

Yuxing Bai

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,386
citations

186265

28
h-index

233421

45
g-index

79
all docs

79
docs citations

79
times ranked

2774
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced smart biomaterials and constructs for hard tissue engineering and regeneration. Bone Research, 2018, 6, 31.	11.4	206
2	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.	4.1	138
3	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.	4.1	100
4	<p></p>Novel nanomaterial-based antibacterial photodynamic therapies to combat oral bacterial biofilms and infectious diseases</p>. International Journal of Nanomedicine, 2019, Volume 14, 6937-6956.	6.7	99
5	Protein-repellent and antibacterial dental composite to inhibit biofilms and caries. Journal of Dentistry, 2015, 43, 225-234.	4.1	81
6	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.	3.4	80
7	Dynamic stress relaxation of orthodontic thermoplastic materials in a simulated oral environment. Dental Materials Journal, 2013, 32, 946-951.	1.8	77
8	Development of a multifunctional adhesive system for prevention of root caries and secondary caries. Dental Materials, 2015, 31, 1119-1131.	3.5	77
9	Casein phosphopeptide-amorphous calcium phosphate remineralization of primary teeth early enamel lesions. Journal of Dentistry, 2014, 42, 21-29.	4.1	76
10	MicroRNA-21 promotes osteogenesis of bone marrow mesenchymal stem cells via the Smad7-Smad1/5/8-Runx2 pathway. Biochemical and Biophysical Research Communications, 2017, 493, 928-933.	2.1	67
11	Effect of calcium phosphate nanocomposite on in vitro remineralization of human dentin lesions. Dental Materials, 2017, 33, 1033-1044.	3.5	67
12	Aspirin inhibits LPS-induced macrophage activation via the NF- κ B pathway. Scientific Reports, 2017, 7, 11549.	3.3	58
13	Development of novel dental adhesive with double benefits of protein-repellent and antibacterial capabilities. Dental Materials, 2015, 31, 845-854.	3.5	54
14	Aspirin inhibits RANKL-induced osteoclast differentiation in dendritic cells by suppressing NF- κ B and NFATc1 activation. Stem Cell Research and Therapy, 2019, 10, 375.	5.5	47
15	Novel dental adhesive with triple benefits of calcium phosphate recharge, protein-repellent and antibacterial functions. Dental Materials, 2017, 33, 553-563.	3.5	43
16	Protein-repellent and antibacterial functions of a calcium phosphate rechargeable nanocomposite. Journal of Dentistry, 2016, 52, 15-22.	4.1	41
17	Novel dental adhesive resin with crack self-healing, antimicrobial and remineralization properties. Journal of Dentistry, 2018, 75, 48-57.	4.1	40
18	Novel protein-repellent dental adhesive containing 2-methacryloyloxyethyl phosphorylcholine. Journal of Dentistry, 2014, 42, 1284-1291.	4.1	39

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19	Do Dental Resin Composites Accumulate More Oral Biofilms and Plaque than Amalgam and Glass Ionomer Materials?. <i>Materials</i> , 2016, 9, 888.	2.9	39
20	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.	4.1	39
21	Antibacterial and protein-repellent orthodontic cement to combat biofilms and white spot lesions. <i>Journal of Dentistry</i> , 2015, 43, 1529-1538.	4.1	37
22	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.	7.3	37
23	Nanostructured Polymeric Materials with Protein-Repellent and Anti-Caries Properties for Dental Applications. <i>Nanomaterials</i> , 2018, 8, 393.	4.1	36
24	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.	4.1	35
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.	1.9	34
26	Bioactive Dental Composites and Bonding Agents Having Remineralizing and Antibacterial Characteristics. <i>Dental Clinics of North America</i> , 2017, 61, 669-687.	1.8	33
27	Transit amplifying cells coordinate mouse incisor mesenchymal stem cell activation. <i>Nature Communications</i> , 2019, 10, 3596.	12.8	31
28	Bite Force Transducers and Measurement Devices. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 665081.	4.1	31
29	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.	1.7	30
30	Osteogenic stimulation of human dental pulp stem cells with a novel gelatin-chitosan-hydroxyapatite-tricalcium phosphate scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1851-1861.	4.0	30
31	Protein-repellent and antibacterial effects of a novel polymethyl methacrylate resin. <i>Journal of Dentistry</i> , 2018, 79, 39-45.	4.1	30
32	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.	2.3	27
33	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.	3.5	27
34	Novel Dental Cement to Combat Biofilms and Reduce Acids for Orthodontic Applications to Avoid Enamel Demineralization. <i>Materials</i> , 2016, 9, 413.	2.9	26
35	Novel multifunctional dental cement to prevent enamel demineralization near orthodontic brackets. <i>Journal of Dentistry</i> , 2017, 64, 58-67.	4.1	23
36	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.	6.7	23

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37	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.	4.1	23
38	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.	1.7	23
39	<i>S. mutans</i> 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.	4.1	23
40	Current Insights into the Modulation of Oral Bacterial Degradation of Dental Polymeric Restorative Materials. <i>Materials</i> , 2017, 10, 507.	2.9	22
41	Novel proteinâ€‘repellent and biofilmâ€‘repellent orthodontic cement containing 2â€‘methacryloyloxyethyl phosphorylcholine. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 949-959.	3.4	21
42	Microarray gene expression of periosteum in spontaneous bone regeneration of mandibular segmental defects. <i>Scientific Reports</i> , 2017, 7, 13535.	3.3	19
43	Photobiomodulation with 808-nm diode laser enhances gingival wound healing by promoting migration of human gingival mesenchymal stem cells via ROS/JNK/NF-Î²B/MMP-1 pathway. <i>Lasers in Medical Science</i> , 2020, 35, 1831-1839.	2.1	19
44	Collagen/nano-sized Î²-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.	0.4	17
45	D-Mannose Enhanced Immunomodulation of Periodontal Ligament Stem Cells via Inhibiting IL-6 Secretion. <i>Stem Cells International</i> , 2018, 2018, 1-11.	2.5	16
46	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.	1.8	16
47	Comparison between electrochemical ELISA and spectrophotometric ELISA for the detection of dentine sialophosphoprotein for root resorption. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2014, 145, 36-40.	1.7	15
48	Developing a New Generation of Therapeutic Dental Polymers to Inhibit Oral Biofilms and Protect Teeth. <i>Materials</i> , 2018, 11, 1747.	2.9	14
49	Osteoclastic effects of mBMMSCs under compressive pressure during orthodontic tooth movement. <i>Stem Cell Research and Therapy</i> , 2021, 12, 148.	5.5	14
50	Effects of transverse relationships between maxillary arch, mouth, and face on smile esthetics. <i>Angle Orthodontist</i> , 2016, 86, 135-141.	2.4	12
51	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.	8.6	12
52	Gelatin reduced Graphene Oxide Nanosheets as Kartogenin Nanocarrier Induces Rat ADSCs Chondrogenic Differentiation Combining with Autophagy Modification. <i>Materials</i> , 2021, 14, 1053.	2.9	12
53	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.	1.8	11
54	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.	3.1	11

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55	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.	4.1	11
56	Novel rechargeable calcium phosphate nanoparticle-filled dental cement. <i>Dental Materials Journal</i> , 2019, 38, 1-10.	1.8	10
57	Novel orthodontic cement containing dimethylaminohexadecyl methacrylate with strong antibacterial capability. <i>Dental Materials Journal</i> , 2017, 36, 669-676.	1.8	9
58	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.	3.4	9
59	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.	15.6	9
60	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.	3.1	8
61	Novel self-etching and antibacterial orthodontic adhesive containing dimethylaminohexadecyl methacrylate to inhibit enamel demineralization. <i>Dental Materials Journal</i> , 2018, 37, 555-561.	1.8	7
62	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.	1.7	7
63	Use of Forsus fatigue-resistant device in a patient with Class I malocclusion and mandibular incisor agenesis. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2014, 145, 817-827.	1.7	6
64	Novel self-etch adhesive with antibacterial and protein-repellent functions to prevent enamel demineralization. <i>Dental Materials Journal</i> , 2018, 37, 904-911.	1.8	6
65	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.	2.7	6
66	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.	1.7	6
67	PTH1R signalling regulates the mechanotransduction process of cementoblasts under cyclic tensile stress. <i>European Journal of Orthodontics</i> , 2018, 40, 537-543.	2.4	5
68	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.	1.9	5
69	Collagen/ β -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.	3.4	5
70	Spontaneous periodontitis is associated with metabolic syndrome in rhesus monkeys. <i>Archives of Oral Biology</i> , 2014, 59, 386-392.	1.8	4
71	The long observation <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.	1.8	4
72	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.	1.7	3

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73	Maxillary protraction using customized mini-plates for anchorage in an adolescent girl with skeletal Class III malocclusion. Korean Journal of Orthodontics, 2020, 50, 346-355.	2.3	3
74	Optimization of clinically applied orthodontic archwire electrothermal treatment conditions by heat tint and mechanical properties: An experimental study. International Orthodontics, 2020, 18, 137-146.	1.9	2
75	Salivary microbial changes during the first 6 months of orthodontic treatment. PeerJ, 2020, 8, e10446.	2.0	2
76	Mangiferin promotes the osteogenic differentiation of human periodontal ligament stem cells via TGF β ¹ /SMAD2 signaling. Molecular Medicine Reports, 2022, 26, .	2.4	1
77	Permeable resin applied to surface of sealed demineralized enamel. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 250-252.	1.0	0
78	The effect of electro-thermal treatment of stainless steel arch wire on mechanical properties and cell proliferation. Australasian Orthodontic Journal, 2020, 36, 75-86.	0.3	0
79	THREE-DIMENSIONAL ASSESSMENT OF THE SAGITTAL CONDYLAR INCLINATION IN SKELETAL CLASS II PATIENTS BASED ON COMPUTER AIDED DIAGNOSIS AXIOGRAPH AND CONE-BEAM COMPUTED TOMOGRAPHY. Journal of Mechanics in Medicine and Biology, 2021, 21, 2140016.	0.7	0