

Franklin R Tay

List of Publications by Year in Descending Order

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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.

264 papers	10,841 citations	58 h-index	93 g-index
281 ext. papers	13,283 ext. citations	6.7 avg, IF	6.66 L-index

#	Paper	IF	Citations
264	Polyphosphate-crosslinked collagen scaffolds for hemostasis and alveolar bone regeneration after tooth extraction.. <i>Bioactive Materials</i> , 2022 , 15, 68-81	16.7	2
263	Autophagic LC3 calcified extracellular vesicles initiate cartilage calcification in osteoarthritis.. <i>Science Advances</i> , 2022 , 8, eabn1556	14.3	0
262	Multifunctional Nanomachinery for Enhancement of Bone Healing. <i>Advanced Materials</i> , 2021 , e2107924	24	4
261	3D and 4D printing in dentistry and maxillofacial surgery: Printing techniques, materials, and applications. <i>Acta Biomaterialia</i> , 2021 , 122, 26-49	10.8	48
260	Nonspherical Metal-Based Nanoarchitectures: Synthesis and Impact of Size, Shape, and Composition on Their Biological Activity. <i>Small</i> , 2021 , 17, e2007073	11	9
259	Matrix stiffening by self-mineralizable guided bone regeneration. <i>Acta Biomaterialia</i> , 2021 , 125, 112-125	10.8	11
258	Recent Advances in Stimulus-Responsive Nanocarriers for Gene Therapy. <i>Advanced Science</i> , 2021 , 8, 2100540	5.40	22
257	Biological and synthetic template-directed syntheses of mineralized hybrid and inorganic materials. <i>Progress in Materials Science</i> , 2021 , 116, 100712	42.2	13
256	Involvement of prenucleation clusters in calcium phosphate mineralization of collagen. <i>Acta Biomaterialia</i> , 2021 , 120, 213-223	10.8	22
255	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. <i>Applied Materials Today</i> , 2021 , 24, 101107	6.6	7
254	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , 2021 , 24, 101117	6.6	9
253	Upregulation of mitochondrial dynamics is responsible for osteogenic differentiation of mesenchymal stem cells cultured on self-mineralized collagen membranes. <i>Acta Biomaterialia</i> , 2021 , 136, 137-146	10.8	3
252	Endocytosis of abiotic nanomaterials and nanobiovectors: Inhibition of membrane trafficking. <i>Nano Today</i> , 2021 , 40, 101279	17.9	9
251	Applications of Cryogenic Electron Microscopy in Biomineralization Research.. <i>Journal of Dental Research</i> , 2021 , 220345211053814	8.1	2
250	Extracellular DNA: A Missing Link in the Pathogenesis of Ectopic Mineralization.. <i>Advanced Science</i> , 2021 , e2103693	13.6	3
249	Advances in Antimicrobial Organic and Inorganic Nanocompounds in Biomedicine. <i>Advanced Therapeutics</i> , 2020 , 3, 2000024	4.9	57
248	Isocyanate-terminated urethane-based methacrylate for in situ collagen scaffold modification. <i>Materials Science and Engineering C</i> , 2020 , 112, 110902	8.3	6

247	Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <i>Chemosphere</i> , 2020 , 258, 127324	8.4	29
246	Quaternary ammonium silane, calcium and phosphorus-loaded PLGA submicron particles against <i>Enterococcus faecalis</i> infection of teeth: An in vitro and in vivo study. <i>Materials Science and Engineering C</i> , 2020 , 111, 110856	8.3	3
245	Pathological calcification in osteoarthritis: an outcome or a disease initiator?. <i>Biological Reviews</i> , 2020 , 95, 960-985	13.5	9
244	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
243	Metal-Based Nanomaterials in Biomedical Applications: Antimicrobial Activity and Cytotoxicity Aspects. <i>Advanced Functional Materials</i> , 2020 , 30, 1910021	15.6	210
242	Novel Bioactive and Therapeutic Root Canal Sealers with Antibacterial and Remineralization Properties. <i>Materials</i> , 2020 , 13,	3.5	13
241	Advances in Antimicrobial Microneedle Patches for Combating Infections. <i>Advanced Materials</i> , 2020 , 32, e2002129	24	102
240	Biofabricated Nanostructures and Their Composites in Regenerative Medicine. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6210-6238	5.6	24
239	Oropharyngeal Secretion as Alternative for SARS-CoV-2 Detection. <i>Journal of Dental Research</i> , 2020 , 99, 1199-1205	8.1	6
238	Escape Infection Control: Considerations and Caveats in Combating ESKAPE Pathogens against Nosocomial Infections (Adv. Sci. 1/2020). <i>Advanced Science</i> , 2020 , 7, 2070004	13.6	78
237	Macrophages enhance mesenchymal stem cell osteogenesis via down-regulation of reactive oxygen species. <i>Journal of Dentistry</i> , 2020 , 94, 103297	4.8	9
236	Chlorhexidine preserves the hybrid layer in vitro after 10-years aging. <i>Dental Materials</i> , 2020 , 36, 672-680	9.7	12
235	Microbe-Mediated Extracellular and Intracellular Mineralization: Environmental, Industrial, and Biotechnological Applications. <i>Advanced Materials</i> , 2020 , 32, e1907833	24	44
234	Effect of Chitosan as a Cross-Linker on Matrix Metalloproteinase Activity and Bond Stability with Different Adhesive Systems. <i>Marine Drugs</i> , 2020 , 18,	6	5
233	Metal-Based Nanostructures/PLGA Nanocomposites: Antimicrobial Activity, Cytotoxicity, and Their Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3279-3300	9.5	77
232	Enamel remineralization via poly(amido amine) and adhesive resin containing calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , 2020 , 92, 103262	4.8	15
231	The past, present and future perspectives of matrix metalloproteinase inhibitors. <i>Pharmacology & Therapeutics</i> , 2020 , 207, 107465	13.9	54
230	Histologic Response of Human Pulp and Periapical Tissues to Tricalcium Silicate-based Materials: A Series of Successfully Treated Cases. <i>Journal of Endodontics</i> , 2020 , 46, 307-317	4.7	12

229	Considerations and Caveats in Combating ESKAPE Pathogens against Nosocomial Infections. <i>Advanced Science</i> , 2020 , 7, 1901872	13.6	78
228	Insights into cathepsin-B activity in mature dentin matrix. <i>Archives of Oral Biology</i> , 2020 , 117, 104830	2.8	1
227	Pulp and dentine responses to selective caries excavation: A histological and histobacteriological human study. <i>Journal of Dentistry</i> , 2020 , 100, 103430	4.8	7
226	Micro-computed tomography evaluation of root canal filling quality with apical negative pressure. <i>Journal of Dentistry</i> , 2020 , 100, 103431	4.8	4
225	In vivo and in vitro radiotherapy increased dentin enzymatic activity. <i>Journal of Dentistry</i> , 2020 , 100, 103429	4.8	0
224	Advances in biogenically synthesized shaped metal- and carbon-based nanoarchitectures and their medicinal applications. <i>Advances in Colloid and Interface Science</i> , 2020 , 283, 102236	14.3	21
223	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
222	Smear Layer Removal Using Passive Ultrasonic Irrigation and Different Concentrations of Sodium Hypochlorite. <i>Journal of Endodontics</i> , 2020 , 46, 1738-1744	4.7	4
221	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
220	Simultaneous Regeneration of Bone and Nerves Through Materials and Architectural Design: Are We There Yet?. <i>Advanced Functional Materials</i> , 2020 , 30, 2003542	15.6	5
219	Polymeric and inorganic nanoscopic antimicrobial fillers in dentistry. <i>Acta Biomaterialia</i> , 2020 , 101, 69-101	10.8	91
218	Evaluation of a Collagen-Reactive Monomer with Advanced Bonding Durability. <i>Journal of Dental Research</i> , 2020 , 99, 813-819	8.1	5
217	N-Acetyl Cysteine as a Novel Polymethyl Methacrylate Resin Component: Protection against Cell Apoptosis and Genotoxicity. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 1301736	6.7	7
216	Advancing antimicrobial strategies for managing oral biofilm infections. <i>International Journal of Oral Science</i> , 2019 , 11, 28	27.9	69
215	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
214	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
213	Bioactive tri/dicalcium silicate cements for treatment of pulpal and periapical tissues. <i>Acta Biomaterialia</i> , 2019 , 96, 35-54	10.8	37
212	Micro-computed Tomographic Evaluation of the Prevalence, Distribution, and Morphologic Features of Accessory Canals in Chinese Permanent Teeth. <i>Journal of Endodontics</i> , 2019 , 45, 994-999	4.7	8

211	Vital pulp therapy: histopathology and histobacteriology-based guidelines to treat teeth with deep caries and pulp exposure. <i>Journal of Dentistry</i> , 2019 , 86, 41-52	4.8	43
210	Self-healing adhesive with antibacterial activity in water-aging for 12 months. <i>Dental Materials</i> , 2019 , 35, 1104-1116	5.7	11
209	Protection against HEMA-Induced Mitochondrial Injury by Nrf2 Activation. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 3501059	6.7	9
208	Pulpotomy for carious pulp exposures in permanent teeth: A systematic review and meta-analysis. <i>Journal of Dentistry</i> , 2019 , 84, 1-8	4.8	27
207	Effect of benzalkonium chloride on dentin bond strength and endogenous enzymatic activity. <i>Journal of Dentistry</i> , 2019 , 85, 25-32	4.8	11
206	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
205	Evaluation of several instrumentation techniques and irrigation methods on the percentage of untouched canal wall and accumulated dentine debris in C-shaped canals. <i>International Endodontic Journal</i> , 2019 , 52, 1354-1365	5.4	20
204	Novel bioactive root canal sealer with antibiofilm and remineralization properties. <i>Journal of Dentistry</i> , 2019 , 83, 67-76	4.8	17
203	The effect of food medium on the wear behaviour of veneering porcelain: An in vitro study using the three-body abrasion mode. <i>Journal of Dentistry</i> , 2019 , 83, 87-94	4.8	7
202	MMP-8-Responsive Polyethylene Glycol Hydrogel for Intraoral Drug Delivery. <i>Journal of Dental Research</i> , 2019 , 98, 564-571	8.1	22
201	Contribution of biomimetic collagen-ligand interaction to intrafibrillar mineralization. <i>Science Advances</i> , 2019 , 5, eaav9075	14.3	42
200	Polymer conjugation optimizes EDTA as a calcium-chelating agent that exclusively removes extrafibrillar minerals from mineralized collagen. <i>Acta Biomaterialia</i> , 2019 , 90, 424-440	10.8	8
199	Recent progress in the industrial and biomedical applications of tragacanth gum: A review. <i>Carbohydrate Polymers</i> , 2019 , 212, 450-467	10.3	102
198	A potential therapeutic target for regulating osteoporosis via suppression of osteoclast differentiation. <i>Journal of Dentistry</i> , 2019 , 82, 91-97	4.8	11
197	Carbodiimide inactivation of matrix metalloproteinases in radicular dentine. <i>Journal of Dentistry</i> , 2019 , 82, 56-62	4.8	7
196	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
195	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
194	Insights into the July 2019 Issue of the Journal of Endodontics. <i>Journal of Endodontics</i> , 2019 , 45, 829-830.	4.7	

193	Improving the wear performance of feldspathic veneering porcelain by ion-exchange strengthening. <i>Journal of Dentistry</i> , 2019 , 90, 103210	4.8	5
192	Clinical/Translational Aspects of Advanced Glycation End-Products. <i>Trends in Endocrinology and Metabolism</i> , 2019 , 30, 959-973	8.8	23
191	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
190	Management of Large Radicular Lesions Using Decompression: A Case Series and Review of the Literature. <i>Journal of Endodontics</i> , 2019 , 45, 651-659	4.7	2
189	Associations among gastroesophageal reflux disease, mental disorders, sleep and chronic temporomandibular disorder: a case-control study. <i>Cmaj</i> , 2019 , 191, E909-E915	3.5	10
188	Comparison of the use of d-enantiomeric and l-enantiomeric antimicrobial peptides incorporated in a calcium-chelating irrigant against <i>Enterococcus faecalis</i> root canal wall biofilms. <i>Journal of Dentistry</i> , 2019 , 91, 103231	4.8	7
187	Antimicrobial gum bio-based nanocomposites and their industrial and biomedical applications. <i>Chemical Communications</i> , 2019 , 55, 14871-14885	5.8	62
186	Bimodal antibacterial system based on quaternary ammonium silane-coupled core-shell hollow mesoporous silica. <i>Acta Biomaterialia</i> , 2019 , 85, 229-240	10.8	19
185	Isocyanate-terminated urethane-based dental adhesive bridges dentinal matrix collagen with adhesive resin. <i>Acta Biomaterialia</i> , 2019 , 83, 140-152	10.8	10
184	Novel Biomedical Applications of Crosslinked Collagen. <i>Trends in Biotechnology</i> , 2019 , 37, 464-491	15.1	101
183	Novel multifunctional nanocomposite for root caries restorations to inhibit periodontitis-related pathogens. <i>Journal of Dentistry</i> , 2019 , 81, 17-26	4.8	16
182	Topical application of phenytoin or nifedipine-loaded PLGA microspheres promotes periodontal regeneration in vivo. <i>Archives of Oral Biology</i> , 2019 , 97, 42-51	2.8	4
181	Chitosan-Based Extrafibrillar Demineralization for Dentin Bonding. <i>Journal of Dental Research</i> , 2019 , 98, 186-193	8.1	21
180	Changes in the radicular pulp-dentine complex in healthy intact teeth and in response to deep caries or restorations: A histological and histobacteriological study. <i>Journal of Dentistry</i> , 2018 , 73, 76-90	4.8	18
179	Intrafibrillar silicified collagen scaffold promotes in-situ bone regeneration by activating the monocyte p38 signaling pathway. <i>Acta Biomaterialia</i> , 2018 , 67, 354-365	10.8	9
178	Zymography of Hybrid Layers Created Using Extrafibrillar Demineralization. <i>Journal of Dental Research</i> , 2018 , 97, 409-415	8.1	12
177	Release of ICTP and CTX telopeptides from demineralized dentin matrices: Effect of time, mass and surface area. <i>Dental Materials</i> , 2018 , 34, 452-459	5.7	5
176	Water-associated attributes in the contemporary dentin bonding milieu. <i>Journal of Dentistry</i> , 2018 , 74, 79-89	4.8	7

175	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
174	Antimicrobial efficacy of an apical negative pressure root canal irrigation system against intracanal microorganisms. <i>Journal of Dentistry</i> , 2018 , 72, 71-75	4.8	6
173	Effect of simulated intraosseous sinusoidal pressure on NaOCl extrusion. <i>Journal of Dentistry</i> , 2018 , 78, 46-50	4.8	2
172	Contribution of Mitophagy to Cell-Mediated Mineralization: Revisiting a 50-Year-Old Conundrum. <i>Advanced Science</i> , 2018 , 5, 1800873	13.6	32
171	Association between bruxism and symptomatic gastroesophageal reflux disease: A case-control study. <i>Journal of Dentistry</i> , 2018 , 77, 51-58	4.8	12
170	Antibacterial efficacy of an endodontic sonic-powered irrigation system: An in vitro study. <i>Journal of Dentistry</i> , 2018 , 75, 105-112	4.8	16
169	Synergistic mechanism of Ag-Zn in anti-bacterial activity against <i>Enterococcus faecalis</i> and its application against dentin infection. <i>Journal of Nanobiotechnology</i> , 2018 , 16, 10	9.4	30
168	Optimizing resin-dentin bond stability using a bioactive adhesive with concomitant antibacterial properties and anti-proteolytic activities. <i>Acta Biomaterialia</i> , 2018 , 75, 171-182	10.8	23
167	Cross-linking effect on dentin bond strength and MMPs activity. <i>Dental Materials</i> , 2018 , 34, 288-295	5.7	26
166	Dentin bonding systems: From dentin collagen structure to bond preservation and clinical applications. <i>Dental Materials</i> , 2018 , 34, 78-96	5.7	146
165	Mechanism of bioactive molecular extraction from mineralized dentin by calcium hydroxide and tricalcium silicate cement. <i>Dental Materials</i> , 2018 , 34, 317-330	5.7	12
164	Experimental use of an acrolein-based primer as collagen cross-linker for dentine bonding. <i>Journal of Dentistry</i> , 2018 , 68, 85-90	4.8	10
163	Hollow mesoporous zirconia delivery system for biomineralization precursors. <i>Acta Biomaterialia</i> , 2018 , 67, 366-377	10.8	9
162	Biochemical and immunohistochemical identification of MMP-7 in human dentin. <i>Journal of Dentistry</i> , 2018 , 79, 90-95	4.8	4
161	Anti-biofilm efficacy of root canal irrigants against in-situ <i>Enterococcus faecalis</i> biofilms in root canals, isthmuses and dentinal tubules. <i>Journal of Dentistry</i> , 2018 , 79, 68-76	4.8	21
160	Quaternary ammonium silane-based antibacterial and anti-proteolytic cavity cleanser. <i>Dental Materials</i> , 2018 , 34, 1814-1827	5.7	10
159	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
158	Biological Activities and Potential Oral Applications of N-Acetylcysteine: Progress and Prospects. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 2835787	6.7	64

157	Air Entrapment in Demineralized Dentin Adversely Affects Bonding. <i>Journal of Adhesive Dentistry</i> , 2018 , 20, 249-259	3	2
156	Effect of a novel quaternary ammonium silane on dentin protease activities. <i>Journal of Dentistry</i> , 2017 , 58, 19-27	4.8	29
155	Effect of a one-step self-etch adhesive on endogenous dentin matrix metalloproteinases. <i>European Journal of Oral Sciences</i> , 2017 , 125, 168-172	2.3	9
154	Quaternary ammonium-based biomedical materials: State-of-the-art, toxicological aspects and antimicrobial resistance. <i>Progress in Polymer Science</i> , 2017 , 71, 53-90	29.6	269
153	In vitro Streptococcus mutans biofilm formation on surfaces of chlorhexidine-containing dentin bonding systems. <i>International Journal of Adhesion and Adhesives</i> , 2017 , 75, 23-30	3.4	6
152	The effects of water on degradation of the zirconia-resin bond. <i>Journal of Dentistry</i> , 2017 , 64, 23-29	4.8	25
151	Substantivity of Carbodiimide Inhibition on Dentinal Enzyme Activity over Time. <i>Journal of Dental Research</i> , 2017 , 96, 902-908	8.1	20
150	No-waiting dentine self-etch concept-Merit or hype. <i>Journal of Dentistry</i> , 2017 , 62, 54-63	4.8	14
149	Extrafibrillar collagen demineralization-based chelate-and-rinse technique bridges the gap between wet and dry dentin bonding. <i>Acta Biomaterialia</i> , 2017 , 57, 435-448	10.8	17
148	Effect of Canal Anastomosis on Periapical Fluid Pressure Build-up during Needle Irrigation in Single Roots with Double Canals using a Polycarbonate Model. <i>Scientific Reports</i> , 2017 , 7, 1582	4.9	5
147	Effects of EDC crosslinking on the stiffness of dentin hybrid layers evaluated by nanoDMA over time. <i>Dental Materials</i> , 2017 , 33, 904-914	5.7	8
146	Effect of a novel quaternary ammonium silane cavity disinfectant on durability of resin-dentine bond. <i>Journal of Dentistry</i> , 2017 , 60, 77-86	4.8	23
145	Effect of intraoral mechanical stress application on the expression of a force-responsive prognostic marker associated with system disease progression. <i>Journal of Dentistry</i> , 2017 , 57, 57-65	4.8	2
144	Fatigue resistance of dentin bonds prepared with two- vs. three-step adhesives: Effect of carbodiimide. <i>Dental Materials</i> , 2017 , 33, 1340-1350	5.7	5
143	Chemical affinity of 10-methacryloyloxydecyl dihydrogen phosphate to dental zirconia: Effects of molecular structure and solvents. <i>Dental Materials</i> , 2017 , 33, e415-e427	5.7	20
142	Biodegradable mesoporous delivery system for biomineralization precursors. <i>International Journal of Nanomedicine</i> , 2017 , 12, 839-854	7.3	13
141	Effects of smear layer removal agents on the physical properties and microstructure of mineral trioxide aggregate cement. <i>Journal of Dentistry</i> , 2017 , 66, 32-36	4.8	7
140	Primum non nocere - The effects of sodium hypochlorite on dentin as used in endodontics. <i>Acta Biomaterialia</i> , 2017 , 61, 144-156	10.8	41

139	Herpes Zoster Involving the Second Division of the Trigeminal Nerve: Case Report and Literature Review. <i>Journal of Endodontics</i> , 2017 , 43, 1569-1573	4.7	11
138	Intrafibrillar silicified collagen scaffold modulates monocyte to promote cell homing, angiogenesis and bone regeneration. <i>Biomaterials</i> , 2017 , 113, 203-216	15.6	83
137	Potential applications of antimicrobial peptides and their mimics in combating caries and pulpal infections. <i>Acta Biomaterialia</i> , 2017 , 49, 16-35	10.8	62
136	Collagen intrafibrillar mineralization as a result of the balance between osmotic equilibrium and electroneutrality. <i>Nature Materials</i> , 2017 , 16, 370-378	27	148
135	Effect of high-power-laser with and without graphite coating on bonding of resin cement to lithium disilicate ceramic. <i>Scientific Reports</i> , 2017 , 7, 17422	4.9	5
134	Susceptibility of contemporary single-bottle self-etch dentine adhesives to intrinsic water permeation. <i>Journal of Dentistry</i> , 2017 , 66, 52-61	4.8	7
133	Role of Chlorhexidine on Long-term Bond Strength of Self-adhesive Composite Cements to Intraradicular Dentin. <i>Journal of Adhesive Dentistry</i> , 2017 , 19, 341-348	3	8
132	Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen. <i>Advanced Functional Materials</i> , 2016 , 26, 6858-6875	15.6	61
131	Collagen Mineralization: Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen (Adv. Funct. Mater. 38/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6850-6850	15.6	6
130	Improved secondary caries resistance via augmented pressure displacement of antibacterial adhesive. <i>Scientific Reports</i> , 2016 , 6, 22269	4.9	7
129	Caries-resistant bonding layer in dentin. <i>Scientific Reports</i> , 2016 , 6, 32740	4.9	3
128	Antimicrobial activity of a quaternary ammonium methacryloxy silicate-containing acrylic resin: a randomised clinical trial. <i>Scientific Reports</i> , 2016 , 6, 21882	4.9	23
127	Micro-CT evaluation of apical delta morphologies in human teeth. <i>Scientific Reports</i> , 2016 , 6, 36501	4.9	17
126	Evaluation of the smear layer removal and decalcification effect of QMix, maleic acid and EDTA on root canal dentine. <i>Journal of Dentistry</i> , 2016 , 51, 62-8	4.8	19
125	Effect of nanolayering of calcium salts of phosphoric acid ester monomers on the durability of resin-dentin bonds. <i>Acta Biomaterialia</i> , 2016 , 38, 190-200	10.8	33
124	Cervical Sclerotic Dentin: Resin Bonding 2016 , 97-125		
123	Effect of passive ultrasonic irrigation on diffusion of hydroxyl ion through radicular dentine. <i>Clinical Oral Investigations</i> , 2016 , 20, 247-52	4.2	1
122	Effects of multiple firings on the low-temperature degradation of dental yttria-stabilized tetragonal zirconia. <i>Journal of Prosthetic Dentistry</i> , 2016 , 115, 495-500	4	8

121	Effect of carbodiimide on thermal denaturation temperature of dentin collagen. <i>Dental Materials</i> , 2016 , 32, 492-8	5.7	14
120	Revival of nitrogen-containing bisphosphonate-induced inhibition of osteoclastogenesis and osteoclast function by water-soluble microfibrinous borate glass. <i>Acta Biomaterialia</i> , 2016 , 31, 312-325	10.8	14
119	Effect of carbodiimide on the fatigue crack growth resistance of resin-dentin bonds. <i>Dental Materials</i> , 2016 , 32, 211-22	5.7	14
118	A mechanistic study of the interaction of water-soluble borate glass with apatite-bound heterocyclic nitrogen-containing bisphosphonates. <i>Acta Biomaterialia</i> , 2016 , 31, 339-347	10.8	5
117	Defying ageing: An expectation for dentine bonding with universal adhesives?. <i>Journal of Dentistry</i> , 2016 , 45, 43-52	4.8	58
116	Translation of a solution-based biomineralization concept into a carrier-based delivery system via the use of expanded-pore mesoporous silica. <i>Acta Biomaterialia</i> , 2016 , 31, 378-387	10.8	24
115	The effects of ethanol on the size-exclusion characteristics of type I dentin collagen to adhesive resin monomers. <i>Acta Biomaterialia</i> , 2016 , 33, 235-41	10.8	10
114	Investigation of ethanol infiltration into demineralized dentin collagen fibrils using molecular dynamics simulations. <i>Acta Biomaterialia</i> , 2016 , 36, 175-85	10.8	17
113	Micro-Computed Tomography Assessment of Apical Accessory Canal Morphologies. <i>Journal of Endodontics</i> , 2016 , 42, 798-802	4.7	27
112	Mechanisms of degradation of the hybrid layer in adhesive dentistry and therapeutic agents to improve bond durability--A literature review. <i>Dental Materials</i> , 2016 , 32, e41-53	5.7	171
111	Occlusal loading and cross-linking effects on dentin collagen degradation in physiological conditions. <i>Dental Materials</i> , 2016 , 32, 192-9	5.7	15
110	On the stiffness of demineralized dentin matrices. <i>Dental Materials</i> , 2016 , 32, 161-70	5.7	12
109	Paucity of Nanolayering in Resin-Dentin Interfaces of MDP-based Adhesives. <i>Journal of Dental Research</i> , 2016 , 95, 380-7	8.1	40
108	Comparison of resin bonding improvements to zirconia between one-bottle universal adhesives and tribochemical silica coating, which is better?. <i>Dental Materials</i> , 2016 , 32, 403-11	5.7	64
107	Effects of a Dicalcium and Tetracalcium Phosphate-Based Desensitizer on In Vitro Dentin Permeability. <i>PLoS ONE</i> , 2016 , 11, e0158400	3.7	12
106	Bioinspired Collagen-Apatite Nanocomposites for Bone Regeneration. <i>Journal of Endodontics</i> , 2016 , 42, 1226-32	4.7	13
105	Activation of α A-adrenergic signal transduction in chondrocytes promotes degenerative remodelling of temporomandibular joint. <i>Scientific Reports</i> , 2016 , 6, 30085	4.9	24
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