

Weidong Tian

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.

111
papers

1,698
citations

22
h-index

34
g-index

123
ext. papers

2,379
ext. citations

6.2
avg, IF

4.96
L-index

#	Paper	IF	Citations
111	Matrix vesicles from dental follicle cells improve alveolar bone regeneration via activation of the PLC/PKC/MAPK pathway.. <i>Stem Cell Research and Therapy</i> , 2022 , 13, 41	8.3	2
110	The Application of Pulp Tissue Derived-Exosomes in Pulp Regeneration: A Novel Cell-Homing Approach.. <i>International Journal of Nanomedicine</i> , 2022 , 17, 465-476	7.3	0
109	Lipopolysaccharide-Preconditioned Dental Follicle Stem Cells Derived Small Extracellular Vesicles Treating Periodontitis via Reactive Oxygen Species/Mitogen-Activated Protein Kinase Signaling-Mediated Antioxidant Effect.. <i>International Journal of Nanomedicine</i> , 2022 , 17, 799-819	7.3	4
108	Nucleophosmin3 carried by small extracellular vesicles contribute to white adipose tissue browning.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 165	9.4	1
107	Comparison of two cell-free therapeutics derived from adipose tissue: small extracellular vesicles versus conditioned medium.. <i>Stem Cell Research and Therapy</i> , 2022 , 13, 86	8.3	1
106	Preparation of BMP-2/PDA-BCP Bioceramic Scaffold by DLP 3D Printing and its Ability for Inducing Continuous Bone Formation.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 854693	5.8	3
105	Preservation of Small Extracellular Vesicle in Gelatin Methacryloyl Hydrogel Through Reduced Particles Aggregation for Therapeutic Applications. <i>International Journal of Nanomedicine</i> , 2021 , 16, 7837-7846 ⁰	7.3	7846 ⁰
104	Schwann Cell-Derived EVs Facilitate Dental Pulp Regeneration through Endogenous Stem Cell Recruitment via SDF-1/CXCR4 Axis. <i>Acta Biomaterialia</i> , 2021 , 140, 610-610	10.8	2
103	Bone Marrow Mesenchymal Stem Cell-Derived Small Extracellular Vesicles Promote Periodontal Regeneration. <i>Tissue Engineering - Part A</i> , 2021 , 27, 962-976	3.9	18
102	Improvement of ECM-based bioroot regeneration via N-acetylcysteine-induced antioxidative effects. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 202	8.3	5
101	Application of cryopreservation to tooth germ transplantation for root development and tooth eruption. <i>Scientific Reports</i> , 2021 , 11, 9522	4.9	0
100	Small Extracellular Vesicles Derived from Adipose Tissue Prevent Bisphosphonate-Related Osteonecrosis of the Jaw by Promoting Angiogenesis. <i>International Journal of Nanomedicine</i> , 2021 , 16, 3161-3172	7.3	5
99	Xenogenic dentin matrix as a scaffold for biomineralization and induced odontogenesis. <i>Biomedical Materials (Bristol)</i> , 2021 , 16,	3.5	3
98	Strategies of Prevascularization in Tissue Engineering and Regeneration of Craniofacial Tissues. <i>Tissue Engineering - Part B: Reviews</i> , 2021 ,	7.9	1
97	Adipose Tissue-derived Microvascular Fragments as Vascularization Units for Dental Pulp Regeneration. <i>Journal of Endodontics</i> , 2021 , 47, 1092-1100	4.7	5
96	CircRNA-23525 regulates osteogenic differentiation of adipose-derived mesenchymal stem cells via miR-30a-3p. <i>Cell and Tissue Research</i> , 2021 , 383, 795-807	4.2	11
95	Vitamin C alleviates the senescence of periodontal ligament stem cells through inhibition of Notch3 during long-term culture. <i>Journal of Cellular Physiology</i> , 2021 , 236, 1237-1251	7	3

94	Reparative Dentin Formation by Dentin Matrix Proteins and Small Extracellular Vesicles. <i>Journal of Endodontics</i> , 2021 , 47, 253-262	4.7	3
93	A Review of the Functions of Matrix Vesicles in Periodontal Tissues. <i>Stem Cells and Development</i> , 2021 , 30, 165-176	4.4	2
92	Recruited CD68CD206 macrophages orchestrate graft immune tolerance to prompt xenogeneic-dentin matrix-based tooth root regeneration. <i>Bioactive Materials</i> , 2021 , 6, 1051-1072	16.7	7
91	Identification of potential biomarkers and available drugs for oral squamous cell carcinoma.. <i>Translational Cancer Research</i> , 2021 , 10, 141-151	0.3	
90	A novel coating with universal adhesion and inflammation-responsive drug release functions to manipulate the osteoimmunomodulation of implants. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 5272-5283	7.3	2
89	The Dual Effects of Reactive Oxygen Species on the Mandibular Alveolar Bone Formation in SOD1 Knockout Mice: Promotion or Inhibition. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 8847140	6.7	2
88	hDPSC-laden GelMA microspheres fabricated using electrostatic microdroplet method for endodontic regeneration. <i>Materials Science and Engineering C</i> , 2021 , 121, 111850	8.3	9
87	Photothermal-Enhanced Fenton-like Catalytic Activity of Oxygen-Deficient Nanotitania for Efficient and Safe Tooth Whitening. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35315-35327	9.5	1
86	Diverse RNAs in adipose-derived extracellular vesicles and their therapeutic potential. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 26, 665-677	10.7	2
85	An Isolation System to Collect High Quality and Purity Extracellular Vesicles from Serum. <i>International Journal of Nanomedicine</i> , 2021 , 16, 6681-6692	7.3	0
84	Xenoextracellular matrix-rosiglitazone complex-mediated immune evasion promotes xenogenic bioengineered root regeneration by altering M1/M2 macrophage polarization. <i>Biomaterials</i> , 2021 , 276, 121066	15.6	2
83	Platelet lysate functionalized gelatin methacrylate microspheres for improving angiogenesis in endodontic regeneration. <i>Acta Biomaterialia</i> , 2021 , 136, 441-455	10.8	6
82	Stem Cell-based Dental Pulp Regeneration: Insights From Signaling Pathways. <i>Stem Cell Reviews and Reports</i> , 2021 , 17, 1251-1263	7.3	6
81	Exosome-like vesicles derived from Hertwig's epithelial root sheath cells promote the regeneration of dentin-pulp tissue. <i>Theranostics</i> , 2020 , 10, 5914-5931	12.1	16
80	Identification of Novel Adipokines through Proteomic Profiling of Small Extracellular Vesicles Derived from Adipose Tissue. <i>Journal of Proteome Research</i> , 2020 , 19, 3130-3142	5.6	11
79	Xenogeneic native decellularized matrix carrying PPAR α activator RSG regulating macrophage polarization to promote ligament-to-bone regeneration. <i>Materials Science and Engineering C</i> , 2020 , 116, 111224	8.3	12
78	Regeneration of pulpo-dentinal-like complex by a group of unique multipotent CD24a stem cells. <i>Science Advances</i> , 2020 , 6, eaay1514	14.3	22
77	Immortalized Hertwig's epithelial root sheath cell line works as model for epithelial-mesenchymal interaction during tooth root formation. <i>Journal of Cellular Physiology</i> , 2020 , 235, 2698-2709	7	5

76	Comparison of the Therapeutic Effect of Allogeneic and Xenogeneic Small Extracellular Vesicles in Soft Tissue Repair. <i>International Journal of Nanomedicine</i> , 2020 , 15, 6975-6991	7.3	8
75	Therapeutic potential of HERS spheroids in tooth regeneration. <i>Theranostics</i> , 2020 , 10, 7409-7421	12.1	5
74	Alginate/laponite hydrogel microspheres co-encapsulating dental pulp stem cells and VEGF for endodontic regeneration. <i>Acta Biomaterialia</i> , 2020 , 113, 305-316	10.8	34
73	Extracellular Vesicles Derived From Apoptotic Cells: An Essential Link Between Death and Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 573511	5.7	11
72	Small Extracellular Vesicles from Lipopolysaccharide-Preconditioned Dental Follicle Cells Promote Periodontal Regeneration in an Inflammatory Microenvironment. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5797-5810	5.5	11
71	Gestational diabetes mellitus affects odontoblastic differentiation of dental papilla cells via Toll-like receptor 4 signaling in offspring. <i>Journal of Cellular Physiology</i> , 2020 , 235, 3519-3528	7	3
70	Advances of tooth-derived stem cells in neural diseases treatments and nerve tissue regeneration. <i>Cell Proliferation</i> , 2019 , 52, e12572	7.9	18
69	Treated dentin matrix particles combined with dental follicle cell sheet stimulate periodontal regeneration. <i>Dental Materials</i> , 2019 , 35, 1238-1253	5.7	17
68	Effect of canonical NF- κ B signaling pathway on the differentiation of rat dental epithelial stem cells. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 139	8.3	4
67	Stem cells from human exfoliated deciduous teeth as an alternative cell source in bio-root regeneration. <i>Theranostics</i> , 2019 , 9, 2694-2711	12.1	30
66	Optimizing adipose tissue extract isolation with stirred suspension culture. <i>Connective Tissue Research</i> , 2019 , 60, 178-188	3.3	5
65	A wear-resistant TiO nanoceramic coating on titanium implants for visible-light photocatalytic removal of organic residues. <i>Acta Biomaterialia</i> , 2019 , 97, 597-607	10.8	12
64	Combined application of virtual surgery and 3D printing technology in postoperative reconstruction of head and neck cancers. <i>BMC Surgery</i> , 2019 , 19, 182	2.3	10
63	Hyperglycemia Induces Osteoclastogenesis and Bone Destruction Through the Activation of Ca/Calmodulin-Dependent Protein Kinase II. <i>Calcified Tissue International</i> , 2019 , 104, 390-401	3.9	7
62	Parathyroid hormone-related peptide (1-34) promotes tooth eruption and inhibits osteogenesis of dental follicle cells during tooth development. <i>Journal of Cellular Physiology</i> , 2019 , 234, 11900-11911	7	10
61	Development of immortalized Hertwig's epithelial root sheath cell lines for cementum and dentin regeneration. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 3	8.3	13
60	Increased Angiogenic and Adipogenic Differentiation Potentials in Adipose-Derived Stromal Cells from Thigh Subcutaneous Adipose Depots Compared with Cells from the Abdomen. <i>Aesthetic Surgery Journal</i> , 2019 , 39, NP140-NP149	2.4	4
59	Comparative proteomic analyses of human adipose extracellular matrices decellularized using alternative procedures. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2481-2493	5.4	25

58	Isolation of Murine Adipose-Derived Stromal/Stem Cells Using an Explant Culture Method. <i>Methods in Molecular Biology</i> , 2018 , 1773, 167-171	1.4	5
57	Recent developments and clinical potential on decellularized adipose tissue. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2563-2574	5.4	12
56	Comparative study on differentiation of cervical-loop cells and Hertwig's epithelial root sheath cells under the induction of dental follicle cells in rat. <i>Scientific Reports</i> , 2018 , 8, 6546	4.9	6
55	Wnt5a regulates the cell proliferation and adipogenesis via MAPK-independent pathway in early stage of obesity. <i>Cell Biology International</i> , 2018 , 42, 63-74	4.5	11
54	Physioxia: a more effective approach for culturing human adipose-derived stem cells for cell transplantation. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 148	8.3	14
53	Concentrated Growth Factor Enhanced Fat Graft Survival: A Comparative Study. <i>Dermatologic Surgery</i> , 2018 , 44, 976-984	1.7	24
52	Are Hertwig's epithelial root sheath cells necessary for periodontal formation by dental follicle cells?. <i>Archives of Oral Biology</i> , 2018 , 94, 1-9	2.8	11
51	Digital Diagnosis and Treatment Program for Maxillofacial Fractures: A Retrospective Analysis of 626 Cases. <i>Journal of Oral and Maxillofacial Surgery</i> , 2018 , 76, 1470-1478	1.8	3
50	GSK3 β regulates ameloblast differentiation via Wnt and TGF- β pathways. <i>Journal of Cellular Physiology</i> , 2018 , 233, 5322-5333	7	15
49	Application of computer-assisted surgery techniques in the management of zygomatic complex fractures. <i>Chinese Journal of Traumatology - English Edition</i> , 2018 , 21, 281-286	2.3	4
48	Xenogenic Bio-Root Prompts the Constructive Process Characterized by Macrophage Phenotype Polarization in Rodents and Nonhuman Primates. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601112	10.1	10
47	Potential of human dental stem cells in repairing the complete transection of rat spinal cord. <i>Journal of Neural Engineering</i> , 2017 , 14, 026005	5	43
46	Treated dentin matrix paste as a novel pulp capping agent for dentin regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3428-3436	4.4	19
45	Periodontal-Derived Mesenchymal Cell Sheets Promote Periodontal Regeneration in Inflammatory Microenvironment. <i>Tissue Engineering - Part A</i> , 2017 , 23, 585-596	3.9	24
44	miR-450a-5p within rat adipose tissue exosome-like vesicles promotes adipogenic differentiation by targeting WISP2. <i>Journal of Cell Science</i> , 2017 , 130, 1158-1168	5.3	49
43	Bone marrow mesenchymal stem cells combine with Treated dentin matrix to build biological root. <i>Scientific Reports</i> , 2017 , 7, 44635	4.9	7
42	Maternal diabetes modulates offspring cell proliferation and apoptosis during odontogenesis via the TLR4/NF- κ B signalling pathway. <i>Cell Proliferation</i> , 2017 , 50,	7.9	19
41	Cell-derived micro-environment helps dental pulp stem cells promote dental pulp regeneration. <i>Cell Proliferation</i> , 2017 , 50,	7.9	20

40	Schwann cells secrete extracellular vesicles to promote and maintain the proliferation and multipotency of hDPCs. <i>Cell Proliferation</i> , 2017 , 50,	7.9	13
39	Cells isolated from cryopreserved dental follicle display similar characteristics to cryopreserved dental follicle cells. <i>Cryobiology</i> , 2017 , 78, 47-55	2.7	6
38	tBHQ Suppresses Osteoclastic Resorption in Xenogeneic-Treated Dentin Matrix-Based Scaffolds. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700127	10.1	10
37	Metabolic reprogramming by HIF-1 activation enhances survivability of human adipose-derived stem cells in ischaemic microenvironments. <i>Cell Proliferation</i> , 2017 , 50,	7.9	27
36	Proteomics Applications in Dental Derived Stem Cells. <i>Journal of Cellular Physiology</i> , 2017 , 232, 1602-1610	4.0	9
35	Bcl11b regulates enamel matrix protein expression and dental epithelial cell differentiation during rat tooth development. <i>Molecular Medicine Reports</i> , 2017 , 15, 297-304	2.9	1
34	Increased survival of human free fat grafts with varying densities of human adipose-derived stem cells and platelet-rich plasma. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 209-219	4.4	28
33	Botulinum toxin A improves adipose tissue engraftment by promoting cell proliferation, adipogenesis and angiogenesis. <i>International Journal of Molecular Medicine</i> , 2017 , 40, 713-720	4.4	7
32	Periodontitis contributes to adipose tissue inflammation through the NF- κ B, JNK and ERK pathways to promote insulin resistance in a rat model. <i>Microbes and Infection</i> , 2016 , 18, 804-812	9.3	11
31	DNA Demethylation Rescues the Impaired Osteogenic Differentiation Ability of Human Periodontal Ligament Stem Cells in High Glucose. <i>Scientific Reports</i> , 2016 , 6, 27447	4.9	21
30	Disruption of kif3a results in defective osteoblastic differentiation in dental mesenchymal stem/precursor cells via the Wnt signaling pathway. <i>Molecular Medicine Reports</i> , 2016 , 14, 1891-900	2.9	12
29	Virtual facial reconstruction based on accurate registration and fusion of 3D facial and MSCT scans. <i>Journal of Orofacial Orthopedics</i> , 2016 , 77, 104-11	2.9	3
28	Cytoskeletal binding proteins distinguish cultured dental follicle cells and periodontal ligament cells. <i>Experimental Cell Research</i> , 2016 , 345, 6-16	4.2	11
27	Comparison of P75 NTR-positive and -negative mesenchymal stem cell odontogenic differentiation through epithelial-mesenchymal interaction. <i>Cell Proliferation</i> , 2016 , 49, 185-94	7.9	16
26	Prediabetes Enhances Periodontal Inflammation Consistent With Activation of Toll-Like Receptor-Mediated Nuclear Factor- κ B Pathway in Rats. <i>Journal of Periodontology</i> , 2016 , 87, e64-74	4.6	13
25	Physiological and pathological impact of exosomes of adipose tissue. <i>Cell Proliferation</i> , 2016 , 49, 3-13	7.9	65
24	Combination of aligned PLGA/Gelatin electrospun sheets, native dental pulp extracellular matrix and treated dentin matrix as substrates for tooth root regeneration. <i>Biomaterials</i> , 2015 , 52, 56-70	15.6	81
23	FGF8 signaling sustains progenitor status and multipotency of cranial neural crest-derived mesenchymal cells in vivo and in vitro. <i>Journal of Molecular Cell Biology</i> , 2015 , 7, 441-54	6.3	22

22	Comparison of human dental follicle cells and human periodontal ligament cells for dentin tissue regeneration. <i>Regenerative Medicine</i> , 2015 , 10, 461-79	2.5	19
21	CAD based design sensitivity analysis and shape optimization of scaffolds for bio-root regeneration in swine. <i>Biomaterials</i> , 2015 , 57, 59-72	15.6	30
20	Improved fat graft survival by different volume fractions of platelet-rich plasma and adipose-derived stem cells. <i>Aesthetic Surgery Journal</i> , 2015 , 35, 319-33	2.4	55
19	Comparison of the Odontogenic Differentiation Potential of Dental Follicle, Dental Papilla, and Cranial Neural Crest Cells. <i>Journal of Endodontics</i> , 2015 , 41, 1091-9	4.7	17
18	Tumorigenicity analysis of heterogeneous dental stem cells and its self-modification for chromosome instability. <i>Cell Cycle</i> , 2015 , 14, 3396-407	4.7	6
17	Inhibition of Ape1 Redox Activity Promotes Odonto/osteogenic Differentiation of Dental Papilla Cells. <i>Scientific Reports</i> , 2015 , 5, 17483	4.9	12
16	A therapeutic strategy for spinal cord defect: human dental follicle cells combined with aligned PCL/PLGA electrospun material. <i>BioMed Research International</i> , 2015 , 2015, 197183	3	26
15	MicroRNA-143 regulates adipogenesis by modulating the MAP2K5-ERK5 signaling. <i>Scientific Reports</i> , 2014 , 4, 3819	4.9	58
14	Cryopreserved dentin matrix as a scaffold material for dentin-pulp tissue regeneration. <i>Biomaterials</i> , 2014 , 35, 4929-39	15.6	46
13	Optimal design of an individual endoprosthesis for the reconstruction of extensive mandibular defects with finite element analysis. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014 , 42, 73-8	3.6	29
12	Finite element analysis of three zygomatic implant techniques for the severely atrophic edentulous maxilla. <i>Journal of Prosthetic Dentistry</i> , 2014 , 111, 203-15	4	15
11	A new surgical approach to treat medial or low condylar fractures: the minor parotid anterior approach. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2014 , 117, 283-8	2	23
10	Expression and roles of syndecan-4 in dental epithelial cell differentiation. <i>International Journal of Molecular Medicine</i> , 2014 , 34, 1301-8	4.4	6
9	The potential of dental stem cells differentiating into neurogenic cell lineage after cultivation in different modes in vitro. <i>Cellular Reprogramming</i> , 2014 , 16, 379-91	2.1	14
8	Ameloblastic carcinoma: An analysis of 12 cases with a review of the literature. <i>Oncology Letters</i> , 2014 , 8, 914-920	2.6	28
7	Secretory factors from rat adipose tissue explants promote adipogenesis and angiogenesis. <i>Artificial Organs</i> , 2014 , 38, E33-45	2.6	22
6	Hertwig's epithelial root sheath cells regulate osteogenic differentiation of dental follicle cells through the Wnt pathway. <i>Bone</i> , 2014 , 63, 158-65	4.7	26
5	The role of odontogenic genes and proteins in tooth epithelial cells and their niche cells during rat tooth root development. <i>Archives of Oral Biology</i> , 2013 , 58, 151-9	2.8	5

4	Comparison of odontogenic differentiation of human dental follicle cells and human dental papilla cells. <i>PLoS ONE</i> , 2013 , 8, e62332	3.7	52
3	Human treated dentin matrix as a natural scaffold for complete human dentin tissue regeneration. <i>Biomaterials</i> , 2011 , 32, 4525-38	15.6	123
2	Explant culture: an efficient method to isolate adipose-derived stromal cells for tissue engineering. <i>Artificial Organs</i> , 2011 , 35, 105-12	2.6	21
1	Metal artifact reduction for oral and maxillofacial computed tomography images by a generative adversarial network. <i>Applied Intelligence</i> , 1	4.9	0