Hockin H K Xu

List of Publications by Year
in descending order

289 papers	14,471 citations	14655 66 h-index	32842 100 g-index
291 all docs	291 docs citations	291 times ranked	10038 citing authors

#	Article	IF	Citations
1	Novel calcium phosphate ion-rechargeable and antibacterial adhesive to inhibit dental caries. Clinical Oral Investigations, 2022, 26, 313-323.	3.0	7
2	Dentin remineralization in acidic solution without initial calcium phosphate ions via poly(amido) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 2022, 26, 1517-1530.	3.0	4
3	Novel low-shrinkage-stress bioactive nanocomposite with anti-biofilm and remineralization capabilities to inhibit caries. Journal of Dental Sciences, 2022, 17, 811-821.	2.5	6
4	Novel nanostructured resin infiltrant containing calcium phosphate nanoparticles to prevent enamel white spot lesions. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 104990.	3.1	11
5	Denture Acrylic Resin Material with Antibacterial and Protein-Repelling Properties for the Prevention of Denture Stomatitis. Polymers, 2022, 14, 230.	4.5	18
6	Evaluation of the ability of adhesives with antibacterial and remineralization functions to prevent secondary caries in vivo. Clinical Oral Investigations, 2022, 26, 3637-3650.	3.0	7
7	Novel dual-functional implants via oxygen non-thermal plasma and quaternary ammonium to promote osteogenesis and combat infections. Dental Materials, 2022, 38, 169-182.	3.5	5
8	Minimally-invasive dentistry via dual-function novel bioactive low-shrinkage-stress flowable nanocomposites. Dental Materials, 2022, 38, 409-420.	3.5	4
9	Novel rechargeable calcium fluoride dental nanocomposites. Dental Materials, 2022, 38, 397-408.	3.5	10
10	Low-Shrinkage Resin Matrices in Restorative Dentistry-Narrative Review. Materials, 2022, 15, 2951.	2.9	9
11	Novel rechargeable nanostructured calcium phosphate crown cement with long-term ion release and antibacterial activity to suppress saliva microcosm biofilms. Journal of Dentistry, 2022, 122, 104140.	4.1	8
12	Novel Giomers Incorporated with Antibacterial Quaternary Ammonium Monomers to Inhibit Secondary Caries. Pathogens, 2022, 11, 578.	2.8	3
13	Novel bioactive adhesive containing dimethylaminohexadecyl methacrylate and calcium phosphate nanoparticles to inhibit metalloproteinases and nanoleakage with three months of aging in artificial saliva. Dental Materials, 2022, 38, 1206-1217.	3.5	8
14	Effects of thermal cycling on mechanical and antibacterial durability of bioactive low-shrinkage-stress nanocomposite. Journal of Dentistry, 2022, , 104218.	4.1	4
15	Human periodontal ligament stem cell encapsulation in alginate-fibrin-platelet lysate microbeads for dental and craniofacial regeneration. Journal of Dentistry, 2022, 124, 104219.	4.1	4
16	Inhibition of CCL2 by bindarit alleviates diabetes-associated periodontitis by suppressing inflammatory monocyte infiltration and altering macrophage properties. Cellular and Molecular Immunology, 2021, 18, 2224-2235.	10.5	30
17	An injectable and antibacterial calcium phosphate scaffold inhibiting Staphylococcus aureus and supporting stem cells for bone regeneration. Materials Science and Engineering C, 2021, 120, 111688.	7.3	19
18	Rechargeable adhesive with calcium phosphate nanoparticles inhibited long-term dentin demineralization in a biofilm-challenged environment. Journal of Dentistry, 2021, 104, 103529.	4.1	5

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19	Antibacterial response of oral microcosm biofilm to nano-zinc oxide in adhesive resin. Dental Materials, 2021, 37, e182-e193.	3.5	31
20	Starvation Survival and Biofilm Formation under Subminimum Inhibitory Concentration of QAMs. BioMed Research International, 2021, 2021, 1-10.	1.9	6
21	Anti-caries nanostructured dental adhesive reduces biofilm pathogenicity and raises biofilm pH to protect tooth structures. Journal of Materials Research, 2021, 36, 533-546.	2.6	3
22	Review on Development and Dental Applications of Polyetheretherketone-Based Biomaterials and Restorations. Materials, 2021, 14, 408.	2.9	60
23	Antibacterial calcium phosphate cement with human periodontal ligament stem cellâ€microbeads to enhance bone regeneration and combat infection. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 232-243.	2.7	10
24	Long-term antibacterial activity and cytocompatibility of novel low-shrinkage-stress, remineralizing composites. Journal of Biomaterials Science, Polymer Edition, 2021, 32, 886-905.	3.5	7
25	Enhanced proliferation and angiogenic phenotype of endothelial cells via negatively-charged alginate and chondroitin sulfate microsphere hydrogels. Biomedical Materials (Bristol), 2021, 16, 025012.	3.3	13
26	Antibiofilm and Protein-Repellent Polymethylmethacrylate Denture Base Acrylic Resin for Treatment of Denture Stomatitis. Materials, 2021, 14, 1067.	2.9	9
27	Sustained delivery of growth factors and alendronate using partially demineralized dentin matrix for endogenous periodontal regeneration. Applied Materials Today, 2021, 22, 100922.	4.3	3
28	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.	3.0	13
29	Sustained Antibacterial Effect and Wear Behavior of Quaternary Ammonium Contact-Killing Dental Polymers after One-Year of Hydrolytic Degradation. Applied Sciences (Switzerland), 2021, 11, 3718.	2.5	7
30	Bioactive small molecules in calcium phosphate scaffold enhanced osteogenic differentiation of human induced pluripotent stem cells. Dental Materials Journal, 2021, 40, 615-624.	1.8	3
31	Effect of co-precipitation plus spray-drying of nano-CaF2 on mechanical and fluoride properties of nanocomposite. Dental Materials, 2021, 37, 1009-1019.	3.5	7
32	Effect of Antibacterial Root Canal Sealer on Persistent Apical Periodontitis. Antibiotics, 2021, 10, 741.	3.7	11
33	Magnetic motion of superparamagnetic iron oxide nanoparticles- loaded dental adhesives: physicochemical/biological properties, and dentin bonding performance studied through the tooth pulpal pressure model. Acta Biomaterialia, 2021, 134, 337-347.	8.3	11
34	A Biphasic Calcium Phosphate Cement Enhances Dentin Regeneration by Dental Pulp Stem Cells and Promotes Macrophages M2 Phenotype In Vitro. Tissue Engineering - Part A, 2021, 27, 1113-1127.	3.1	8
35	Novel calcium phosphate cement with biofilm-inhibition and platelet lysate delivery to enhance osteogenesis of encapsulated human periodontal ligament stem cells. Materials Science and Engineering C, 2021, 128, 112306.	7.3	8
36	Intelligent pH-responsive dental sealants to prevent long-term microleakage. Dental Materials, 2021, 37, 1529-1541.	3.5	11

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37	Novel Nano Calcium Fluoride Remineralizing and Antibacterial Dental Composites. Journal of Dentistry, 2021, 113, 103789.	4.1	18
38	Novel dental implant modifications with two-staged double benefits for preventing infection and promoting osseointegration in vivo and in vitro. Bioactive Materials, 2021, 6, 4568-4579.	15.6	8
39	Lowâ€shrinkageâ€stress nanocomposite: An insight into shrinkage stress, antibacterial, and ion release properties. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1124-1134.	3.4	6
40	Novel nanographene oxide-calcium phosphate cement inhibits Enterococcus faecalis biofilm and supports dental pulp stem cells. Journal of Orthopaedic Surgery and Research, 2021, 16, 580.	2.3	8
41	Human Periodontal Ligament Stem Cell and Umbilical Vein Endothelial Cell Co-Culture to Prevascularize Scaffolds for Angiogenic and Osteogenic Tissue Engineering. International Journal of Molecular Sciences, 2021, 22, 12363.	4.1	11
42	Magnetic-Responsive Photosensitizer Nanoplatform for Optimized Inactivation of Dental Caries-Related Biofilms: Technology Development and Proof of Principle. ACS Nano, 2021, 15, 19888-19904.	14.6	21
43	Two-staged time-dependent materials for the prevention of implant-related infections. Acta Biomaterialia, 2020, 101, 128-140.	8.3	48
44	Enamel remineralization via poly(amido amine) and adhesive resin containing calcium phosphate nanoparticles. Journal of Dentistry, 2020, 92, 103262.	4.1	27
45	Effects of S. mutans gene-modification and antibacterial monomer dimethylaminohexadecyl methacrylate on biofilm growth and acid production. Dental Materials, 2020, 36, 296-309.	3.5	17
46	Stem cells in the periodontal ligament differentiated into osteogenic, fibrogenic and cementogenic lineages for the regeneration of the periodontal complex. Journal of Dentistry, 2020, 92, 103259.	4.1	41
47	Remineralization effectiveness of the PAMAM dendrimer with different terminal groups on artificial initial enamel caries in vitro. Dental Materials, 2020, 36, 210-220.	3.5	28
48	Nanographene oxideâ€calcium phosphate to inhibit <scp> Staphylococcus aureus </scp> infection and support stem cells for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1779-1791.	2.7	8
49	Light Energy Dose and Photosensitizer Concentration Are Determinants of Effective Photo-Killing against Caries-Related Biofilms. International Journal of Molecular Sciences, 2020, 21, 7612.	4.1	13
50	Nano-calcium phosphate and dimethylaminohexadecyl methacrylate adhesive for dentin remineralization in a biofilm-challenged environment. Dental Materials, 2020, 36, e316-e328.	3.5	20
51	Novel CaF2 Nanocomposites with Antibacterial Function and Fluoride and Calcium Ion Release to Inhibit Oral Biofilm and Protect Teeth. Journal of Functional Biomaterials, 2020, 11, 56.	4.4	36
52	Bioactive low-shrinkage-stress nanocomposite suppresses S. mutans biofilm and preserves tooth dentin hardness. Acta Biomaterialia, 2020, 114, 146-157.	8.3	32
53	Emerging Contact-Killing Antibacterial Strategies for Developing Anti-Biofilm Dental Polymeric Restorative Materials. Bioengineering, 2020, 7, 83.	3.5	39
54	In vitro evaluation of composite containing DMAHDM and calcium phosphate nanoparticles on recurrent caries inhibition at bovine enamel-restoration margins. Dental Materials, 2020, 36, 1343-1355.	3.5	23

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55	Novel Crown Cement Containing Antibacterial Monomer and Calcium Phosphate Nanoparticles. Nanomaterials, 2020, 10, 2001.	4.1	21
56	Regulating Oral Biofilm from Cariogenic State to Non-Cariogenic State via Novel Combination of Bioactive Therapeutic Composite and Gene-Knockout. Microorganisms, 2020, 8, 1410.	3.6	3
57	Novel Nanocomposite Inhibiting Caries at the Enamel Restoration Margins in an In Vitro Saliva-Derived Biofilm Secondary Caries Model. International Journal of Molecular Sciences, 2020, 21, 6369.	4.1	15
58	An antibacterial and injectable calcium phosphate scaffold delivering human periodontal ligament stem cells for bone tissue engineering. RSC Advances, 2020, 10, 40157-40170.	3.6	14
59	Biocompatible Nanocomposite Enhanced Osteogenic and Cementogenic Differentiation of Periodontal Ligament Stem Cells In Vitro for Periodontal Regeneration. Materials, 2020, 13, 4951.	2.9	12
60	Anti-caries effect of resin infiltrant modified by quaternary ammonium monomers. Journal of Dentistry, 2020, 97, 103355.	4.1	23
61	Multifunctional antibacterial dental sealants suppress biofilms derived from children at high risk of caries. Biomaterials Science, 2020, 8, 3472-3484.	5.4	23
62	Novel low-shrinkage-stress nanocomposite with remineralization and antibacterial abilities to protect marginal enamel under biofilm. Journal of Dentistry, 2020, 99, 103406.	4.1	26
63	Novel pit and fissure sealant containing nano-CaF2 and dimethylaminohexadecyl methacrylate with double benefits of fluoride release and antibacterial function. Dental Materials, 2020, 36, 1241-1253.	3.5	37
64	Concentration dependence of quaternary ammonium monomer on the design of high-performance bioactive composite for root caries restorations. Dental Materials, 2020, 36, e266-e278.	3.5	35
65	Novel antibacterial and therapeutic dental polymeric composites with the capability to self-heal cracks and regain mechanical properties. European Polymer Journal, 2020, 129, 109604.	5.4	11
66	Novel Bioactive and Therapeutic Root Canal Sealers with Antibacterial and Remineralization Properties. Materials, 2020, 13, 1096.	2.9	27
67	Dimethylaminododecyl methacrylate inhibits Candida albicans and oropharyngeal candidiasis in a pH-dependent manner. Applied Microbiology and Biotechnology, 2020, 104, 3585-3595.	3.6	17
68	Tooth sealing formulation with bacteriaâ€killing surface and onâ€demand ion release/recharge inhibits early childhood caries key pathogens. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 3217-3227.	3.4	16
69	Effects of novel non-thermal atmospheric plasma treatment of titanium on physical and biological improvements and in vivo osseointegration in rats. Scientific Reports, 2020, 10, 10637.	3.3	13
70	Resumptive Streptococcus mutans Persisters Induced From Dimethylaminododecyl Methacrylate Elevated the Cariogenic Virulence by Up-Regulating the Quorum-Sensing and VicRK Pathway Genes. Frontiers in Microbiology, 2020, 10, 3102.	3.5	9
71	Cutting-edge filler technologies to release bio-active components for restorative and preventive dentistry. Dental Materials Journal, 2020, 39, 69-79.	1.8	33
72	S. mutans gene-modification and antibacterial resin composite as dual strategy to suppress biofilm acid production and inhibit caries. Journal of Dentistry, 2020, 93, 103278.	4.1	23

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73	Novel antibacterial calcium phosphate nanocomposite with long-term ion recharge and re-release to inhibit caries. Dental Materials Journal, 2020, 39, 678-689.	1.8	16
74	Effects of Targeted Delivery of Metformin and Dental Pulp Stem Cells on Osteogenesis via Demineralized Dentin Matrix under High Glucose Conditions. ACS Biomaterials Science and Engineering, 2020, 6, 2346-2356.	5.2	17
75	Antibacterial and remineralizing nanocomposite inhibit root caries biofilms and protect root dentin hardness at the margins. Journal of Dentistry, 2020, 97, 103344.	4.1	23
76	pH-responsive calcium and phosphate-ion releasing antibacterial sealants on carious enamel lesions in vitro. Journal of Dentistry, 2020, 97, 103323.	4.1	29
77	How we are assessing the developing antibacterial resin-based dental materials? A scoping review. Journal of Dentistry, 2020, 99, 103369.	4.1	41
78	Antibacterial, pH Neutralizing, and Remineralizing Fillers in Polymeric Restorative Materials. , 2020, , 199-223.		0
79	Iron oxide nanoparticles in liquid or powder form enhanced osteogenesis via stem cells on injectable calcium phosphate scaffold. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102069.	3.3	12
80	Novel root canal sealer with dimethylaminohexadecyl methacrylate, nano-silver and nano-calcium phosphate to kill bacteria inside root dentin and increase dentin hardness. Dental Materials, 2019, 35, 1479-1489.	3.5	40
81	A Novel Dental Sealant Containing Dimethylaminohexadecyl Methacrylate Suppresses the Cariogenic Pathogenicity of Streptococcus mutans Biofilms. International Journal of Molecular Sciences, 2019, 20, 3491.	4.1	34
82	Novel Protein-Repellent and Antibacterial Resins and Cements to Inhibit Lesions and Protect Teeth. International Journal of Polymer Science, 2019, 2019, 1-11.	2.7	6
83	Iron oxide nanoparticle-calcium phosphate cement enhanced the osteogenic activities of stem cells through WNT/Î²-catenin signaling. Materials Science and Engineering C, 2019, 104, 109955.	7.3	50
84	A nano-CaF2-containing orthodontic cement with antibacterial and remineralization capabilities to combat enamel white spot lesions. Journal of Dentistry, 2019, 89, 103172.	4.1	27
85	Novel nanoparticles of cerium-doped zeolitic imidazolate frameworks with dual benefits of antibacterial and anti-inflammatory functions against periodontitis. Journal of Materials Chemistry B, 2019, 7, 6955-6971.	5.8	70
86	Novel rechargeable nano-CaF2 orthodontic cement with high levels of long-term fluoride release. Journal of Dentistry, 2019, 90, 103214.	4.1	12
87	Human periodontal ligament stem cell seeding on calcium phosphate cement scaffold delivering metformin for bone tissue engineering. Journal of Dentistry, 2019, 91, 103220.	4.1	23
88	Novel Magnetic Cell-Scaffold Construct with and without Magnetic Field Enhanced Osteogenesis of Stem Cells and Formation of new bone. , 2019, , .		0
89	Dentin remineralization via adhesive containing amorphous calcium phosphate nanoparticles in a biofilm-challenged environment. Journal of Dentistry, 2019, 89, 103193.	4.1	35
90	Novel nanomaterial-based antibacterial photodynamic therapies to combat oral bacterial biofilms and infectious diseases . International Journal of Nanomedicine, 2019, Volume 14, 6937-6956.	6.7	99

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91	Novel nanotechnology and near-infrared photodynamic therapy to kill periodontitis-related biofilm pathogens and protect the periodontium. Dental Materials, 2019, 35, 1665-1681.	3.5	46
92	Novel endodontic sealer with dual strategies of dimethylaminohexadecyl methacrylate and nanoparticles of silver to inhibit root canal biofilms. Dental Materials, 2019, 35, 1117-1129.	3.5	27
93	Surface treatments on titanium implants via nanostructured ceria for antibacterial and anti-inflammatory capabilities. Acta Biomaterialia, 2019, 94, 627-643.	8.3	153
94	Periodontal Bone-Ligament-Cementum Regeneration via Scaffolds and Stem Cells. Cells, 2019, 8, 537.	4.1	144
95	Dental remineralization via poly(amido amine) and restorative materials containing calcium phosphate nanoparticles. International Journal of Oral Science, 2019, 11, 15.	8.6	52
96	Self-healing adhesive with antibacterial activity in water-aging for 12 months. Dental Materials, 2019, 35, 1104-1116.	3.5	26
97	Calcium phosphate cement scaffold with stem cell co-culture and prevascularization for dental and craniofacial bone tissue engineering. Dental Materials, 2019, 35, 1031-1041.	3.5	42
98	Effects of 3-dimensional Bioprinting Alginate/Gelatin Hydrogel Scaffold Extract on Proliferation and Differentiation of Human Dental Pulp Stem Cells. Journal of Endodontics, 2019, 45, 706-715.	3.1	72
99	Poly(amido amine) and rechargeable adhesive containing calcium phosphate nanoparticles for long-term dentin remineralization. Journal of Dentistry, 2019, 85, 47-56.	4.1	21
100	Nano-Structured Demineralized Human Dentin Matrix to Enhance Bone and Dental Repair and Regeneration. Applied Sciences (Switzerland), 2019, 9, 1013.	2.5	20
101	Effects of single species versus multispecies periodontal biofilms on the antibacterial efficacy of a novel bioactive Class-V nanocomposite. Dental Materials, 2019, 35, 847-861.	3.5	30
102	Novel bioactive root canal sealer with antibiofilm and remineralization properties. Journal of Dentistry, 2019, 83, 67-76.	4.1	29
103	Short-Time Antibacterial Effects of Dimethylaminododecyl Methacrylate on Oral Multispecies Biofilm In Vitro. BioMed Research International, 2019, 2019, 1-10.	1.9	17
104	Development of a new class of self-healing and therapeutic dental resins. Polymer Degradation and Stability, 2019, 163, 87-99.	5.8	25
105	Comparison of the use of d-enantiomeric and l-enantiomeric antimicrobial peptides incorporated in a calcium-chelating irrigant against Enterococcus faecalis root canal wall biofilms. Journal of Dentistry, 2019, 91, 103231.	4.1	12
106	Human periodontal ligament stem cells on calcium phosphate scaffold delivering platelet lysate to enhance bone regeneration. RSC Advances, 2019, 9, 41161-41172.	3.6	12
107	Effects of S. mutans gene-modification and antibacterial calcium phosphate nanocomposite on secondary caries and marginal enamel hardness. RSC Advances, 2019, 9, 41672-41683.	3.6	9
108	Toward dental caries: Exploring nanoparticle-based platforms and calcium phosphate compounds for dental restorative materials. Bioactive Materials, 2019, 4, 43-55.	15.6	109

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109	Nanoparticles having amphiphilic silane containing Chlorin e6 with strong anti-biofilm activity against periodontitis-related pathogens. Journal of Dentistry, 2019, 81, 70-84.	4.1	52
110	Bonding durability, antibacterial activity and biofilm pH of novel adhesive containing antibacterial monomer and nanoparticles of amorphous calcium phosphate. Journal of Dentistry, 2019, 81, 91-101.	4.1	19
111	Novel magnetic calcium phosphate-stem cell construct with magnetic field enhances osteogenic differentiation and bone tissue engineering. Materials Science and Engineering C, 2019, 98, 30-41.	7.3	60
112	Novel metformin-containing resin promotes odontogenic differentiation and mineral synthesis of dental pulp stem cells. Drug Delivery and Translational Research, 2019, 9, 85-96.	5.8	19
113	Novel Bioactive and Therapeutic Dental Polymeric Materials to Inhibit Periodontal Pathogens and Biofilms. International Journal of Molecular Sciences, 2019, 20, 278.	4.1	52
114	Novel multifunctional nanocomposite for root caries restorations to inhibit periodontitis-related pathogens. Journal of Dentistry, 2019, 81, 17-26.	4.1	23
115	Effects of water aging on the mechanical and anti-biofilm properties of glass-ionomer cement containing dimethylaminododecyl methacrylate. Dental Materials, 2019, 35, 434-443.	3.5	10
116	Novel dental composite with capability to suppress cariogenic species and promote non-cariogenic species in oral biofilms. Materials Science and Engineering C, 2019, 94, 587-596.	7.3	54
117	Drug resistance of oral bacteria to new antibacterial dental monomer dimethylaminohexadecyl methacrylate. Scientific Reports, 2018, 8, 5509.	3.3	31
118	Nanomagnetic-mediated drug delivery for the treatment of dental disease. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 919-927.	3.3	21
119	Long-term dentin remineralization by poly(amido amine) and rechargeable calcium phosphate nanocomposite after fluid challenges. Dental Materials, 2018, 34, 607-618.	3.5	30
120	Injectable calcium phosphate scaffold with iron oxide nanoparticles to enhance osteogenesis via dental pulp stem cells. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 423-433.	2.8	53
121	The anti-caries effects of dental adhesive resin influenced by the position of functional groups in quaternary ammonium monomers. Dental Materials, 2018, 34, 400-411.	3.5	40
122	Enhanced bone regeneration and visual monitoring via superparamagnetic iron oxide nanoparticle scaffold in rats. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e2085-e2098.	2.7	77
123	Metformin Enhances the Differentiation of Dental Pulp Cells into Odontoblasts by Activating AMPK Signaling. Journal of Endodontics, 2018, 44, 576-584.	3.1	28
124	Novel rechargeable calcium phosphate nanocomposite with antibacterial activity to suppress biofilm acids and dental caries. Journal of Dentistry, 2018, 72, 44-52.	4.1	64
125	Antibacterial and remineralizing orthodontic adhesive containing quaternary ammonium resin monomer and amorphous calcium phosphate nanoparticles. Journal of Dentistry, 2018, 72, 53-63.	4.1	57
126	Functional organic cation transporters mediate osteogenic response to metformin in human umbilical cord mesenchymal stromal cells. Cytotherapy, 2018, 20, 650-659.	0.7	19

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127	Metformin induces osteoblastic differentiation of human induced pluripotent stem cellâ€derived mesenchymal stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 437-446.	2.7	84
128	Angiogenic and osteogenic regeneration in rats via calcium phosphate scaffold and endothelial cell co-culture with human bone marrow mesenchymal stem cells (MSCs), human umbilical cord MSCs, human induced pluripotent stem cell-derived MSCs and human embry. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 191-203.	2.7	65
129	Bone regeneration in minipigs via calcium phosphate cement scaffold delivering autologous bone marrow mesenchymal stem cells and plateletâ€rich plasma. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e937-e948.	2.7	28
130	Gold nanoparticles in injectable calcium phosphate cement enhance osteogenic differentiation of human dental pulp stem cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 35-45.	3.3	61
131	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.	3.4	30
132	Effect of Electrospun Fibrous Scaffolds with Different Fiber Orientations on the Alignment of Microvessel-Like Structures. Journal of Medical and Biological Engineering, 2018, 38, 106-115.	1.8	1
133	NF-KappaB Pathway Is Involved in Bone Marrow Stromal Cell-Produced Pain Relief. Frontiers in Integrative Neuroscience, 2018, 12, 49.	2.1	15
134	Human In Situ Study of the effect of Bis(2-Methacryloyloxyethyl) Dimethylammonium Bromide Immobilized in Dental Composite on Controlling Mature Cariogenic Biofilm. International Journal of Molecular Sciences, 2018, 19, 3443.	4.1	16
135	Novel Calcium Phosphate Cement with Metformin-Loaded Chitosan for Odontogenic Differentiation of Human Dental Pulp Cells. Stem Cells International, 2018, 2018, 1-10.	2.5	29
136	Developing a New Generation of Therapeutic Dental Polymers to Inhibit Oral Biofilms and Protect Teeth. Materials, 2018, 11, 1747.	2.9	14
137	Protein-repellent nanocomposite with rechargeable calcium and phosphate for long-term ion release. Dental Materials, 2018, 34, 1735-1747.	3.5	27
138	Protein-repellent and antibacterial effects of a novel polymethyl methacrylate resin. Journal of Dentistry, 2018, 79, 39-45.	4.1	30
139	Tuning Nano-Amorphous Calcium Phosphate Content in Novel Rechargeable Antibacterial Dental Sealant. Materials, 2018, 11, 1544.	2.9	35
140	Protein-repelling adhesive resin containing calcium phosphate nanoparticles with repeated ion-recharge and re-releases. Journal of Dentistry, 2018, 78, 91-99.	4.1	30
141	A Modified Resin Sealer: Physical and Antibacterial Properties. Journal of Endodontics, 2018, 44, 1553-1557.	3.1	25
142	Novel dental adhesive resin with crack self-healing, antimicrobial and remineralization properties. Journal of Dentistry, 2018, 75, 48-57.	4.1	40
143	Antibacterial Efficacy and Discoloration Potential of Endodontic Topical Antibiotics. Journal of Endodontics, 2018, 44, 1110-1114.	3.1	29
144	Novel magnetic nanoparticle-containing adhesive with greater dentin bond strength and antibacterial and remineralizing capabilities. Dental Materials, 2018, 34, 1310-1322.	3.5	35

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145	Effects of water-aging for 6 months on the durability of a novel antimicrobial and protein-repellent dental bonding agent. International Journal of Oral Science, 2018, 10, 18.	8.6	12
146	Nanostructured Polymeric Materials with Protein-Repellent and Anti-Caries Properties for Dental Applications. Nanomaterials, 2018, 8, 393.	4.1	36
147	Novel self-etching and antibacterial orthodontic adhesive containing dimethylaminohexadecyl methacrylate to inhibit enamel demineralization. Dental Materials Journal, 2018, 37, 555-561.	1.8	7
148	Magnetic field and nano-scaffolds with stem cells to enhance bone regeneration. Biomaterials, 2018, 183, 151-170.	11.4	198
149	Fatigue of human dentin by cyclic loading and during oral biofilm challenge. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1978-1985.	3.4	12
150	Novel bioactive root canal sealer to inhibit endodontic multispecies biofilms with remineralizing calcium phosphate ions. Journal of Dentistry, 2017, 60, 25-35.	4.1	38
151	Co-Seeding Human Endothelial Cells with Human-Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells on Calcium Phosphate Scaffold Enhances Osteogenesis and Vascularization in Rats. Tissue Engineering - Part A, 2017, 23, 546-555.	3.1	71
152	Ph-activated nano-amorphous calcium phosphate-based cement to reduce dental enamel demineralization. Artificial Cells, Nanomedicine and Biotechnology, 2017, 45, 1778-1785.	2.8	15
153	Poly(amido amine) and calcium phosphate nanocomposite remineralization of dentin in acidic solution without calcium phosphate ions. Dental Materials, 2017, 33, 818-829.	3.5	18
154	Novel multifunctional dental cement to prevent enamel demineralization near orthodontic brackets. Journal of Dentistry, 2017, 64, 58-67.	4.1	23
155	Novel hiPSC-based tri-culture for pre-vascularization of calcium phosphate scaffold to enhance bone and vessel formation. Materials Science and Engineering C, 2017, 79, 296-304.	7.3	37
156	Novel multifunctional dental bonding agent for class-V restorations to inhibit periodontal biofilms. RSC Advances, 2017, 7, 29004-29014.	3.6	24
157	Novel dental adhesive with triple benefits of calcium phosphate recharge, protein-repellent and antibacterial functions. Dental Materials, 2017, 33, 553-563.	3.5	43
158	Engineering bone regeneration with novel cell-laden hydrogel microfiber-injectable calcium phosphate scaffold. Materials Science and Engineering C, 2017, 75, 895-905.	7.3	41
159	Novel self-healing dental luting cements with microcapsules for indirect restorations. Journal of Dentistry, 2017, 66, 76-82.	4.1	24
160	In vivo immune interactions of multipotent stromal cells underlie their long-lasting pain-relieving effect. Scientific Reports, 2017, 7, 10107.	3.3	35
161	Bioactive Dental Composites and Bonding Agents Having Remineralizing and Antibacterial Characteristics. Dental Clinics of North America, 2017, 61, 669-687.	1.8	33
162	Effect of calcium phosphate nanocomposite on in vitro remineralization of human dentin lesions. Dental Materials, 2017, 33, 1033-1044.	3.5	67

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163	Do quaternary ammonium monomers induce drug resistance in cariogenic, endodontic and periodontal bacterial species?. Dental Materials, 2017, 33, 1127-1138.	3.5	58
164	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.	7.3	38
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