

Zhihe Zhao

List of Publications by Citations

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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 | Inhibition of TGF- β signaling in mesenchymal stem cells of subchondral bone attenuates osteoarthritis. <i>Nature Medicine</i> , 2013 , 19, 704-12 | 50.5 | 582 |
| 94 | Tissue clearing of both hard and soft tissue organs with the PEGASOS method. <i>Cell Research</i> , 2018 , 28, 803-818 | 24.7 | 153 |
| 93 | Mechanobiology of mesenchymal stem cells: Perspective into mechanical induction of MSC fate. <i>Acta Biomaterialia</i> , 2015 , 20, 1-9 | 10.8 | 123 |
| 92 | Role of extracellular matrix and YAP/TAZ in cell fate determination. <i>Cellular Signalling</i> , 2014 , 26, 186-91 | 4.9 | 60 |
| 91 | Bone physiological microenvironment and healing mechanism: Basis for future bone-tissue engineering scaffolds. <i>Bioactive Materials</i> , 2021 , 6, 4110-4140 | 16.7 | 48 |
| 90 | The influence of delayed compressive stress on TGF- β -induced chondrogenic differentiation of rat BMSCs through Smad-dependent and Smad-independent pathways. <i>Biomaterials</i> , 2012 , 33, 8395-405 | 15.6 | 45 |
| 89 | Carbon Nanotube Reinforced Collagen/Hydroxyapatite Scaffolds Improve Bone Tissue Formation In Vitro and In Vivo. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 2075-2087 | 4.7 | 42 |
| 88 | Mechanotransduction pathways in the regulation of cartilage chondrocyte homeostasis. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 5408-5419 | 5.6 | 42 |
| 87 | The Role of Semaphorin 3A in Bone Remodeling. <i>Frontiers in Cellular Neuroscience</i> , 2017 , 11, 40 | 6.1 | 31 |
| 86 | Caffeine may enhance orthodontic tooth movement through increasing osteoclastogenesis induced by periodontal ligament cells under compression. <i>Archives of Oral Biology</i> , 2016 , 64, 51-60 | 2.8 | 25 |
| 85 | Roles of TGF-beta 1 signaling in the development of osteoarthritis. <i>Histology and Histopathology</i> , 2016 , 31, 1161-7 | 1.4 | 25 |
| 84 | In vitro mechanical loading models for periodontal ligament cells: from two-dimensional to three-dimensional models. <i>Archives of Oral Biology</i> , 2015 , 60, 416-24 | 2.8 | 24 |
| 83 | Effect of NELL1 gene overexpression in iPSC-MSCs seeded on calcium phosphate cement. <i>Acta Biomaterialia</i> , 2014 , 10, 5128-5138 | 10.8 | 23 |
| 82 | Prospect of circular RNA in osteogenesis: A novel orchestrator of signaling pathways. <i>Journal of Cellular Physiology</i> , 2019 , 234, 21450-21459 | 7 | 22 |
| 81 | Orthodontic Treatment Planning based on Artificial Neural Networks. <i>Scientific Reports</i> , 2019 , 9, 2037 | 4.9 | 22 |
| 80 | Adipose-derived exosomes: A novel adipokine in obesity-associated diabetes. <i>Journal of Cellular Physiology</i> , 2019 , 234, 16692-16702 | 7 | 21 |
| 79 | Fibromodulin reprogrammed cells: A novel cell source for bone regeneration. <i>Biomaterials</i> , 2016 , 83, 194-206 | 15.6 | 21 |

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| 78 | The effectiveness of vibrational stimulus to accelerate orthodontic tooth movement: a systematic review. <i>BMC Oral Health</i> , 2017 , 17, 143 | 3.7 | 19 |
| 77 | The roles of circRFWD2 and circINO80 during NELL-1-induced osteogenesis. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 8432-8441 | 5.6 | 18 |
| 76 | MicroRNA-1225 activates Keap1-Nrf2-HO-1 signalling to inhibit TNF α -induced osteoclastogenesis by mediating ROS generation. <i>Cell Biochemistry and Function</i> , 2019 , 37, 256-265 | 4.2 | 16 |
| 75 | Root resorption during orthodontic treatment with self-ligating or conventional brackets: a systematic review and meta-analysis. <i>BMC Oral Health</i> , 2016 , 16, 125 | 3.7 | 15 |
| 74 | Compression and hypoxia play independent roles while having combinative effects in the osteoclastogenesis induced by periodontal ligament cells. <i>Angle Orthodontist</i> , 2016 , 86, 66-73 | 2.6 | 14 |
| 73 | A nano-CaF-containing orthodontic cement with antibacterial and remineralization capabilities to combat enamel white spot lesions. <i>Journal of Dentistry</i> , 2019 , 89, 103172 | 4.8 | 14 |
| 72 | The role of lamin A/C in mesenchymal stem cell differentiation. <i>Journal of Physiology and Biochemistry</i> , 2019 , 75, 11-18 | 5 | 13 |
| 71 | External apical root resorption in non-extraction cases after clear aligner therapy or fixed orthodontic treatment. <i>Journal of Dental Sciences</i> , 2018 , 13, 48-53 | 2.5 | 13 |
| 70 | Microenvironment is involved in cellular response to hydrostatic pressures during chondrogenesis of mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2014 , 115, 1089-96 | 4.7 | 13 |
| 69 | 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> , 2016 , 38, 665-670 | 1.6 | 12 |
| 68 | Knockdown of DANCR reduces osteoclastogenesis and root resorption induced by compression force via Jagged1. <i>Cell Cycle</i> , 2019 , 18, 1759-1769 | 4.7 | 11 |
| 67 | 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> , 2019 , 156, 29-43.e5 | 2.1 | 11 |
| 66 | DNA methylation of noncoding RNAs: new insights into osteogenesis and common bone diseases. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 109 | 8.3 | 11 |
| 65 | Proteomic analysis of human periodontal ligament cells under hypoxia. <i>Proteome Science</i> , 2019 , 17, 3 | 2.6 | 10 |
| 64 | Effect of clear aligners on oral health-related quality of life: A systematic review. <i>Orthodontics and Craniofacial Research</i> , 2020 , 23, 363-370 | 3 | 10 |
| 63 | Conditional removal of the canonical TGF- β signaling delays condylar cartilage degeneration induced by a partial discectomy in mice. <i>PLoS ONE</i> , 2017 , 12, e0177826 | 3.7 | 10 |
| 62 | Protective effects of the pericellular matrix of chondrocyte on articular cartilage against the development of osteoarthritis. <i>Histology and Histopathology</i> , 2018 , 33, 757-764 | 1.4 | 10 |
| 61 | circAKT3 positively regulates osteogenic differentiation of human dental pulp stromal cells via miR-206/CX43 axis. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 531 | 8.3 | 9 |

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| 60 | 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> , 2018 , 22, 2510-2513 | 5.6 | 9 |
| 59 | Hyperglycemia modulates M1/M2 macrophage polarization via reactive oxygen species overproduction in ligature-induced periodontitis. <i>Journal of Periodontal Research</i> , 2021 , 56, 991-1005 | 4.3 | 9 |
| 58 | Effect of fixed orthodontic treatment on oral microbiota and salivary proteins. <i>Experimental and Therapeutic Medicine</i> , 2019 , 17, 4237-4243 | 2.1 | 8 |
| 57 | Long noncoding RNA expression profiles during the NEL-like 1 protein-induced osteogenic differentiation. <i>Journal of Cellular Physiology</i> , 2020 , 235, 6010-6022 | 7 | 8 |
| 56 | MicroRNA control of tooth formation and eruption. <i>Archives of Oral Biology</i> , 2017 , 73, 302-310 | 2.8 | 8 |
| 55 | Polydopamine-mediated graphene oxide and nanohydroxyapatite-incorporated conductive scaffold with an immunomodulatory ability accelerates periodontal bone regeneration in diabetes.. <i>Bioactive Materials</i> , 2022 , 18, 213-227 | 16.7 | 8 |
| 54 | Effects of continuous and intermittent parathyroid hormone administration on midpalatal suture expansion in rats. <i>Archives of Oral Biology</i> , 2019 , 99, 161-168 | 2.8 | 7 |
| 53 | MicroRNAs-containing extracellular vesicles in bone remodeling: An emerging frontier. <i>Life Sciences</i> , 2020 , 254, 117809 | 6.8 | 7 |
| 52 | Nociceptin/orphanin FQ up-regulates P2X ₁ receptors in primary cultures of neonatal rat trigeminal ganglion neurons. <i>European Journal of Oral Sciences</i> , 2015 , 123, 409-15 | 2.3 | 7 |
| 51 | Mitochondrial DNA haplogroups participate in osteoarthritis: current evidence based on a meta-analysis. <i>Clinical Rheumatology</i> , 2020 , 39, 1027-1037 | 3.9 | 7 |
| 50 | The Potential Application of Pulsed Ultrasound on Bone Defect Repair via Developmental Engineering: An In Vitro Study. <i>Artificial Organs</i> , 2016 , 40, 505-13 | 2.6 | 6 |
| 49 | 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> , 2019 , 19, 136 | 3.7 | 6 |
| 48 | Extracellular Vesicles in Liquid Biopsies: Potential for Disease Diagnosis. <i>BioMed Research International</i> , 2021 , 2021, 6611244 | 3 | 6 |
| 47 | The Triple Functions of D2 Silencing in Treatment of Periapical Disease. <i>Journal of Endodontics</i> , 2017 , 43, 272-278 | 4.7 | 5 |
| 46 | Risk of Bias and Its Impact on Intervention Effect Estimates of Randomized Controlled Trials in Endodontics. <i>Journal of Endodontics</i> , 2020 , 46, 12-18 | 4.7 | 5 |
| 45 | Osteoinductive and antimicrobial mechanisms of graphene-based materials for enhancing bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021 , 15, 915-935 | 4.4 | 5 |
| 44 | Photopolymerizable Hydrogel-Encapsulated Fibromodulin-Reprogrammed Cells for Muscle Regeneration. <i>Tissue Engineering - Part A</i> , 2020 , 26, 1112-1122 | 3.9 | 4 |
| 43 | Novel rechargeable nano-CaF orthodontic cement with high levels of long-term fluoride release. <i>Journal of Dentistry</i> , 2019 , 90, 103214 | 4.8 | 4 |

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| 42 | The Effect of β -Aminopropionitrile on Skeletal Micromorphology and Osteogenesis. <i>Calcified Tissue International</i> , 2018 , 103, 411-421 | 3.9 | 3 |
| 41 | Mesenchymal Stem/Stromal Cell Senescence: Hallmarks, Mechanisms, and Combating Strategies.. <i>Stem Cells Translational Medicine</i> , 2022 , 11, 356-371 | 6.9 | 3 |
| 40 | 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> , 2021 , 160, 862-871 | 2.1 | 3 |
| 39 | Parathyroid Hormone 1 Receptor Signaling in Dental Mesenchymal Stem Cells: Basic and Clinical Implications. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 654715 | 5.7 | 3 |
| 38 | PTH/PTHrP in controlled release hydrogel enhances orthodontic tooth movement by regulating periodontal bone remodeling. <i>Journal of Periodontal Research</i> , 2021 , 56, 885-896 | 4.3 | 3 |
| 37 | The vital role of Gli1 mesenchymal stem cells in tissue development and homeostasis. <i>Journal of Cellular Physiology</i> , 2021 , 236, 6077-6089 | 7 | 3 |
| 36 | Non-Coding RNAs Steering the Senescence-Related Progress, Properties, and Application of Mesenchymal Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 650431 | 5.7 | 3 |
| 35 | Cranial Suture Mesenchymal Stem Cells: Insights and Advances. <i>Biomolecules</i> , 2021 , 11, | 5.9 | 3 |
| 34 | 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> , 2021 , 17, 2276-2290 ³ | 7.3 | 3 |
| 33 | Runx1/miR-26a/Jagged1 signaling axis controls osteoclastogenesis and alleviates orthodontically induced inflammatory root resorption. <i>International Immunopharmacology</i> , 2021 , 100, 107991 | 5.8 | 3 |
| 32 | Artificial intelligence for caries and periapical periodontitis detection.. <i>Journal of Dentistry</i> , 2022 , 1041074.8 | 4.8 | 3 |
| 31 | 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> , 2020 , 121, 4623-4641 | 4.7 | 2 |
| 30 | Static compression regulates OPG expression in periodontal ligament cells via the CAMK II pathway. <i>Journal of Applied Oral Science</i> , 2015 , 23, 549-54 | 3.3 | 2 |
| 29 | PPAR γ accelerates bone regeneration in diabetic mellitus by enhancing AMPK/mTOR pathway-mediated autophagy. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 566 | 8.3 | 2 |
| 28 | Machine learning in orthodontics: Challenges and perspectives. <i>Advances in Clinical and Experimental Medicine</i> , 2021 , 30, 1065-1074 | 1.8 | 2 |
| 27 | Exploring the oncostatin M (OSM) feed-forward signaling of glioblastoma via STAT3 in pan-cancer analysis. <i>Cancer Cell International</i> , 2021 , 21, 565 | 6.4 | 2 |
| 26 | Effect of photobiomodulation therapy on mini-implant stability: a systematic review and meta-analysis. <i>Lasers in Medical Science</i> , 2021 , 36, 1557-1566 | 3.1 | 2 |
| 25 | Orthodontic incisor retraction caused changes in the soft tissue chin area: a retrospective study. <i>BMC Oral Health</i> , 2020 , 20, 108 | 3.7 | 2 |

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| 24 | The effect of N-acetylcysteine on the antibacterial capability and biocompatibility of nano silver-containing orthodontic cement. <i>Angle Orthodontist</i> , 2021 , 91, 515-521 | 2.6 | 2 |
| 23 | 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> , 2021 , 12, 421 | 8.3 | 2 |
| 22 | Inflammation-targeted cannabidiol-loaded nanomicelles for enhanced oral mucositis treatment.. <i>Drug Delivery</i> , 2022 , 29, 1272-1281 | 7 | 2 |
| 21 | Regulatory mechanism of miR-20a-5p expression in Cancer.. <i>Cell Death Discovery</i> , 2022 , 8, 262 | 6.9 | 2 |
| 20 | CircRNA-miRNA networks in regulating bone disease. <i>Journal of Cellular Physiology</i> , 2021 , | 7 | 1 |
| 19 | Accelerated construction of an model of human periodontal ligament tissue: vacuum plasma combined with fibronectin coating and a polydimethylsiloxane matrix. <i>PeerJ</i> , 2019 , 7, e7036 | 3.1 | 1 |
| 18 | Hyaluronan injection versus oral glucosamine and diclofenac in the treatment of temporomandibular joint osteoarthritis. <i>Clinical Oral Investigations</i> , 2021 , 26, 2703 | 4.2 | 1 |
| 17 | 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> , 2020 , 25, 50 | 4.8 | 1 |
| 16 | Dentofacial characteristics and age in association with incisor bony support in adult female patients with bimaxillary dentoalveolar protrusion. <i>Orthodontics and Craniofacial Research</i> , 2021 , 24, 585-592 | 3 | 1 |
| 15 | PPAR γ Agonist Alleviates Diabetic Osteoporosis Regulating M1/M2 Macrophage Polarization.. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 753194 | 5.7 | 0 |
| 14 | 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> , 2021 , 30, 9636897211052959 | 4.9 | 0 |
| 13 | Mechanosensitive Non-Coding RNAs in Osteogenesis of Mesenchymal Stem Cells. <i>Cell Transplantation</i> , 2021 , 30, 9636897211051382 | 4 | 0 |
| 12 | 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> , 2022 , 133, 105293 | 2.8 | 0 |
| 11 | Exploring the Epigenetic Regulatory Role of m6A-Associated SNPs in Type 2 Diabetes Pathogenesis. <i>Pharmacogenomics and Personalized Medicine</i> , 2021 , 14, 1369-1378 | 2.1 | 0 |
| 10 | Visualization analysis of research frontiers and trends in nerve regeneration and osseoperception in the repair of tooth loss. <i>Neural Regeneration Research</i> , 2014 , 9, 2013-8 | 4.5 | 0 |
| 9 | Biocompatible orthodontic cement with antibacterial capability and protein repellency. <i>BMC Oral Health</i> , 2021 , 21, 412 | 3.7 | 0 |
| 8 | Transcriptome-wide mA methylome during osteogenic differentiation of human adipose-derived stem cells. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 489 | 8.3 | 0 |
| 7 | Circular RNAs as potential regulators in bone remodeling: a narrative review. <i>Annals of Translational Medicine</i> , 2021 , 9, 1505 | 3.2 | 0 |

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| 6 | A Quartet Network Analysis Identifying Mechanically Responsive Long Noncoding RNAs in Bone Remodeling.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 780211 | 5.8 | o |
| 5 | SM22 β lineage niche cells regulate intramembranous bone regeneration via PDGFR β -triggered hydrogen sulfide production.. <i>Cell Reports</i> , 2022 , 39, 110750 | 10.6 | o |
| 4 | Use of autonomous maximal smile to evaluate dental and gingival exposure. <i>Korean Journal of Orthodontics</i> , 2018 , 48, 182-188 | 1.4 | |
| 3 | Product inhibition kinetics determinations - Substrate interaction affinity and enzymatic kinetics using one quantitative FRET assay. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 1481-1487 | 7.9 | |
| 2 | Parathyroid hormone promotes maxillary expansion and reduces relapse in the repeated activation maxillary expansion rat model by regulating Wnt/ β -catenin pathway.. <i>Progress in Orthodontics</i> , 2022 , 23, 1 | 3.4 | |
| 1 | Letter to the Editor.. <i>Angle Orthodontist</i> , 2022 , 92, 299 | 2.6 | |