

# Yuxing Bai

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

2,386  
citations

230014

27  
h-index

263392

45  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3012  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combination of parathyroid hormone pretreatment and mechanical stretch promotes osteogenesis of periodontal ligament fibroblasts. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, e62-e71.	0.8	3
2	Novel nanostructured resin infiltrant containing calcium phosphate nanoparticles to prevent enamel white spot lesions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 104990.	1.5	11
3	Higher yield and enhanced therapeutic effects of exosomes derived from MSCs in hydrogel-assisted 3D culture system for bone regeneration. <i>Materials Science and Engineering C</i> , 2022, 133, 112646.	3.8	37
4	Biocompatible reduced graphene oxide stimulated BMSCs induce acceleration of bone remodeling and orthodontic tooth movement through promotion on osteoclastogenesis and angiogenesis. <i>Bioactive Materials</i> , 2022, 15, 409-425.	8.6	9
5	Mangiferin promotes the osteogenic differentiation of human periodontal ligament stem cells via TGF $\beta$ <sup>1</sup> /SMAD2 signaling. <i>Molecular Medicine Reports</i> , 2022, 26, .	1.1	1
6	Gelatin reduced Graphene Oxide Nanosheets as Kartogenin Nanocarrier Induces Rat ADSCs Chondrogenic Differentiation Combining with Autophagy Modification. <i>Materials</i> , 2021, 14, 1053.	1.3	12
7	Osteoclastic effects of mBMMSCs under compressive pressure during orthodontic tooth movement. <i>Stem Cell Research and Therapy</i> , 2021, 12, 148.	2.4	14
8	Bite Force Transducers and Measurement Devices. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 665081.	2.0	31
9	THREE-DIMENSIONAL ASSESSMENT OF THE SAGITTAL CONDYLAR INCLINATION IN SKELETAL CLASS II PATIENTS BASED ON COMPUTER AIDED DIAGNOSIS AXIOGRAPH AND CONE-BEAM COMPUTED TOMOGRAPHY. <i>Journal of Mechanics in Medicine and Biology</i> , 2021, 21, 2140016.	0.3	0
10	The long observation &lt;i>in vitro</i> of prevention effect of novel self-etching orthodontic adhesive modified with 2-methacryloxyethyl phosphorylcholine in enamel demineralization. <i>Dental Materials Journal</i> , 2021, 40, 631-640.	0.8	4
11	A Biphasic Calcium Phosphate Cement Enhances Dentin Regeneration by Dental Pulp Stem Cells and Promotes Macrophages M2 Phenotype In Vitro. <i>Tissue Engineering - Part A</i> , 2021, 27, 1113-1127.	1.6	8
12	Periodontal ligament fibroblast-derived exosomes induced by compressive force promote macrophage M1 polarization via Yes-associated protein. <i>Archives of Oral Biology</i> , 2021, 132, 105263.	0.8	11
13	Three-dimensional comparative evaluation of customized bone-anchored vs tooth-borne maxillary protraction in patients with skeletal Class III malocclusion. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2021, 160, 374-384.	0.8	6
14	Human Periodontal Ligament Stem Cell and Umbilical Vein Endothelial Cell Co-Culture to Prevascularize Scaffolds for Angiogenic and Osteogenic Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12363.	1.8	11
15	Optimization of clinically applied orthodontic archwire electrothermal treatment conditions by heat tint and mechanical properties: An experimental study. <i>International Orthodontics</i> , 2020, 18, 137-146.	0.6	2
16	Osteogenic stimulation of human dental pulp stem cells with self-setting biphasic calcium phosphate cement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 1669-1678.	1.6	9
17	Photobiomodulation with 808-nm diode laser enhances gingival wound healing by promoting migration of human gingival mesenchymal stem cells via ROS/JNK/NF- $\kappa$ B/MMP-1 pathway. <i>Lasers in Medical Science</i> , 2020, 35, 1831-1839.	1.0	19
18	Changes in mechanical properties, surface morphology, structure, and composition of Invisalign material in the oral environment. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2020, 157, 745-753.	0.8	23

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19	S. mutans gene-modification and antibacterial resin composite as dual strategy to suppress biofilm acid production and inhibit caries. <i>Journal of Dentistry</i> , 2020, 93, 103278.	1.7	23
20	Novel antibacterial calcium phosphate nanocomposite with long-term ion recharge and re-release to inhibit caries. <i>Dental Materials Journal</i> , 2020, 39, 678-689.	0.8	16
21	The effect of electro-thermal treatment of stainless steel arch wire on mechanical properties and cell proliferation. <i>Australasian Orthodontic Journal</i> , 2020, 36, 75-86.	0.3	0
22	Salivary microbial changes during the first 6 months of orthodontic treatment. <i>PeerJ</i> , 2020, 8, e10446.	0.9	2
23	Maxillary protraction using customized mini-plates for anchorage in an adolescent girl with skeletal Class III malocclusion. <i>Korean Journal of Orthodontics</i> , 2020, 50, 346-355.	0.8	3
24	Transit amplifying cells coordinate mouse incisor mesenchymal stem cell activation. <i>Nature Communications</i> , 2019, 10, 3596.	5.8	31
25	Effects of Fluoride and Calcium Phosphate Materials on Remineralization of Mild and Severe White Spot Lesions. <i>BioMed Research International</i> , 2019, 2019, 1-13.	0.9	34
26	Novel Protein-Repellent and Antibacterial Resins and Cements to Inhibit Lesions and Protect Teeth. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-11.	1.2	6
27	Human periodontal ligament stem cell seeding on calcium phosphate cement scaffold delivering metformin for bone tissue engineering. <i>Journal of Dentistry</i> , 2019, 91, 103220.	1.7	23
28	&lt;p&gt;Novel nanomaterial-based antibacterial photodynamic therapies to combat oral bacterial biofilms and infectious diseases&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6937-6956.	3.3	99
29	Treatment of a Class II Division 1 malocclusion with the combination of a myofunctional trainer and fixed appliances. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2019, 156, 545-554.	0.8	7
30	Collagen/nano-sized $\beta$ -tricalcium phosphate conduits combined with collagen filaments and nerve growth factor promote facial nerve regeneration in miniature swine: an in vivo study. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2019, 128, 472-478.	0.2	17
31	Novel endodontic sealer with dual strategies of dimethylaminohexadecyl methacrylate and nanoparticles of silver to inhibit root canal biofilms. <i>Dental Materials</i> , 2019, 35, 1117-1129.	1.6	27
32	Aspirin inhibits RANKL-induced osteoclast differentiation in dendritic cells by suppressing NF- $\kappa$ B and NFATc1 activation. <i>Stem Cell Research and Therapy</i> , 2019, 10, 375.	2.4	47
33	Evaluation of Growth and Development of Late Mixed Dentition Upper Dental Arch with Normal Occlusion Using 3-Dimensional Digital Models. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-8.	1.1	5
34	Novel rechargeable calcium phosphate nanoparticle-filled dental cement. <i>Dental Materials Journal</i> , 2019, 38, 1-10.	0.8	10
35	Collagen/ $\beta$ -TCP nerve guidance conduits promote facial nerve regeneration in mini-swine and the underlying biological mechanism: A pilot in vivo study. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 1122-1131.	1.6	5
36	Osteogenic stimulation of human dental pulp stem cells with a novel gelatin-hydroxyapatite-tricalcium phosphate scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1851-1861.	2.1	30

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37	PTH1R signalling regulates the mechanotransduction process of cementoblasts under cyclic tensile stress. <i>European Journal of Orthodontics</i> , 2018, 40, 537-543.	1.1	5
38	Biomimetic intrafibrillar mineralized collagen promotes bone regeneration via activation of the Wnt signaling pathway. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 7503-7516.	3.3	23
39	Developing a New Generation of Therapeutic Dental Polymers to Inhibit Oral Biofilms and Protect Teeth. <i>Materials</i> , 2018, 11, 1747.	1.3	14
40	Protein-repellent and antibacterial effects of a novel polymethyl methacrylate resin. <i>Journal of Dentistry</i> , 2018, 79, 39-45.	1.7	30
41	Advanced smart biomaterials and constructs for hard tissue engineering and regeneration. <i>Bone Research</i> , 2018, 6, 31.	5.4	206
42	D-Mannose Enhanced Immunomodulation of Periodontal Ligament Stem Cells via Inhibiting IL-6 Secretion. <i>Stem Cells International</i> , 2018, 2018, 1-11.	1.2	16
43	Novel dental adhesive resin with crack self-healing, antimicrobial and remineralization properties. <i>Journal of Dentistry</i> , 2018, 75, 48-57.	1.7	40
44	Effects of water-aging for 6 months on the durability of a novel antimicrobial and protein-repellent dental bonding agent. <i>International Journal of Oral Science</i> , 2018, 10, 18.	3.6	12
45	Nanostructured Polymeric Materials with Protein-Repellent and Anti-Caries Properties for Dental Applications. <i>Nanomaterials</i> , 2018, 8, 393.	1.9	36
46	Novel self-etching and antibacterial orthodontic adhesive containing dimethylaminohexadecyl methacrylate to inhibit enamel demineralization. <i>Dental Materials Journal</i> , 2018, 37, 555-561.	0.8	7
47	Novel self-etch adhesive with antibacterial and protein-repellent functions to prevent enamel demineralization. <i>Dental Materials Journal</i> , 2018, 37, 904-911.	0.8	6
48	Novel multifunctional dental cement to prevent enamel demineralization near orthodontic brackets. <i>Journal of Dentistry</i> , 2017, 64, 58-67.	1.7	23
49	Novel dental adhesive with triple benefits of calcium phosphate recharge, protein-repellent and antibacterial functions. <i>Dental Materials</i> , 2017, 33, 553-563.	1.6	43
50	MicroRNA-21 promotes osteogenesis of bone marrow mesenchymal stem cells via the Smad7-Smad1/5/8-Runx2 pathway. <i>Biochemical and Biophysical Research Communications</i> , 2017, 493, 928-933.	1.0	67
51	Microarray gene expression of periosteum in spontaneous bone regeneration of mandibular segmental defects. <i>Scientific Reports</i> , 2017, 7, 13535.	1.6	19
52	Aspirin inhibits LPS-induced macrophage activation via the NF- $\kappa$ B pathway. <i>Scientific Reports</i> , 2017, 7, 11549.	1.6	58
53	Bioactive Dental Composites and Bonding Agents Having Remineralizing and Antibacterial Characteristics. <i>Dental Clinics of North America</i> , 2017, 61, 669-687.	0.8	33
54	Effect of calcium phosphate nanocomposite on in vitro remineralization of human dentin lesions. <i>Dental Materials</i> , 2017, 33, 1033-1044.	1.6	67

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55	Current Insights into the Modulation of Oral Bacterial Degradation of Dental Polymeric Restorative Materials. <i>Materials</i> , 2017, 10, 507.	1.3	22
56	Effects of Long-Term Water-Aging on Novel Anti-Biofilm and Protein-Repellent Dental Composite. <i>International Journal of Molecular Sciences</i> , 2017, 18, 186.	1.8	35
57	Novel orthodontic cement containing dimethylaminohexadecyl methacrylate with strong antibacterial capability. <i>Dental Materials Journal</i> , 2017, 36, 669-676.	0.8	9
58	Changes in force associated with the amount of aligner activation and lingual bodily movement of the maxillary central incisor. <i>Korean Journal of Orthodontics</i> , 2016, 46, 65.	0.8	27
59	Do Dental Resin Composites Accumulate More Oral Biofilms and Plaque than Amalgam and Glass Ionomer Materials?. <i>Materials</i> , 2016, 9, 888.	1.3	39
60	Novel Dental Cement to Combat Biofilms and Reduce Acids for Orthodontic Applications to Avoid Enamel Demineralization. <i>Materials</i> , 2016, 9, 413.	1.3	26
61	Novel protein-repellent and biofilm-repellent orthodontic cement containing 2-methacryloyloxyethyl phosphorylcholine. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 949-959.	1.6	21
62	Orthodontic cement with protein-repellent and antibacterial properties and the release of calcium and phosphate ions. <i>Journal of Dentistry</i> , 2016, 50, 51-59.	1.7	39
63	Protein-repellent and antibacterial functions of a calcium phosphate rechargeable nanocomposite. <i>Journal of Dentistry</i> , 2016, 52, 15-22.	1.7	41
64	Effects of transverse relationships between maxillary arch, mouth, and face on smile esthetics. <i>Angle Orthodontist</i> , 2016, 86, 135-141.	1.1	12
65	BoneCeramic graft regenerates alveolar defects but slows orthodontic tooth movement with less root resorption. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2016, 149, 523-532.	0.8	30
66	Development of novel dental adhesive with double benefits of protein-repellent and antibacterial capabilities. <i>Dental Materials</i> , 2015, 31, 845-854.	1.6	54
67	Protein-repellent and antibacterial dental composite to inhibit biofilms and caries. <i>Journal of Dentistry</i> , 2015, 43, 225-234.	1.7	81
68	Development of a multifunctional adhesive system for prevention of root caries and secondary caries. <i>Dental Materials</i> , 2015, 31, 1119-1131.	1.6	77
69	Antibacterial and protein-repellent orthodontic cement to combat biofilms and white spot lesions. <i>Journal of Dentistry</i> , 2015, 43, 1529-1538.	1.7	37
70	Casein phosphopeptide-amorphous calcium phosphate remineralization of primary teeth early enamel lesions. <i>Journal of Dentistry</i> , 2014, 42, 21-29.	1.7	76
71	Novel protein-repellent dental adhesive containing 2-methacryloyloxyethyl phosphorylcholine. <i>Journal of Dentistry</i> , 2014, 42, 1284-1291.	1.7	39
72	Spontaneous periodontitis is associated with metabolic syndrome in rhesus monkeys. <i>Archives of Oral Biology</i> , 2014, 59, 386-392.	0.8	4

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73	Comparison between electrochemical ELISA and spectrophotometric ELISA for the detection of dentine sialophosphoprotein for root resorption. American Journal of Orthodontics and Dentofacial Orthopedics, 2014, 145, 36-40.	0.8	15
74	Use of Forsus fatigue-resistant device in a patient with Class I malocclusion and mandibular incisor agenesis. American Journal of Orthodontics and Dentofacial Orthopedics, 2014, 145, 817-827.	0.8	6
75	Effects of dual antibacterial agents MDPB and nano-silver in primer on microcosm biofilm, cytotoxicity and dentine bond properties. Journal of Dentistry, 2013, 41, 464-474.	1.7	138
76	Effect of water-ageing on dentine bond strength and anti-biofilm activity of bonding agent containing new monomer dimethylaminododecyl methacrylate. Journal of Dentistry, 2013, 41, 504-513.	1.7	100
77	Dual antibacterial agents of nano-silver and 12-methacryloyloxydodecylpyridinium bromide in dental adhesive to inhibit caries. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 929-938.	1.6	80
78	Dynamic stress relaxation of orthodontic thermoplastic materials in a simulated oral environment. Dental Materials Journal, 2013, 32, 946-951.	0.8	77
79	Permeable resin applied to surface of sealed demineralized enamel. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 250-252.	0.4	0