

# Quan Yuan

## List of Publications by Year in descending order

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118  
papers

5,380  
citations

101384

36  
h-index

102304

66  
g-index

130  
all docs

130  
docs citations

130  
times ranked

8324  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesenchymal Stem Cell-Based Immunomodulation: Properties and Clinical Application. <i>Stem Cells International</i> , 2018, 2018, 1-12.	1.2	364
2	The m6A methyltransferase METTL3 promotes bladder cancer progression via AFF4/NF- $\kappa$ B/MYC signaling network. <i>Oncogene</i> , 2019, 38, 3667-3680.	2.6	290
3	Saliva: potential diagnostic value and transmission of 2019-nCoV. <i>International Journal of Oral Science</i> , 2020, 12, 11.	3.6	284
4	Mettl3-mediated m6A RNA methylation regulates the fate of bone marrow mesenchymal stem cells and osteoporosis. <i>Nature Communications</i> , 2018, 9, 4772.	5.8	265
5	Transforming growth factor- $\beta$ 2 in stem cells and tissue homeostasis. <i>Bone Research</i> , 2018, 6, 2.	5.4	262
6	Tissue clearing of both hard and soft tissue organs with the PEGASOS method. <i>Cell Research</i> , 2018, 28, 803-818.	5.7	256
7	Targeting BMI1 + Cancer Stem Cells Overcomes Chemoresistance and Inhibits Metastases in Squamous Cell Carcinoma. <i>Cell Stem Cell</i> , 2017, 20, 621-634.e6.	5.2	201
8	Autophagy in bone homeostasis and the onset of osteoporosis. <i>Bone Research</i> , 2019, 7, 28.	5.4	125
9	GDF11 decreases bone mass by stimulating osteoclastogenesis and inhibiting osteoblast differentiation. <i>Nature Communications</i> , 2016, 7, 12794.	5.8	124
10	Intestinal microbiota: a potential target for the treatment of postmenopausal osteoporosis. <i>Bone Research</i> , 2017, 5, 17046.	5.4	121
11	Alpha-ketoglutarate ameliorates age-related osteoporosis via regulating histone methylations. <i>Nature Communications</i> , 2020, 11, 5596.	5.8	106
12	Substrate elasticity regulates adipose-derived stromal cell differentiation towards osteogenesis and adipogenesis through $\beta$ -catenin transduction. <i>Acta Biomaterialia</i> , 2018, 79, 83-95.	4.1	86
13	PEGylated Polyamidoamine Dendrimers with Bis-Aryl Hydrazone Linkages for Enhanced Gene Delivery. <i>Biomacromolecules</i> , 2010, 11, 1940-1947.	2.6	81
14	Berberine Ameliorates Periodontal Bone Loss by Regulating Gut Microbiota. <i>Journal of Dental Research</i> , 2019, 98, 107-116.	2.5	77
15	Loss of KDM4B exacerbates bone-fat imbalance and mesenchymal stromal cell exhaustion in skeletal aging. <i>Cell Stem Cell</i> , 2021, 28, 1057-1073.e7.	5.2	77
16	Wnt5a Promotes Inflammatory Responses via Nuclear Factor $\kappa$ B (NF- $\kappa$ B) and Mitogen-activated Protein Kinase (MAPK) Pathways in Human Dental Pulp Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 21028-21039.	1.6	76
17	Increased Osteopontin Contributes to Inhibition of Bone Mineralization in FGF23-Deficient Mice. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 693-704.	3.1	76
18	Fibroblast growth factor 23 and bone mineralisation. <i>International Journal of Oral Science</i> , 2015, 7, 8-13.	3.6	74

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19	Mapping the immune microenvironment for mandibular alveolar bone homeostasis at single-cell resolution. <i>Bone Research</i> , 2021, 9, 17.	5.4	62
20	Anterior Cruciate Ligament Transectionâ€“Induced Cellular and Extracellular Events in Menisci: Implications for Osteoarthritis. <i>American Journal of Sports Medicine</i> , 2018, 46, 1185-1198.	1.9	61
21	Ubiquitinâ€“specific protease <sc>USP</sc> 34 controls osteogenic differentiation and bone formation by regulating <sc>BMP</sc> 2 signaling. <i>EMBO Journal</i> , 2018, 37, .	3.5	61
22	A Novel Nanosilver/Nanosilica Hydrogel for Bone Regeneration in Infected Bone Defects. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13242-13250.	4.0	59
23	Parathyroid hormone 1 receptor is essential to induce FGF23 production and maintain systemic mineral ion homeostasis. <i>FASEB Journal</i> , 2016, 30, 428-440.	0.2	59
24	Parathyroid hormone controls paracellular Ca <sup>2+</sup> transport in the thick ascending limb by regulating the tight-junction protein Claudin14. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3344-E3353.	3.3	55
25	Mechanical stretch inhibits adipogenesis and stimulates osteogenesis of adipose stem cells. <i>Cell Proliferation</i> , 2012, 45, 158-166.	2.4	52
26	FGF-23/Klotho signaling is not essential for the phosphaturic and anabolic functions of PTH. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2026-2035.	3.1	51
27	Ectopic osteogenesis and chondrogenesis of bone marrow stromal stem cells in alginate system. <i>Cell Biology International</i> , 2007, 31, 776-783.	1.4	50
28	Initial bone regeneration around fenestrated implants in Beagle dogs using basic fibroblast growth factorâ€“gelatin hydrogel complex with varying biodegradation rates. <i>Journal of Prosthodontic Research</i> , 2009, 53, 41-47.	1.1	48
29	Histone Modifications in Aging: The Underlying Mechanisms and Implications. <i>Current Stem Cell Research and Therapy</i> , 2018, 13, 125-135.	0.6	48
30	KDM4B protects against obesity and metabolic dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5566-E5575.	3.3	47
31	Interrelated role of Klotho and calcium-sensing receptor in parathyroid hormone synthesis and parathyroid hyperplasia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3749-E3758.	3.3	46
32	Vitamin D Supplementation Enhances the Fixation of Titanium Implants in Chronic Kidney Disease Mice. <i>PLoS ONE</i> , 2014, 9, e95689.	1.1	45
33	Basic research Cyclic tensile stretch modulates osteogenic differentiation of adipose-derived stem cells via the BMP-2 pathway. <i>Archives of Medical Science</i> , 2010, 2, 152-159.	0.4	44
34	Expression of an active GÎ± <sub>s</sub> mutant in skeletal stem cells is sufficient and necessary for fibrous dysplasia initiation and maintenance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E428-E437.	3.3	43
35	Deletion of PTH Rescues Skeletal Abnormalities and High Osteopontin Levels in Klothoâˆ“/âˆ“ Mice. <i>PLoS Genetics</i> , 2012, 8, e1002726.	1.5	41
36	ANGPTL4-Mediated Promotion of Glycolysis Facilitates the Colonization of <i>Fusobacterium nucleatum</i> in Colorectal Cancer. <i>Cancer Research</i> , 2021, 81, 6157-6170.	0.4	40

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37	Effect of combined application of bFGF and inorganic polyphosphate on bioactivities of osteoblasts and initial bone regeneration. <i>Acta Biomaterialia</i> , 2009, 5, 1716-1724.	4.1	39
38	Role of DNA and RNA N6-Adenine Methylation in Regulating Stem Cell Fate. <i>Current Stem Cell Research and Therapy</i> , 2017, 13, 31-38.	0.6	39
39	Basic research Co-culture with Schwann cells is an effective way for adipose-derived stem cells neural transdifferentiation. <i>Archives of Medical Science</i> , 2010, 2, 145-151.	0.4	38
40	Epiregulin enhances odontoblastic differentiation of dental pulp stem cells via activating MAPK signalling pathway. <i>Cell Proliferation</i> , 2019, 52, e12680.	2.4	38
41	LepR-Expressing Stem Cells Are Essential for Alveolar Bone Regeneration. <i>Journal of Dental Research</i> , 2020, 99, 1279-1286.	2.5	37
42	Metformin ameliorates the NLPP3 inflammasome mediated pyroptosis by inhibiting the expression of NEK7 in diabetic periodontitis. <i>Archives of Oral Biology</i> , 2020, 116, 104763.	0.8	36
43	Ubiquitin-specific Protease 34 Inhibits Osteoclast Differentiation by Regulating $\text{NF-}\kappa\text{B}$ Signaling. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 1597-1608.	3.1	35
44	Research on promoting periodontal regeneration with human basic fibroblast growth factor-modified bone marrow mesenchymal stromal cell gene therapy. <i>Cytotherapy</i> , 2009, 11, 317-325.	0.3	34
45	Hyperglycemia-induced inflamm-aging accelerates gingival senescence via NLRC4 phosphorylation. <i>Journal of Biological Chemistry</i> , 2019, 294, 18807-18819.	1.6	34
46	Growth differentiation factor 11 inhibits adipogenic differentiation by activating TGF $\beta$ /Smad signalling pathway. <i>Cell Proliferation</i> , 2019, 52, e12631.	2.4	34
47	Auto-transplanted mesenchymal stromal cell fate in periodontal tissue of beagle dogs. <i>Cytotherapy</i> , 2010, 12, 514-521.	0.3	33
48	Tumour-initiating capacity is independent of epithelial-mesenchymal transition status in breast cancer cell lines. <i>British Journal of Cancer</i> , 2014, 110, 2514-2523.	2.9	33
49	FGF23 neutralization improves bone quality and osseointegration of titanium implants in chronic kidney disease mice. <i>Scientific Reports</i> , 2015, 5, 8304.	1.6	33
50	Aberrant activation of latent transforming growth factor- $\beta$ 2 initiates the onset of temporomandibular joint osteoarthritis. <i>Bone Research</i> , 2018, 6, 26.	5.4	33
51	In silico genome-wide identification of m6A-associated SNPs as potential functional variants for periodontitis. <i>Journal of Cellular Physiology</i> , 2020, 235, 900-908.	2.0	32
52	Interaction between Schwann Cells and Osteoblasts In Vitro. <i>International Journal of Oral Science</i> , 2010, 2, 74-81.	3.6	30
53	Effect of chronic kidney disease on the healing of titanium implants. <i>Bone</i> , 2013, 56, 410-415.	1.4	30
54	Effect of gelatin sponge with colloid silver on bone healing in infected cranial defects. <i>Materials Science and Engineering C</i> , 2017, 70, 371-377.	3.8	30

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55	Tissue Clearing and Its Application to Bone and Dental Tissues. <i>Journal of Dental Research</i> , 2019, 98, 621-631.	2.5	30
56	METTL3-Mediated m6A mRNA Methylation Modulates Tooth Root Formation by Affecting NFIC Translation. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 412-423.	3.1	30
57	Probiotics ameliorate alveolar bone loss by regulating gut microbiota. <i>Cell Proliferation</i> , 2021, 54, e13075.	2.4	30
58	AFF1 and AFF4 differentially regulate the osteogenic differentiation of human MSCs. <i>Bone Research</i> , 2017, 5, 17044.	5.4	29
59	PTH Ablation Ameliorates the Anomalies of Fgf23-Deficient Mice by Suppressing the Elevated Vitamin D and Calcium Levels. <i>Endocrinology</i> , 2011, 152, 4053-4061.	1.4	27
60	FGF23 Deficiency Leads to Mixed Hearing Loss and Middle Ear Malformation in Mice. <i>PLoS ONE</i> , 2014, 9, e107681.	1.1	27
61	Role of PTH1R Signaling in Prx1 <sup>+</sup> Mesenchymal Progenitors during Eruption. <i>Journal of Dental Research</i> , 2020, 99, 1296-1305.	2.5	27
62	Marginal bone loss around non-submerged implants is associated with salivary microbiome during bone healing. <i>International Journal of Oral Science</i> , 2017, 9, 95-103.	3.6	26
63	Dental implant treatment for renal failure patients on dialysis: a clinical guideline. <i>International Journal of Oral Science</i> , 2017, 9, 125-132.	3.6	26
64	Evaluation of Periodontitis and Bone Loss in Patients Undergoing Hemodialysis. <i>Journal of Periodontology</i> , 2014, 85, 1515-1520.	1.7	25
65	Layer-by-layer paper-stacking nanofibrous membranes to deliver adipose-derived stem cells&nbsp;for bone regeneration. <i>International Journal of Nanomedicine</i> , 2015, 10, 1273.	3.3	25
66	Smoking May Lead to Marginal Bone Loss Around Non-Submerged Implants During Bone Healing by Altering Salivary Microbiome: A Prospective Study. <i>Journal of Periodontology</i> , 2017, 88, 1297-1308.	1.7	25
67	CBD Promotes Oral Ulcer Healing via Inhibiting CMPK2-Mediated Inflammasome. <i>Journal of Dental Research</i> , 2022, 101, 206-215.	2.5	25
68	CTGF facilitates cell-cell communication in chondrocytes via PI3K/Akt signalling pathway. <i>Cell Proliferation</i> , 2021, 54, e13001.	2.4	23
69	Cysteine dioxygenase type 1 promotes adipogenesis via interaction with peroxisome proliferator-activated receptor gamma. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 123-127.	1.0	22
70	Multifunctional Biomaterial Coating Based on Bio-Inspired Polyphosphate and Lysozyme Supramolecular Nanofilm. <i>Biomacromolecules</i> , 2018, 19, 1979-1989.	2.6	21
71	Mettl5 mediated 18S rRNA N6-methyladenosine (m6A) modification controls stem cell fate determination and neural function. <i>Genes and Diseases</i> , 2022, 9, 268-274.	1.5	21
72	Immediate implant placement into posterior sockets with or without buccal bone dehiscence defects: A retrospective cohort study. <i>Journal of Dentistry</i> , 2017, 65, 95-100.	1.7	20

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73	Diphtheria Toxin- and GFP-Based Mouse Models of Acquired Hypoparathyroidism and Treatment With a Long-Acting Parathyroid Hormone Analog. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 975-984.	3.1	19
74	Deubiquitinating Enzymes and Bone Remodeling. <i>Stem Cells International</i> , 2018, 2018, 1-9.	1.2	19
75	Evaluation of the oral health status in Chinese hemodialysis patients. <i>Hemodialysis International</i> , 2014, 18, 668-673.	0.4	18
76	Estrogen Deficiency Leads to Further Bone Loss in the Mandible of CKD Mice. <i>PLoS ONE</i> , 2016, 11, e0148804.	1.1	18
77	The Inlay Osteotome Sinus Augmentation Technique for Placing Short Implants Simultaneously with Reduced Crestal Bone Height. A Short-Term Follow-Up. <i>Clinical Implant Dentistry and Related Research</i> , 2013, 15, 918-926.	1.6	17
78	Chronic Kidney Disease Impairs Bone Defect Healing in Rats. <i>Scientific Reports</i> , 2016, 6, 23041.	1.6	17
79	Effect of FK506 (tacrolimus) therapy on bone healing of titanium implants: a histometric and biomechanical study in mice. <i>European Journal of Oral Sciences</i> , 2017, 125, 28-33.	0.7	17
80	Klotho in Osx+ mesenchymal progenitors exerts pro-osteogenic and anti-inflammatory effects during mandibular alveolar bone formation and repair. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 155.	7.1	16
81	CGRP-alpha application: A potential treatment to improve osseoperception of endosseous dental implants. <i>Medical Hypotheses</i> , 2013, 81, 297-299.	0.8	14
82	The AlkB Family of Fe (II)/Alpha-Ketoglutarate-Dependent Dioxygenases Modulates Embryogenesis through Epigenetic Regulation. <i>Current Stem Cell Research and Therapy</i> , 2018, 13, 136-143.	0.6	14
83	DNA demethylase ALKBH1 promotes adipogenic differentiation via regulation of HIF-1 signaling. <i>Journal of Biological Chemistry</i> , 2022, 298, 101499.	1.6	14
84	6-Methyladenosine Methyltransferases and Demethylases: New Regulators of Stem Cell Pluripotency and Differentiation. <i>Stem Cells and Development</i> , 2016, 25, 1050-1059.	1.1	13
85	A Novel Technique to Align the Intraoral Scans to the Virtual Articulator and Set the Patient-Specific Sagittal Condylar Inclination. <i>Journal of Prosthodontics</i> , 2022, 31, 79-84.	1.7	13
86	Osteogenic growth peptide (OGP)-loaded amphiphilic peptide (NapFFY) supramolecular hydrogel promotes osteogenesis and bone tissue reconstruction. <i>International Journal of Biological Macromolecules</i> , 2022, 195, 558-564.	3.6	13
87	AFF4 regulates osteogenic differentiation of human dental follicle cells. <i>International Journal of Oral Science</i> , 2020, 12, 20.	3.6	12
88	Effect of FDC-SP on the phenotype expression of cultured periodontal ligament cells. <i>Archives of Medical Science</i> , 2011, 2, 235-241.	0.4	11
89	Effect of estrogen deficiency on the fixation of titanium implants in chronic kidney disease mice. <i>Osteoporosis International</i> , 2015, 26, 1073-1080.	1.3	11
90	AFF1 inhibits adipogenic differentiation via targeting TGM2 transcription. <i>Cell Proliferation</i> , 2020, 53, e12831.	2.4	11

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91	Schwann cell graft: A method to promote sensory responses of osseointegrated implants. <i>Medical Hypotheses</i> , 2007, 69, 800-803.	0.8	10
92	Salivary microbiome in patients undergoing hemodialysis and its associations with the duration of the dialysis. <i>BMC Nephrology</i> , 2020, 21, 414.	0.8	10
93	Spatial Distributions, Characteristics, and Applications of Craniofacial Stem Cells. <i>Stem Cells International</i> , 2020, 2020, 1-9.	1.2	10
94	USP34 regulates tooth root morphogenesis by stabilizing NFIC. <i>International Journal of Oral Science</i> , 2021, 13, 7.	3.6	10
95	Inflammation-targeted cannabidiol-loaded nanomicelles for enhanced oral mucositis treatment. <i>Drug Delivery</i> , 2022, 29, 1272-1281.	2.5	10
96	Inorganic polyphosphates stimulate FGF23 expression through the FGFR pathway. <i>Biochemical and Biophysical Research Communications</i> , 2012, 428, 298-302.	1.0	9
97	Assessment of residual alveolar bone volume in hemodialysis patients using CBCT. <i>Clinical Oral Investigations</i> , 2015, 19, 1619-1624.	1.4	9
98	Effect of Resorbable Collagen Plug on Bone Regeneration in Rat Critical-Size Defect Model. <i>Implant Dentistry</i> , 2016, 25, 163-170.	1.7	9
99	Substrate elasticity regulates vascular endothelial growth factor A (VEGFA) expression in adipose-derived stromal cells: Implications for potential angiogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 576-585.	2.5	9
100	Endogenous GDF11 regulates odontogenic differentiation of dental pulp stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 11457-11464.	1.6	9
101	Single-Cell Transcriptomic Atlas of Gingival Mucosa in Type 2 Diabetes. <i>Journal of Dental Research</i> , 2022, 101, 1654-1664.	2.5	9
102	Recombinant growth differentiation factor 11 impairs fracture healing through inhibiting chondrocyte differentiation. <i>Annals of the New York Academy of Sciences</i> , 2019, 1440, 54-66.	1.8	8
103	Î³-Aminobutyric Acid Promotes Osteogenic Differentiation of Mesenchymal Stem Cells by Inducing TNFAIP3. <i>Current Gene Therapy</i> , 2020, 20, 152-161.	0.9	7
104	Integrative Genomic Analysis Predicts Regulatory Role of N6-Methyladenosine-Associated SNPs for Adiposity. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 551.	1.8	6
105	Dual-Functional Biomaterials for Bone Regeneration and Infection Control. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014, 4, 875-885.	0.0	6
106	Ubiquitin-specific protease USP 34 controls osteogenic differentiation and bone formation by regulating BMP 2 signaling. <i>EMBO Journal</i> , 2020, 39, e105578.	3.5	6
107	METTL3-mediated m6A RNA methylation regulates dorsal lingual epithelium homeostasis. <i>International Journal of Oral Science</i> , 2022, 14, 26.	3.6	6
108	The role of USP34 in the fixation of titanium implants in murine models. <i>European Journal of Oral Sciences</i> , 2020, 128, 211-217.	0.7	5

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109	Management of systemic risk factors ahead of dental implant therapy: A beard well lathered is half shaved. <i>Journal of Leukocyte Biology</i> , 2021, 110, 591-604.	1.5	5
110	Growth differentiation factor 11 impairs titanium implant healing in the femur and leads to mandibular bone loss. <i>Journal of Periodontology</i> , 2020, 91, 1203-1212.	1.7	4
111	N6-methyladenosine (m6A) modification of ribosomal RNAs (rRNAs): Critical roles in mRNA translation and diseases. <i>Genes and Diseases</i> , 2023, 10, 126-134.	1.5	4
112	<i>Gnas</i> Loss Causes Chondrocyte Fate Conversion in Cranial Suture Formation. <i>Journal of Dental Research</i> , 2022, 101, 931-941.	2.5	4
113	Challenges of Stem-cell-based Craniofacial Regeneration. <i>Current Stem Cell Research and Therapy</i> , 2021, 16, 670-682.	0.6	2
114	Two Techniques to Create Hypoparathyroid Mice: Parathyroidectomy Using GFP Glands and Diphtheria-Toxin-Mediated Parathyroid Ablation. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	1
115	Three-dimensional intravital imaging in bone research. <i>Journal of Biophotonics</i> , 2019, 12, e201960075.	1.1	1
116	METTL5 regulates cranial suture fusion via Wnt signaling. <i>Fundamental Research</i> , 2022, , .	1.6	1
117	Cover Image, Volume 53, Issue 6. <i>Cell Proliferation</i> , 2020, 53, e12864.	2.4	0
118	A cast-free approach to fabricating an implant-supported interim restoration: A dental technique. <i>Journal of Prosthetic Dentistry</i> , 2021, , .	1.1	0