

# Weihua Guo

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,235  
citations

257450

24  
h-index

243625

44  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2091  
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	Tooth root regeneration using dental follicle cell sheets in combination with a dentin matrix - based scaffold. <i>Biomaterials</i> , 2012, 33, 2449-2461.	11.4	148
3	The use of dentin matrix scaffold and dental follicle cells for dentin regeneration. <i>Biomaterials</i> , 2009, 30, 6708-6723.	11.4	140
4	Dental follicle cells and treated dentin matrix scaffold for tissue engineering the tooth root. <i>Biomaterials</i> , 2012, 33, 1291-1302.	11.4	116
5	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
6	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
7	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
8	Cryopreserved dentin matrix as a scaffold material for dentin-pulp tissue regeneration. <i>Biomaterials</i> , 2014, 35, 4929-4939.	11.4	66
9	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
10	Heterogeneous Dental Follicle Cells and the Regeneration of Complex Periodontal Tissues. <i>Tissue Engineering - Part A</i> , 2012, 18, 459-470.	3.1	63
11	TGF- $\beta$ 1 and FGF2 Stimulate the Epithelial-Mesenchymal Transition of HERS Cells Through a MEK-Dependent Mechanism. <i>Journal of Cellular Physiology</i> , 2014, 229, 1647-1659.	4.1	63
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	The Combination Use of Platelet-Rich Fibrin and Treated Dentin Matrix for Tooth Root Regeneration by Cell Homing. <i>Tissue Engineering - Part A</i> , 2015, 21, 26-34.	3.1	56
14	Comparative Study of Human Dental Follicle Cell Sheets and Periodontal Ligament Cell Sheets for Periodontal Tissue Regeneration. <i>Cell Transplantation</i> , 2013, 22, 1061-1073.	2.5	55
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	Treated dentin matrix particles combined with dental follicle cell sheet stimulate periodontal regeneration. <i>Dental Materials</i> , 2019, 35, 1238-1253.	3.5	41
17	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.	2.7	40
18	Periodontal-Derived Mesenchymal Cell Sheets Promote Periodontal Regeneration in Inflammatory Microenvironment. <i>Tissue Engineering - Part A</i> , 2017, 23, 585-596.	3.1	38

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19	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.	2.7	38
20	Cell-derived microenvironment helps dental pulp stem cells promote dental pulp regeneration. <i>Cell Proliferation</i> , 2017, 50, .	5.3	37
21	Hertwig's epithelial root sheath cells regulate osteogenic differentiation of dental follicle cells through the Wnt pathway. <i>Bone</i> , 2014, 63, 158-165.	2.9	35
22	DNA Demethylation Rescues the Impaired Osteogenic Differentiation Ability of Human Periodontal Ligament Stem Cells in High Glucose. <i>Scientific Reports</i> , 2016, 6, 27447.	3.3	34
23	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, 1-12.	1.9	33
24	Regulation of proliferation and cell cycle by protein regulator of cytokinesis 1 in oral squamous cell carcinoma. <i>Cell Death and Disease</i> , 2018, 9, 564.	6.3	32
25	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
26	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
27	Secretory Factors From Rat Adipose Tissue Explants Promote Adipogenesis and Angiogenesis. <i>Artificial Organs</i> , 2014, 38, E33-45.	1.9	24
28	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
29	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.	7.6	24
30	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
31	Xenogenic native decellularized matrix carrying PPAR $\beta$ activator RSG regulating macrophage polarization to promote ligament-to-bone regeneration. <i>Materials Science and Engineering C</i> , 2020, 116, 111224.	7.3	21
32	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
33	BHQ Suppresses Osteoclastic Resorption in Xenogenic-Treated Dentin Matrix-Based Scaffolds. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700127.	7.6	20
34	GSK3 $\beta$ regulates ameloblast differentiation via Wnt and TGF $\beta$ pathways. <i>Journal of Cellular Physiology</i> , 2018, 233, 5322-5333.	4.1	20
35	Periodontitis contributes to adipose tissue inflammation through the NF- $\kappa$ B, JNK and ERK pathways to promote insulin resistance in a rat model. <i>Microbes and Infection</i> , 2016, 18, 804-812.	1.9	19
36	Schwann cells secrete extracellular vesicles to promote and maintain the proliferation and multipotency of hDPCs. <i>Cell Proliferation</i> , 2017, 50, .	5.3	19

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37	Biomechanical analysis and comparison of 12 dental implant systems using 3D finite element study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1340-1348.	1.6	18
38	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
39	Prediabetes Enhances Periodontal Inflammation Consistent With Activation of Toll-Like Receptor-Mediated Nuclear Factor- $\kappa$ B Pathway in Rats. <i>Journal of Periodontology</i> , 2016, 87, e64-e74.	3.4	17
40	Treated dentin matrix-based scaffolds carrying TGF- $\beta$ 1/BMP4 for functional bio-root regeneration. <i>Applied Materials Today</i> , 2020, 20, 100742.	4.3	17
41	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
42	Reparative Dentin Formation by Dentin Matrix Proteins and Small Extracellular Vesicles. <i>Journal of Endodontics</i> , 2021, 47, 253-262.	3.1	15
43	Recruited CD68+CD206+ macrophages orchestrate graft immune tolerance to prompt xenogeneic-dentin matrix-based tooth root regeneration. <i>Bioactive Materials</i> , 2021, 6, 1051-1072.	15.6	15
44	Expression of Nfic during root formation in first mandibular molar of rat. <i>Journal of Molecular Histology</i> , 2014, 45, 619-626.	2.2	14
45	Bone marrow mesenchymal stem cells combine with Treated dentin matrix to build biological root. <i>Scientific Reports</i> , 2017, 7, 44635.	3.3	14
46	Development of genomic simple sequence repeat markers and genetic diversity analysis of <i>Gracilariopsis lemaneiformis</i> (Rhodophyta). <i>Journal of Applied Phycology</i> , 2018, 30, 707-716.	2.8	14
47	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.	4.0	14
48	Cytoskeletal binding proteins distinguish cultured dental follicle cells and periodontal ligament cells. <i>Experimental Cell Research</i> , 2016, 345, 6-16.	2.6	13
49	Improvement of ECM-based bioroot regeneration via N-acetylcysteine-induced antioxidative effects. <i>Stem Cell Research and Therapy</i> , 2021, 12, 202.	5.5	12
50	Scaffold-Free Cell Pellet Transplantations can be Applied to Periodontal Regeneration. <i>Cell Transplantation</i> , 2014, 23, 181-194.	2.5	11
51	Cells isolated from cryopreserved dental follicle display similar characteristics to cryopreserved dental follicle cells. <i>Cryobiology</i> , 2017, 78, 47-55.	0.7	9
52	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.	4.1	9
53	IL-1 $\beta$ Regulates Osteogenesis and Osteoclastic Activity of Dental Follicle Cells Through JNK and p38 MAPK Pathways. <i>Stem Cells and Development</i> , 2020, 29, 1552-1566.	2.1	9
54	Expression and roles of syndecan-4 in dental epithelial cell differentiation. <i>International Journal of Molecular Medicine</i> , 2014, 34, 1301-1308.	4.0	8

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55	Tumorigenicity analysis of heterogeneous dental stem cells and its self-modification for chromosome instability. <i>Cell Cycle</i> , 2015, 14, 3396-3407.	2.6	8
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.	3.3	8
57	Effect of canonical NF- $\kappa$ B signaling pathway on the differentiation of rat dental epithelial stem cells. <i>Stem Cell Research and Therapy</i> , 2019, 10, 139.	5.5	8
58	Isaacs syndrome associated with GABA <sub>B</sub> and AChR antibodies in sarcomatoid carcinoma. <i>Neurology</i> , 2018, 91, 663-665.	1.1	6
59	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
60	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
61	The application of a new clear removable appliance with an occlusal splint in early anterior crossbite. <i>BMC Oral Health</i> , 2021, 21, 36.	2.3	5
62	In situ generation of nano TiO <sub>2</sub> on activated carbon fiber with enhanced photocatalytic degradation performance. <i>Research on Chemical Intermediates</i> , 2021, 47, 3769-3784.	2.7	5
63	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
64	Identification of potential biomarkers and available drugs for oral squamous cell carcinoma. <i>Translational Cancer Research</i> , 2021, 10, 141-151.	1.0	0