog/Gli1 signalling. <i>Cell Proliferation</i> , <b>2021</b> , 54, e13026	7.9	3
85	Melatonin induces the rejuvenation of long-term ex vivo expanded periodontal ligament stem cells by modulating the autophagic process. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 254	8.3	4
84	Removal of nonimpacted third molars alters the periodontal condition of their neighbors clinically, immunologically, and microbiologically. <i>International Journal of Oral Science</i> , <b>2021</b> , 13, 5	27.9	1
83	Research progress on the hedgehog signalling pathway in regulating bone formation and homeostasis.. <i>Cell Proliferation</i> , <b>2021</b> , e13162	7.9	2
82	Calcitriol inhibits osteoclastogenesis in an inflammatory environment by changing the proportion and function of T helper cell subsets (Th2/Th17). <i>Cell Proliferation</i> , <b>2020</b> , 53, e12827	7.9	7
81	The proangiogenic effects of extracellular vesicles secreted by dental pulp stem cells derived from periodontally compromised teeth. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 110	8.3	22
80	Exosomes derived from P2X7 receptor gene-modified cells rescue inflammation-compromised periodontal ligament stem cells from dysfunction. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 1414-1430	6.9	11
79	Impacts of non-impacted third molar removal on the periodontal condition of adjacent second molars. <i>Oral Diseases</i> , <b>2020</b> , 26, 1010-1019	3.5	2
78	Periodontal tissue engineering and regeneration <b>2020</b> , 1221-1249		1
77	Exosomes derived from M0, M1 and M2 macrophages exert distinct influences on the proliferation and differentiation of mesenchymal stem cells. <i>PeerJ</i> , <b>2020</b> , 8, e8970	3.1	16
76	ECM-mimicking nanofibrous matrix coaxes macrophages toward an anti-inflammatory phenotype: Cellular behaviors and transcriptome analysis. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100508-100508	6.6	10
75	Pore size-mediated macrophage M1-to-M2 transition influences new vessel formation within the compartment of a scaffold. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100466	6.6	16
74	Suppression of histone deacetylases by SAHA relieves bone cancer pain in rats via inhibiting activation of glial cells in spinal dorsal horn and dorsal root ganglia. <i>Journal of Neuroinflammation</i> , <b>2020</b> , 17, 125	10.1	14
73	The relationship between T-helper cell polarization and the RANKL/OPG ratio in gingival tissues from chronic periodontitis patients. <i>Clinical and Experimental Dental Research</i> , <b>2019</b> , 5, 377-388	1.9	13
72	Calcitriol suppresses lipopolysaccharide-induced alveolar bone damage in rats by regulating T helper cell subset polarization. <i>Journal of Periodontal Research</i> , <b>2019</b> , 54, 612-623	4.3	15

71	Modulating macrophage responses to promote tissue regeneration by changing the formulation of bone extracellular matrix from filler particles to gel bioscaffolds. <i>Materials Science and Engineering C</i> , <b>2019</b> , 101, 330-340	8.3	32
70	Building capacity for macrophage modulation and stem cell recruitment in high-stiffness hydrogels for complex periodontal regeneration: Experimental studies in vitro and in rats. <i>Acta Biomaterialia</i> , <b>2019</b> , 88, 162-180	10.8	45
69	M2 Macrophages Enhance the Cementoblastic Differentiation of Periodontal Ligament Stem Cells via the Akt and JNK Pathways. <i>Stem Cells</i> , <b>2019</b> , 37, 1567-1580	5.8	19
68	Surface modification via plasmid-mediated pLAMA3-CM gene transfection promotes the attachment of gingival epithelial cells to titanium sheets in vitro and improves biological sealing at the transmucosal sites of titanium implants in vivo. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 7415-7427	7.3	10
67	Concise Review: Periodontal Tissue Regeneration Using Stem Cells: Strategies and Translational Considerations. <i>Stem Cells Translational Medicine</i> , <b>2019</b> , 8, 392-403	6.9	62
66	Role of the P2X7 receptor in inflammation-mediated changes in the osteogenesis of periodontal ligament stem cells. <i>Cell Death and Disease</i> , <b>2019</b> , 10, 20	9.8	26
65	The Critical Role of Cell Homing in Cytotherapeutics and Regenerative Medicine. <i>Advanced Therapeutics</i> , <b>2019</b> , 2, 1800098	4.9	5
64	Macrophage polarization in human gingival tissue in response to periodontal disease. <i>Oral Diseases</i> , <b>2019</b> , 25, 265-273	3.5	52
63	Biomaterials for endogenous regenerative medicine: Coaxing stem cell homing and beyond. <i>Applied Materials Today</i> , <b>2018</b> , 11, 144-165	6.6	39
62	Macrophage involvement affects matrix stiffness-related influences on cell osteogenesis under three-dimensional culture conditions. <i>Acta Biomaterialia</i> , <b>2018</b> , 71, 132-147	10.8	46
61	Human platelet lysate supports the formation of robust human periodontal ligament cell sheets. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 961-972	4.4	4
60	Melatonin Inhibits Reactive Oxygen Species-Driven Proliferation, Epithelial-Mesenchymal Transition, and Vasculogenic Mimicry in Oral Cancer. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 3510970	6.7	30
59	Inhibition of Histone Deacetylases Attenuates Morphine Tolerance and Restores MOR Expression in the DRG of BCP Rats. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 509	5.6	8
58	The effects of conditioned media generated by polarized macrophages on the cellular behaviours of bone marrow mesenchymal stem cells. <i>Journal of Cellular and Molecular Medicine</i> , <b>2018</b> , 22, 1302-1315	5.6	28
57	In vitro cell behaviors of bone mesenchymal stem cells derived from normal and postmenopausal osteoporotic rats. <i>International Journal of Molecular Medicine</i> , <b>2018</b> , 41, 669-678	4.4	13
56	Platelet lysate supports the in vitro expansion of human periodontal ligament stem cells for cytotherapeutic use. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 2261-2275	4.4	15
55	Nonimpacted Third Molars Affect the Periodontal Status of Adjacent Teeth: A Cross-Sectional Study. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2017</b> , 75, 1344-1350	1.8	5
54	Effect of Asymptomatic Visible Third Molars on Periodontal Health of Adjacent Second Molars: A Cross-Sectional Study. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2017</b> , 75, 2048-2057	1.8	8

53	Engineering a Cell Home for Stem Cell Homing and Accommodation. <i>Advanced Biology</i> , <b>2017</b> , 1, e17000045	4.5	24
52	Influence of Non-Impacted Third Molars on Pathologies of Adjacent Second Molars: A Retrospective Study. <i>Journal of Periodontology</i> , <b>2017</b> , 88, 450-456	4.6	16
51	Advanced Biotechnologies Toward Engineering a Cell Home for Stem Cell Accommodation. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700022	6.8	9
50	Influences of age-related changes in mesenchymal stem cells on macrophages during in-vitro culture. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 153	8.3	33
49	Hypoxia and low-dose inflammatory stimulus synergistically enhance bone marrow mesenchymal stem cell migration. <i>Cell Proliferation</i> , <b>2017</b> , 50,	7.9	18
48	Effects of cathepsin K on Emdogain-induced hard tissue formation by human periodontal ligament stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 2922-2934	4.4	5
47	Exosomes secreted by stem cells from human exfoliated deciduous teeth contribute to functional recovery after traumatic brain injury by shifting microglia M1/M2 polarization in rats. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 198	8.3	93
46	Administration of signalling molecules dictates stem cell homing for in situ regeneration. <i>Journal of Cellular and Molecular Medicine</i> , <b>2017</b> , 21, 3162-3177	5.6	27
45	Advancing biomaterials of human origin for tissue engineering. <i>Progress in Polymer Science</i> , <b>2016</b> , 53, 86-168	29.6	575
44	The use of platelet-rich fibrin combined with periodontal ligament and jaw bone mesenchymal stem cell sheets for periodontal tissue engineering. <i>Scientific Reports</i> , <b>2016</b> , 6, 28126	4.9	47
43	Effects of short-term inflammatory and/or hypoxic pretreatments on periodontal ligament stem cells: in vitro and in vivo studies. <i>Cell and Tissue Research</i> , <b>2016</b> , 366, 311-328	4.2	24
42	Directing immunomodulation using biomaterials for endogenous regeneration. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 569-584	7.3	35
41	Stromal cell-derived factor-1-directed bone marrow mesenchymal stem cell migration in response to inflammatory and/or hypoxic stimuli. <i>Cell Adhesion and Migration</i> , <b>2016</b> , 10, 342-59	3.2	25
40	Cell Responses to Conditioned Media Produced by Patient-Matched Stem Cells Derived From Healthy and Inflamed Periodontal Ligament Tissues. <i>Journal of Periodontology</i> , <b>2016</b> , 87, e53-63	4.6	15
39	Stem cells derived from "inflamed" and healthy periodontal ligament tissues and their sheet functionalities: a patient-matched comparison. <i>Journal of Clinical Periodontology</i> , <b>2016</b> , 43, 72-84	7.7	52
38	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
37	Assessment of cellular materials generated by co-cultured Inflamed and healthy periodontal ligament stem cells from patient-matched groups. <i>Experimental Cell Research</i> , <b>2016</b> , 346, 119-29	4.2	7
36	Age-related decline in the matrix contents and functional properties of human periodontal ligament stem cell sheets. <i>Acta Biomaterialia</i> , <b>2015</b> , 22, 70-82	10.8	37

35	Biphasic silica/apatite co-mineralized collagen scaffolds stimulate osteogenesis and inhibit RANKL-mediated osteoclastogenesis. <i>Acta Biomaterialia</i> , <b>2015</b> , 19, 23-32	10.8	41
34	Investigation of dental pulp stem cells isolated from discarded human teeth extracted due to aggressive periodontitis. <i>Biomaterials</i> , <b>2014</b> , 35, 9459-72	15.6	35
33	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
32	Periodontal Tissue Engineering <b>2014</b> , 1507-1540		8
31	Surface-engineering of glycidyl methacrylated dextran/gelatin microcapsules with thermo-responsive poly(N-isopropylacrylamide) gates for controlled delivery of stromal cell-derived factor-1 $\beta$ . <i>Biomaterials</i> , <b>2013</b> , 34, 6515-27	15.6	41
30	The adjuvant use of stromal vascular fraction and platelet-rich fibrin for autologous adipose tissue transplantation. <i>Tissue Engineering - Part C: Methods</i> , <b>2013</b> , 19, 1-14	2.9	59
29	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
28	Mesenchymal stem cells inhibit multiple myeloma cells via the Fas/Fas ligand pathway. <i>Stem Cell Research and Therapy</i> , <b>2013</b> , 4, 111	8.3	37
27	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
26	The combined use of cell sheet fragments of periodontal ligament stem cells and platelet-rich fibrin granules for avulsed tooth reimplantation. <i>Biomaterials</i> , <b>2013</b> , 34, 5506-20	15.6	84
25	Periodontal Bioengineering Strategies: The Present Status and Some Developing Trends <b>2013</b> , 501-524		
24	Translational research and therapeutic applications of stem cell transplantation in periodontal regenerative medicine. <i>Cell Transplantation</i> , <b>2013</b> , 22, 205-29	4	27
23	The effects of human platelet lysate on dental pulp stem cells derived from impacted human third molars. <i>Biomaterials</i> , <b>2012</b> , 33, 5023-35	15.6	64
22	Stem cell-delivery therapeutics for periodontal tissue regeneration. <i>Biomaterials</i> , <b>2012</b> , 33, 6320-44	15.6	206
21	Prospects for translational regenerative medicine. <i>Biotechnology Advances</i> , <b>2012</b> , 30, 658-72	17.8	61
20	Designing biomaterials for in situ periodontal tissue regeneration. <i>Biotechnology Progress</i> , <b>2012</b> , 28, 3-20	2.8	38
19	The use of calcium phosphate-based biomaterials in implant dentistry. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 853-62	4.5	38
18	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

17	Expression of dentine sialophosphoprotein in mouse nasal cartilage. <i>Archives of Oral Biology</i> , <b>2012</b> , 57, 607-13	2.8	7
16	New insights into and novel applications of release technology for periodontal reconstructive therapies. <i>Journal of Controlled Release</i> , <b>2011</b> , 149, 92-110	11.7	110
15	Biological approaches toward dental pulp regeneration by tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2011</b> , 5, e1-16	4.4	53
14	Homing of endogenous stem/progenitor cells for in situ tissue regeneration: Promises, strategies, and translational perspectives. <i>Biomaterials</i> , <b>2011</b> , 32, 3189-209	15.6	275
13	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
12	A review on endogenous regenerative technology in periodontal regenerative medicine. <i>Biomaterials</i> , <b>2010</b> , 31, 7892-927	15.6	259
11	Toward delivery of multiple growth factors in tissue engineering. <i>Biomaterials</i> , <b>2010</b> , 31, 6279-308	15.6	510
10	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
9	Composite glycidyl methacrylated dextran (Dex-GMA)/gelatin nanoparticles for localized protein delivery. <i>Acta Pharmacologica Sinica</i> , <b>2009</b> , 30, 485-93	8	29
8	In vitro cellular responses to scaffolds containing two microencapsulated growth factors. <i>Biomaterials</i> , <b>2009</b> , 30, 5215-24	15.6	109
7	Gene delivery for periodontal tissue engineering: current knowledge - future possibilities. <i>Current Gene Therapy</i> , <b>2009</b> , 9, 248-66	4.3	19
6	Novel composite nanoparticles based on glycidyl methacrylate-derivatized dextrans and gelatin as new bone morphogenetic protein carrier. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 84, 568	5.4	6
5	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
4	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
3	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
2	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
1	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