

Weidong Tian

List of Publications by Year in descending order

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119
papers

3,161
citations

159585
30
h-index

233421
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123
all docs

123
docs citations

123
times ranked

3264
citing authors

#	ARTICLE	IF	CITATIONS
1	Human treated dentin matrix as a natural scaffold for complete human dentin tissue regeneration. <i>Biomaterials</i> , 2011, 32, 4525-4538.	11.4	187
2	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.	11.4	113
3	Physiological and pathological impact of exosomes of adipose tissue. <i>Cell Proliferation</i> , 2016, 49, 3-13.	5.3	96
4	Alginate/laponite hydrogel microspheres co-encapsulating dental pulp stem cells and VEGF for endodontic regeneration. <i>Acta Biomaterialia</i> , 2020, 113, 305-316.	8.3	93
5	Bone Marrow Mesenchymal Stem Cell-Derived Small Extracellular Vesicles Promote Periodontal Regeneration. <i>Tissue Engineering - Part A</i> , 2021, 27, 962-976.	3.1	85
6	MicroRNA-143 Regulates Adipogenesis by Modulating the MAP2K5-ERK5 Signaling. <i>Scientific Reports</i> , 2014, 4, 3819.	3.3	79
7	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.	2.0	78
8	Stem cells from human exfoliated deciduous teeth as an alternative cell source in bio-root regeneration. <i>Theranostics</i> , 2019, 9, 2694-2711.	10.0	73
9	Cryopreserved dentin matrix as a scaffold material for dentin-pulp tissue regeneration. <i>Biomaterials</i> , 2014, 35, 4929-4939.	11.4	66
10	Potential of human dental stem cells in repairing the complete transection of rat spinal cord. <i>Journal of Neural Engineering</i> , 2017, 14, 026005.	3.5	66
11	Improved Fat Graft Survival by Different Volume Fractions of Platelet-Rich Plasma and Adipose-Derived Stem Cells. <i>Aesthetic Surgery Journal</i> , 2015, 35, 319-333.	1.6	64
12	Comparison of Odontogenic Differentiation of Human Dental Follicle Cells and Human Dental Papilla Cells. <i>PLoS ONE</i> , 2013, 8, e62332.	2.5	62
13	Regeneration of pulpo-dentinal-like complex by a group of unique multipotent CD24a ⁺ stem cells. <i>Science Advances</i> , 2020, 6, eaay1514.	10.3	54
14	Extracellular Vesicles Derived From Apoptotic Cells: An Essential Link Between Death and Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 573511.	3.7	50
15	CAD based design sensitivity analysis and shape optimization of scaffolds for bio-root regeneration in swine. <i>Biomaterials</i> , 2015, 57, 59-72.	11.4	46
16	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.	10.0	45
17	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, 73-78.	1.7	41
18	Treated dentin matrix particles combined with dental follicle cell sheet stimulate periodontal regeneration. <i>Dental Materials</i> , 2019, 35, 1238-1253.	3.5	41

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19	Treated dentin matrix paste as a novel pulp capping agent for dentin regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3428-3436.	2.7	40
20	Advances of toothâ€derived stem cells in neural diseases treatments and nerve tissue regeneration. Cell Proliferation, 2019, 52, e12572.	5.3	39
21	Small Extracellular Vesicles from Lipopolysaccharide-Preconditioned Dental Follicle Cells Promote Periodontal Regeneration in an Inflammatory Microenvironment. ACS Biomaterials Science and Engineering, 2020, 6, 5797-5810.	5.2	39
22	Periodontal-Derived Mesenchymal Cell Sheets Promote Periodontal Regeneration in Inflammatory Microenvironment. Tissue Engineering - Part A, 2017, 23, 585-596.	3.1	38
23	Metabolic reprogramming by <scp>HIF</scp>â€1 activation enhances survivability of human adiposeâ€derived stem cells in ischaemic microenvironments. Cell Proliferation, 2017, 50, .	5.3	38
24	Increased survival of human free fat grafts with varying densities of human adipose-derived stem cells and platelet-rich plasma. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 209-219.	2.7	38
25	Ameloblastic carcinoma: An analysis of 12 cases with a review of the literature. Oncology Letters, 2014, 8, 914-920.	1.8	37
26	Cellâ€derived microâ€environment helps dental pulp stem cells promote dental pulp regeneration. Cell Proliferation, 2017, 50, .	5.3	37
27	Comparative proteomic analyses of human adipose extracellular matrices decellularized using alternative procedures. Journal of Biomedical Materials Research - Part A, 2018, 106, 2481-2493.	4.0	37
28	Hertwig's epithelial root sheath cells regulate osteogenic differentiation of dental follicle cells through the Wnt pathway. Bone, 2014, 63, 158-165.	2.9	35
29	Platelet lysate functionalized gelatin methacrylate microspheres for improving angiogenesis in endodontic regeneration. Acta Biomaterialia, 2021, 136, 441-455.	8.3	35
30	DNA Demethylation Rescues the Impaired Osteogenic Differentiation Ability of Human Periodontal Ligament Stem Cells in High Glucose. Scientific Reports, 2016, 6, 27447.	3.3	34
31	hDPSC-laden GelMA microspheres fabricated using electrostatic microdroplet method for endodontic regeneration. Materials Science and Engineering C, 2021, 121, 111850.	7.3	34
32	A Therapeutic Strategy for Spinal Cord Defect: Human Dental Follicle Cells Combined with Aligned PCL/PLGA Electrospun Material. BioMed Research International, 2015, 2015, 1-12.	1.9	33
33	Concentrated Growth Factor Enhanced Fat Graft Survival: A Comparative Study. Dermatologic Surgery, 2018, 44, 976-984.	0.8	33
34	Stem Cellâ€based Dental Pulp Regeneration: Insights From Signaling Pathways. Stem Cell Reviews and Reports, 2021, 17, 1251-1263.	3.8	33
35	A wear-resistant TiO2 nanoceramic coating on titanium implants for visible-light photocatalytic removal of organic residues. Acta Biomaterialia, 2019, 97, 597-607.	8.3	32
36	Explant Culture: An Efficient Method to Isolate Adiposeâ€Derived Stromal Cells for Tissue Engineering. Artificial Organs, 2011, 35, 105-112.	1.9	30

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37	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.	2.9	30
38	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, 283-288.	0.4	29
39	FGF8 signaling sustains progenitor status and multipotency of cranial neural crest-derived mesenchymal cells <i>in vivo</i> and <i>in vitro</i> . <i>Journal of Molecular Cell Biology</i> , 2015, 7, 441-454.	3.3	28
40	Comparison of human dental follicle cells and human periodontal ligament cells for dentin tissue regeneration. <i>Regenerative Medicine</i> , 2015, 10, 461-479.	1.7	27
41	Maternal diabetes modulates offspring cell proliferation and apoptosis during odontogenesis <i>via</i> the <i>TLR4/NF-κB</i> signalling pathway. <i>Cell Proliferation</i> , 2017, 50, .	5.3	26
42	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.	5.5	26
43	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, Volume 17, 799-819.	6.7	26
44	Schwann cell-derived EVs facilitate dental pulp regeneration through endogenous stem cell recruitment via SDF-1/CXCR4 axis. <i>Acta Biomaterialia</i> , 2022, 140, 610-624.	8.3	25
45	Secretory Factors From Rat Adipose Tissue Explants Promote Adipogenesis and Angiogenesis. <i>Artificial Organs</i> , 2014, 38, E33-45.	1.9	24
46	Finite element analysis of three zygomatic implant techniques for the severely atrophic edentulous maxilla. <i>Journal of Prosthetic Dentistry</i> , 2014, 111, 203-215.	2.8	24
47	Xenogeneic BioRoot Prompts the Constructive Process Characterized by Macrophage Phenotype Polarization in Rodents and Nonhuman Primates. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601112.	7.6	24
48	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.	3.0	24
49	Comparison of $P < 0.05$ <i>NTR</i> -positive and -negative etcomesenchymal stem cell odontogenic differentiation through epithelial-mesenchymal interaction. <i>Cell Proliferation</i> , 2016, 49, 185-194.	5.3	23
50	Comparison of the Odontogenic Differentiation Potential of Dental Follicle, Dental Papilla, and Cranial Neural Crest Cells. <i>Journal of Endodontics</i> , 2015, 41, 1091-1099.	3.1	22
51	Adipose Tissue-derived Microvascular Fragments as Vascularization Units for Dental Pulp Regeneration. <i>Journal of Endodontics</i> , 2021, 47, 1092-1100.	3.1	22
52	Gelatin methacryloyl-alginate core-shell microcapsules as efficient delivery platforms for prevascularized microtissues in endodontic regeneration. <i>Acta Biomaterialia</i> , 2022, 144, 242-257.	8.3	22
53	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.	5.5	21
54	Xenogeneic native decellularized matrix carrying PPAR γ activator RSG regulating macrophage polarization to promote ligament-to-bone regeneration. <i>Materials Science and Engineering C</i> , 2020, 116, 111224.	7.3	21

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55	Xenoextracellular matrix-rosiglitazone complex-mediated immune evasion promotes xenogenic bioengineered root regeneration by altering M1/M2 macrophage polarization. <i>Biomaterials</i> , 2021, 276, 121066.	11.4	21
56	BHQ Suppresses Osteoclastic Resorption in Xenogeneicâ€Treated Dentin Matrixâ€Based Scaffolds. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700127.	7.6	20
57	GSK3 β regulates ameloblast differentiation via Wnt and TGF β β^2 pathways. <i>Journal of Cellular Physiology</i> , 2018, 233, 5322-5333.	4.1	20
58	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.	3.7	20
59	Periodontitis contributes to adipose tissue inflammation through the NF- κ B, JNK and ERK pathways to promote insulin resistance in A β rat model. <i>Microbes and Infection</i> , 2016, 18, 804-812.	1.9	19
60	Schwann cells secrete extracellular vesicles to promote and maintain the proliferation and multipotency of hDPCs. <i>Cell Proliferation</i> , 2017, 50, .	5.3	19
61	Recent developments and clinical potential on decellularized adipose tissue. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2563-2574.	4.0	19
62	Comparison of the Therapeutic Effect of Allogeneic and Xenogeneic Small Extracellular Vesicles in Soft Tissue Repair. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6975-6991.	6.7	19
63	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.	1.8	18
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.	1.3	18
65	A 3D-printed biphasic calcium phosphate scaffold loaded with platelet lysate/gelatin methacrylate to promote vascularization. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3138-3151.	5.8	18
66	The Potential of Dental Stem Cells Differentiating into Neurogenic Cell Lineage after Cultivation in Different Modes In Vitro. <i>Cellular Reprogramming</i> , 2014, 16, 379-391.	0.9	17
67	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-e74.	3.4	17
68	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.	5.5	17
69	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.	4.1	16
70	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.	4.1	16
71	Inhibition of Ape1 Redox Activity Promotes Odonto/osteogenic Differentiation of Dental Papilla Cells. <i>Scientific Reports</i> , 2015, 5, 17483.	3.3	15
72	Hyperglycemia Induces Osteoclastogenesis and Bone Destruction Through the Activation of Ca $^{2+}$ /Calmodulin-Dependent Protein Kinase II. <i>Calcified Tissue International</i> , 2019, 104, 390-401.	3.1	15

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73	Reparative Dentin Formation by Dentin Matrix Proteins and Small Extracellular Vesicles. Journal of Endodontics, 2021, 47, 253-262.	3.1	15
74	Recruited CD68+CD206+ macrophages orchestrate graft immune tolerance to prompt xenogeneic-dentin matrix-based tooth root regeneration. Bioactive Materials, 2021, 6, 1051-1072.	15.6	15
75	Local Elimination of Senescent Cells Promotes Bone Defect Repair during Aging. ACS Applied Materials & Interfaces, 2022, 14, 3885-3899.	8.0	15
76	The Application of Pulp Tissue Derived-Exosomes in Pulp Regeneration: A Novel Cell-Homing Approach. International Journal of Nanomedicine, 2022, Volume 17, 465-476.	6.7	15
77	Bone marrow mesenchymal stem cells combine with Treated dentin matrix to build biological root. Scientific Reports, 2017, 7, 44635.	3.3	14
78	Botulinum toxin A improves adipose tissue engraftment by promoting cell proliferation, adipogenesis and angiogenesis. International Journal of Molecular Medicine, 2017, 40, 713-720.	4.0	14
79	Disruption of kif3a results in defective osteoblastic differentiation in dental mesenchymal stem/precursor cells via the Wnt signaling pathway. Molecular Medicine Reports, 2016, 14, 1891-1900.	2.4	13
80	Cytoskeletal binding proteins distinguish cultured dental follicle cells and periodontal ligament cells. Experimental Cell Research, 2016, 345, 6-16.	2.6	13
81	Photothermal-Enhanced Fenton-like Catalytic Activity of Oxygen-Deficient Nanotitania for Efficient and Safe Tooth Whitening. ACS Applied Materials & Interfaces, 2021, 13, 35315-35327.	8.0	13
82	Improvement of ECM-based bioroot regeneration via N-acetylcysteine-induced antioxidative effects. Stem Cell Research and Therapy, 2021, 12, 202.	5.5	12
83	Preservation of Small Extracellular Vesicle in Gelatin Methacryloyl Hydrogel Through Reduced Particles Aggregation for Therapeutic Applications. International Journal of Nanomedicine, 2021, Volume 16, 7831-7846.	6.7	12
84	Preparation of BMP-2/PDA-BCP Bioceramic Scaffold by DLP 3D Printing and its Ability for Inducing Continuous Bone Formation. Frontiers in Bioengineering and Biotechnology, 2022, 10, 854693.	4.1	12
85	Application of computer-assisted surgery techniques in the management of zygomatic complex fractures. Chinese Journal of Traumatology - English Edition, 2018, 21, 281-286.	1.4	11
86	Therapeutic potential of HERS spheroids in tooth regeneration. Theranostics, 2020, 10, 7409-7421.	10.0	11
87	Xenogeneic dentin matrix as a scaffold for biomineralization and induced odontogenesis. Biomedical Materials (Bristol), 2021, 16, 045020.	3.3	11
88	Efficacy of a 1% malic acid spray for xerostomia treatment: A systematic review and meta-analysis. Oral Diseases, 2023, 29, 862-872.	3.0	10
89	Comparison of two cell-free therapeutics derived from adipose tissue: small extracellular vesicles versus conditioned medium. Stem Cell Research and Therapy, 2022, 13, 86.	5.5	10
90	Cells isolated from cryopreserved dental follicle display similar characteristics to cryopreserved dental follicle cells. Cryobiology, 2017, 78, 47-55.	0.7	9

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91	Proteomics Applications in Dental Derived Stem Cells. Journal of Cellular Physiology, 2017, 232, 1602-1610.	4.1	9
92	Digital Diagnosis and Treatment Program for Maxillofacial Fractures: A Retrospective Analysis of 626 Cases. Journal of Oral and Maxillofacial Surgery, 2018, 76, 1470-1478.	1.2	9
93	Optimizing adipose tissue extract isolation with stirred suspension culture. Connective Tissue Research, 2019, 60, 178-188.	2.3	9
94	Immortalized Hertwig's epithelial root sheath cell line works as model for epithelial-mesenchymal interaction during tooth root formation. Journal of Cellular Physiology, 2020, 235, 2698-2709.	4.1	9
95	Small Extracellular Vesicles Derived from Adipose Tissue Prevent Bisphosphonate-Related Osteonecrosis of the Jaw by Promoting Angiogenesis. International Journal of Nanomedicine, 2021, Volume 16, 3161-3172.	6.7	9
96	Strategies of Prevascularization in Tissue Engineering and Regeneration of Craniofacial Tissues. Tissue Engineering - Part B: Reviews, 2022, 28, 464-475.	4.8	9
97	Spatiotemporal Management of the Osteoimmunomodulation of Fibrous Scaffolds by Loading a Novel Amphiphilic Nanomedicine. ACS Applied Materials & Interfaces, 2022, 14, 13991-14003.	8.0	9
98	Expression and roles of syndecan-4 in dental epithelial cell differentiation. International Journal of Molecular Medicine, 2014, 34, 1301-1308.	4.0	8
99	Tumorigenicity analysis of heterogeneous dental stem cells and its self-modification for chromosome instability. Cell Cycle, 2015, 14, 3396-3407.	2.6	8
100	Comparative study on differentiation of cervical-loop cells and Hertwig's epithelial root sheath cells under the induction of dental follicle cells in rat. Scientific Reports, 2018, 8, 6546.	3.3	8
101	Effect of canonical NF- κ B signaling pathway on the differentiation of rat dental epithelial stem cells. Stem Cell Research and Therapy, 2019, 10, 139.	5.5	8
102	A Review of the Functions of Matrix Vesicles in Periodontal Tissues. Stem Cells and Development, 2021, 30, 165-176.	2.1	8
103	Increased Angiogenic and Adipogenic Differentiation Potentials in Adipose-Derived Stromal Cells from Thigh Subcutaneous Adipose Depots Compared with Cells from the Abdomen. Aesthetic Surgery Journal, 2019, 39, NP140-NP149.	1.6	7
104	A novel coating with universal adhesion and inflammation-responsive drug release functions to manipulate the osteoimmunomodulation of implants. Journal of Materials Chemistry B, 2021, 9, 5272-5283.	5.8	7
105	Diverse RNAs in adipose-derived extracellular vesicles and their therapeutic potential. Molecular Therapy - Nucleic Acids, 2021, 26, 665-677.	5.1	7
106	An Isolation System to Collect High Quality and Purity Extracellular Vesicles from Serum. International Journal of Nanomedicine, 2021, Volume 16, 6681-6692.	6.7	7
107	Nucleophosmin3 carried by small extracellular vesicles contribute to white adipose tissue browning. Journal of Nanobiotechnology, 2022, 20, 165.	9.1	7
108	Isolation of Murine Adipose-Derived Stromal/Stem Cells Using an Explant Culture Method. Methods in Molecular Biology, 2018, 1773, 167-171.	0.9	6

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109	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, 1-15.	4.0	6
110	Inhibition of TRPA1 Ameliorates Periodontitis by Reducing Periodontal Ligament Cell Oxidative Stress and Apoptosis via PERK/eIF2 α /ATF-4/CHOP Signal Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-16.	4.0	6
111	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, 151-159.	1.8	5
112	Discovery and functional assessment of a novel adipocyte population driven by intracellular Wnt/ β -catenin signaling in mammals. <i>ELife</i> , 2022, 11, .	6.0	5
113	Dental follicle cells-derived small extracellular vesicles inhibit pathogenicity of <i>Porphyrromonas gingivalis</i> . <i>Oral Diseases</i> , 2023, 29, 2297-2309.	3.0	5
114	Virtual facial reconstruction based on accurate registration and fusion of 3D facial and MSCT scans. <i>Journal of Orofacial Orthopedics</i> , 2016, 77, 104-111.	1.3	4
115	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.	4.1	4
116	Metal artifact reduction for oral and maxillofacial computed tomography images by a generative adversarial network. <i>Applied Intelligence</i> , 2022, 52, 13184-13194.	5.3	4
117	Bcl11b regulates enamel matrix protein expression and dental epithelial cell differentiation during rat tooth development. <i>Molecular Medicine Reports</i> , 2017, 15, 297-304.	2.4	1
118	Application of cryopreservation to tooth germ transplantation for root development and tooth eruption. <i>Scientific Reports</i> , 2021, 11, 9522.	3.3	1
119	Identification of potential biomarkers and available drugs for oral squamous cell carcinoma. <i>Translational Cancer Research</i> , 2021, 10, 141-151.	1.0	0