

Tao Jiang

List of Publications by Year in descending order

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79
papers

2,460
citations

186265
28
h-index

214800
47
g-index

79
all docs

79
docs citations

79
times ranked

3072
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of desensitising toothpastes on dentinal tubule occlusion: A dentine permeability measurement and SEM in vitro study. <i>Journal of Dentistry</i> , 2010, 38, 400-410.	4.1	141
2	Surface Functionalization of Titanium with Chitosan/Gelatin via Electrophoretic Deposition: Characterization and Cell Behavior. <i>Biomacromolecules</i> , 2010, 11, 1254-1260.	5.4	138
3	Surface alteration of human tooth enamel subjected to acidic and neutral 30% hydrogen peroxide. <i>Journal of Dentistry</i> , 2011, 39, 686-692.	4.1	118
4	A background elimination method based on wavelet transform for Raman spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 85, 94-101.	3.5	108
5	Effects of Two In-Office Bleaching Agents with Different pH on the Structure of Human Enamel: An In Situ and In Vitro Study. <i>Operative Dentistry</i> , 2013, 38, 100-110.	1.2	97
6	Investigation of the effects of 30% hydrogen peroxide on human tooth enamel by Raman scattering and laser-induced fluorescence. <i>Journal of Biomedical Optics</i> , 2008, 13, 014019.	2.6	92
7	Are different crystallinity-index-calculating methods of hydroxyapatite efficient and consistent?. <i>New Journal of Chemistry</i> , 2017, 41, 5723-5731.	2.8	83
8	Dentine remineralization induced by two bioactive glasses developed for air abrasion purposes. <i>Journal of Dentistry</i> , 2011, 39, 746-756.	4.1	78
9	Low temperature electrophoretic deposition of porous chitosan/silk fibroin composite coating for titanium biofunctionalization. <i>Journal of Materials Chemistry</i> , 2011, 21, 7705.	6.7	77
10	Effects of Hydrogen Peroxide on Human Dentin Structure. <i>Journal of Dental Research</i> , 2007, 86, 1040-1045.	5.2	73
11	Amphiphilic polycarbonate conjugates of doxorubicin with pH-sensitive hydrazone linker for controlled release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 542-548.	5.0	70
12	The dentine remineralization activity of a desensitizing bioactive glass-containing toothpaste: an in vitro study. <i>Australian Dental Journal</i> , 2011, 56, 372-381.	1.5	68
13	Evaluation of the efficacy of potassium nitrate and sodium fluoride as desensitizing agents during tooth bleaching treatment—A systematic review and meta-analysis. <i>Journal of Dentistry</i> , 2015, 43, 913-923.	4.1	65
14	Effects of two in-office bleaching agents with different pH values on enamel surface structure and color: An in situ vs. in vitro study. <i>Journal of Dentistry</i> , 2012, 40, e26-e34.	4.1	62
15	Evaluation of the esthetic effect of resin cements and try-in pastes on ceromer veneers. <i>Journal of Dentistry</i> , 2010, 38, e87-e94.	4.1	50
16	Extended Bleaching of Tetracycline-Stained Teeth: A 5-Year Study. <i>Operative Dentistry</i> , 2006, 31, 643-651.	1.2	45
17	Beneficial effects of hydroxyapatite on enamel subjected to 30% hydrogen peroxide. <i>Journal of Dentistry</i> , 2008, 36, 907-914.	4.1	45
18	Homogeneous chitosan/carbonate apatite/citric acid nanocomposites prepared through a novel in situ precipitation method. <i>Composites Science and Technology</i> , 2007, 67, 2238-2245.	7.8	43

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19	Roles of bone scintigraphy and resonance frequency analysis in evaluating osseointegration of endosseous implant. <i>Biomaterials</i> , 2008, 29, 461-474.	11.4	43
20	Compositional, structural and mechanical comparisons of normal enamel and hypomaturation enamel. <i>Acta Biomaterialia</i> , 2014, 10, 5169-5177.	8.3	43
21	Facile synthesis of anisotropic porous chitosan/hydroxyapatite scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry</i> , 2011, 21, 12015.	6.7	37
22	Evaluation of the attachment, proliferation, and differentiation of osteoblast on a calcium carbonate coating on titanium surface. <i>Materials Science and Engineering C</i> , 2011, 31, 1055-1061.	7.3	34
23	Surface functionalization with strontium-containing nanocomposite coatings via EPD. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 97-106.	5.0	34
24	Separate contribution of enamel and dentine to overall tooth colour change in tooth bleaching. <i>Journal of Dentistry</i> , 2011, 39, 739-745.	4.1	33
25	Osteogenetic property of a biodegradable three-dimensional macroporous hydrogel coating on titanium implants fabricated via EPD. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 015008.	3.3	32
26	Surface functionalization of titanium with tetracycline loaded chitosan-gelatin nanosphere coatings via EPD: fabrication, characterization and mechanism. <i>RSC Advances</i> , 2016, 6, 7674-7682.	3.6	30
27	Regulating the gaps between folds on the surface of silk fibroin membranes via LBL deposition for improving their biomedical properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 228-238.	5.0	30
28	A versatile and injectable poly(methyl methacrylate) cement functionalized with quaternized chitosan-glycerophosphate/nanosized hydroxyapatite hydrogels. <i>Materials Science and Engineering C</i> , 2018, 90, 264-272.	7.3	30
29	Minimally Invasive Treatment for Esthetic Management of Severe Dental Fluorosis: A Case Report. <i>Operative Dentistry</i> , 2013, 38, 358-362.	1.2	29
30	Classification of normal and malignant human gastric mucosa tissue with confocal Raman microspectroscopy and wavelet analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 69, 378-382.	3.9	28
31	Amphiphilic copolymers with pendent carboxyl groups for high-efficiency loading and controlled release of doxorubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 132, 54-61.	5.0	27
32	Investigation of three home-applied bleaching agents on enamel structure and mechanical properties: an in situ study. <i>Journal of Biomedical Optics</i> , 2012, 17, 035002.	2.6	26
33	Enhanced antibacterial activity and biocompatibility of zinc-incorporated organic-inorganic nanocomposite coatings via electrophoretic deposition. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 628-638.	5.0	26
34	Evaluation of antibacterial, angiogenic, and osteogenic activities of green synthesized gap-bridging copper-doped nanocomposite coatings. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 7483-7500.	6.7	26
35	Hydrogen Peroxide Might Bleach Natural Dentin by Oxidizing Phosphoprotein. <i>Journal of Dental Research</i> , 2018, 97, 1339-1345.	5.2	24
36	The fabrication of double-layered chitosan/gelatin/genipin nanosphere coating for sequential and controlled release of therapeutic proteins. <i>Biofabrication</i> , 2017, 9, 025028.	7.1	23

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37	Fabrication and characterization of Mg-doped chitosan-gelatin nanocompound coatings for titanium surface functionalization. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 954-971.	3.5	21
38	In Vitro and In Vivo Evaluation of Tetracycline Loaded Chitosan-Gelatin Nanosphere Coatings for Titanium Surface Functionalization. <i>Macromolecular Bioscience</i> , 2017, 17, 1600130.	4.1	21
39	Studies on induction of l-aspartic acid modified chitosan to crystal growth of the calcium phosphate in supersaturated calcification solution by quartz crystal microbalance. <i>Biosensors and Bioelectronics</i> , 2006, 22, 291-297.	10.1	20
40	Beneficial effects of biomimetic nano-sized hydroxyapatite/antibiotic gentamicin enriched chitosan-glycerophosphate hydrogel on the performance of injectable polymethylmethacrylate. <i>RSC Advances</i> , 2015, 5, 91082-91092.	3.6	20
41	Effects of Leukemia Inhibitory Factor on Proliferation and Odontoblastic Differentiation of Human Dental Pulp Cells. <i>Journal of Endodontics</i> , 2011, 37, 819-824.	3.1	19
42	Polycarboxylated microfillers incorporated into light-curable resin-based dental adhesives evoke remineralization at the mineral-depleted dentin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 679-697.	3.5	19
43	Preparation and functionalization of acetylsalicylic acid loaded chitosan/gelatin membranes from ethanol-based suspensions via electrophoretic deposition. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2304-2314.	5.8	19
44	Biomimetic regulation of dentine remineralization by amino acid in vitro. <i>Dental Materials</i> , 2019, 35, 298-309.	3.5	19
45	Stat3 is involved in the motility, metastasis and prognosis in lingual squamous cell carcinoma. <i>Cell Biochemistry and Function</i> , 2012, 30, 340-346.	2.9	18
46	Folate-conjugated amphiphilic block copolymers for targeted and efficient delivery of doxorubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 115, 253-259.	5.0	18
47	A green single-step procedure to synthesize Ag-containing nanocomposite coatings with low cytotoxicity and efficient antibacterial properties. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 3665-3679.	6.7	18
48	Optical properties of enamel and translucent composites by diffuse reflectance measurements. <i>Journal of Dentistry</i> , 2012, 40, e40-e47.	4.1	17
49	Synthesis and characterization of an injectable and self-curing poly(methyl methacrylate) cement functionalized with a biomimetic chitosan-poly(vinyl alcohol)/nano-sized hydroxyapatite/silver hydrogel. <i>RSC Advances</i> , 2016, 6, 60609-60619.	3.6	17
50	A new implant with solid core and porous surface: The biocompatibility with bone. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2395-2407.	4.0	16
51	Biodegradable amphiphilic block-graft copolymers based on methoxy poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 18 <i>Materials Science: Materials in Medicine</i> , 2014, 25, 131-139.	3.6	16
52	Evaluation of the osseointegration of dental implants coated with calcium carbonate: an animal study. <i>International Journal of Oral Science</i> , 2017, 9, 133-138.	8.6	16
53	Effect of in-office bleaching agents on the color changes of stained ceromers and direct composite resins. <i>Acta Odontologica Scandinavica</i> , 2014, 72, 1032-1038.	1.6	13
54	A thermosensitive chitosan-based hydrogel for sealing and lubricating purposes in dental implant system. <i>Clinical Implant Dentistry and Related Research</i> , 2019, 21, 324-335.	3.7	12

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55	Effects of tooth bleaching on the color and translucency properties of enamel. American Journal of Dentistry, 2009, 22, 324-8.	0.1	12
56	<i>In vitro</i> evaluation of halogen light-activated vs chemically activated in-office bleaching systems. Acta Odontologica Scandinavica, 2013, 71, 1149-1155.	1.6	11
57	Bone regeneration in critically sized rat mandible defects through the endochondral pathway using hydroxyapatite-coated 3D-printed Ti _{6Al₄V} scaffolds. RSC Advances, 2018, 8, 31745-31754.	3.6	11
58	Intrauterine RAS programming alteration-mediated susceptibility and heritability of temporal lobe epilepsy in male offspring rats induced by prenatal dexamethasone exposure. Archives of Toxicology, 2020, 94, 3201-3215.	4.2	11
59	Nerve-targeted desensitizing toothpastes occlude dentin tubules and induce mineral precipitation. American Journal of Dentistry, 2012, 25, 26-30.	0.1	10
60	Effect of halogen light irradiation on hydrogen peroxide bleaching: an <i>in vitro</i> study. Australian Dental Journal, 2012, 57, 277-283.	1.5	9
61	Effects of different concentrations and exposure time of sodium hypochlorite on the structural, compositional and mechanical properties of human dentin. Journal of Huazhong University of Science and Technology [Medical Sciences], 2017, 37, 568-576.	1.0	9
62	Expression of LIF and LIFR in periodontal tissue during orthodontic tooth movement. Angle Orthodontist, 2011, 81, 600-608.	2.4	8
63	Evaluation of the effectiveness of micro-Raman spectroscopy in monitoring the mineral contents change of human enamel <i>in vitro</i> . Lasers in Medical Science, 2017, 32, 985-991.	2.1	8
64	New Insights into Effects of Aromatic Amino Acids on Hydroxyapatite. Journal of Dental Research, 2018, 97, 402-408.	5.2	8
65	Bioactive calcium phosphate cement with excellent injectability, mineralization capacity and drug-delivery properties for dental biomimetic reconstruction and minimum intervention therapy. RSC Advances, 2016, 6, 27349-27359.	3.6	7
66	Roles of a new drug-delivery healing abutment in the prevention and treatment of peri-implant infections: a preliminary study. RSC Advances, 2018, 8, 38836-38843.	3.6	7
67	Identification of the CXCL12/CXCR4/CXCR7 axis as a potential therapeutic target for immunomodulating macrophage polarization and foreign body response to implanted biomaterials. Applied Materials Today, 2020, 18, 100454.	4.3	5
68	In Situ Monitoring the Growth of HAP Crystal on the Surface of Ti/TiO ₂ in SBF with a Quartz Crystal Microbalance. Key Engineering Materials, 2007, 330-332, 717-720.	0.4	3
69	Discrimination of Squamous Cell Carcinoma of the Oral Cavity Using Raman Spectroscopy and Chemometric Analysis. , 2008, , .		3
70	Biomimetic remineralization of human dentine via a "bottom-up" approach inspired by nacre formation. Materials Science and Engineering C, 2022, 135, 112670.	7.3	3
71	Three-Dimensional Culture of Human Periodontal Ligament Cells on Highly Porous Polyglycolic Acid Scaffolds <i>in vitro</i> . , 2005, 2005, 4908-11.		2
72	Discrimination of Squamous Cell Carcinoma of the Oral Cavity Using Confocal Raman Microspectroscopy and BP-Chaos Networks. , 2009, , .		1

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73	Bone tissue response to the bone-like tissue coating on titanium. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 203-209.	1.0	1
74	Two-year observation of the occlusal vertical dimension after bite raising via cone-beam computerized tomography: A preliminary study. Scientific Reports, 2019, 9, 3509.	3.3	1
75	A Pilot Study About the Effect of Laser-Induced Fluorescence on Color and Translucency of Human Enamel During Tooth Bleaching. Photobiomodulation, Photomedicine, and Laser Surgery, 2020, 38, 151-159.	1.4	1
76	Mesoporous calcium silicate nanoparticles for superficial dental tissue reconstruction, <i>in vitro</i> and <i>in vivo</i> . RSC Advances, 2021, 11, 24681-24693.	3.6	1
77	Mechanoluminescence from an Ion-Irradiated Single Crystal of Lithium Niobium Oxide. Journal of Physical Chemistry Letters, 2022, 13, 5394-5398.	4.6	1
78	Classification of Squamous Cell Carcinoma of the Oral Cavity Using Wavelet Analysis and BP-Chaos Networks. , 2009, , .		0
79	Validation of the laser-induced fluorescence effect of aromatic amino acids, protoporphyrin IX, and tetracycline hydrochloride on hydroxyapatite. Journal of Raman Spectroscopy, 2020, 51, 2447-2457.	2.5	0