Hockin H K Xu

List of Publications by Citations

282 papers	10,505 citations	58 h-index	87 g-index
291 ext. papers	12,582 ext. citations	6.3 avg, IF	6.59 L-index

#	Paper	IF	Citations
282	An injectable calcium phosphate-alginate hydrogel-umbilical cord mesenchymal stem cell paste for bone tissue engineering. *Biomaterials*, **2010**, 31, 6502-10	15.6	249
281	Antibacterial amorphous calcium phosphate nanocomposites with a quaternary ammonium dimethacrylate and silver nanoparticles. *Dental Materials*, **2012**, 28, 561-72	5.7	238
280	Fast setting calcium phosphate-chitosan scaffold: mechanical properties and biocompatibility. *Biomaterials*, **2005**, 26, 1337-48	15.6	237
279	Bone tissue engineering via nanostructured calcium phosphate biomaterials and stem cells. *Bone Research*, **2014**, 2, 14017	13.3	232
278	Nanocomposite containing amorphous calcium phosphate nanoparticles for caries inhibition. *Dental Materials*, **2011**, 27, 762-9	5.7	215
277	Injectable and macroporous calcium phosphate cement scaffold. *Biomaterials*, **2006**, 27, 4279-87	15.6	181
276	The fast release of stem cells from alginate-fibrin microbeads in injectable scaffolds for bone tissue engineering. *Biomaterials*, **2011**, 32, 7503-13	15.6	168
275	Calcium phosphate cements for bone engineering and their biological properties. *Bone Research*, **2017**, 5, 17056	13.3	155
274	Nanotechnology-based restorative materials for dental caries management. *Trends in Biotechnology*, **2013**, 31, 459-67	15.1	148
273	Novel dental adhesives containing nanoparticles of silver and amorphous calcium phosphate. *Dental Materials*, **2013**, 29, 199-210	5.7	143
272	Strong and macroporous calcium phosphate cement: Effects of porosity and fiber reinforcement on mechanical properties. *Journal of Biomedical Materials Research Part B*, **2001**, 57, 457-66		135
271	Mechanical and acid neutralizing properties and bacteria inhibition of amorphous calcium phosphate dental nanocomposite. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2011**, 98, 80-8	3.5	131
270	Synergistic reinforcement of in situ hardening calcium phosphate composite scaffold for bone tissue engineering. *Biomaterials*, **2004**, 25, 1029-37	15.6	127
269	Novel calcium phosphate nanocomposite with caries-inhibition in a human in situ model. *Dental Materials*, **2013**, 29, 231-40	5.7	118
268	Effect of quaternary ammonium and silver nanoparticle-containing adhesives on dentin bond strength and dental plaque microcosm biofilms. *Dental Materials*, **2012**, 28, 842-52	5.7	118
267	Magnetic field and nano-scaffolds with stem cells to enhance bone regeneration. *Biomaterials*, **2018**, 183, 151-170	15.6	117
266	Antibacterial and physical properties of calcium-phosphate and calcium-fluoride nanocomposites with chlorhexidine. *Dental Materials*, **2012**, 28, 573-83	5.7	117

265	Effects of dual antibacterial agents MDPB and nano-silver in primer on microcosm biofilm, cytotoxicity and dentine bond properties. *Journal of Dentistry*, **2013**, 41, 464-74	4.8	115
264	Comparison of quaternary ammonium-containing with nano-silver-containing adhesive in antibacterial properties and cytotoxicity. *Dental Materials*, **2013**, 29, 450-61	5.7	115
263	Umbilical cord and bone marrow mesenchymal stem cell seeding on macroporous calcium phosphate for bone regeneration in rat cranial defects. *Biomaterials*, **2013**, 34, 9917-25	15.6	115
262	Dental primer and adhesive containing a new antibacterial quaternary ammonium monomer dimethylaminododecyl methacrylate. *Journal of Dentistry*, **2013**, 41, 345-55	4.8	115
261	Fast-setting calcium phosphate scaffolds with tailored macropore formation rates for bone regeneration. *Journal of Biomedical Materials Research Part B*, **2004**, 68, 725-34		111
260	Therapeutic polymers for dental adhesives: loading resins with bio-active components. *Dental Materials*, **2014**, 30, 97-104	5.7	108
259	Injectable and strong nano-apatite scaffolds for cell/growth factor delivery and bone regeneration. *Dental Materials*, **2008**, 24, 1212-22	5.7	106
258	Nanotechnology strategies for antibacterial and remineralizing composites and adhesives to tackle dental caries. *Nanomedicine*, **2015**, 10, 627-41	5.6	101
257	Strength and fluoride release characteristics of a calcium fluoride based dental nanocomposite. *Biomaterials*, **2008**, 29, 4261-7	15.6	101
256	Novel dental adhesive containing antibacterial agents and calcium phosphate nanoparticles. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 620-9	3.5	96
255	Bone tissue engineering via human induced pluripotent, umbilical cord and bone marrow mesenchymal stem cells in rat cranium. *Acta Biomaterialia*, **2015**, 18, 236-48	10.8	93
254	Synthesis of new antibacterial quaternary ammonium monomer for incorporation into CaP nanocomposite. *Dental Materials*, **2013**, 29, 859-70	5.7	93
253	Antibacterial activity and ion release of bonding agent containing amorphous calcium phosphate nanoparticles. *Dental Materials*, **2014**, 30, 891-901	5.7	87
252	Human umbilical cord stem cell encapsulation in calcium phosphate scaffolds for bone engineering. *Biomaterials*, **2010**, 31, 3848-57	15.6	87
251	Effects of antibacterial primers with quaternary ammonium and nano-silver on Streptococcus mutans impregnated in human dentin blocks. *Dental Materials*, **2013**, 29, 462-72	5.7	86
250	Surface treatments on titanium implants via nanostructured ceria for antibacterial and anti-inflammatory capabilities. *Acta Biomaterialia*, **2019**, 94, 627-643	10.8	85
249	Effect of salivary pellicle on antibacterial activity of novel antibacterial dental adhesives using a dental plaque microcosm biofilm model. *Dental Materials*, **2014**, 30, 182-91	5.7	84
248	Reprogramming of mesenchymal stem cells derived from iPSCs seeded on biofunctionalized calcium phosphate scaffold for bone engineering. *Biomaterials*, **2013**, 34, 7862-72	15.6	84

247	Simple Technique for Observing Subsurface Damage in Machining of Ceramics. *Journal of the American Ceramic Society*, **1994**, 77, 1388-1390	3.8	84
246	Human induced pluripotent stem cell-derived mesenchymal stem cell seeding on calcium phosphate scaffold for bone regeneration. *Tissue Engineering - Part A*, **2014**, 20, 1295-305	3.9	83
245	Effect of water-ageing on dentine bond strength and anti-biofilm activity of bonding agent containing new monomer dimethylaminododecyl methacrylate. *Journal of Dentistry*, **2013**, 41, 504-13	4.8	83
244	Novel rechargeable calcium phosphate dental nanocomposite. *Dental Materials*, **2016**, 32, 285-93	5.7	82
243	Effect of charge density of bonding agent containing a new quaternary ammonium methacrylate on antibacterial and bonding properties. *Dental Materials*, **2014**, 30, 433-41	5.7	81
242	Periodontal Bone-Ligament-Cementum Regeneration via Scaffolds and Stem Cells. *Cells*, **2019**, 8,	7.9	77
241	Human bone marrow stem cell-encapsulating calcium phosphate scaffolds for bone repair. *Acta Biomaterialia*, **2010**, 6, 4118-26	10.8	76
240	Dental plaque microcosm response to bonding agents containing quaternary ammonium methacrylates with different chain lengths and charge densities. *Journal of Dentistry*, **2013**, 41, 1122-31	4.8	74
239	Osteoblastic induction on calcium phosphate cement-chitosan constructs for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 223-33	5.4	74
238	Effect of Grain Size on Scratch Interactions and Material Removal in Alumina. *Journal of the American Ceramic Society*, **1995**, 78, 881-891	3.8	72
237	Development of novel self-healing and antibacterial dental composite containing calcium phosphate nanoparticles. *Journal of Dentistry*, **2015**, 43, 317-26	4.8	71
236	Dual antibacterial agents of nano-silver and 12-methacryloyloxydodecylpyridinium bromide in dental adhesive to inhibit caries. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 929-38	3.5	71
235	Calcium and phosphate ion releasing composite: effect of pH on release and mechanical properties. *Dental Materials*, **2009**, 25, 535-42	5.7	71
234	Injectable calcium phosphate cement: effects of powder-to-liquid ratio and needle size. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2008**, 84, 493-502	3.5	67
233	Toward dental caries: Exploring nanoparticle-based platforms and calcium phosphate compounds for dental restorative materials. *Bioactive Materials*, **2019**, 4, 43-55	16.7	67
232	Metformin induces osteoblastic differentiation of human induced pluripotent stem cell-derived mesenchymal stem cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 437-446	4.4	61
231	Evaluation of antibacterial and remineralizing nanocomposite and adhesive in rat tooth cavity model. *Acta Biomaterialia*, **2014**, 10, 2804-13	10.8	61
230	Protein-repellent and antibacterial dental composite to inhibit biofilms and caries. *Journal of Dentistry*, **2015**, 43, 225-34	4.8	61

229	Dental plaque microcosm biofilm behavior on calcium phosphate nanocomposite with quaternary ammonium. *Dental Materials*, **2012**, 28, 853-62	5.7	61
228	Strong calcium phosphate cement-chitosan-mesh construct containing cell-encapsulating hydrogel beads for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2006**, 77, 487-96	5.4	61
227	Effects of quaternary ammonium chain length on the antibacterial and remineralizing effects of a calcium phosphate nanocomposite. *International Journal of Oral Science*, **2016**, 8, 45-53	27.9	59
226	Umbilical cord stem cells released from alginate-fibrin microbeads inside macroporous and biofunctionalized calcium phosphate cement for bone regeneration. *Acta Biomaterialia*, **2012**, 8, 2297-306	10.8	59
225	Rechargeable dental adhesive with calcium phosphate nanoparticles for long-term ion release. *Journal of Dentistry*, **2015**, 43, 1587-95	4.8	58
224	Development of a multifunctional adhesive system for prevention of root caries and secondary caries. *Dental Materials*, **2015**, 31, 1119-31	5.7	57
223	One-year water-ageing of calcium phosphate composite containing nano-silver and quaternary ammonium to inhibit biofilms. *International Journal of Oral Science*, **2016**, 8, 172-81	27.9	57
222	Evaluation of three-dimensional biofilms on antibacterial bonding agents containing novel quaternary ammonium methacrylates. *International Journal of Oral Science*, **2014**, 6, 77-86	27.9	57
221	Nanocomposite containing CaF(2) nanoparticles: thermal cycling, wear and long-term water-aging. *Dental Materials*, **2012**, 28, 642-52	5.7	56
220	Human embryonic stem cell-derived mesenchymal stem cell seeding on calcium phosphate cement-chitosan-RGD scaffold for bone repair. *Tissue Engineering - Part A*, **2013**, 19, 915-27	3.9	56
219	A self-setting iPSMSC-alginate-calcium phosphate paste for bone tissue engineering. *Dental Materials*, **2016**, 32, 252-63	5.7	55
218	Effect of calcium phosphate nanocomposite on in vitro remineralization of human dentin lesions. *Dental Materials*, **2017**, 33, 1033-1044	5.7	55
217	Gas-foaming calcium phosphate cement scaffold encapsulating human umbilical cord stem cells. *Tissue Engineering - Part A*, **2012**, 18, 816-27	3.9	55
216	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	3.9	51
215	Time-kill behaviour against eight bacterial species and cytotoxicity of antibacterial monomers. *Journal of Dentistry*, **2013**, 41, 881-91	4.8	51
214	Porous chitosan bilayer membrane containing TGF-β1 loaded microspheres for pulp capping and reparative dentin formation in a dog model. *Dental Materials*, **2014**, 30, 172-81	5.7	49
213	Novel rechargeable calcium phosphate nanocomposite with antibacterial activity to suppress biofilm acids and dental caries. *Journal of Dentistry*, **2018**, 72, 44-52	4.8	48
212	Osteoprotegerin gene-modified BMSCs with hydroxyapatite scaffold for treating critical-sized mandibular defects in ovariectomized osteoporotic rats. *Acta Biomaterialia*, **2016**, 42, 378-388	10.8	47

211	Effect of anti-biofilm glass-ionomer cement on Streptococcus mutans biofilms. *International Journal of Oral Science*, **2016**, 8, 76-83	27.9	47
210	Development of novel dental adhesive with double benefits of protein-repellent and antibacterial capabilities. *Dental Materials*, **2015**, 31, 845-54	5.7	46
209	Antibacterial effect of dental adhesive containing dimethylaminododecyl methacrylate on the development of Streptococcus mutans biofilm. *International Journal of Molecular Sciences*, **2014**, 15, 12791-806	6.3	46
208	A novel protein-repellent dental composite containing 2-methacryloyloxyethyl phosphorylcholine. *International Journal of Oral Science*, **2015**, 7, 103-9	27.9	45
207	Fluoride releasing restorative materials: Effects of pH on mechanical properties and ion release. *Dental Materials*, **2010**, 26, e227-35	5.7	45
206	A protein-repellent and antibacterial nanocomposite for Class-V restorations to inhibit periodontitis-related pathogens. *Materials Science and Engineering C*, **2016**, 67, 702-710	8.3	45
205	Prevascularization of biofunctional calcium phosphate cement for dental and craniofacial repairs. *Dental Materials*, **2014**, 30, 535-44	5.7	44
204	Long-term mechanical durability of dental nanocomposites containing amorphous calcium phosphate nanoparticles. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 1264-73	3.5	44
203	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 embryonic stem cell-derived MSCs. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 191-203	4.4	43
202	Fast setting calcium phosphate cement-chitosan composite: mechanical properties and dissolution rates. *Journal of Biomaterials Applications*, **2007**, 21, 299-315	2.9	43
201	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	4.4	42
200	Novel antibacterial orthodontic cement containing quaternary ammonium monomer dimethylaminododecyl methacrylate. *Journal of Dentistry*, **2014**, 42, 1193-201	4.8	42
199	Human embryonic stem cells and macroporous calcium phosphate construct for bone regeneration in cranial defects in rats. *Acta Biomaterialia*, **2014**, 10, 4484-93	10.8	41
198	Induced pluripotent stem cell-derived mesenchymal stem cell seeding on biofunctionalized calcium phosphate cements. *Bone Research*, **2013**, 4, 371-384	13.3	41
197	Novel nanomaterial-based antibacterial photodynamic therapies to combat oral bacterial biofilms and infectious diseases. *International Journal of Nanomedicine*, **2019**, 14, 6937-6956	7.3	40
196	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	6	40
195	Bone regeneration via novel macroporous CPC scaffolds in critical-sized cranial defects in rats. *Dental Materials*, **2014**, 30, e199-207	5.7	40
194	Calcium phosphate cement with biofunctional agents and stem cell seeding for dental and craniofacial bone repair. *Dental Materials*, **2012**, 28, 1059-70	5.7	40

193	The Use of Quaternary Ammonium to Combat Dental Caries. *Materials*, **2015**, 8, 3532-3549	3.5	39
192	Dentin remineralization in acid challenge environment via PAMAM and calcium phosphate composite. *Dental Materials*, **2016**, 32, 1429-1440	5.7	39
191	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	8.3	39
190	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	4.7	38
189	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	6.1	38
188	Do quaternary ammonium monomers induce drug resistance in cariogenic, endodontic and periodontal bacterial species?. *Dental Materials*, **2017**, 33, 1127-1138	5.7	37
187	Injectable calcium phosphate with hydrogel fibers encapsulating induced pluripotent, dental pulp and bone marrow stem cells for bone repair. *Materials Science and Engineering C*, **2016**, 69, 1125-36	8.3	36
186	Protein-repellent and antibacterial functions of a calcium phosphate rechargeable nanocomposite. *Journal of Dentistry*, **2016**, 52, 15-22	4.8	36
185	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. *Tissue Engineering - Part A*, **2011**, 17, 969-79	3.9	36
184	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	8.3	36
183	Inhibition of matrix metalloproteinase activity in human dentin via novel antibacterial monomer. *Dental Materials*, **2015**, 31, 284-92	5.7	35
182	Novel self-healing dental resin with microcapsules of polymerizable triethylene glycol dimethacrylate and N,N-dihydroxyethyl-p-toluidine. *Dental Materials*, **2016**, 32, 294-304	5.7	33
181	Novel protein-repellent dental adhesive containing 2-methacryloyloxyethyl phosphorylcholine. *Journal of Dentistry*, **2014**, 42, 1284-91	4.8	33
180	Orthodontic cement with protein-repellent and antibacterial properties and the release of calcium and phosphate ions. *Journal of Dentistry*, **2016**, 50, 51-9	4.8	33
179	Calcium phosphate cement scaffold with stem cell co-culture and prevascularization for dental and craniofacial bone tissue engineering. *Dental Materials*, **2019**, 35, 1031-1041	5.7	32
178	Effect of dimethylaminohexadecyl methacrylate mass fraction on fracture toughness and antibacterial properties of CaP nanocomposite. *Journal of Dentistry*, **2015**, 43, 1539-46	4.8	31
177	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	7.3	31
176	Antibacterial and remineralizing orthodontic adhesive containing quaternary ammonium resin monomer and amorphous calcium phosphate nanoparticles. *Journal of Dentistry*, **2018**, 72, 53-63	4.8	30

175	Umbilical cord stem cell seeding on fast-resorbable calcium phosphate bone cement. *Tissue Engineering - Part A*, **2010**, 16, 2743-53	3.9	30
174	Antibacterial and protein-repellent orthodontic cement to combat biofilms and white spot lesions. *Journal of Dentistry*, **2015**, 43, 1529-38	4.8	29
173	Novel bioactive nanocomposite for Class-V restorations to inhibit periodontitis-related pathogens. *Dental Materials*, **2016**, 32, e351-e361	5.7	29
172	Novel bioactive root canal sealer to inhibit endodontic multispecies biofilms with remineralizing calcium phosphate ions. *Journal of Dentistry*, **2017**, 60, 25-35	4.8	28
171	Novel dental adhesive with triple benefits of calcium phosphate recharge, protein-repellent and antibacterial functions. *Dental Materials*, **2017**, 33, 553-563	5.7	28
170	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	8.3	28
169	Biofunctionalized calcium phosphate cement to enhance the attachment and osteodifferentiation of stem cells released from fast-degradable alginate-fibrin microbeads. *Tissue Engineering - Part A*, **2012**, 18, 1583-95	3.9	28
168	Novel Bioactive and Therapeutic Dental Polymeric Materials to Inhibit Periodontal Pathogens and Biofilms. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	28
167	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	8.3	27
166	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	5.7	27
165	Novel nanotechnology and near-infrared photodynamic therapy to kill periodontitis-related biofilm pathogens and protect the periodontium. *Dental Materials*, **2019**, 35, 1665-1681	5.7	26
164	Dental remineralization via poly(amido amine) and restorative materials containing calcium phosphate nanoparticles. *International Journal of Oral Science*, **2019**, 11, 15	27.9	26
163	Effects of water-aging on self-healing dental composite containing microcapsules. *Journal of Dentistry*, **2016**, 47, 86-93	4.8	26
162	Accelerated fatigue of dentin with exposure to lactic acid. *Biomaterials*, **2013**, 34, 8650-8659	15.6	26
161	Effects of Long-Term Water-Aging on Novel Anti-Biofilm and Protein-Repellent Dental Composite. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	26
160	Nanoparticles having amphiphilic silane containing Chlorin e6 with strong anti-biofilm activity against periodontitis-related pathogens. *Journal of Dentistry*, **2019**, 81, 70-84	4.8	26
159	Fast-degradable microbeads encapsulating human umbilical cord stem cells in alginate for muscle tissue engineering. *Tissue Engineering - Part A*, **2012**, 18, 2303-14	3.9	25
158	Nanostructured Polymeric Materials with Protein-Repellent and Anti-Caries Properties for Dental Applications. *Nanomaterials*, **2018**, 8,	5.4	24

157	Iron oxide nanoparticle-calcium phosphate cement enhanced the osteogenic activities of stem cells through WNT/Ecatenin signaling. *Materials Science and Engineering C*, **2019**, 104, 109955	8.3	24
156	Anti-Caries Effects of Dental Adhesives Containing Quaternary Ammonium Methacrylates with Different Chain Lengths. *Materials*, **2017**, 10,	3.5	24
155	How we are assessing the developing antibacterial resin-based dental materials? A scoping review. *Journal of Dentistry*, **2020**, 99, 103369	4.8	24
154	Effect of NELL1 gene overexpression in iPSC-MSCs seeded on calcium phosphate cement. *Acta Biomaterialia*, **2014**, 10, 5128-5138	10.8	23
153	Do Dental Resin Composites Accumulate More Oral Biofilms and Plaque than Amalgam and Glass Ionomer Materials?. *Materials*, **2016**, 9,	3.5	23
152	Effect of Antimicrobial Denture Base Resin on Multi-Species Biofilm Formation. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	23
151	Tuning Nano-Amorphous Calcium Phosphate Content in Novel Rechargeable Antibacterial Dental Sealant. *Materials*, **2018**, 11,	3.5	23
150	Engineering bone regeneration with novel cell-laden hydrogel microfiber-injectable calcium phosphate scaffold. *Materials Science and Engineering C*, **2017**, 75, 895-905	8.3	22
149	Concentration dependence of quaternary ammonium monomer on the design of high-performance bioactive composite for root caries restorations. *Dental Materials*, **2020**, 36, e266-e278	5.7	22
148	Long-term dentin remineralization by poly(amido amine) and rechargeable calcium phosphate nanocomposite after fluid challenges. *Dental Materials*, **2018**, 34, 607-618	5.7	22
147	Three-dimensional biofilm properties on dental bonding agent with varying quaternary ammonium charge densities. *Journal of Dentistry*, **2016**, 53, 73-81	4.8	22
146	Protein-repelling adhesive resin containing calcium phosphate nanoparticles with repeated ion-recharge and re-releases. *Journal of Dentistry*, **2018**, 78, 91-99	4.8	22
145	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	5.7	21
144	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	5.7	21
143	In vivo immune interactions of multipotent stromal cells underlie their long-lasting pain-relieving effect. *Scientific Reports*, **2017**, 7, 10107	4.9	21
142	Novel Dental Adhesive with Biofilm-Regulating and Remineralization Capabilities. *Materials*, **2017**, 10,	3.5	21
141	Effect of filler level and particle size on dental caries-inhibiting Ca-PO(4) composite. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 1771-9	4.5	21
140	Culture human mesenchymal stem cells with calcium phosphate cement scaffolds for bone repair. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 93, 93-105	3.5	21

139	Novel dental adhesive resin with crack self-healing, antimicrobial and remineralization properties. *Journal of Dentistry*, **2018**, 75, 48-57	4.8	21
138	Drug resistance of oral bacteria to new antibacterial dental monomer dimethylaminohexadecyl methacrylate. *Scientific Reports*, **2018**, 8, 5509	4.9	20
137	Bone regeneration in minipigs via calcium phosphate cement scaffold delivering autologous bone marrow mesenchymal stem cells and platelet-rich plasma. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e937-e948	4.4	20
136	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	4.8	20
135	Novel CaF Nanocomposites with Antibacterial Function and Fluoride and Calcium Ion Release to Inhibit Oral Biofilm and Protect Teeth. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	20
134	Two-staged time-dependent materials for the prevention of implant-related infections. *Acta Biomaterialia*, **2020**, 101, 128-140	10.8	20
133	Novel pit and fissure sealant containing nano-CaF and dimethylaminohexadecyl methacrylate with double benefits of fluoride release and antibacterial function. *Dental Materials*, **2020**, 36, 1241-1253	5.7	19
132	Cutting-edge filler technologies to release bio-active components for restorative and preventive dentistry. *Dental Materials Journal*, **2020**, 39, 69-79	2.5	19
131	Metformin Enhances the Differentiation of Dental Pulp Cells into Odontoblasts by Activating AMPK Signaling. *Journal of Endodontics*, **2018**, 44, 576-584	4.7	19
130	Novel protein-repellent and biofilm-repellent orthodontic cement containing 2-methacryloyloxyethyl phosphorylcholine. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 949-59	3.5	19
129	Review on Development and Dental Applications of Polyetheretherketone-Based Biomaterials and Restorations. *Materials*, **2021**, 14,	3.5	19
128	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	3.5	19
127	A Modified Resin Sealer: Physical and Antibacterial Properties. *Journal of Endodontics*, **2018**, 44, 1553-1557	4.7	19
126	Novel magnetic nanoparticle-containing adhesive with greater dentin bond strength and antibacterial and remineralizing capabilities. *Dental Materials*, **2018**, 34, 1310-1322	5.7	19
125	Novel endodontic sealer with dual strategies of dimethylaminohexadecyl methacrylate and nanoparticles of silver to inhibit root canal biofilms. *Dental Materials*, **2019**, 35, 1117-1129	5.7	18
124	Multifunctional antibacterial dental sealants suppress biofilms derived from children at high risk of caries. *Biomaterials Science*, **2020**, 8, 3472-3484	7.4	18
123	Nanomagnetic-mediated drug delivery for the treatment of dental disease. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 919-927	6	18
122	The remineralization effectiveness of PAMAM dendrimer with different terminal groups on demineralized dentin in vitro. *RSC Advances*, **2017**, 7, 54947-54955	3.7	18

121	Protein-repellent nanocomposite with rechargeable calcium and phosphate for long-term ion release. *Dental Materials*, **2018**, 34, 1735-1747	5.7	18
120	Poly(amido amine) and calcium phosphate nanocomposite remineralization of dentin in acidic solution without calcium phosphate ions. *Dental Materials*, **2017**, 33, 818-829	5.7	17
119	Novel multifunctional dental cement to prevent enamel demineralization near orthodontic brackets. *Journal of Dentistry*, **2017**, 64, 58-67	4.8	17
118	Novel multifunctional dental bonding agent for Class-V restorations to inhibit periodontal biofilms. *RSC Advances*, **2017**, 7, 29004-29014	3.7	17
117	Novel bioactive root canal sealer with antibiofilm and remineralization properties. *Journal of Dentistry*, **2019**, 83, 67-76	4.8	17
116	In situ antibiofilm effect of glass-ionomer cement containing dimethylaminododecyl methacrylate. *Dental Materials*, **2015**, 31, 992-1002	5.7	17
115	Emerging Contact-Killing Antibacterial Strategies for Developing Anti-Biofilm Dental Polymeric Restorative Materials. *Bioengineering*, **2020**, 7,	5.3	17
114	Novel Dental Cement to Combat Biofilms and Reduce Acids for Orthodontic Applications to Avoid Enamel Demineralization. *Materials*, **2016**, 9,	3.5	17
113	Dentin remineralization via adhesive containing amorphous calcium phosphate nanoparticles in a biofilm-challenged environment. *Journal of Dentistry*, **2019**, 89, 103193	4.8	16
112	A Novel Dental Sealant Containing Dimethylaminohexadecyl Methacrylate Suppresses the Cariogenic Pathogenicity of Biofilms. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	16
111	Novel rechargeable calcium phosphate nanoparticle-containing orthodontic cement. *International Journal of Oral Science*, **2017**, 9, 24-32	27.9	16
110	Combining Bioactive Multifunctional Dental Composite with PAMAM for Root Dentin Remineralization. *Materials*, **2017**, 10,	3.5	16
109	Novel multifunctional nanocomposite for root caries restorations to inhibit periodontitis-related pathogens. *Journal of Dentistry*, **2019**, 81, 17-26	4.8	16
108	Antibacterial Efficacy and Discoloration Potential of Endodontic Topical Antibiotics. *Journal of Endodontics*, **2018**, 44, 1110-1114	4.7	16
107	Current Insights into the Modulation of Oral Bacterial Degradation of Dental Polymeric Restorative Materials. *Materials*, **2017**, 10,	3.5	15
106	Enamel remineralization via poly(amido amine) and adhesive resin containing calcium phosphate nanoparticles. *Journal of Dentistry*, **2020**, 92, 103262	4.8	15
105	Protein-repellent and antibacterial effects of a novel polymethyl methacrylate resin. *Journal of Dentistry*, **2018**, 79, 39-45	4.8	15
104	Poly(amido amine) and rechargeable adhesive containing calcium phosphate nanoparticles for long-term dentin remineralization. *Journal of Dentistry*, **2019**, 85, 47-56	4.8	14

103	A nano-CaF-containing orthodontic cement with antibacterial and remineralization capabilities to combat enamel white spot lesions. *Journal of Dentistry*, **2019**, 89, 103172	4.8	14
102	Heat-Polymerized Resin Containing Dimethylaminododecyl Methacrylate Inhibits Candida albicans Biofilm. *Materials*, **2017**, 10,	3.5	14
101	Anti-Bacteria and Microecosystem-Regulating Effects of Dental Implant Coated with Dimethylaminododecyl Methacrylate. *Molecules*, **2017**, 22,	4.8	14
100	Development of a new class of self-healing and therapeutic dental resins. *Polymer Degradation and Stability*, **2019**, 163, 87-99	4.7	14
99	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,	6.3	14
98	Novel Calcium Phosphate Cement with Metformin-Loaded Chitosan for Odontogenic Differentiation of Human Dental Pulp Cells. *Stem Cells International*, **2018**, 2018, 7173481	5	14
97	Anti-caries effect of resin infiltrant modified by quaternary ammonium monomers. *Journal of Dentistry*, **2020**, 97, 103355	4.8	13
96	Novel Bioactive and Therapeutic Root Canal Sealers with Antibacterial and Remineralization Properties. *Materials*, **2020**, 13,	3.5	13
95	Bioactive Dental Composites and Bonding Agents Having Remineralizing and Antibacterial Characteristics. *Dental Clinics of North America*, **2017**, 61, 669-687	3.3	13
94	Effect of Temperature on Toughness Curves in Alumina. *Journal of the American Ceramic Society*, **1995**, 78, 260-262	3.8	13
93	pH-responsive calcium and phosphate-ion releasing antibacterial sealants on carious enamel lesions in vitro. *Journal of Dentistry*, **2020**, 97, 103323	4.8	13
92	Quaternary ammonium-induced multidrug tolerant Streptococcus mutans persisters elevate cariogenic virulence in vitro. *International Journal of Oral Science*, **2017**, 9, e7	27.9	13
91	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	5.7	13
90	Nano-Structured Demineralized Human Dentin Matrix to Enhance Bone and Dental Repair and Regeneration. *Applied Sciences (Switzerland)*, **2019**, 9, 1013	2.6	12
89	Rechargeable calcium phosphate orthodontic cement with sustained ion release and re-release. *Scientific Reports*, **2016**, 6, 36476	4.9	12
88	Remineralization effectiveness of the PAMAM dendrimer with different terminal groups on artificial initial enamel caries in vitro. *Dental Materials*, **2020**, 36, 210-220	5.7	12
87	Self-healing adhesive with antibacterial activity in water-aging for 12 months. *Dental Materials*, **2019**, 35, 1104-1116	5.7	11
86	Novel low-shrinkage-stress nanocomposite with remineralization and antibacterial abilities to protect marginal enamel under biofilm. *Journal of Dentistry*, **2020**, 99, 103406	4.8	11

85	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	4.8	11
84	Decreased Expression of Semaphorin3A/Neuropilin-1 Signaling Axis in Apical Periodontitis. *BioMed Research International*, **2017**, 2017, 8724503	3	11
83	Functional organic cation transporters mediate osteogenic response to metformin in human umbilical cord mesenchymal stromal cells. *Cytotherapy*, **2018**, 20, 650-659	4.8	11
82	Genetics of complex human diseases: genome screening, association studies and fine mapping. *Clinical and Experimental Allergy*, **1998**, 28 Suppl 5, 1-5; discussion 26-8	4.1	11
81	Novel Cavity Disinfectants Containing Quaternary Ammonium Monomer Dimethylaminododecyl Methacrylate. *Materials*, **2016**, 9,	3.5	11
80	Antibacterial and remineralizing nanocomposite inhibit root caries biofilms and protect root dentin hardness at the margins. *Journal of Dentistry*, **2020**, 97, 103344	4.8	11
79	Ph-activated nano-amorphous calcium phosphate-based cement to reduce dental enamel demineralization. *Artificial Cells, Nanomedicine and Biotechnology*, **2017**, 45, 1778-1785	6.1	10
78	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	5.5	10
77	Novel self-healing dental luting cements with microcapsules for indirect restorations. *Journal of Dentistry*, **2017**, 66, 76-82	4.8	10
76	Effects of S. mutans gene-modification and antibacterial monomer dimethylaminohexadecyl methacrylate on biofilm growth and acid production. *Dental Materials*, **2020**, 36, 296-309	5.7	10
75	Developing a New Generation of Therapeutic Dental Polymers to Inhibit Oral Biofilms and Protect Teeth. *Materials*, **2018**, 11,	3.5	10
74	Short-Time Antibacterial Effects of Dimethylaminododecyl Methacrylate on Oral Multispecies Biofilm In Vitro. *BioMed Research International*, **2019**, 2019, 6393470	3	9
73	Novel antibacterial calcium phosphate nanocomposite with long-term ion recharge and re-release to inhibit caries. *Dental Materials Journal*, **2020**, 39, 678-689	2.5	9
72	Primer containing dimethylaminododecyl methacrylate kills bacteria impregnated in human dentin blocks. *International Journal of Oral Science*, **2016**, 8, 239-245	27.9	9
71	Non-rigid calcium phosphate cement containing hydrogel microbeads and absorbable fibres seeded with umbilical cord stem cells for bone engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2013**, 7, 777-87	4.4	9
70	Dental glass-reinforced composite for caries inhibition: calcium phosphate ion release and mechanical properties. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 92, 332-40	3.5	9
69	Bioactive low-shrinkage-stress nanocomposite suppresses S. mutans biofilm and preserves tooth dentin hardness. *Acta Biomaterialia*, **2020**, 114, 146-157	10.8	9
68	Novel Crown Cement Containing Antibacterial Monomer and Calcium Phosphate Nanoparticles. *Nanomaterials*, **2020**, 10,	5.4	9

67	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	4.8	9
66	Novel metformin-containing resin promotes odontogenic differentiation and mineral synthesis of dental pulp stem cells. *Drug Delivery and Translational Research*, **2019**, 9, 85-96	6.2	9
65	NF-KappaB Pathway Is Involved in Bone Marrow Stromal Cell-Produced Pain Relief. *Frontiers in Integrative Neuroscience*, **2018**, 12, 49	3.2	9
64	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	3.5	8
63	Alcohol Inhibits Odontogenic Differentiation of Human Dental Pulp Cells by Activating mTOR Signaling. *Stem Cells International*, **2017**, 2017, 8717454	5	8
62	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	27.9	8
61	An antibacterial and injectable calcium phosphate scaffold delivering human periodontal ligament stem cells for bone tissue engineering.. *RSC Advances*, **2020**, 10, 40157-40170	3.7	7
60	Tooth sealing formulation with bacteria-killing surface and on-demand ion release/recharge inhibits early childhood caries key pathogens. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 3217-3227	3.5	7
59	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	6	7
58	Human periodontal ligament stem cell seeding on calcium phosphate cement scaffold delivering metformin for bone tissue engineering. *Journal of Dentistry*, **2019**, 91, 103220	4.8	7
57	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	4.8	7
56	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	8.3	7
55	Antibacterial response of oral microcosm biofilm to nano-zinc oxide in adhesive resin. *Dental Materials*, **2021**, 37, e182-e193	5.7	7
54	Dental Composite Formulation Design with Bioactivity on Protein Adsorption Combined with Crack-Healing Capability. *Journal of Functional Biomaterials*, **2017**, 8,	4.8	6
53	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,	6.3	6
52	Human periodontal ligament stem cells on calcium phosphate scaffold delivering platelet lysate to enhance bone regeneration.. *RSC Advances*, **2019**, 9, 41161-41172	3.7	6
51	Novel antibacterial and therapeutic dental polymeric composites with the capability to self-heal cracks and regain mechanical properties. *European Polymer Journal*, **2020**, 129, 109604	5.2	5
50	Dimethylaminododecyl methacrylate inhibits Candida albicans and oropharyngeal candidiasis in a pH-dependent manner. *Applied Microbiology and Biotechnology*, **2020**, 104, 3585-3595	5.7	5

49	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	4.9	5
48	Novel Protein-Repellent and Antibacterial Resins and Cements to Inhibit Lesions and Protect Teeth. *International Journal of Polymer Science*, **2019**, 2019, 1-11	2.4	5
47	Nanographene oxide-calcium phosphate to inhibit Staphylococcus aureus infection and support stem cells for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 1779-1791	4.4	5
46	Light Energy Dose and Photosensitizer Concentration Are Determinants of Effective Photo-Killing against Caries-Related Biofilms. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	5
45	Nano-calcium phosphate and dimethylaminohexadecyl methacrylate adhesive for dentin remineralization in a biofilm-challenged environment. *Dental Materials*, **2020**, 36, e316-e328	5.7	5
44	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	4.2	5
43	Resumptive Persisters Induced From Dimethylaminododecyl Methacrylate Elevated the Cariogenic Virulence by Up-Regulating the Quorum-Sensing and VicRK Pathway Genes. *Frontiers in Microbiology*, **2019**, 10, 3102	5.7	4
42	Novel orthodontic cement containing dimethylaminohexadecyl methacrylate with strong antibacterial capability. *Dental Materials Journal*, **2017**, 36, 669-676	2.5	4
41	Novel rechargeable nano-CaF orthodontic cement with high levels of long-term fluoride release. *Journal of Dentistry*, **2019**, 90, 103214	4.8	4
40	Effect of co-precipitation plus spray-drying of nano-CaF on mechanical and fluoride properties of nanocomposite. *Dental Materials*, **2021**, 37, 1009-1019	5.7	4
39	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	10.8	4
38	Effects of gene-modification and antibacterial calcium phosphate nanocomposite on secondary caries and marginal enamel hardness.. *RSC Advances*, **2019**, 9, 41672-41683	3.7	4
37	Antibacterial calcium phosphate cement with human periodontal ligament stem cell-microbeads to enhance bone regeneration and combat infection. *Journal of Tissue Engineering and Regenerative Medicine*, **2021**, 15, 232-243	4.4	4
36	Antibiofilm and Protein-Repellent Polymethylmethacrylate Denture Base Acrylic Resin for Treatment of Denture Stomatitis. *Materials*, **2021**, 14,	3.5	4
35	A Biphasic Calcium Phosphate Cement Enhances Dentin Regeneration by Dental Pulp Stem Cells and Promotes Macrophages M2 Phenotype. *Tissue Engineering - Part A*, **2021**, 27, 1113-1127	3.9	4
34	Biocompatible Nanocomposite Enhanced Osteogenic and Cementogenic Differentiation of Periodontal Ligament Stem Cells In Vitro for Periodontal Regeneration. *Materials*, **2020**, 13,	3.5	3
33	Magnetic-Responsive Photosensitizer Nanoplatform for Optimized Inactivation of Dental Caries-Related Biofilms: Technology Development and Proof of Principle. *ACS Nano*, **2021**,	16.7	3
32	Denture Acrylic Resin Material with Antibacterial and Protein-Repelling Properties for the Prevention of Denture Stomatitis.. *Polymers*, **2022**, 14,	4.5	3

31	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	15.4	3
30	Effect of Antibacterial Root Canal Sealer on Persistent Apical Periodontitis. *Antibiotics*, **2021**, 10,	4.9	3
29	Effects of water aging on the mechanical and anti-biofilm properties of glass-ionomer cement containing dimethylaminododecyl methacrylate. *Dental Materials*, **2019**, 35, 434-443	5.7	3
28	Approaches to meta analysis in genetic disorders. *Clinical and Experimental Allergy*, **1998**, 28 Suppl 1, 106-7; discussion 108-10	4.1	2
27	Novel dual-functional implants via oxygen non-thermal plasma and quaternary ammonium to promote osteogenesis and combat infections.. *Dental Materials*, **2021**,	5.7	2
26	Sustained delivery of growth factors and alendronate using partially demineralized dentin matrix for endogenous periodontal regeneration. *Applied Materials Today*, **2021**, 22, 100922	6.6	2
25	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	2.6	2
24	Bioactive small molecules in calcium phosphate scaffold enhanced osteogenic differentiation of human induced pluripotent stem cells. *Dental Materials Journal*, **2021**, 40, 615-624	2.5	2
23	Novel calcium phosphate ion-rechargeable and antibacterial adhesive to inhibit dental caries. *Clinical Oral Investigations*, **2021**, 1	4.2	2
22	Starvation Survival and Biofilm Formation under Subminimum Inhibitory Concentration of QAMs. *BioMed Research International*, **2021**, 2021, 8461245	3	2
21	Enhanced proliferation and angiogenic phenotype of endothelial cells via negatively-charged alginate and chondroitin sulfate microsphere hydrogels. *Biomedical Materials (Bristol)*, **2021**, 16, 025012	3.5	2
20	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	8.3	2
19	Novel Nano Calcium Fluoride Remineralizing and Antibacterial Dental Composites. *Journal of Dentistry*, **2021**, 113, 103789	4.8	2
18	Antibacterial Polymers for Dental Adhesives and Composites **2017**, 299-330		1
17	Control of Biofilm at the Tooth-Restoration Bonding Interface: A Question for Antibacterial Monomers? A Critical Review **2018**, 287-305		1
16	Novel self-etching and antibacterial orthodontic adhesive containing dimethylaminohexadecyl methacrylate to inhibit enamel demineralization. *Dental Materials Journal*, **2018**, 37, 555-561	2.5	1
15	Novel nanostructured resin infiltrant containing calcium phosphate nanoparticles to prevent enamel white spot lesions. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 126, 104990	4.1	1
14	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	2.8	1

13	Rechargeable adhesive with calcium phosphate nanoparticles inhibited long-term dentin demineralization in a biofilm-challenged environment. *Journal of Dentistry*, **2021**, 104, 103529	4.8	1
12	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	1
11	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	2.2	1
10	Dentin remineralization in acidic solution without initial calcium phosphate ions via poly(amido amine) and calcium phosphate nanocomposites after fluid challenges. *Clinical Oral Investigations*, **2021**, 1	4.2	1
9	Novel dental implant modifications with two-staged double benefits for preventing infection and promoting osseointegration and. *Bioactive Materials*, **2021**, 6, 4568-4579	16.7	1
8	Novel Giomers Incorporated with Antibacterial Quaternary Ammonium Monomers to Inhibit Secondary Caries. *Pathogens*, **2022**, 11, 578	4.5	1
7	Evaluation of the ability of adhesives with antibacterial and remineralization functions to prevent secondary caries in vivo.. *Clinical Oral Investigations*, **2022**, 26, 3637	4.2	0
6	Novel rechargeable calcium fluoride dental nanocomposites.. *Dental Materials*, **2021**, 38, 397-397	5.7	0
5	Anti-caries nanostructured dental adhesive reduces biofilm pathogenicity and raises biofilm pH to protect tooth structures. *Journal of Materials Research*, **2021**, 36, 533-546	2.5	0
4	Intelligent pH-responsive dental sealants to prevent long-term microleakage. *Dental Materials*, **2021**, 37, 1529-1541	5.7	0
3	Low-shrinkage-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	3.5	0
2	Novel Rechargeable Nanostructured Calcium Phosphate Crown Cement with Long-Term Ion Release and Antibacterial Activity to Suppress Saliva Microcosm Biofilms.. *Journal of Dentistry*, **2022**, 104140	4.8	0
1	Antibacterial, pH Neutralizing, and Remineralizing Fillers in Polymeric Restorative Materials **2020**, 199-223		