

# Zhihe Zhao

## 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.

95  
papers

1,723  
citations

18  
h-index

39  
g-index

107  
ext. papers

2,448  
ext. citations

5.7  
avg, IF

4.81  
L-index

#	Paper	IF	Citations
95	Mesenchymal Stem/Stromal Cell Senescence: Hallmarks, Mechanisms, and Combating Strategies.. <i>Stem Cells Translational Medicine</i> , <b>2022</b> , 11, 356-371	6.9	3
94	Parathyroid hormone promotes maxillary expansion and reduces relapse in the repeated activation maxillary expansion rat model by regulating Wnt/ $\beta$ -catenin pathway.. <i>Progress in Orthodontics</i> , <b>2022</b> , 23, 1	3.4	
93	Ablation of transient receptor potential vanilloid subtype 1-expressing neurons in rat trigeminal ganglia aggravated bone resorption in periodontitis with diabetes. <i>Archives of Oral Biology</i> , <b>2022</b> , 133, 105293	2.8	0
92	Letter to the Editor.. <i>Angle Orthodontist</i> , <b>2022</b> , 92, 299	2.6	
91	Artificial intelligence for caries and periapical periodontitis detection.. <i>Journal of Dentistry</i> , <b>2022</b> , 1041074.8	4.8	3
90	A Quartet Network Analysis Identifying Mechanically Responsive Long Noncoding RNAs in Bone Remodeling.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2022</b> , 10, 780211	5.8	0
89	Polydopamine-mediated graphene oxide and nanohydroxyapatite-incorporated conductive scaffold with an immunomodulatory ability accelerates periodontal bone regeneration in diabetes.. <i>Bioactive Materials</i> , <b>2022</b> , 18, 213-227	16.7	8
88	Inflammation-targeted cannabidiol-loaded nanomicelles for enhanced oral mucositis treatment.. <i>Drug Delivery</i> , <b>2022</b> , 29, 1272-1281	7	2
87	SM22 $\beta$ lineage niche cells regulate intramembranous bone regeneration via PDGFR $\beta$ -triggered hydrogen sulfide production.. <i>Cell Reports</i> , <b>2022</b> , 39, 110750	10.6	0
86	Regulatory mechanism of miR-20a-5p expression in Cancer.. <i>Cell Death Discovery</i> , <b>2022</b> , 8, 262	6.9	2
85	PPAR $\gamma$ accelerates bone regeneration in diabetic mellitus by enhancing AMPK/mTOR pathway-mediated autophagy. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 566	8.3	2
84	Product inhibition kinetics determinations - Substrate interaction affinity and enzymatic kinetics using one quantitative FRET assay. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 193, 1481-1481	7.9	1
83	CircRNA-miRNA networks in regulating bone disease. <i>Journal of Cellular Physiology</i> , <b>2021</b> ,	7	1
82	PPAR $\gamma$ Agonist Alleviates Diabetic Osteoporosis Regulating M1/M2 Macrophage Polarization.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 753194	5.7	0
81	Accuracy of 3-dimensional stereophotogrammetry: Comparison of the 3dMD and Bellus3D facial scanning systems with one another and with direct anthropometry. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2021</b> , 160, 862-871	2.1	3
80	CircRFWD2 Promotes Osteogenic Differentiation of human Dental Pulp Stem Cells by Targeting miR-6817-5p Through BMP-Smad and p38 MAPK Pathway. <i>Cell Transplantation</i> , <b>2021</b> , 30, 9636897211052959	4.1	0
79	Mechanosensitive Non-Coding RNAs in Osteogenesis of Mesenchymal Stem Cells. <i>Cell Transplantation</i> , <b>2021</b> , 30, 9636897211051382	4	0

78	Parathyroid Hormone 1 Receptor Signaling in Dental Mesenchymal Stem Cells: Basic and Clinical Implications. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 654715	5.7	3
77	Machine learning in orthodontics: Challenges and perspectives. <i>Advances in Clinical and Experimental Medicine</i> , <b>2021</b> , 30, 1065-1074	1.8	2
76	Exploring the oncostatin M (OSM) feed-forward signaling of glioblastoma via STAT3 in pan-cancer analysis. <i>Cancer Cell International</i> , <b>2021</b> , 21, 565	6.4	2
75	Exploring the Epigenetic Regulatory Role of m6A-Associated SNPs in Type 2 Diabetes Pathogenesis. <i>Pharmacogenomics and Personalized Medicine</i> , <b>2021</b> , 14, 1369-1378	2.1	0
74	Hyaluronan injection versus oral glucosamine and diclofenac in the treatment of temporomandibular joint osteoarthritis. <i>Clinical Oral Investigations</i> , <b>2021</b> , 26, 2703	4.2	1
73	Effect of photobiomodulation therapy on mini-implant stability: a systematic review and meta-analysis. <i>Lasers in Medical Science</i> , <b>2021</b> , 36, 1557-1566	3.1	2
72	Dentofacial characteristics and age in association with incisor bony support in adult female patients with bimaxillary dentoalveolar protrusion. <i>Orthodontics and Craniofacial Research</i> , <b>2021</b> , 24, 585-592	3	1
71	PTH/PTHrP in controlled release hydrogel enhances orthodontic tooth movement by regulating periodontal bone remodeling. <i>Journal of Periodontal Research</i> , <b>2021</b> , 56, 885-896	4.3	3
70	Hyperglycemia modulates M1/M2 macrophage polarization via reactive oxygen species overproduction in ligature-induced periodontitis. <i>Journal of Periodontal Research</i> , <b>2021</b> , 56, 991-1005	4.3	9
69	Extracellular Vesicles in Liquid Biopsies: Potential for Disease Diagnosis. <i>BioMed Research International</i> , <b>2021</b> , 2021, 6611244	3	6
68	The effect of N-acetylcysteine on the antibacterial capability and biocompatibility of nano silver-containing orthodontic cement. <i>Angle Orthodontist</i> , <b>2021</b> , 91, 515-521	2.6	2
67	The vital role of Gli1 mesenchymal stem cells in tissue development and homeostasis. <i>Journal of Cellular Physiology</i> , <b>2021</b> , 236, 6077-6089	7	3
66	Non-Coding RNAs Steering the Senescence-Related Progress, Properties, and Application of Mesenchymal Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 650431	5.7	3
65	miR-20a-5p contributes to osteogenic differentiation of human dental pulp stem cells by regulating BAMBI and activating the phosphorylation of Smad5 and p38. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 421	8.3	2
64	Cranial Suture Mesenchymal Stem Cells: Insights and Advances. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	3
63	Biocompatible orthodontic cement with antibacterial capability and protein repellency. <i>BMC Oral Health</i> , <b>2021</b> , 21, 412	3.7	0
62	Transcriptome-wide mA methylome during osteogenic differentiation of human adipose-derived stem cells. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 489	8.3	0
61	METTL3-Mediated lncRNA mA Modification in the Osteogenic Differentiation of Human Adipose-Derived Stem Cells Induced by NEL-Like 1 Protein. <i>Stem Cell Reviews and Reports</i> , <b>2021</b> , 17, 2276-2290 <sup>3</sup>	7.3	3

60	Osteoinductive and antimicrobial mechanisms of graphene-based materials for enhancing bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2021</b> , 15, 915-935	4.4	5
59	Bone physiological microenvironment and healing mechanism: Basis for future bone-tissue engineering scaffolds. <i>Bioactive Materials</i> , <b>2021</b> , 6, 4110-4140	16.7	48
58	Runx1/miR-26a/Jagged1 signaling axis controls osteoclastogenesis and alleviates orthodontically induced inflammatory root resorption. <i>International Immunopharmacology</i> , <b>2021</b> , 100, 107991	5.8	3
57	Circular RNAs as potential regulators in bone remodeling: a narrative review. <i>Annals of Translational Medicine</i> , <b>2021</b> , 9, 1505	3.2	0
56	circAKT3 positively regulates osteogenic differentiation of human dental pulp stromal cells via miR-206/CX43 axis. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 531	8.3	9
55	MicroRNAs-containing extracellular vesicles in bone remodeling: An emerging frontier. <i>Life Sciences</i> , <b>2020</b> , 254, 117809	6.8	7
54	DNA methylation of noncoding RNAs: new insights into osteogenesis and common bone diseases. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 109	8.3	11
53	microRNA expression profiles and the potential competing endogenous RNA networks in NELL-1-induced human adipose-derived stem cell osteogenic differentiation. <i>Journal of Cellular Biochemistry</i> , <b>2020</b> , 121, 4623-4641	4.7	2
52	Long noncoding RNA expression profiles during the NEL-like 1 protein-induced osteogenic differentiation. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 6010-6022	7	8
51	Mechanotransduction pathways in the regulation of cartilage chondrocyte homeostasis. <i>Journal of Cellular and Molecular Medicine</i> , <b>2020</b> , 24, 5408-5419	5.6	42
50	Photopolymerizable Hydrogel-Encapsulated Fibromodulin-Reprogrammed Cells for Muscle Regeneration. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 1112-1122	3.9	4
49	Effect of clear aligners on oral health-related quality of life: A systematic review. <i>Orthodontics and Craniofacial Research</i> , <b>2020</b> , 23, 363-370	3	10
48	Mitochondrial DNA haplogroups participate in osteoarthritis: current evidence based on a meta-analysis. <i>Clinical Rheumatology</i> , <b>2020</b> , 39, 1027-1037	3.9	7
47	Risk of Bias and Its Impact on Intervention Effect Estimates of Randomized Controlled Trials in Endodontics. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 12-18	4.7	5
46	Treatment of the mandibular shift in an adult woman and the diagnostic value of joint space index: a case report. <i>European Journal of Medical Research</i> , <b>2020</b> , 25, 50	4.8	1
45	Orthodontic incisor retraction caused changes in the soft tissue chin area: a retrospective study. <i>BMC Oral Health</i> , <b>2020</b> , 20, 108	3.7	2
44	Proteomic analysis of human periodontal ligament cells under hypoxia. <i>Proteome Science</i> , <b>2019</b> , 17, 3	2.6	10
43	The role of lamin A/C in mesenchymal stem cell differentiation. <i>Journal of Physiology and Biochemistry</i> , <b>2019</b> , 75, 11-18	5	13

42	Effects of continuous and intermittent parathyroid hormone administration on midpalatal suture expansion in rats. <i>Archives of Oral Biology</i> , <b>2019</b> , 99, 161-168	2.8	7
41	Prospect of circular RNA in osteogenesis: A novel orchestrator of signaling pathways. <i>Journal of Cellular Physiology</i> , <b>2019</b> , 234, 21450-21459	7	22
40	Knockdown of DANCR reduces osteoclastogenesis and root resorption induced by compression force via Jagged1. <i>Cell Cycle</i> , <b>2019</b> , 18, 1759-1769	4.7	11
39	Effect of conventional combined orthodontic-surgical treatment on oral health-related quality of life: A systematic review and meta-analysis. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2019</b> , 156, 29-43.e5	2.1	11
38	MicroRNA-1225 activates Keap1-Nrf2-HO-1 signalling to inhibit TNF $\alpha$ -induced osteoclastogenesis by mediating ROS generation. <i>Cell Biochemistry and Function</i> , <b>2019</b> , 37, 256-265	4.2	16
37	Effect of fixed orthodontic treatment on oral microbiota and salivary proteins. <i>Experimental and Therapeutic Medicine</i> , <b>2019</b> , 17, 4237-4243	2.1	8
36	Adipose-derived exosomes: A novel adipokine in obesity-associated diabetes. <i>Journal of Cellular Physiology</i> , <b>2019</b> , 234, 16692-16702	7	21
35	Orthodontic Treatment Planning based on Artificial Neural Networks. <i>Scientific Reports</i> , <b>2019</b> , 9, 2037	4.9	22
34	The impact of surgery-first approach on the oral health-related quality of life: a systematic review and meta-analysis. <i>BMC Oral Health</i> , <b>2019</b> , 19, 136	3.7	6
33	A nano-CaF-containing orthodontic cement with antibacterial and remineralization capabilities to combat enamel white spot lesions. <i>Journal of Dentistry</i> , <b>2019</b> , 89, 103172	4.8	14
32	Novel rechargeable nano-CaF orthodontic cement with high levels of long-term fluoride release. <i>Journal of Dentistry</i> , <b>2019</b> , 90, 103214	4.8	4
31	The roles of circRFWD2 and circINO80 during NELL-1-induced osteogenesis. <i>Journal of Cellular and Molecular Medicine</i> , <b>2019</b> , 23, 8432-8441	5.6	18
30	Accelerated construction of an model of human periodontal ligament tissue: vacuum plasma combined with fibronectin coating and a polydimethylsiloxane matrix. <i>PeerJ</i> , <b>2019</b> , 7, e7036	3.1	1
29	Fibromodulin reduces scar size and increases scar tensile strength in normal and excessive-mechanical-loading porcine cutaneous wounds. <i>Journal of Cellular and Molecular Medicine</i> , <b>2018</b> , 22, 2510-2513	5.6	9
28	External apical root resorption in non-extraction cases after clear aligner therapy or fixed orthodontic treatment. <i>Journal of Dental Sciences</i> , <b>2018</b> , 13, 48-53	2.5	13
27	Use of autonomous maximal smile to evaluate dental and gingival exposure. <i>Korean Journal of Orthodontics</i> , <b>2018</b> , 48, 182-188	1.4	
26	The Effect of $\beta$ -Aminopropionitrile on Skeletal Micromorphology and Osteogenesis. <i>Calcified Tissue International</i> , <b>2018</b> , 103, 411-421	3.9	3
25	Protective effects of the pericellular matrix of chondrocyte on articular cartilage against the development of osteoarthritis. <i>Histology and Histopathology</i> , <b>2018</b> , 33, 757-764	1.4	10

24	Tissue clearing of both hard and soft tissue organs with the PEGASOS method. <i>Cell Research</i> , <b>2018</b> , 28, 803-818	24.7	153
23	The Triple Functions of D2 Silencing in Treatment of Periapical Disease. <i>Journal of Endodontics</i> , <b>2017</b> , 43, 272-278	4.7	5
22	Carbon Nanotube Reinforced Collagen/Hydroxyapatite Scaffolds Improve Bone Tissue Formation In Vitro and In Vivo. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 2075-2087	4.7	42
21	The effectiveness of vibrational stimulus to accelerate orthodontic tooth movement: a systematic review. <i>BMC Oral Health</i> , <b>2017</b> , 17, 143	3.7	19
20	MicroRNA control of tooth formation and eruption. <i>Archives of Oral Biology</i> , <b>2017</b> , 73, 302-310	2.8	8
19	The Role of Semaphorin 3A in Bone Remodeling. <i>Frontiers in Cellular Neuroscience</i> , <b>2017</b> , 11, 40	6.1	31
18	Conditional removal of the canonical TGF- $\beta$ signaling delays condylar cartilage degeneration induced by a partial discectomy in mice. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177826	3.7	10
17	Root resorption during orthodontic treatment with self-ligating or conventional brackets: a systematic review and meta-analysis. <i>BMC Oral Health</i> , <b>2016</b> , 16, 125	3.7	15
16	The Potential Application of Pulsed Ultrasound on Bone Defect Repair via Developmental Engineering: An In Vitro Study. <i>Artificial Organs</i> , <b>2016</b> , 40, 505-13	2.6	6
15	Fibromodulin reprogrammed cells: A novel cell source for bone regeneration. <i>Biomaterials</i> , <b>2016</b> , 83, 194-206	15.6	21
14	Caffeine may enhance orthodontic tooth movement through increasing osteoclastogenesis induced by periodontal ligament cells under compression. <i>Archives of Oral Biology</i> , <b>2016</b> , 64, 51-60	2.8	25
13	Compression and hypoxia play independent roles while having combinative effects in the osteoclastogenesis induced by periodontal ligament cells. <i>Angle Orthodontist</i> , <b>2016</b> , 86, 66-73	2.6	14
12	Roles of TGF-beta 1 signaling in the development of osteoarthritis. <i>Histology and Histopathology</i> , <b>2016</b> , 31, 1161-7	1.4	25
11	Comparison of bacterial adhesion to dental materials of polyethylene terephthalate (PET) and polymethyl methacrylate (PMMA) using atomic force microscopy and scanning electron microscopy. <i>Scanning</i> , <b>2016</b> , 38, 665-670	1.6	12
10	Mechanobiology of mesenchymal stem cells: Perspective into mechanical induction of MSC fate. <i>Acta Biomaterialia</i> , <b>2015</b> , 20, 1-9	10.8	123
9	In vitro mechanical loading models for periodontal ligament cells: from two-dimensional to three-dimensional models. <i>Archives of Oral Biology</i> , <b>2015</b> , 60, 416-24	2.8	24
8	Nociceptin/orphanin FQ up-regulates P2X $\beta$ receptors in primary cultures of neonatal rat trigeminal ganglion neurons. <i>European Journal of Oral Sciences</i> , <b>2015</b> , 123, 409-15	2.3	7
7	Static compression regulates OPG expression in periodontal ligament cells via the CAMK II pathway. <i>Journal of Applied Oral Science</i> , <b>2015</b> , 23, 549-54	3.3	2

6	Microenvironment is involved in cellular response to hydrostatic pressures during chondrogenesis of mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , <b>2014</b> , 115, 1089-96	4.7	13
5	Effect of NELL1 gene overexpression in iPSC-MSCs seeded on calcium phosphate cement. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 5128-5138	10.8	23
4	Role of extracellular matrix and YAP/TAZ in cell fate determination. <i>Cellular Signalling</i> , <b>2014</b> , 26, 186-91	4.9	60
3	Visualization analysis of research frontiers and trends in nerve regeneration and osseoperception in the repair of tooth loss. <i>Neural Regeneration Research</i> , <b>2014</b> , 9, 2013-8	4.5	0
2	Inhibition of TGF- $\beta$ signaling in mesenchymal stem cells of subchondral bone attenuates osteoarthritis. <i>Nature Medicine</i> , <b>2013</b> , 19, 704-12	50.5	582
1	The influence of delayed compressive stress on TGF- $\beta$ -induced chondrogenic differentiation of rat BMSCs through Smad-dependent and Smad-independent pathways. <i>Biomaterials</i> , <b>2012</b> , 33, 8395-405	15.6	45