

Michael D Weir

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

242
papers

8,441
citations

55
h-index

79
g-index

251
ext. papers

10,200
ext. citations

6.1
avg, IF

6.37
L-index

#	Paper	IF	Citations
242	An injectable calcium phosphate-alginate hydrogel-umbilical cord mesenchymal stem cell paste for bone tissue engineering. <i>Biomaterials</i> , 2010 , 31, 6502-10	15.6	249
241	Antibacterial amorphous calcium phosphate nanocomposites with a quaternary ammonium dimethacrylate and silver nanoparticles. <i>Dental Materials</i> , 2012 , 28, 561-72	5.7	238
240	Bone tissue engineering via nanostructured calcium phosphate biomaterials and stem cells. <i>Bone Research</i> , 2014 , 2, 14017	13.3	232
239	Injectable and macroporous calcium phosphate cement scaffold. <i>Biomaterials</i> , 2006 , 27, 4279-87	15.6	181
238	Calcium phosphate cements for bone engineering and their biological properties. <i>Bone Research</i> , 2017 , 5, 17056	13.3	155
237	Novel dental adhesives containing nanoparticles of silver and amorphous calcium phosphate. <i>Dental Materials</i> , 2013 , 29, 199-210	5.7	143
236	Advanced smart biomaterials and constructs for hard tissue engineering and regeneration. <i>Bone Research</i> , 2018 , 6, 31	13.3	135
235	Novel calcium phosphate nanocomposite with caries-inhibition in a human in situ model. <i>Dental Materials</i> , 2013 , 29, 231-40	5.7	118
234	Effect of quaternary ammonium and silver nanoparticle-containing adhesives on dentin bond strength and dental plaque microcosm biofilms. <i>Dental Materials</i> , 2012 , 28, 842-52	5.7	118
233	Magnetic field and nano-scaffolds with stem cells to enhance bone regeneration. <i>Biomaterials</i> , 2018 , 183, 151-170	15.6	117
232	Antibacterial and physical properties of calcium-phosphate and calcium-fluoride nanocomposites with chlorhexidine. <i>Dental Materials</i> , 2012 , 28, 573-83	5.7	117
231	Comparison of quaternary ammonium-containing with nano-silver-containing adhesive in antibacterial properties and cytotoxicity. <i>Dental Materials</i> , 2013 , 29, 450-61	5.7	115
230	Umbilical cord and bone marrow mesenchymal stem cell seeding on macroporous calcium phosphate for bone regeneration in rat cranial defects. <i>Biomaterials</i> , 2013 , 34, 9917-25	15.6	115
229	Dental primer and adhesive containing a new antibacterial quaternary ammonium monomer dimethylaminododecyl methacrylate. <i>Journal of Dentistry</i> , 2013 , 41, 345-55	4.8	115
228	Nanocomposites with Ca and PO ₄ release: effects of reinforcement, dicalcium phosphate particle size and silanization. <i>Dental Materials</i> , 2007 , 23, 1482-91	5.7	110
227	Injectable and strong nano-apatite scaffolds for cell/growth factor delivery and bone regeneration. <i>Dental Materials</i> , 2008 , 24, 1212-22	5.7	106
226	Nanotechnology strategies for antibacterial and remineralizing composites and adhesives to tackle dental caries. <i>Nanomedicine</i> , 2015 , 10, 627-41	5.6	101

225	Novel dental adhesive containing antibacterial agents and calcium phosphate nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 620-9	3.5	96
224	Bone tissue engineering via human induced pluripotent, umbilical cord and bone marrow mesenchymal stem cells in rat cranium. <i>Acta Biomaterialia</i> , 2015 , 18, 236-48	10.8	93
223	Synthesis of new antibacterial quaternary ammonium monomer for incorporation into CaP nanocomposite. <i>Dental Materials</i> , 2013 , 29, 859-70	5.7	93
222	Antibacterial activity and ion release of bonding agent containing amorphous calcium phosphate nanoparticles. <i>Dental Materials</i> , 2014 , 30, 891-901	5.7	87
221	Effect of amorphous calcium phosphate and silver nanocomposites on dental plaque microcosm biofilms. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1378-86	3.5	87
220	Human umbilical cord stem cell encapsulation in calcium phosphate scaffolds for bone engineering. <i>Biomaterials</i> , 2010 , 31, 3848-57	15.6	87
219	Effects of antibacterial primers with quaternary ammonium and nano-silver on <i>Streptococcus mutans</i> impregnated in human dentin blocks. <i>Dental Materials</i> , 2013 , 29, 462-72	5.7	86
218	Human embryonic stem cell encapsulation in alginate microbeads in macroporous calcium phosphate cement for bone tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 3436-45	10.8	86
217	Surface treatments on titanium implants via nanostructured ceria for antibacterial and anti-inflammatory capabilities. <i>Acta Biomaterialia</i> , 2019 , 94, 627-643	10.8	85
216	Effect of salivary pellicle on antibacterial activity of novel antibacterial dental adhesives using a dental plaque microcosm biofilm model. <i>Dental Materials</i> , 2014 , 30, 182-91	5.7	84
215	Human induced pluripotent stem cell-derived mesenchymal stem cell seeding on calcium phosphate scaffold for bone regeneration. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1295-305	3.9	83
214	Effect of water-ageing on dentine bond strength and anti-biofilm activity of bonding agent containing new monomer dimethylaminododecyl methacrylate. <i>Journal of Dentistry</i> , 2013 , 41, 504-13	4.8	83
213	Novel rechargeable calcium phosphate dental nanocomposite. <i>Dental Materials</i> , 2016 , 32, 285-93	5.7	82
212	Effect of charge density of bonding agent containing a new quaternary ammonium methacrylate on antibacterial and bonding properties. <i>Dental Materials</i> , 2014 , 30, 433-41	5.7	81
211	Injectable and rapid-setting calcium phosphate bone cement with dicalcium phosphate dihydrate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 77, 126-34	3.5	78
210	Periodontal Bone-Ligament-Cementum Regeneration via Scaffolds and Stem Cells. <i>Cells</i> , 2019 , 8,	7.9	77
209	Human bone marrow stem cell-encapsulating calcium phosphate scaffolds for bone repair. <i>Acta Biomaterialia</i> , 2010 , 6, 4118-26	10.8	76
208	Dental plaque microcosm response to bonding agents containing quaternary ammonium methacrylates with different chain lengths and charge densities. <i>Journal of Dentistry</i> , 2013 , 41, 1122-31	4.8	74

207	Osteoblastic induction on calcium phosphate cement-chitosan constructs for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 223-33	5.4	74
206	Development of novel self-healing and antibacterial dental composite containing calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , 2015 , 43, 317-26	4.8	71
205	Calcium and phosphate ion releasing composite: effect of pH on release and mechanical properties. <i>Dental Materials</i> , 2009 , 25, 535-42	5.7	71
204	Self-setting collagen-calcium phosphate bone cement: mechanical and cellular properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 91, 605-13	5.4	70
203	Toward dental caries: Exploring nanoparticle-based platforms and calcium phosphate compounds for dental restorative materials. <i>Bioactive Materials</i> , 2019 , 4, 43-55	16.7	67
202	Effect of cell seeding density on proliferation and osteodifferentiation of umbilical cord stem cells on calcium phosphate cement-fiber scaffold. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2603-13	3.9	64
201	Evaluation of antibacterial and remineralizing nanocomposite and adhesive in rat tooth cavity model. <i>Acta Biomaterialia</i> , 2014 , 10, 2804-13	10.8	61
200	Protein-repellent and antibacterial dental composite to inhibit biofilms and caries. <i>Journal of Dentistry</i> , 2015 , 43, 225-34	4.8	61
199	Dental plaque microcosm biofilm behavior on calcium phosphate nanocomposite with quaternary ammonium. <i>Dental Materials</i> , 2012 , 28, 853-62	5.7	61
198	Strong calcium phosphate cement-chitosan-mesh construct containing cell-encapsulating hydrogel beads for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 487-96	5.4	61
197	Effects of quaternary ammonium chain length on the antibacterial and remineralizing effects of a calcium phosphate nanocomposite. <i>International Journal of Oral Science</i> , 2016 , 8, 45-53	27.9	59
196	Umbilical cord stem cells released from alginate-fibrin microbeads inside macroporous and biofunctionalized calcium phosphate cement for bone regeneration. <i>Acta Biomaterialia</i> , 2012 , 8, 2297-306	10.8	59
195	Rechargeable dental adhesive with calcium phosphate nanoparticles for long-term ion release. <i>Journal of Dentistry</i> , 2015 , 43, 1587-95	4.8	58
194	Development of a multifunctional adhesive system for prevention of root caries and secondary caries. <i>Dental Materials</i> , 2015 , 31, 1119-31	5.7	57
193	One-year water-ageing of calcium phosphate composite containing nano-silver and quaternary ammonium to inhibit biofilms. <i>International Journal of Oral Science</i> , 2016 , 8, 172-81	27.9	57
192	Evaluation of three-dimensional biofilms on antibacterial bonding agents containing novel quaternary ammonium methacrylates. <i>International Journal of Oral Science</i> , 2014 , 6, 77-86	27.9	57
191	Nanocomposite containing CaF ₂ nanoparticles: thermal cycling, wear and long-term water-aging. <i>Dental Materials</i> , 2012 , 28, 642-52	5.7	56
190	Human embryonic stem cell-derived mesenchymal stem cell seeding on calcium phosphate cement-chitosan-RGD scaffold for bone repair. <i>Tissue Engineering - Part A</i> , 2013 , 19, 915-27	3.9	56

189	Effects of electrospun submicron fibers in calcium phosphate cement scaffold on mechanical properties and osteogenic differentiation of umbilical cord stem cells. <i>Acta Biomaterialia</i> , 2011 , 7, 4037-44	10.8	56
188	A self-setting iPSMSC-alginate-calcium phosphate paste for bone tissue engineering. <i>Dental Materials</i> , 2016 , 32, 252-63	5.7	55
187	Effect of calcium phosphate nanocomposite on in vitro remineralization of human dentin lesions. <i>Dental Materials</i> , 2017 , 33, 1033-1044	5.7	55
186	Gas-foaming calcium phosphate cement scaffold encapsulating human umbilical cord stem cells. <i>Tissue Engineering - Part A</i> , 2012 , 18, 816-27	3.9	55
185	Human umbilical cord stem cell encapsulation in novel macroporous and injectable fibrin for muscle tissue engineering. <i>Acta Biomaterialia</i> , 2013 , 9, 4688-97	10.8	54
184	Time-kill behaviour against eight bacterial species and cytotoxicity of antibacterial monomers. <i>Journal of Dentistry</i> , 2013 , 41, 881-91	4.8	51
183	Designing Multiagent Dental Materials for Enhanced Resistance to Biofilm Damage at the Bonded Interface. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11779-87	9.5	50
182	Novel rechargeable calcium phosphate nanocomposite with antibacterial activity to suppress biofilm acids and dental caries. <i>Journal of Dentistry</i> , 2018 , 72, 44-52	4.8	48
181	Effect of anti-biofilm glass-ionomer cement on Streptococcus mutans biofilms. <i>International Journal of Oral Science</i> , 2016 , 8, 76-83	27.9	47
180	Development of novel dental adhesive with double benefits of protein-repellent and antibacterial capabilities. <i>Dental Materials</i> , 2015 , 31, 845-54	5.7	46
179	Antibacterial effect of dental adhesive containing dimethylaminododecyl methacrylate on the development of Streptococcus mutans biofilm. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 12791-806	6.3	46
178	A protein-repellent and antibacterial nanocomposite for Class-V restorations to inhibit periodontitis-related pathogens. <i>Materials Science and Engineering C</i> , 2016 , 67, 702-710	8.3	45
177	Prevascularization of biofunctional calcium phosphate cement for dental and craniofacial repairs. <i>Dental Materials</i> , 2014 , 30, 535-44	5.7	44
176	Long-term mechanical durability of dental nanocomposites containing amorphous calcium phosphate nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1264-73	3.5	44
175	Novel antibacterial orthodontic cement containing quaternary ammonium monomer dimethylaminododecyl methacrylate. <i>Journal of Dentistry</i> , 2014 , 42, 1193-201	4.8	42
174	Human embryonic stem cells and macroporous calcium phosphate construct for bone regeneration in cranial defects in rats. <i>Acta Biomaterialia</i> , 2014 , 10, 4484-93	10.8	41
173	Novel nanomaterial-based antibacterial photodynamic therapies to combat oral bacterial biofilms and infectious diseases. <i>International Journal of Nanomedicine</i> , 2019 , 14, 6937-6956	7.3	40
172	Gold nanoparticles in injectable calcium phosphate cement enhance osteogenic differentiation of human dental pulp stem cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 35-45	6	40

171	Bone regeneration via novel macroporous CPC scaffolds in critical-sized cranial defects in rats. <i>Dental Materials</i> , 2014 , 30, e199-207	5.7	40
170	Dentin remineralization in acid challenge environment via PAMAM and calcium phosphate composite. <i>Dental Materials</i> , 2016 , 32, 1429-1440	5.7	39
169	Novel magnetic calcium phosphate-stem cell construct with magnetic field enhances osteogenic differentiation and bone tissue engineering. <i>Materials Science and Engineering C</i> , 2019 , 98, 30-41	8.3	39
168	Do quaternary ammonium monomers induce drug resistance in cariogenic, endodontic and periodontal bacterial species?. <i>Dental Materials</i> , 2017 , 33, 1127-1138	5.7	37
167	Injectable calcium phosphate with hydrogel fibers encapsulating induced pluripotent, dental pulp and bone marrow stem cells for bone repair. <i>Materials Science and Engineering C</i> , 2016 , 69, 1125-36	8.3	36
166	Protein-repellent and antibacterial functions of a calcium phosphate rechargeable nanocomposite. <i>Journal of Dentistry</i> , 2016 , 52, 15-22	4.8	36
165	Osteogenic media and rhBMP-2-induced differentiation of umbilical cord mesenchymal stem cells encapsulated in alginate microbeads and integrated in an injectable calcium phosphate-chitosan fibrous scaffold. <i>Tissue Engineering - Part A</i> , 2011 , 17, 969-79	3.9	36
164	Novel dental composite with capability to suppress cariogenic species and promote non-cariogenic species in oral biofilms. <i>Materials Science and Engineering C</i> , 2019 , 94, 587-596	8.3	36
163	Inhibition of matrix metalloproteinase activity in human dentin via novel antibacterial monomer. <i>Dental Materials</i> , 2015 , 31, 284-92	5.7	35
162	Characterization of Interaction of Water in Epoxy by UV Reflection Spectroscopy. <i>Macromolecules</i> , 2001 , 34, 4923-4926	5.5	35
161	Novel self-healing dental resin with microcapsules of polymerizable triethylene glycol dimethacrylate and N,N-dihydroxyethyl-p-toluidine. <i>Dental Materials</i> , 2016 , 32, 294-304	5.7	33
160	Orthodontic cement with protein-repellent and antibacterial properties and the release of calcium and phosphate ions. <i>Journal of Dentistry</i> , 2016 , 50, 51-9	4.8	33
159	Calcium phosphate cement scaffold with stem cell co-culture and prevascularization for dental and craniofacial bone tissue engineering. <i>Dental Materials</i> , 2019 , 35, 1031-1041	5.7	32
158	Effect of dimethylaminohexadecyl methacrylate mass fraction on fracture toughness and antibacterial properties of CaP nanocomposite. <i>Journal of Dentistry</i> , 2015 , 43, 1539-46	4.8	31
157	Antibacterial and remineralizing orthodontic adhesive containing quaternary ammonium resin monomer and amorphous calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , 2018 , 72, 53-63	4.8	30
156	Antibacterial and protein-repellent orthodontic cement to combat biofilms and white spot lesions. <i>Journal of Dentistry</i> , 2015 , 43, 1529-38	4.8	29
155	Novel bioactive nanocomposite for Class-V restorations to inhibit periodontitis-related pathogens. <i>Dental Materials</i> , 2016 , 32, e351-e361	5.7	29
154	Novel dental adhesive with triple benefits of calcium phosphate recharge, protein-repellent and antibacterial functions. <i>Dental Materials</i> , 2017 , 33, 553-563	5.7	28

153	Poly (amido amine) and nano-calcium phosphate bonding agent to remineralize tooth dentin in cyclic artificial saliva/lactic acid. <i>Materials Science and Engineering C</i> , 2017 , 72, 7-17	8.3	28
152	Biofunctionalized calcium phosphate cement to enhance the attachment and osteodifferentiation of stem cells released from fast-degradable alginate-fibrin microbeads. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1583-95	3.9	28
151	High-strength, in situ-setting calcium phosphate composite with protein release. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 388-96	5.4	28
150	Novel Bioactive and Therapeutic Dental Polymeric Materials to Inhibit Periodontal Pathogens and Biofilms. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	28
149	The anti-caries effects of dental adhesive resin influenced by the position of functional groups in quaternary ammonium monomers. <i>Dental Materials</i> , 2018 , 34, 400-411	5.7	27
148	Tetracalcium phosphate composite containing quaternary ammonium dimethacrylate with antibacterial properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 726-34	3.5	27
147	Novel nanotechnology and near-infrared photodynamic therapy to kill periodontitis-related biofilm pathogens and protect the periodontium. <i>Dental Materials</i> , 2019 , 35, 1665-1681	5.7	26
146	Dental remineralization via poly(amido amine) and restorative materials containing calcium phosphate nanoparticles. <i>International Journal of Oral Science</i> , 2019 , 11, 15	27.9	26
145	Effects of water-aging on self-healing dental composite containing microcapsules. <i>Journal of Dentistry</i> , 2016 , 47, 86-93	4.8	26
144	Effects of Long-Term Water-Aging on Novel Anti-Biofilm and Protein-Repellent Dental Composite. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	26
143	Fast-degradable microbeads encapsulating human umbilical cord stem cells in alginate for muscle tissue engineering. <i>Tissue Engineering - Part A</i> , 2012 , 18, 2303-14	3.9	25
142	Nanostructured Polymeric Materials with Protein-Repellent and Anti-Caries Properties for Dental Applications. <i>Nanomaterials</i> , 2018 , 8,	5.4	24
141	Iron oxide nanoparticle-calcium phosphate cement enhanced the osteogenic activities of stem cells through WNT/ β -catenin signaling. <i>Materials Science and Engineering C</i> , 2019 , 104, 109955	8.3	24
140	Anti-Caries Effects of Dental Adhesives Containing Quaternary Ammonium Methacrylates with Different Chain Lengths. <i>Materials</i> , 2017 , 10,	3.5	24
139	Effect of ethyl-alpha-hydroxymethylacrylate on selected properties of copolymers and ACP resin composites. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 3263-71	4.5	24
138	How we are assessing the developing antibacterial resin-based dental materials? A scoping review. <i>Journal of Dentistry</i> , 2020 , 99, 103369	4.8	24
137	Do Dental Resin Composites Accumulate More Oral Biofilms and Plaque than Amalgam and Glass Ionomer Materials?. <i>Materials</i> , 2016 , 9,	3.5	23
136	Effect of Antimicrobial Denture Base Resin on Multi-Species Biofilm Formation. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	23

135	Tuning Nano-Amorphous Calcium Phosphate Content in Novel Rechargeable Antibacterial Dental Sealant. <i>Materials</i> , 2018 , 11,	3.5	23
134	Engineering bone regeneration with novel cell-laden hydrogel microfiber-injectable calcium phosphate scaffold. <i>Materials Science and Engineering C</i> , 2017 , 75, 895-905	8.3	22
133	Concentration dependence of quaternary ammonium monomer on the design of high-performance bioactive composite for root caries restorations. <i>Dental Materials</i> , 2020 , 36, e266-e278	5.7	22
132	Long-term dentin remineralization by poly(amido amine) and rechargeable calcium phosphate nanocomposite after fluid challenges. <i>Dental Materials</i> , 2018 , 34, 607-618	5.7	22
131	Three-dimensional biofilm properties on dental bonding agent with varying quaternary ammonium charge densities. <i>Journal of Dentistry</i> , 2016 , 53, 73-81	4.8	22
130	Protein-repelling adhesive resin containing calcium phosphate nanoparticles with repeated ion-recharge and re-releases. <i>Journal of Dentistry</i> , 2018 , 78, 91-99	4.8	22
129	Effects of single species versus multispecies periodontal biofilms on the antibacterial efficacy of a novel bioactive Class-V nanocomposite. <i>Dental Materials</i> , 2019 , 35, 847-861	5.7	21
128	Novel root canal sealer with dimethylaminohexadecyl methacrylate, nano-silver and nano-calcium phosphate to kill bacteria inside root dentin and increase dentin hardness. <i>Dental Materials</i> , 2019 , 35, 1479-1489	5.7	21
127	Novel Dental Adhesive with Biofilm-Regulating and Remineralization Capabilities. <i>Materials</i> , 2017 , 10,	3.5	21
126	Effect of filler level and particle size on dental caries-inhibiting Ca-PO(4) composite. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1771-9	4.5	21
125	Culture human mesenchymal stem cells with calcium phosphate cement scaffolds for bone repair. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 93, 93-105	3.5	21
124	Novel dental adhesive resin with crack self-healing, antimicrobial and remineralization properties. <i>Journal of Dentistry</i> , 2018 , 75, 48-57	4.8	21
123	Drug resistance of oral bacteria to new antibacterial dental monomer dimethylaminohexadecyl methacrylate. <i>Scientific Reports</i> , 2018 , 8, 5509	4.9	20
122	Bone regeneration in minipigs via calcium phosphate cement scaffold delivering autologous bone marrow mesenchymal stem cells and platelet-rich plasma. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e937-e948	4.4	20
121	Stem cells in the periodontal ligament differentiated into osteogenic, fibrogenic and cementogenic lineages for the regeneration of the periodontal complex. <i>Journal of Dentistry</i> , 2020 , 92, 103259	4.8	20
120	Novel CaF Nanocomposites with Antibacterial Function and Fluoride and Calcium Ion Release to Inhibit Oral Biofilm and Protect Teeth. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	20
119	Two-staged time-dependent materials for the prevention of implant-related infections. <i>Acta Biomaterialia</i> , 2020 , 101, 128-140	10.8	20
118	Novel pit and fissure sealant containing nano-CaF and dimethylaminohexadecyl methacrylate with double benefits of fluoride release and antibacterial function. <i>Dental Materials</i> , 2020 , 36, 1241-1253	5.7	19

117	Metformin Enhances the Differentiation of Dental Pulp Cells into Odontoblasts by Activating AMPK Signaling. <i>Journal of Endodontics</i> , 2018 , 44, 576-584	4.7	19
116	Underperforming light curing procedures trigger detrimental irradiance-dependent biofilm response on incrementally placed dental composites. <i>Journal of Dentistry</i> , 2019 , 88, 103110	4.8	19
115	Review on Development and Dental Applications of Polyetheretherketone-Based Biomaterials and Restorations. <i>Materials</i> , 2021 , 14,	3.5	19
114	Poly (amido amine) dendrimer and dental adhesive with calcium phosphate nanoparticles remineralized dentin in lactic acid. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 2414-2424	3.5	19
113	A Modified Resin Sealer: Physical and Antibacterial Properties. <i>Journal of Endodontics</i> , 2018 , 44, 1553-1557	4.7	19
112	Novel magnetic nanoparticle-containing adhesive with greater dentin bond strength and antibacterial and remineralizing capabilities. <i>Dental Materials</i> , 2018 , 34, 1310-1322	5.7	19
111	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	5.7	18
110	Multifunctional antibacterial dental sealants suppress biofilms derived from children at high risk of caries. <i>Biomaterials Science</i> , 2020 , 8, 3472-3484	7.4	18
109	Nanomagnetic-mediated drug delivery for the treatment of dental disease. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 919-927	6	18
108	Protein-repellent nanocomposite with rechargeable calcium and phosphate for long-term ion release. <i>Dental Materials</i> , 2018 , 34, 1735-1747	5.7	18
107	Poly(amido amine) and calcium phosphate nanocomposite remineralization of dentin in acidic solution without calcium phosphate ions. <i>Dental Materials</i> , 2017 , 33, 818-829	5.7	17
106	Novel multifunctional dental cement to prevent enamel demineralization near orthodontic brackets. <i>Journal of Dentistry</i> , 2017 , 64, 58-67	4.8	17
105	Novel multifunctional dental bonding agent for Class-V restorations to inhibit periodontal biofilms. <i>RSC Advances</i> , 2017 , 7, 29004-29014	3.7	17
104	Novel bioactive root canal sealer with antibiofilm and remineralization properties. <i>Journal of Dentistry</i> , 2019 , 83, 67-76	4.8	17
103	In situ antibiofilm effect of glass-ionomer cement containing dimethylaminododecyl methacrylate. <i>Dental Materials</i> , 2015 , 31, 992-1002	5.7	17
102	Emerging Contact-Killing Antibacterial Strategies for Developing Anti-Biofilm Dental Polymeric Restorative Materials. <i>Bioengineering</i> , 2020 , 7,	5.3	17
101	Dentin remineralization via adhesive containing amorphous calcium phosphate nanoparticles in a biofilm-challenged environment. <i>Journal of Dentistry</i> , 2019 , 89, 103193	4.8	16
100	Hydrogel fibers encapsulating human stem cells in an injectable calcium phosphate scaffold for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 065008	3.5	16

99	A Novel Dental Sealant Containing Dimethylaminohexadecyl Methacrylate Suppresses the Cariogenic Pathogenicity of Biofilms. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
98	Novel rechargeable calcium phosphate nanoparticle-containing orthodontic cement. <i>International Journal of Oral Science</i> , 2017 , 9, 24-32	27.9	16
97	Combining Bioactive Multifunctional Dental Composite with PAMAM for Root Dentin Remineralization. <i>Materials</i> , 2017 , 10,	3.5	16
96	Effect of bioactive dental adhesive on periodontal and endodontic pathogens. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 168	4.5	16
95	Novel multifunctional nanocomposite for root caries restorations to inhibit periodontitis-related pathogens. <i>Journal of Dentistry</i> , 2019 , 81, 17-26	4.8	16
94	Formation of persisters in <i>Streptococcus mutans</i> biofilms induced by antibacterial dental monomer. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 178	4.5	15
93	Current Insights into the Modulation of Oral Bacterial Degradation of Dental Polymeric Restorative Materials. <i>Materials</i> , 2017 , 10,	3.5	15
92	Mannitol-containing macroporous calcium phosphate cement encapsulating human umbilical cord stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 214-24	4.4	15
91	Enamel remineralization via poly(amido amine) and adhesive resin containing calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , 2020 , 92, 103262	4.8	15
90	Protein-repellent and antibacterial effects of a novel polymethyl methacrylate resin. <i>Journal of Dentistry</i> , 2018 , 79, 39-45	4.8	15
89	Poly(amido amine) and rechargeable adhesive containing calcium phosphate nanoparticles for long-term dentin remineralization. <i>Journal of Dentistry</i> , 2019 , 85, 47-56	4.8	14
88	A nano-CaF-containing orthodontic cement with antibacterial and remineralization capabilities to combat enamel white spot lesions. <i>Journal of Dentistry</i> , 2019 , 89, 103172	4.8	14
87	Heat-Polymerized Resin Containing Dimethylaminododecyl Methacrylate Inhibits <i>Candida albicans</i> Biofilm. <i>Materials</i> , 2017 , 10,	3.5	14
86	Anti-Bacteria and Microecosystem-Regulating Effects of Dental Implant Coated with Dimethylaminododecyl Methacrylate. <i>Molecules</i> , 2017 , 22,	4.8	14
85	Development of a new class of self-healing and therapeutic dental resins. <i>Polymer Degradation and Stability</i> , 2019 , 163, 87-99	4.7	14
84	Human In Situ Study of the effect of Bis(2-Methacryloyloxyethyl) Dimethylammonium Bromide Immobilized in Dental Composite on Controlling Mature Cariogenic Biofilm. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	14
83	Novel Calcium Phosphate Cement with Metformin-Loaded Chitosan for Odontogenic Differentiation of Human Dental Pulp Cells. <i>Stem Cells International</i> , 2018 , 2018, 7173481	5	14
82	Anti-caries effect of resin infiltrant modified by quaternary ammonium monomers. <i>Journal of Dentistry</i> , 2020 , 97, 103355	4.8	13

81	Novel Bioactive and Therapeutic Root Canal Sealers with Antibacterial and Remineralization Properties. <i>Materials</i> , 2020 , 13,	3.5	13
80	Bioactive Dental Composites and Bonding Agents Having Remineralizing and Antibacterial Characteristics. <i>Dental Clinics of North America</i> , 2017 , 61, 669-687	3.3	13
79	pH-responsive calcium and phosphate-ion releasing antibacterial sealants on carious enamel lesions in vitro. <i>Journal of Dentistry</i> , 2020 , 97, 103323	4.8	13
78	In vitro evaluation of composite containing DMAHDM and calcium phosphate nanoparticles on recurrent caries inhibition at bovine enamel-restoration margins. <i>Dental Materials</i> , 2020 , 36, 1343-1355	5.7	13
77	Evaluation of Novel Anticaries Adhesive in a Secondary Caries Animal Model. <i>Caries Research</i> , 2018 , 52, 14-21	4.2	13
76	Rechargeable calcium phosphate orthodontic cement with sustained ion release and re-release. <i>Scientific Reports</i> , 2016 , 6, 36476	4.9	12
75	Self-healing adhesive with antibacterial activity in water-aging for 12 months. <i>Dental Materials</i> , 2019 , 35, 1104-1116	5.7	11
74	Novel low-shrinkage-stress nanocomposite with remineralization and antibacterial abilities to protect marginal enamel under biofilm. <i>Journal of Dentistry</i> , 2020 , 99, 103406	4.8	11
73	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	4.8	11
72	Novel Cavity Disinfectants Containing Quaternary Ammonium Monomer Dimethylaminododecyl Methacrylate. <i>Materials</i> , 2016 , 9,	3.5	11
71	Antibacterial and remineralizing nanocomposite inhibit root caries biofilms and protect root dentin hardness at the margins. <i>Journal of Dentistry</i> , 2020 , 97, 103344	4.8	11
70	Ph-activated nano-amorphous calcium phosphate-based cement to reduce dental enamel demineralization. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017 , 45, 1778-1785	6.1	10
69	Effects of Targeted Delivery of Metformin and Dental Pulp Stem Cells on Osteogenesis via Demineralized Dentin Matrix under High Glucose Conditions. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2346-2356	5.5	10
68	Novel self-healing dental luting cements with microcapsules for indirect restorations. <i>Journal of Dentistry</i> , 2017 , 66, 76-82	4.8	10
67	Effects of S. mutans gene-modification and antibacterial monomer dimethylaminohexadecyl methacrylate on biofilm growth and acid production. <i>Dental Materials</i> , 2020 , 36, 296-309	5.7	10
66	Developing a New Generation of Therapeutic Dental Polymers to Inhibit Oral Biofilms and Protect Teeth. <i>Materials</i> , 2018 , 11,	3.5	10
65	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	2.5	9
64	Primer containing dimethylaminododecyl methacrylate kills bacteria impregnated in human dentin blocks. <i>International Journal of Oral Science</i> , 2016 , 8, 239-245	27.9	9

63	Non-rigid calcium phosphate cement containing hydrogel microbeads and absorbable fibres seeded with umbilical cord stem cells for bone engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 777-87	4.4	9
62	Bioactive low-shrinkage-stress nanocomposite suppresses <i>S. mutans</i> biofilm and preserves tooth dentin hardness. <i>Acta Biomaterialia</i> , 2020 , 114, 146-157	10.8	9
61	Novel Crown Cement Containing Antibacterial Monomer and Calcium Phosphate Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
60	Bonding durability, antibacterial activity and biofilm pH of novel adhesive containing antibacterial monomer and nanoparticles of amorphous calcium phosphate. <i>Journal of Dentistry</i> , 2019 , 81, 91-101	4.8	9
59	Novel metformin-containing resin promotes odontogenic differentiation and mineral synthesis of dental pulp stem cells. <i>Drug Delivery and Translational Research</i> , 2019 , 9, 85-96	6.2	9
58	Alcohol Inhibits Odontogenic Differentiation of Human Dental Pulp Cells by Activating mTOR Signaling. <i>Stem Cells International</i> , 2017 , 2017, 8717454	5	8
57	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	27.9	8
56	An antibacterial and injectable calcium phosphate scaffold delivering human periodontal ligament stem cells for bone tissue engineering.. <i>RSC Advances</i> , 2020 , 10, 40157-40170	3.7	7
55	Tooth sealing formulation with bacteria-killing surface and on-demand ion release/recharge inhibits early childhood caries key pathogens. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 3217-3227	3.5	7
54	Iron oxide nanoparticles in liquid or powder form enhanced osteogenesis via stem cells on injectable calcium phosphate scaffold. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 21, 102069	6	7
53	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	4.8	7
52	An injectable and antibacterial calcium phosphate scaffold inhibiting <i>Staphylococcus aureus</i> and supporting stem cells for bone regeneration. <i>Materials Science and Engineering C</i> , 2021 , 120, 111688	8.3	7
51	Antibacterial response of oral microcosm biofilm to nano-zinc oxide in adhesive resin. <i>Dental Materials</i> , 2021 , 37, e182-e193	5.7	7
50	Dental Composite Formulation Design with Bioactivity on Protein Adsorption Combined with Crack-Healing Capability. <i>Journal of Functional Biomaterials</i> , 2017 , 8,	4.8	6
49	A novel antibacterial resin-based root canal sealer modified by Dimethylaminododecyl Methacrylate. <i>Scientific Reports</i> , 2019 , 9, 10632	4.9	6
48	Novel Nanocomposite Inhibiting Caries at the Enamel Restoration Margins in an In Vitro Saliva-Derived Biofilm Secondary Caries Model. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
47	Human periodontal ligament stem cells on calcium phosphate scaffold delivering platelet lysate to enhance bone regeneration.. <i>RSC Advances</i> , 2019 , 9, 41161-41172	3.7	6
46	Novel antibacterial and therapeutic dental polymeric composites with the capability to self-heal cracks and regain mechanical properties. <i>European Polymer Journal</i> , 2020 , 129, 109604	5.2	5

45	Nanographene oxide-calcium phosphate to inhibit <i>Staphylococcus aureus</i> infection and support stem cells for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 1779-1791	4.4	5
44	Light Energy Dose and Photosensitizer Concentration Are Determinants of Effective Photo-Killing against Caries-Related Biofilms. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
43	Nano-calcium phosphate and dimethylaminohexadecyl methacrylate adhesive for dentin remineralization in a biofilm-challenged environment. <i>Dental Materials</i> , 2020 , 36, e316-e328	5.7	5
42	Remineralization effectiveness of adhesive containing amorphous calcium phosphate nanoparticles on artificial initial enamel caries in a biofilm-challenged environment. <i>Clinical Oral Investigations</i> , 2021 , 25, 5375-5390	4.2	5
41	Novel orthodontic cement containing dimethylaminohexadecyl methacrylate with strong antibacterial capability. <i>Dental Materials Journal</i> , 2017 , 36, 669-676	2.5	4
40	Novel rechargeable nano-CaF orthodontic cement with high levels of long-term fluoride release. <i>Journal of Dentistry</i> , 2019 , 90, 103214	4.8	4
39	Effect of co-precipitation plus spray-drying of nano-CaF on mechanical and fluoride properties of nanocomposite. <i>Dental Materials</i> , 2021 , 37, 1009-1019	5.7	4
38	Magnetic motion of superparamagnetic iron oxide nanoparticles- loaded dental adhesives: physicochemical/biological properties, and dentin bonding performance studied through the tooth pulpal pressure model. <i>Acta Biomaterialia</i> , 2021 , 134, 337-347	10.8	4
37	Effects of gene-modification and antibacterial calcium phosphate nanocomposite on secondary caries and marginal enamel hardness.. <i>RSC Advances</i> , 2019 , 9, 41672-41683	3.7	4
36	Novel rechargeable calcium phosphate nanoparticle-filled dental cement. <i>Dental Materials Journal</i> , 2019 , 38, 1-10	2.5	4
35	Antibacterial calcium phosphate cement with human periodontal ligament stem cell-microbeads to enhance bone regeneration and combat infection. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021 , 15, 232-243	4.4	4
34	Antibiofilm and Protein-Repellent Polymethylmethacrylate Denture Base Acrylic Resin for Treatment of Denture Stomatitis. <i>Materials</i> , 2021 , 14,	3.5	4
33	A Biphasic Calcium Phosphate Cement Enhances Dentin Regeneration by Dental Pulp Stem Cells and Promotes Macrophages M2 Phenotype. <i>Tissue Engineering - Part A</i> , 2021 , 27, 1113-1127	3.9	4
32	Nanostructured dental composites and adhesives with antibacterial and remineralizing capabilities for caries inhibition 2019 , 139-161		3
31	Biocompatible Nanocomposite Enhanced Osteogenic and Cementogenic Differentiation of Periodontal Ligament Stem Cells In Vitro for Periodontal Regeneration. <i>Materials</i> , 2020 , 13,	3.5	3
30	Novel self-etch adhesive with antibacterial and protein-repellent functions to prevent enamel demineralization. <i>Dental Materials Journal</i> , 2018 , 37, 904-911	2.5	3
29	Magnetic-Responsive Photosensitizer Nanoplatform for Optimized Inactivation of Dental Caries-Related Biofilms: Technology Development and Proof of Principle. <i>ACS Nano</i> , 2021 ,	16.7	3
28	Denture Acrylic Resin Material with Antibacterial and Protein-Repelling Properties for the Prevention of Denture Stomatitis.. <i>Polymers</i> , 2022 , 14,	4.5	3

27	The Antibacterial Effects of Quaternary Ammonium Salts in the Simulated Presence of Inhibitors in Root Canals: A Preliminary In-Vitro Study. <i>Coatings</i> , 2020 , 10, 181	2.9	3
26	Effects of water aging on the mechanical and anti-biofilm properties of glass-ionomer cement containing dimethylaminododecyl methacrylate. <i>Dental Materials</i> , 2019 , 35, 434-443	5.7	3
25	Nanostructured Dental Composites and Adhesives with Antibacterial and Remineralizing Capabilities for Caries Inhibition 2013 , 109-129		2
24	Quantification of Macrophage Viability and Inflammatory Response to Dental Bonding Resins. <i>Journal of Bioactive and Compatible Polymers</i> , 2006 , 21, 185-206	2	2
23	Novel dual-functional implants via oxygen non-thermal plasma and quaternary ammonium to promote osteogenesis and combat infections.. <i>Dental Materials</i> , 2021 ,	5.7	2
22	Sustained Antibacterial Effect and Wear Behavior of Quaternary Ammonium Contact-Killing Dental Polymers after One-Year of Hydrolytic Degradation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3718	2.6	2
21	Bioactive small molecules in calcium phosphate scaffold enhanced osteogenic differentiation of human induced pluripotent stem cells. <i>Dental Materials Journal</i> , 2021 , 40, 615-624	2.5	2
20	Novel calcium phosphate ion-rechargeable and antibacterial adhesive to inhibit dental caries. <i>Clinical Oral Investigations</i> , 2021 , 1	4.2	2
19	Novel calcium phosphate cement with biofilm-inhibition and platelet lysate delivery to enhance osteogenesis of encapsulated human periodontal ligament stem cells. <i>Materials Science and Engineering C</i> , 2021 , 128, 112306	8.3	2
18	Novel Nano Calcium Fluoride Remineralizing and Antibacterial Dental Composites. <i>Journal of Dentistry</i> , 2021 , 113, 103789	4.8	2
17	Antibacterial Polymers for Dental Adhesives and Composites 2017 , 299-330		1
16	Control of Biofilm at the Tooth-Restoration Bonding Interface: A Question for Antibacterial Monomers? A Critical Review 2018 , 287-305		1
15	Novel self-etching and antibacterial orthodontic adhesive containing dimethylaminohexadecyl methacrylate to inhibit enamel demineralization. <i>Dental Materials Journal</i> , 2018 , 37, 555-561	2.5	1
14	Novel nanostructured resin infiltrant containing calcium phosphate nanoparticles to prevent enamel white spot lesions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 126, 104990	4.1	1
13	Novel nanographene oxide-calcium phosphate cement inhibits <i>Enterococcus faecalis</i> biofilm and supports dental pulp stem cells. <i>Journal of Orthopaedic Surgery and Research</i> , 2021 , 16, 580	2.8	1
12	Pronounced Effect of Antibacterial Bioactive Dental Composite on Microcosm Biofilms Derived From Patients With Root Carious Lesions. <i>Frontiers in Materials</i> , 2020 , 7,	4	1
11	Minipig-BMSCs Combined with a Self-Setting Calcium Phosphate Paste for Bone Tissue Engineering. <i>Molecular Biotechnology</i> , 2016 , 58, 748-756	3	1
10	Rechargeable adhesive with calcium phosphate nanoparticles inhibited long-term dentin demineralization in a biofilm-challenged environment. <i>Journal of Dentistry</i> , 2021 , 104, 103529	4.8	1

9	Ionic Fluoropolyphosphazenes as Potential Adhesive Agents for Dental Restoration Applications. <i>Regenerative Engineering and Translational Medicine</i> , 2021 , 7, 10-20	2.4	1
8	Long-term antibacterial activity and cytocompatibility of novel low-shrinkage-stress, remineralizing composites. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2021 , 32, 886-905	3.5	1
7	Dentin remineralization in acidic solution without initial calcium phosphate ions via poly(amido amine) and calcium phosphate nanocomposites after fluid challenges. <i>Clinical Oral Investigations</i> , 2021 , 1	4.2	1
6	Novel dental implant modifications with two-staged double benefits for preventing infection and promoting osseointegration and. <i>Bioactive Materials</i> , 2021 , 6, 4568-4579	16.7	1
5	Evaluation of the ability of adhesives with antibacterial and remineralization functions to prevent secondary caries in vivo.. <i>Clinical Oral Investigations</i> , 2022 , 26, 3637	4.2	0
4	Novel rechargeable calcium fluoride dental nanocomposites.. <i>Dental Materials</i> , 2021 , 38, 397-397	5.7	0
3	Anti-caries nanostructured dental adhesive reduces biofilm pathogenicity and raises biofilm pH to protect tooth structures. <i>Journal of Materials Research</i> , 2021 , 36, 533-546	2.5	0
2	Low-shrinkage-stress nanocomposite: An insight into shrinkage stress, antibacterial, and ion release properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 1124-1134	3.5	0
1	Novel Rechargeable Nanostructured Calcium Phosphate Crown Cement with Long-Term Ion Release and Antibacterial Activity to Suppress Saliva Microcosm Biofilms.. <i>Journal of Dentistry</i> , 2022 , 104140	4.8	0