Jiyao Li

List of Publications by Year in descending order

84 papers	3,035 citations	172207 29 h-index	197535 49 g-index
87 all docs	87 docs citations	87 times ranked	3192 citing authors

#	Article	IF	Citations
1	Hydroxyapatite-anchored dendrimer for in situ remineralization of human tooth enamel. Biomaterials, 2013, 34, 5036-5047.	5.7	158
2	Phylogenetic and functional gene structure shifts of the oral microbiomes in periodontitis patients. ISME Journal, 2014, 8, 1879-1891.	4.4	157
3	Saliva is a nonâ€negligible factor in the spread of COVIDâ€19. Molecular Oral Microbiology, 2020, 35, 141-145.	1.3	136
4	Bioinspired intrafibrillar mineralization of human dentine by PAMAM dendrimer. Biomaterials, 2013, 34, 6738-6747.	5.7	122
5	Molecule Targeting Glucosyltransferase Inhibits Streptococcus mutans Biofilm Formation and Virulence. Antimicrobial Agents and Chemotherapy, 2016, 60, 126-135.	1.4	117
6	Advances in polymeric materials for dental applications. Polymer Chemistry, 2017, 8, 807-823.	1.9	101
7	Preliminary analysis of salivary microbiome and their potential roles in oral lichen planus. Scientific Reports, 2016, 6, 22943.	1.6	99
8	Oral health in China: from vision to action. International Journal of Oral Science, 2018, 10, 1.	3.6	74
9	Regulation of oxidative response and extracellular polysaccharide synthesis by a diadenylate cyclase in <scp>S</scp>treptococcus mutans. Environmental Microbiology, 2016, 18, 904-922.	1.8	72
10	Regeneration of biomimetic hydroxyapatite on etched human enamel by anionic PAMAM template in vitro. Archives of Oral Biology, 2013, 58, 975-980.	0.8	69
11	Modulated regeneration of acid-etched human tooth enamel by a functionalized dendrimer that is an analog of amelogenin. Acta Biomaterialia, 2014, 10, 4437-4446.	4.1	67
12	Candida albicans promotes tooth decay by inducing oral microbial dysbiosis. ISME Journal, 2021, 15, 894-908.	4.4	67
13	Oral Microbiota Distinguishes Acute Lymphoblastic Leukemia Pediatric Hosts from Healthy Populations. PLoS ONE, 2014, 9, e102116.	1.1	61
14	Triclosan-loaded poly(amido amine) dendrimer for simultaneous treatment and remineralization of human dentine. Colloids and Surfaces B: Biointerfaces, 2014, 115, 237-243.	2.5	52
15	Identification and Functional Analysis of Genome Mutations in a Fluoride-Resistant Streptococcus mutans Strain. PLoS ONE, 2015, 10, e0122630.	1.1	52
16	Dental remineralization via poly(amido amine) and restorative materials containing calcium phosphate nanoparticles. International Journal of Oral Science, 2019, 11, 15.	3.6	52
17	Infection Micromilieuâ€Activated Nanocatalytic Membrane for Orchestrating Rapid Sterilization and Stalled Chronic Wound Regeneration. Advanced Functional Materials, 2022, 32, 2109469.	7.8	51
18	High-resolution X-ray microdiffraction analysis of natural teeth. Journal of Synchrotron Radiation, 2008, 15, 235-238.	1.0	48

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19	Dentin remineralization in acid challenge environment via PAMAM and calcium phosphate composite. Dental Materials, 2016, 32, 1429-1440.	1.6	47
20	Effective dentin restorative material based on phosphate-terminated dendrimer as artificial protein. Colloids and Surfaces B: Biointerfaces, 2015, 128, 304-314.	2.5	46
21	Ecological Effect of Arginine on Oral Microbiota. Scientific Reports, 2017, 7, 7206.	1.6	46
22	Remineralization of Demineralized Dentin Induced by Amineâ€Terminated PAMAM Dendrimer. Macromolecular Materials and Engineering, 2015, 300, 107-117.	1.7	44
23	8DSS-promoted remineralization of demineralized dentin in vitro. Journal of Materials Chemistry B, 2015, 3, 6763-6772.	2.9	39
24	Biomimetic Remineralization of Human Enamel in the Presence of Polyamidoamine Dendrimers in vitro. Caries Research, 2015, 49, 282-290.	0.9	39
25	Poly (amido amine) and nano-calcium phosphate bonding agent to remineralize tooth dentin in cyclic artificial saliva/lactic acid. Materials Science and Engineering C, 2017, 72, 7-17.	3.8	38
26	One-step phosphorylated poly(amide-amine) dendrimer loaded with apigenin for simultaneous remineralization and antibacterial of dentine. Colloids and Surfaces B: Biointerfaces, 2018, 172, 760-768.	2.5	37
27	Efficacy of fluorides and CPP-ACP vs fluorides monotherapy on early caries lesions: A systematic review and meta-analysis. PLoS ONE, 2018, 13, e0196660.	1.1	37
28	Dentin remineralization via adhesive containing amorphous calcium phosphate nanoparticles in a biofilm-challenged environment. Journal of Dentistry, 2019, 89, 103193.	1.7	35
29	Sequential macrophage transition facilitates endogenous bone regeneration induced by Zn-doped porous microcrystalline bioactive glass. Journal of Materials Chemistry B, 2021, 9, 2885-2898.	2.9	34
30	A GntR Family Transcription Factor in Streptococcus mutans Regulates Biofilm Formation and Expression of Multiple Sugar Transporter Genes. Frontiers in Microbiology, 2019, 9, 3224.	1.5	33
31	Up-regulation of gasdermin C in mouse small intestine is associated with lytic cell death in enterocytes in worm-induced type 2 immunity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	33
32	Streptococcus mutans copes with heat stress by multiple transcriptional regulons modulating virulence and energy metabolism. Scientific Reports, 2015, 5, 12929.	1.6	31
33	Bio-inspired peptide decorated dendrimers for a robust antibacterial coating on hydroxyapatite. Polymer Chemistry, 2017, 8, 4264-4279.	1.9	31
34	Bioinspired heptapeptides as functionalized mineralization inducers with enhanced hydroxyapatite affinity. Journal of Materials Chemistry B, 2018, 6, 1984-1994.	2.9	31
35	Effective dentinal tubule occlusion induced by polyhydroxy-terminated PAMAM dendrimer in vitro. RSC Advances, 2014, 4, 43496-43503.	1.7	30
36	Biomimetic mineralization of collagen fibrils induced by amine-terminated PAMAM dendrimers â€“ PAMAM dendrimers for remineralization. Journal of Biomaterials Science, Polymer Edition, 2015, 26, 963-974.	1.9	30

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37	Long-term dentin remineralization by poly(amido amine) and rechargeable calcium phosphate nanocomposite after fluid challenges. Dental Materials, 2018, 34, 607-618.	1.6	30
38	Poly (amido amine) dendrimer and dental adhesive with calcium phosphate nanoparticles remineralized dentin in lactic acid. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2414-2424.	1.6	30
39	Effect of pH on Galla chinensis extract's stability and anti-caries properties in vitro. Archives of Oral Biology, 2012, 57, 1093-1099.	0.8	29
40	Effects of gallic acid on the morphology and growth of hydroxyapatite crystals. Archives of Oral Biology, 2015, 60, 167-173.	0.8	29
41	The remineralization effectiveness of PAMAM dendrimer with different terminal groups on demineralized dentin in vitro. RSC Advances, 2017, 7, 54947-54955.	1.7	29
42	Comparative effect of a stannous fluoride toothpaste and a sodium fluoride toothpaste on a multispecies biofilm. Archives of Oral Biology, 2017, 74, 5-11.	0.8	28
43	Remineralization effectiveness of the PAMAM dendrimer with different terminal groups on artificial initial enamel caries in vitro. Dental Materials, 2020, 36, 210-220.	1.6	28
44	8DSS peptide induced effective dentinal tubule occlusion in vitro. Dental Materials, 2018, 34, 629-640.	1.6	27
45	Enamel remineralization via poly(amido amine) and adhesive resin containing calcium phosphate nanoparticles. Journal of Dentistry, 2020, 92, 103262.	1.7	27
46	The Clinical Potential of Oral Microbiota as a Screening Tool for Oral Squamous Cell Carcinomas. Frontiers in Cellular and Infection Microbiology, 2021, 11, 728933.	1.8	25
47	Novel tea polyphenolâ€modified calcium phosphate nanoparticle and its remineralization potential. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1525-1531.	1.6	24
48	Bioinspired Peptide-Decorated Tannic Acid for in Situ Remineralization of Tooth Enamel: In Vitro and in Vivo Evaluation. ACS Biomaterials Science and Engineering, 2017, 3, 3553-3562.	2.6	24
49	Two-in-one strategy: a remineralizing and anti-adhesive coating against demineralized enamel. International Journal of Oral Science, 2020, 12, 27.	3.6	24
50	Taxonomic and Functional Analyses of the Supragingival Microbiome from Caries-Affected and Caries-Free Hosts. Microbial Ecology, 2018, 75, 543-554.	1.4	23
51	Preparation and characterisation of a gellan gum-based hydrogel enabling osteogenesis and inhibiting Enterococcus faecalis. International Journal of Biological Macromolecules, 2020, 165, 2964-2973.	3.6	23
52	Effect and Stability of Poly(Amido Amine)-Induced Biomineralization on Dentinal Tubule Occlusion. Materials, 2017, 10, 384.	1.3	21
53	Poly(amido amine) and rechargeable adhesive containing calcium phosphate nanoparticles for long-term dentin remineralization. Journal of Dentistry, 2019, 85, 47-56.	1.7	21
54	Investigation of Salivary Function and Oral Microbiota of Radiation Caries-Free People with Nasopharyngeal Carcinoma. PLoS ONE, 2015, 10, e0123137.	1.1	21

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55	EzrA, a cell shape regulator contributing to biofilm formation and competitiveness in Streptococcus mutans. Molecular Oral Microbiology, 2019, 34, 194-208.	1.3	20
56	Nano-calcium phosphate and dimethylaminohexadecyl methacrylate adhesive for dentin remineralization in a biofilm-challenged environment. Dental Materials, 2020, 36, e316-e328.	1.6	20
57	Computer simulations of the adsorption of an N-terminal peptide of statherin, SN15, and its mutants on hydroxyapatite surfaces. Physical Chemistry Chemical Physics, 2019, 21, 9342-9351.	1.3	19
58	Gut-Bone Axis: A Non-Negligible Contributor to Periodontitis. Frontiers in Cellular and Infection Microbiology, 2021, 11, 752708.	1.8	19
59	TAS2R16 Activation Suppresses LPS-Induced Cytokine Expression in Human Gingival Fibroblasts. Frontiers in Immunology, 2021, 12, 726546.	2.2	19
60	Poly(amido amine) and calcium phosphate nanocomposite remineralization of dentin in acidic solution without calcium phosphate ions. Dental Materials, 2017, 33, 818-829.	1.6	18
61	Probiotic Streptococcus salivarius K12 Alleviates Radiation-Induced Oral Mucositis in Mice. Frontiers in Immunology, 2021, 12, 684824.	2.2	18
62	A novel anticaries agent, honokiol-loaded poly(amido amine) dendrimer, for simultaneous long-term antibacterial treatment and remineralization of demineralized enamel. Dental Materials, 2021, 37, 1337-1349.	1.6	16
63	Effective in situ repair and bacteriostatic material of tooth enamel based on salivary acquired pellicle inspired oligomeric procyanidins. Polymer Chemistry, 2016, 7, 6761-6769.	1.9	15
64	The effect of disaggregated nano-hydroxyapatite on oral biofilm in vitro. Dental Materials, 2020, 36, e207-e216.	1.6	15
65	Fibroblast membrane-camouflaged nanoparticles for inflammation treatment in the early stage. International Journal of Oral Science, 2021, 13, 39.	3.6	15
66	Comparative analysis of the oral microbiota between iron-deficiency anaemia (IDA) patients and healthy individuals by high-throughput sequencing. BMC Oral Health, 2019, 19, 255.	0.8	13
67	Remineralization effectiveness of adhesive containing amorphous calcium phosphate nanoparticles on artificial initial enamel caries in a biofilm-challenged environment. Clinical Oral Investigations, 2021, 25, 5375-5390.	1.4	13
68	Comparison of Composition and Anticaries Effect of Galla Chinensis Extracts with Different Isolation Methods. Open Dentistry Journal, 2017, 11, 447-459.	0.2	13
69	An injectable gellan gum-based hydrogel that inhibits Staphylococcus aureus for infected bone defect repair. Journal of Materials Chemistry B, 2022, 10, 282-292.	2.9	13
70	Borate bioactive glass prevents zoledronateâ€induced osteonecrosis of the jaw by restoring osteogenesis and angiogenesis. Oral Diseases, 2020, 26, 1706-1717.	1.5	12
71	Adhesion of Streptococcus mutans on remineralized enamel surface induced by poly(amido amine) dendrimers. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111409.	2.5	12
72	Mussel-inspired self-assembly engineered implant coatings for synergistic anti-infection and osteogenesis acceleration. Journal of Materials Chemistry B, 2021, 9, 8501-8511.	2.9	12

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73	Erbium Laser Technology vs Traditional Drilling for Caries Removal: A Systematic Review with Meta-Analysis. Journal of Evidence-based Dental Practice, 2017, 17, 324-334.	0.7	11
74	Effect of Antibacterial Root Canal Sealer on Persistent Apical Periodontitis. Antibiotics, 2021, 10, 741.	1.5	11
75	Core Microbiota Promotes the Development of Dental Caries. Applied Sciences (Switzerland), 2021, 11, 3638.	1.3	10
76	Radiation caries in nasopharyngeal carcinoma patients after intensity-modulated radiation therapy: AÂcross-sectional study. Journal of Dental Sciences, 2016, 11, 1-7.	1.2	8
77	Evaluation of the ability of adhesives with antibacterial and remineralization functions to prevent secondary caries in vivo. Clinical Oral Investigations, 2022, 26, 3637-3650.	1.4	7
78	Rechargeable adhesive with calcium phosphate nanoparticles inhibited long-term dentin demineralization in a biofilm-challenged environment. Journal of Dentistry, 2021, 104, 103529.	1.7	5
79	F0F1-ATPase Contributes to the Fluoride Tolerance and Cariogenicity of Streptococcus mutans. Frontiers in Microbiology, 2021, 12, 777504.	1.5	5
80	Non-surgical removal of dens invaginatus in maxillary lateral incisor using CBCT: Two-year follow-up case report. Open Medicine (Poland), 2019, 14, 767-771.	0.6	4
81	Direct composite resin restoration of a class IV fracture by using 3D printing technology: A clinical report. Journal of Prosthetic Dentistry, 2021, 125, 555-559.	1.1	4
82	Dentin remineralization in acidic solution without initial calcium phosphate ions via poly(amido) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 2022, 26, 1517-1530.	1.4	4
83	A small molecule II-6s inhibits Enterococcus faecalis biofilms. Journal of Oral Microbiology, 2021, 13, 1978756.	1.2	3
84	Regulation of Cell Division in Streptococci: Comparing with the Model Rods. Current Issues in Molecular Biology, 2019, 32, 259-326.	1.0	0