# Franklin R Tay

#### 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.

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#	Paper	IF	Citations
264	Single-step adhesives are permeable membranes. <i>Journal of Dentistry</i> , <b>2002</b> , 30, 371-82	4.8	415
263	Geometric factors affecting dentin bonding in root canals: a theoretical modeling approach. <i>Journal of Endodontics</i> , <b>2005</b> , 31, 584-9	4.7	310
262	Quaternary ammonium-based biomedical materials: State-of-the-art, toxicological aspects and antimicrobial resistance. <i>Progress in Polymer Science</i> , <b>2017</b> , 71, 53-90	29.6	269
261	Monoblocks in root canals: a hypothetical or a tangible goal. <i>Journal of Endodontics</i> , <b>2007</b> , 33, 391-8	4.7	268
260	Guided tissue remineralisation of partially demineralised human dentine. <i>Biomaterials</i> , <b>2008</b> , 29, 1127-3	715.6	256
259	Effect of vapor lock on root canal debridement by using a side-vented needle for positive-pressure irrigant delivery. <i>Journal of Endodontics</i> , <b>2010</b> , 36, 745-50	4.7	228
258	Calcium phosphate phase transformation produced by the interaction of the portland cement component of white mineral trioxide aggregate with a phosphate-containing fluid. <i>Journal of Endodontics</i> , <b>2007</b> , 33, 1347-51	4.7	220
257	Water treeinga potential mechanism for degradation of dentin adhesives. <i>American Journal of Dentistry</i> , <b>2003</b> , 16, 6-12	1.3	214
256	Metal-Based Nanomaterials in Biomedical Applications: Antimicrobial Activity and Cytotoxicity Aspects. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910021	15.6	210
255	Have dentin adhesives become too hydrophilic?. <i>Journal of the Canadian Dental Association</i> , <b>2003</b> , 69, 726-31	2.1	187
254	Mechanisms of degradation of the hybrid layer in adhesive dentistry and therapeutic agents to improve bond durabilityA literature review. <i>Dental Materials</i> , <b>2016</b> , 32, e41-53	5.7	171
253	Bonding of universal adhesives to dentineOld wine in new bottles?. Journal of Dentistry, 2015, 43, 525	-3468	170
252	Role of dentin MMPs in caries progression and bond stability. <i>Journal of Dental Research</i> , <b>2015</b> , 94, 241-	<b>581.</b> 1	165
251	How can nanoleakage occur in self-etching adhesive systems that demineralize and infiltrate simultaneously?. <i>Journal of Adhesive Dentistry</i> , <b>2002</b> , 4, 255-69	3	163
250	Resin bonding to cervical sclerotic dentin: a review. <i>Journal of Dentistry</i> , <b>2004</b> , 32, 173-96	4.8	150
249	Collagen intrafibrillar mineralization as a result of the balance between osmotic equilibrium and electroneutrality. <i>Nature Materials</i> , <b>2017</b> , 16, 370-378	27	148
248	Dentin bonding systems: From dentin collagen structure to bond preservation and clinical applications. <i>Dental Materials</i> , <b>2018</b> , 34, 78-96	5.7	146

## (2019-2005)

247	Ultrastructural evaluation of the apical seal in roots filled with a polycaprolactone-based root canal filling material. <i>Journal of Endodontics</i> , <b>2005</b> , 31, 514-9	4.7	145
246	Aging affects two modes of nanoleakage expression in bonded dentin. <i>Journal of Dental Research</i> , <b>2003</b> , 82, 537-41	8.1	145
245	Single-bottle adhesives behave as permeable membranes after polymerization. I. In vivo evidence. <i>Journal of Dentistry</i> , <b>2004</b> , 32, 611-21	4.8	139
244	Biomimetic remineralization of resin-bonded acid-etched dentin. <i>Journal of Dental Research</i> , <b>2009</b> , 88, 719-24	8.1	129
243	Bonding BisGMA to dentina proof of concept for hydrophobic dentin bonding. <i>Journal of Dental Research</i> , <b>2007</b> , 86, 1034-9	8.1	127
242	Adhesive performance of a multi-mode adhesive system: 1-year in vitro study. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 603-12	4.8	122
241	Advances in Dental Materials through Nanotechnology: Facts, Perspectives and Toxicological Aspects. <i>Trends in Biotechnology</i> , <b>2015</b> , 33, 621-636	15.1	120
240	Self-etching adhesives increase collagenolytic activity in radicular dentin. <i>Journal of Endodontics</i> , <b>2006</b> , 32, 862-8	4.7	116
239	A review of the bioactivity of hydraulic calcium silicate cements. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 517-33	4.8	108
238	Factors contributing to the incompatibility between simplified-step adhesives and chemically-cured or dual-cured composites. Part I. Single-step self-etching adhesive. <i>Journal of Adhesive Dentistry</i> , <b>2003</b> , 5, 27-40	3	107
237	Resin permeation into acid-conditioned, moist, and dry dentin: a paradigm using water-free adhesive primers. <i>Journal of Dental Research</i> , <b>1996</b> , 75, 1034-44	8.1	106
236	Recent progress in the industrial and biomedical applications of tragacanth gum: A review. <i>Carbohydrate Polymers</i> , <b>2019</b> , 212, 450-467	10.3	102
235	Advances in Antimicrobial Microneedle Patches for Combating Infections. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002129	24	102
234	Novel Biomedical Applications of Crosslinked Collagen. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 464-491	15.1	101
233	An ultrastructural study of the influence of acidity of self-etching primers and smear layer thickness on bonding to intact dentin. <i>Journal of Adhesive Dentistry</i> , <b>2000</b> , 2, 83-98	3	96
232	Polymeric and inorganic nanoscopical antimicrobial fillers in dentistry. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 69-101	10.8	91
231	Susceptibility of a polycaprolactone-based root canal filling material to degradation. I. Alkaline hydrolysis. <i>Journal of Endodontics</i> , <b>2005</b> , 31, 593-8	4.7	89
230	Surface treatments on titanium implants via nanostructured ceria for antibacterial and anti-inflammatory capabilities. <i>Acta Biomaterialia</i> , <b>2019</b> , 94, 627-643	10.8	85

229	Intrafibrillar silicified collagen scaffold modulates monocyte to promote cell homing, angiogenesis and bone regeneration. <i>Biomaterials</i> , <b>2017</b> , 113, 203-216	15.6	83
228	Eskape Infection Control: Considerations and Caveats in Combating ESKAPE Pathogens against Nosocomial Infections (Adv. Sci. 1/2020). <i>Advanced Science</i> , <b>2020</b> , 7, 2070004	13.6	78
227	Considerations and Caveats in Combating ESKAPE Pathogens against Nosocomial Infections. <i>Advanced Science</i> , <b>2020</b> , 7, 1901872	13.6	78
226	Metal-Based Nanostructures/PLGA Nanocomposites: Antimicrobial Activity, Cytotoxicity, and Their Biomedical Applications. <i>ACS Applied Materials &amp; English Research</i> , 12, 3279-3300	9.5	77
225	Water treeing in simplified dentin adhesivesd¶vu?. Operative Dentistry, 2005, 30, 561-79	2.9	74
224	Carbodiimide inactivation of MMPs and effect on dentin bonding. <i>Journal of Dental Research</i> , <b>2014</b> , 93, 263-8	8.1	73
223	Effect of delayed activation of light-cured resin composites on bonding of all-in-one adhesives. Journal of Adhesive Dentistry, <b>2001</b> , 3, 207-25	3	73
222	Effect of smear layers on the bonding of a self-etching primer to dentin. <i>Journal of Adhesive Dentistry</i> , <b>2000</b> , 2, 99-116	3	72
221	Advancing antimicrobial strategies for managing oral biofilm infections. <i>International Journal of Oral Science</i> , <b>2019</b> , 11, 28	27.9	69
220	Is hard tissue formation in the dental pulp after the death of the primary odontoblasts a regenerative or a reparative process?. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 1156-70	4.8	67
219	Hierarchical Intrafibrillar Nanocarbonated Apatite Assembly Improves the Nanomechanics and Cytocompatibility of Mineralized Collagen. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1404-1411	15.6	66
218	Cytotoxicity and osteogenic potential of silicate calcium cements as potential protective materials for pulpal revascularization. <i>Dental Materials</i> , <b>2015</b> , 31, 1510-22	5.7	65
217	Comparison of resin bonding improvements to zirconia between one-bottle universal adhesives and tribochemical silica coating, which is better?. <i>Dental Materials</i> , <b>2016</b> , 32, 403-11	5.7	64
216	Biomimetic remineralization as a progressive dehydration mechanism of collagen matricesimplications in the aging of resin-dentin bonds. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 3729-39	10.8	64
215	Biological Activities and Potential Oral Applications of N-Acetylcysteine: Progress and Prospects. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 2835787	6.7	64
214	Effectiveness of resin-coated gutta-percha cones and a dual-cured, hydrophilic methacrylate resin-based sealer in obturating root canals. <i>Journal of Endodontics</i> , <b>2005</b> , 31, 659-64	4.7	63
213	Potential applications of antimicrobial peptides and their mimics in combating caries and pulpal infections. <i>Acta Biomaterialia</i> , <b>2017</b> , 49, 16-35	10.8	62
212	Antimicrobial gum bio-based nanocomposites and their industrial and biomedical applications. <i>Chemical Communications</i> , <b>2019</b> , 55, 14871-14885	5.8	62

#### (2005-1999)

211	Distribution of nanofillers from a simplified-step adhesive in acid-conditioned dentin. <i>Journal of Adhesive Dentistry</i> , <b>1999</b> , 1, 103-17	3	62
<b>2</b> 10	Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6858-6875	15.6	61
209	Ability of new obturation materials to improve the seal of the root canal system: a review. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 1050-1063	10.8	61
208	Susceptibility of a polycaprolactone-based root canal filling material to degradation. II. Gravimetric evaluation of enzymatic hydrolysis. <i>Journal of Endodontics</i> , <b>2005</b> , 31, 737-41	4.7	61
207	Dental adhesives of the future. Journal of Adhesive Dentistry, 2002, 4, 91-103	3	61
206	Defying ageing: An expectation for dentine bonding with universal adhesives?. <i>Journal of Dentistry</i> , <b>2016</b> , 45, 43-52	4.8	58
205	Advances in Antimicrobial Organic and Inorganic Nanocompounds in Biomedicine. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 2000024	4.9	57
204	The past, present and future perspectives of matrix metalloproteinase inhibitors. <i>Pharmacology &amp; Therapeutics</i> , <b>2020</b> , 207, 107465	13.9	54
203	Bondability of Resilon to a methacrylate-based root canal sealer. <i>Journal of Endodontics</i> , <b>2006</b> , 32, 133-	7 <sub>4.7</sub>	51
202	Osmotic blistering in enamel bonded with one-step self-etch adhesives. <i>Journal of Dental Research</i> , <b>2004</b> , 83, 290-5	8.1	50
201	The glass-ionomer phase in resin-based restorative materials. Journal of Dental Research, 2001, 80, 180	8812	50
<b>2</b> 00	Single-step, self-etch adhesives behave as permeable membranes after polymerization. Part II. Silver tracer penetration evidence. <i>American Journal of Dentistry</i> , <b>2004</b> , 17, 315-22	1.3	50
199	Can quaternary ammonium methacrylates inhibit matrix MMPs and cathepsins?. <i>Dental Materials</i> , <b>2015</b> , 31, e25-32	5.7	49
198	Water distribution in dentin matrices: bound vs. unbound water. <i>Dental Materials</i> , <b>2015</b> , 31, 205-16	5.7	48
197	3D and 4D printing in dentistry and maxillofacial surgery: Printing techniques, materials, and applications. <i>Acta Biomaterialia</i> , <b>2021</b> , 122, 26-49	10.8	48
196	Single-step, self-etch adhesives behave as permeable membranes after polymerization. Part I. Bond strength and morphologic evidence. <i>American Journal of Dentistry</i> , <b>2004</b> , 17, 271-8	1.3	47
195	Coupling of 10-methacryloyloxydecyldihydrogenphosphate to tetragonal zirconia: Effect of pH reaction conditions on coordinate bonding. <i>Dental Materials</i> , <b>2015</b> , 31, e218-25	5.7	46
194	Tubular occlusion prevents water-treeing and through-and-through fluid movement in a single-bottle, one-step self-etch adhesive model. <i>Journal of Dental Research</i> , <b>2005</b> , 84, 891-6	8.1	46

193	Microbe-Mediated Extracellular and Intracellular Mineralization: Environmental, Industrial, and Biotechnological Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907833	24	44
192	Vital pulp therapy: histopathology and histobacteriology-based guidelines to treat teeth with deep caries and pulp exposure. <i>Journal of Dentistry</i> , <b>2019</b> , 86, 41-52	4.8	43
191	Potential iatrogenic tetracycline staining of endodontically treated teeth via NaOCl/MTAD irrigation: a preliminary report. <i>Journal of Endodontics</i> , <b>2006</b> , 32, 354-8	4.7	43
190	Contribution of biomimetic collagen-ligand interaction to intrafibrillar mineralization. <i>Science Advances</i> , <b>2019</b> , 5, eaav9075	14.3	42
189	Biphasic silica/apatite co-mineralized collagen scaffolds stimulate osteogenesis and inhibit RANKL-mediated osteoclastogenesis. <i>Acta Biomaterialia</i> , <b>2015</b> , 19, 23-32	10.8	41
188	Primum non nocere - The effects of sodium hypochlorite on dentin as used in endodontics. <i>Acta Biomaterialia</i> , <b>2017</b> , 61, 144-156	10.8	41
187	Importance of age on the dynamic mechanical behavior of intertubular and peritubular dentin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2015</b> , 42, 229-42	4.1	40
186	Paucity of Nanolayering in Resin-Dentin Interfaces of MDP-based Adhesives. <i>Journal of Dental Research</i> , <b>2016</b> , 95, 380-7	8.1	40
185	Bonding of a self-etching primer to non-carious cervical sclerotic dentin: interfacial ultrastructure and microtensile bond strength evaluation. <i>Journal of Adhesive Dentistry</i> , <b>2000</b> , 2, 9-28	3	40
184	Effect of different conditioning protocols on adhesion of a GIC to dentin. <i>Journal of Adhesive Dentistry</i> , <b>2001</b> , 3, 153-67	3	39
183	Microporous, demineralized collagen matrices in intact radicular dentin created by commonly used calcium-depleting endodontic irrigants. <i>Journal of Endodontics</i> , <b>2007</b> , 33, 1086-90	4.7	38
182	Aggressiveness of self-etch adhesives on unground enamel. <i>Operative Dentistry</i> , <b>2004</b> , 29, 309-16	2.9	38
181	Bioactive tri/dicalcium silicate cements for treatment of pulpal and periapical tissues. <i>Acta Biomaterialia</i> , <b>2019</b> , 96, 35-54	10.8	37
180	Reduction in antimicrobial substantivity of MTAD after initial sodium hypochlorite irrigation. Journal of Endodontics, <b>2006</b> , 32, 970-5	4.7	37
179	<b>Q</b> -Adrenergic signal transduction plays a detrimental role in subchondral bone loss of temporomandibular joint in osteoarthritis. <i>Scientific Reports</i> , <b>2015</b> , 5, 12593	4.9	36
178	Effects of adsorbed and templated nanosilver in mesoporous calcium-silicate nanoparticles on inhibition of bacteria colonization of dentin. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 5217-30	7-3	34
177	Effect of nanolayering of calcium salts of phosphoric acid ester monomers on the durability of resin-dentin bonds. <i>Acta Biomaterialia</i> , <b>2016</b> , 38, 190-200	10.8	33
176	Contribution of Mitophagy to Cell-Mediated Mineralization: Revisiting a 50-Year-Old Conundrum. <i>Advanced Science</i> , <b>2018</b> , 5, 1800873	13.6	32

## (2014-2003)

175	Adhesive permeability affects composite coupling to dentin treated with a self-etch adhesive. <i>Operative Dentistry</i> , <b>2003</b> , 28, 610-21	2.9	32	
174	The overwet phenomenon: a scanning electron microscopic study of surface moisture in the acid-conditioned, resin-dentin interface. <i>American Journal of Dentistry</i> , <b>1996</b> , 9, 109-14	1.3	31	
173	Antibacterial and remineralizing orthodontic adhesive containing quaternary ammonium resin monomer and amorphous calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , <b>2018</b> , 72, 53-63	4.8	30	
172	Synergistic mechanism of Ag-Zn in anti-bacterial activity against Enterococcus faecalis and its application against dentin infection. <i>Journal of Nanobiotechnology</i> , <b>2018</b> , 16, 10	9.4	30	
171	Effect of a novel quaternary ammonium silane on dentin protease activities. <i>Journal of Dentistry</i> , <b>2017</b> , 58, 19-27	4.8	29	
170	Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <i>Chemosphere</i> , <b>2020</b> , 258, 127324	8.4	29	
169	In vitro biocompatibility and oxidative stress profiles of different hydraulic calcium silicate cements. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 255-60	4.7	28	
168	Pulpotomy for carious pulp exposures in permanent teeth: A systematic review and meta-analysis. <i>Journal of Dentistry</i> , <b>2019</b> , 84, 1-8	4.8	27	
167	Micro-Computed Tomography Assessment of Apical Accessory Canal Morphologies. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 798-802	4.7	27	
166	Novel nanotechnology and near-infrared photodynamic therapy to kill periodontitis-related biofilm pathogens and protect the periodontium. <i>Dental Materials</i> , <b>2019</b> , 35, 1665-1681	5.7	26	
165	Cross-linking effect on dentin bond strength and MMPs activity. Dental Materials, 2018, 34, 288-295	5.7	26	
164	The effects of water on degradation of the zirconia-resin bond. <i>Journal of Dentistry</i> , <b>2017</b> , 64, 23-29	4.8	25	
163	Biomimetic Intrafibrillar Mineralization of Type I Collagen with Intermediate Precursors-loaded Mesoporous Carriers. <i>Scientific Reports</i> , <b>2015</b> , 5, 11199	4.9	25	
162	Water-dependent interfacial transition zone in resin-modified glass-ionomer cement/dentin interfaces. <i>Journal of Dental Research</i> , <b>2004</b> , 83, 644-9	8.1	25	
161	Biofabricated Nanostructures and Their Composites in Regenerative Medicine. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6210-6238	5.6	24	
160	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> , <b>2016</b> , 31, 378-387	10.8	24	
159	Effect of flavonoids on the mechanical properties of demineralised dentine. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 1178-84	4.8	24	
158	Intrafibrillar-silicified collagen scaffolds enhance the osteogenic capacity of human dental pulp stem cells. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 839-49	4.8	24	

157	Activation of A-adrenergic signal transduction in chondrocytes promotes degenerative remodelling of temporomandibular joint. <i>Scientific Reports</i> , <b>2016</b> , 6, 30085	4.9	24
156	Effect of a novel quaternary ammonium silane cavity disinfectant on durability of resin-dentine bond. <i>Journal of Dentistry</i> , <b>2017</b> , 60, 77-86	4.8	23
155	On the durability of resin-dentin bonds: Identifying the weakest links. Dental Materials, 2015, 31, 1109-	<b>1§</b> .7	23
154	Antimicrobial activity of a quaternary ammonium methacryloxy silicate-containing acrylic resin: a randomised clinical trial. <i>Scientific Reports</i> , <b>2016</b> , 6, 21882	4.9	23
153	Optimizing resin-dentin bond stability using a bioactive adhesive with concomitant antibacterial properties and anti-proteolytic activities. <i>Acta Biomaterialia</i> , <b>2018</b> , 75, 171-182	10.8	23
152	Clinical/Translational Aspects of Advanced Glycation End-Products. <i>Trends in Endocrinology and Metabolism</i> , <b>2019</b> , 30, 959-973	8.8	23
151	Ultrastructure of intraradicular dentin after irrigation with BioPure MTAD. II. The consequence of obturation with an epoxy resin-based sealer. <i>Journal of Endodontics</i> , <b>2006</b> , 32, 473-7	4.7	23
150	Mechanical disruption of dentin collagen fibrils during resin-dentin bond testing. <i>Journal of Adhesive Dentistry</i> , <b>2000</b> , 2, 175-92	3	23
149	MMP-8-Responsive Polyethylene Glycol Hydrogel for Intraoral Drug Delivery. <i>Journal of Dental Research</i> , <b>2019</b> , 98, 564-571	8.1	22
148	Efficacy of 3D conforming nickel titanium rotary instruments in eliminating canal wall bacteria from oval-shaped root canals. <i>Journal of Dentistry</i> , <b>2015</b> , 43, 597-604	4.8	22
147	Novel Coating of Surgical Suture Confers Antimicrobial Activity Against Porphyromonas gingivalis and Enterococcus faecalis. <i>Journal of Periodontology</i> , <b>2015</b> , 86, 788-94	4.6	22
146	Recent Advances in Stimulus-Responsive Nanocarriers for Gene Therapy. <i>Advanced Science</i> , <b>2021</b> , 8, 210	00540	22
145	Involvement of prenucleation clusters in calcium phosphate mineralization of collagen. <i>Acta Biomaterialia</i> , <b>2021</b> , 120, 213-223	10.8	22
144	Protein-repelling adhesive resin containing calcium phosphate nanoparticles with repeated ion-recharge and re-releases. <i>Journal of Dentistry</i> , <b>2018</b> , 78, 91-99	4.8	22
143	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> , <b>2019</b> , 35, 1479-1489	5.7	21
142	Advances in biogenically synthesized shaped metal- and carbon-based nanoarchitectures and their medicinal applications. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 283, 102236	14.3	21
141	Chitosan-Based Extrafibrillar Demineralization for Dentin Bonding. <i>Journal of Dental Research</i> , <b>2019</b> , 98, 186-193	8.1	21
140	Anti-biofilm efficacy of root canal irrigants against in-situ Enterococcus faecalis biofilms in root canals, isthmuses and dentinal tubules. <i>Journal of Dentistry</i> , <b>2018</b> , 79, 68-76	4.8	21

## (2015-2017)

139	Substantivity of Carbodiimide Inhibition on Dentinal Enzyme Activity over Time. <i>Journal of Dental Research</i> , <b>2017</b> , 96, 902-908	8.1	20	
138	Chemical affinity of 10-methacryloyloxydecyl dihydrogen phosphate to dental zirconia: Effects of molecular structure and solvents. <i>Dental Materials</i> , <b>2017</b> , 33, e415-e427	5.7	20	
137	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> , <b>2019</b> , 52, 1354-1365	5.4	20	
136	Hydrophilicity of dentin bonding systems influences in vitro Streptococcus mutans biofilm formation. <i>Dental Materials</i> , <b>2014</b> , 30, 926-35	5.7	20	
135	Zoledronate and ion-releasing resins impair dentin collagen degradation. <i>Journal of Dental Research</i> , <b>2014</b> , 93, 999-1004	8.1	20	
134	Evaluation of the smear layer removal and decalcification effect of QMix, maleic acid and EDTA on root canal dentine. <i>Journal of Dentistry</i> , <b>2016</b> , 51, 62-8	4.8	19	
133	In vitro evaluation of antibacterial effect of AH Plus incorporated with quaternary ammonium epoxy silicate against Enterococcus faecalis. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 1611-5	4.7	19	
132	Bimodal antibacterial system based on quaternary ammonium silane-coupled core-shell hollow mesoporous silica. <i>Acta Biomaterialia</i> , <b>2019</b> , 85, 229-240	10.8	19	
131	Effect of chemical interaction on the bonding strengths of self-etching adhesives to deproteinised dentine. <i>Journal of Dentistry</i> , <b>2015</b> , 43, 973-80	4.8	18	
130	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> , <b>2018</b> , 73, 76-9	o <sup>4.8</sup>	18	
129	Inhibition of endogenous human dentin MMPs by Gluma. <i>Dental Materials</i> , <b>2014</b> , 30, 752-8	5.7	18	
128	Extrafibrillar collagen demineralization-based chelate-and-rinse technique bridges the gap between wet and dry dentin bonding. <i>Acta Biomaterialia</i> , <b>2017</b> , 57, 435-448	10.8	17	
127	Novel bioactive root canal sealer with antibiofilm and remineralization properties. <i>Journal of Dentistry</i> , <b>2019</b> , 83, 67-76	4.8	17	
126	Micro-CT evaluation of apical delta morphologies in human teeth. Scientific Reports, 2016, 6, 36501	4.9	17	
125	Investigation of ethanol infiltration into demineralized dentin collagen fibrils using molecular dynamics simulations. <i>Acta Biomaterialia</i> , <b>2016</b> , 36, 175-85	10.8	17	
124	Synthesis of antimicrobial silsesquioxaneBilica hybrids by hydrolytic co-condensation of alkoxysilanes. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 454-462	4.9	17	
123	Dipentaerythritol penta-acrylate phosphate - an alternative phosphate ester monomer for bonding of methacrylates to zirconia. <i>Scientific Reports</i> , <b>2016</b> , 6, 39542	4.9	17	
122	Effect of polyacrylic acid on dentin protease activities. <i>Dental Materials</i> , <b>2015</b> , 31, 901-6	5.7	16	

121	Antibacterial efficacy of an endodontic sonic-powered irrigation system: An in vitro study. <i>Journal of Dentistry</i> , <b>2018</b> , 75, 105-112	4.8	16
120	A Novel Dental Sealant Containing Dimethylaminohexadecyl Methacrylate Suppresses the Cariogenic Pathogenicity of Biofilms. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
119	Effects of quaternary ammonium-methacrylates on the mechanical properties of unfilled resins. <i>Dental Materials</i> , <b>2014</b> , 30, 1213-23	5.7	16
118	Bonding of resin cement to zirconia with high pressure primer coating. <i>PLoS ONE</i> , <b>2014</b> , 9, e101174	3.7	16
117	Adopting the principles of collagen biomineralization for intrafibrillar infiltration of yttria-stabilized zirconia into three-dimensional collagen scaffolds. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1895-1903	15.6	16
116	Cross-linked dry bonding: A new etch-and-rinse technique. <i>Dental Materials</i> , <b>2016</b> , 32, 1124-32	5.7	16
115	Novel multifunctional nanocomposite for root caries restorations to inhibit periodontitis-related pathogens. <i>Journal of Dentistry</i> , <b>2019</b> , 81, 17-26	4.8	16
114	Occlusal loading and cross-linking effects on dentin collagen degradation in physiological conditions. <i>Dental Materials</i> , <b>2016</b> , 32, 192-9	5.7	15
113	Norepinephrine Regulates Condylar Bone Loss via Comorbid Factors. <i>Journal of Dental Research</i> , <b>2015</b> , 94, 813-20	8.1	15
112	Water movement across bonded dentin - too much of a good thing. <i>Journal of Applied Oral Science</i> , <b>2004</b> , 12, 12-25	3.3	15
111	Enamel remineralization via poly(amido amine) and adhesive resin containing calcium phosphate nanoparticles. <i>Journal of Dentistry</i> , <b>2020</b> , 92, 103262	4.8	15
110	No-waiting dentine self-etch concept-Merit or hype. <i>Journal of Dentistry</i> , <b>2017</b> , 62, 54-63	4.8	14
109	Poly(amido amine) and rechargeable adhesive containing calcium phosphate nanoparticles for long-term dentin remineralization. <i>Journal of Dentistry</i> , <b>2019</b> , 85, 47-56	4.8	14
108	Effect of carboidiimide on thermal denaturation temperature of dentin collagen. <i>Dental Materials</i> , <b>2016</b> , 32, 492-8	5.7	14
107	Revival of nitrogen-containing bisphosphonate-induced inhibition of osteoclastogenesis and osteoclast function by water-soluble microfibrous borate glass. <i>Acta Biomaterialia</i> , <b>2016</b> , 31, 312-325	10.8	14
106	Effect of carbodiimide on the fatigue crack growth resistance of resin-dentin bonds. <i>Dental Materials</i> , <b>2016</b> , 32, 211-22	5.7	14
105	Effects of a discoloration-resistant calcium aluminosilicate cement on the viability and proliferation of undifferentiated human dental pulp stem cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 17177	4.9	14
104	Development of a new class of self-healing and therapeutic dental resins. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 163, 87-99	4.7	14

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103	Novel Bioactive and Therapeutic Root Canal Sealers with Antibacterial and Remineralization Properties. <i>Materials</i> , <b>2020</b> , 13,	3.5	13	
102	Biodegradable mesoporous delivery system for biomineralization precursors. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 839-854	7.3	13	
101	Effect of Matrix Metalloproteinase-inhibiting Solutions and Aging Methods on Dentin Bond Strength. <i>Journal of Adhesive Dentistry</i> , <b>2015</b> , 17, 347-52	3	13	
100	In vitro evaluation of composite containing DMAHDM and calcium phosphate nanoparticles on recurrent caries inhibition at bovine enamel-restoration margins. <i>Dental Materials</i> , <b>2020</b> , 36, 1343-1355	5 5.7	13	
99	Bioinspired Collagen-Apatite Nanocomposites for Bone Regeneration. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 1226-32	4.7	13	
98	Biological and synthetic template-directed syntheses of mineralized hybrid and inorganic materials. <i>Progress in Materials Science</i> , <b>2021</b> , 116, 100712	42.2	13	
97	Chlorhexidine preserves the hybrid layer in vitro after 10-years aging. <i>Dental Materials</i> , <b>2020</b> , 36, 672-6	<b>89</b> .7	12	
96	Zymography of Hybrid Layers Created Using Extrafibrillar Demineralization. <i>Journal of Dental Research</i> , <b>2018</b> , 97, 409-415	8.1	12	
95	On the stiffness of demineralized dentin matrices. <i>Dental Materials</i> , <b>2016</b> , 32, 161-70	5.7	12	
94	Association between bruxism and symptomatic gastroesophageal reflux disease: A case-control study. <i>Journal of Dentistry</i> , <b>2018</b> , 77, 51-58	4.8	12	
93	Bonding ability of 4-META self-etching primer used with 4-META/MMA-TBB resin to enamel and dentine: primary vs permanent teeth. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 425-31	4.8	12	
92	Effects of Acid Treatment on Dental Zirconia: An In Vitro Study. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136263	3.7	12	
91	Effects of a Dicalcium and Tetracalcium Phosphate-Based Desensitizer on In Vitro Dentin Permeability. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158400	3.7	12	
90	Histologic Response of Human Pulp and Periapical Tissues to Tricalcium Silicate-based Materials: A Series of Successfully Treated Cases. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 307-317	4.7	12	
89	Selective demineralisation of dentine extrafibrillar minerals-A potential method to eliminate water-wet bonding in the etch-and-rinse technique. <i>Journal of Dentistry</i> , <b>2016</b> , 52, 55-62	4.8	12	
88	Mechanism of bioactive molecular extraction from mineralized dentin by calcium hydroxide and tricalcium silicate cement. <i>Dental Materials</i> , <b>2018</b> , 34, 317-330	5.7	12	
87	Self-healing adhesive with antibacterial activity in water-aging for 12 months. <i>Dental Materials</i> , <b>2019</b> , 35, 1104-1116	5.7	11	
86	Effect of benzalkonium chloride on dentin bond strength and endogenous enzymatic activity.  Journal of Dentistry, <b>2019</b> , 85, 25-32	4.8	11	

85	A potential therapeutic target for regulating osteoporosis via suppression of osteoclast differentiation. <i>Journal of Dentistry</i> , <b>2019</b> , 82, 91-97	4.8	11
84	Herpes Zoster Involving the Second Division of the Trigeminal Nerve: Case Report and Literature Review. <i>Journal of Endodontics</i> , <b>2017</b> , 43, 1569-1573	4.7	11
83	Repair of composites: Effect of laser and different surface treatments. <i>International Journal of Adhesion and Adhesives</i> , <b>2015</b> , 59, 1-6	3.4	11
82	Matrix stiffening by self-mineralizable guided bone regeneration. <i>Acta Biomaterialia</i> , <b>2021</b> , 125, 112-12	.5 <sub>10.8</sub>	11
81	Pit and fissure sealing. Bonding of bulk-cured, low-filled, light-curing resins to bacteria-contaminated uncut enamel in high c-factor cavities. <i>American Journal of Dentistry</i> , <b>2005</b> , 18, 28-36	1.3	11
80	Susceptibility of a polycaprolactone-based root canal filling material to degradation. Evidence of biodegradation from a simulated field test. <i>American Journal of Dentistry</i> , <b>2007</b> , 20, 365-9	1.3	11
79	The effects of ethanol on the size-exclusion characteristics of type I dentin collagen to adhesive resin monomers. <i>Acta Biomaterialia</i> , <b>2016</b> , 33, 235-41	10.8	10
78	Associations among gastroesophageal reflux disease, mental disorders, sleep and chronic temporomandibular disorder: a case-control study. <i>Cmaj</i> , <b>2019</b> , 191, E909-E915	3.5	10
77	Isocyanate-terminated urethane-based dental adhesive bridges dentinal matrix collagen with adhesive resin. <i>Acta Biomaterialia</i> , <b>2019</b> , 83, 140-152	10.8	10
76	Experimental use of an acrolein-based primer as collagen cross-linker for dentine bonding. <i>Journal of Dentistry</i> , <b>2018</b> , 68, 85-90	4.8	10
75	Quaternary ammonium silane-based antibacterial and anti-proteolytic cavity cleanser. <i>Dental Materials</i> , <b>2018</b> , 34, 1814-1827	5.7	10
74	Effect of a one-step self-etch adhesive on endogenous dentin matrix metalloproteinases. <i>European Journal of Oral Sciences</i> , <b>2017</b> , 125, 168-172	2.3	9
73	Protection against HEMA-Induced Mitochondrial Injury by Nrf2 Activation. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 3501059	6.7	9
72	Pathological calcification in osteoarthritis: an outcome or a disease initiator?. <i>Biological Reviews</i> , <b>2020</b> , 95, 960-985	13.5	9
71	Macrophages enhance mesenchymal stem cell osteogenesis via down-regulation of reactive oxygen species. <i>Journal of Dentistry</i> , <b>2020</b> , 94, 103297	4.8	9
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69	Bioactive low-shrinkage-stress nanocomposite suppresses S. mutans biofilm and preserves tooth dentin hardness. <i>Acta Biomaterialia</i> , <b>2020</b> , 114, 146-157	10.8	9
68	Nonspherical Metal-Based Nanoarchitectures: Synthesis and Impact of Size, Shape, and Composition on Their Biological Activity. <i>Small</i> , <b>2021</b> , 17, e2007073	11	9

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67	Can long-term dentine bonding created in real life be forecasted by parameters established in the laboratory?. <i>Scientific Reports</i> , <b>2016</b> , 6, 37799	4.9	9
66	Mineralogenic characteristics of osteogenic lineage-committed human dental pulp stem cells following their exposure to a discoloration-free calcium aluminosilicate cement. <i>Dental Materials</i> , <b>2016</b> , 32, 1235-1247	5.7	9
65	Hollow mesoporous zirconia delivery system for biomineralization precursors. <i>Acta Biomaterialia</i> , <b>2018</b> , 67, 366-377	10.8	9
64	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101117	6.6	9
63	Endocytosis of abiotic nanomaterials and nanobiovectors: Inhibition of membrane trafficking. <i>Nano Today</i> , <b>2021</b> , 40, 101279	17.9	9
62	Effects of EDC crosslinking on the stiffness of dentin hybrid layers evaluated by nanoDMA over time. <i>Dental Materials</i> , <b>2017</b> , 33, 904-914	5.7	8
61	Micro-computed Tomographic Evaluation of the Prevalence, Distribution, and Morphologic Features of Accessory Canals in Chinese Permanent Teeth. <i>Journal of Endodontics</i> , <b>2019</b> , 45, 994-999	4.7	8
60	Polymer conjugation optimizes EDTA as a calcium-chelating agent that exclusively removes extrafibrillar minerals from mineralized collagen. <i>Acta Biomaterialia</i> , <b>2019</b> , 90, 424-440	10.8	8
59	Effects of multiple firings on the low-temperature degradation of dental yttria-stabilized tetragonal zirconia. <i>Journal of Prosthetic Dentistry</i> , <b>2016</b> , 115, 495-500	4	8
58	Role of Chlorhexidine on Long-term Bond Strength of Self-adhesive Composite Cements to Intraradicular Dentin. <i>Journal of Adhesive Dentistry</i> , <b>2017</b> , 19, 341-348	3	8
57	N-Acetyl Cysteine as a Novel Polymethyl Methacrylate Resin Component: Protection against Cell Apoptosis and Genotoxicity. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 1301736	6.7	7
56	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> , <b>2019</b> , 83, 87-94	4.8	7
55	Carbodiimide inactivation of matrix metalloproteinases in radicular dentine. <i>Journal of Dentistry</i> , <b>2019</b> , 82, 56-62	4.8	7
54	Water-associated attributes in the contemporary dentin bonding milieu. <i>Journal of Dentistry</i> , <b>2018</b> , 74, 79-89	4.8	7
53	Improved secondary caries resistance via augmented pressure displacement of antibacterial adhesive. <i>Scientific Reports</i> , <b>2016</b> , 6, 22269	4.9	7
52	Effects of smear layer removal agents on the physical properties and microstructure of mineral trioxide aggregate cement. <i>Journal of Dentistry</i> , <b>2017</b> , 66, 32-36	4.8	7
51	Susceptibility of contemporary single-bottle self-etch dentine adhesives to intrinsic water permeation. <i>Journal of Dentistry</i> , <b>2017</b> , 66, 52-61	4.8	7
50	Pulp and dentine responses to selective caries excavation: A histological and histobacteriological human study. <i>Journal of Dentistry</i> , <b>2020</b> , 100, 103430	4.8	7

49	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. <i>Journal of Dentistry</i> , <b>2019</b> , 91, 103231	4.8	7
48	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101107	6.6	7
47	In vitro Streptococcus mutans biofilm formation on surfaces of chlorhexidine-containing dentin bonding systems. <i>International Journal of Adhesion and Adhesives</i> , <b>2017</b> , 75, 23-30	3.4	6
46	Isocyanate-terminated urethane-based methacrylate for in situ collagen scaffold modification. <i>Materials Science and Engineering C</i> , <b>2020</b> , 112, 110902	8.3	6
45	Oropharyngeal Secretion as Alternative for SARS-CoV-2 Detection. <i>Journal of Dental Research</i> , <b>2020</b> , 99, 1199-1205	8.1	6
44	Antimicrobial efficacy of an apical negative pressure root canal irrigation system against intracanal microorganisms. <i>Journal of Dentistry</i> , <b>2018</b> , 72, 71-75	4.8	6
43	Collagen Mineralization: Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen (Adv. Funct. Mater. 38/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6850-6850	15.6	6
42	Quality of obturation achieved by a non-gutta-percha-based root filling system in single-rooted canals. <i>Journal of Endodontics</i> , <b>2014</b> , 40, 2003-8	4.7	6
41	Infiltration of Silica Inside Fibrillar Collagen. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 11892-11895	3.6	6
40	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> , <b>2017</b> , 7, 1582	4.9	5
39	Fatigue resistance of dentin bonds prepared with two- vs. three-step adhesives: Effect of carbodiimide. <i>Dental Materials</i> , <b>2017</b> , 33, 1340-1350	5.7	5
38	Novel antibacterial and therapeutic dental polymeric composites with the capability to self-heal cracks and regain mechanical properties. <i>European Polymer Journal</i> , <b>2020</b> , 129, 109604	5.2	5
37	Release of ICTP and CTX telopeptides from demineralized dentin matrices: Effect of time, mass and surface area. <i>Dental Materials</i> , <b>2018</b> , 34, 452-459	5.7	5
36	A mechanistic study of the interaction of water-soluble borate glass with apatite-bound heterocyclic nitrogen-containing bisphosphonates. <i>Acta Biomaterialia</i> , <b>2016</b> , 31, 339-347	10.8	5
35	Improving the wear performance of feldspathic veneering porcelain by ion-exchange strengthening. <i>Journal of Dentistry</i> , <b>2019</b> , 90, 103210	4.8	5
34	Effect of high-power-laser with and without graphite coating on bonding of resin cement to lithium disilicate ceramic. <i>Scientific Reports</i> , <b>2017</b> , 7, 17422	4.9	5
33	Microfibrous borate bioactive glass dressing sequesters bone-bound bisphosphonate in the presence of simulated body fluid. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 959-963	7.3	5
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31	Simultaneous Regeneration of Bone and Nerves Through Materials and Architectural Design: Are We There Yet?. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003542	15.6	5
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29	Influence of de/remineralization of enamel on the tensile bond strength of etch-and-rinse and self-etching adhesives. <i>American Journal of Dentistry</i> , <b>2016</b> , 29, 289-293	1.3	5
28	Differences in the microstructure and fatigue properties of dentine between residents of North and South America. <i>Archives of Oral Biology</i> , <b>2014</b> , 59, 1001-12	2.8	4
27	Multifunctional Nanomachinery for Enhancement of Bone Healing. Advanced Materials, 2021, e2107924	124	4
26	Micro-computed tomography evaluation of root canal filling quality with apical negative pressure. Journal of Dentistry, <b>2020</b> , 100, 103431	4.8	4
25	Smear Layer Removal Using Passive Ultrasonic Irrigation and Different Concentrations of Sodium Hypochlorite. <i>Journal of Endodontics</i> , <b>2020</b> , 46, 1738-1744	4.7	4
24	Topical application of phenytoin or nifedipine-loaded PLGA microspheres promotes periodontal regeneration in vivo. <i>Archives of Oral Biology</i> , <b>2019</b> , 97, 42-51	2.8	4
23	Biochemical and immunohistochemical identification of MMP-7 in human dentin. <i>Journal of Dentistry</i> , <b>2018</b> , 79, 90-95	4.8	4
22	A feasible method to eliminate nanoleakage in dentin hybrid layers. <i>Journal of Adhesive Dentistry</i> , <b>2014</b> , 16, 429-34	3	4
21	Quaternary ammonium silane, calcium and phosphorus-loaded PLGA submicron particles against Enterococcus faecalis infection of teeth: An in vitro and in vivo study. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110856	8.3	3
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19	Bioactivity of Mineral Trioxide Aggregate and Mechanism of Action <b>2014</b> , 61-85		3
18	Upregulation of mitochondrial dynamics is responsible for osteogenic differentiation of mesenchymal stem cells cultured on self-mineralized collagen membranes. <i>Acta Biomaterialia</i> , <b>2021</b> , 136, 137-146	10.8	3
17	Indirect posterior restorations using a new chairside microhybrid resin composite system. <i>Journal of Adhesive Dentistry</i> , <b>2001</b> , 3, 89-99	3	3
16	Extracellular DNA: A Missing Link in the Pathogenesis of Ectopic Mineralization <i>Advanced Science</i> , <b>2021</b> , e2103693	13.6	3
15	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> , <b>2017</b> , 57, 57-65	4.8	2
14	Effect of simulated intraosseous sinusoidal pressure on NaOCl extrusion. <i>Journal of Dentistry</i> , <b>2018</b> , 78, 46-50	4.8	2

13	Multiphase Intrafibrillar Mineralization of Collagen. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 5874-5878	3.6	2
12	Management of Large Radicular Lesions Using Decompression: A Case Series and Review of the Literature. <i>Journal of Endodontics</i> , <b>2019</b> , 45, 651-659	4.7	2
11	Polyphosphate-crosslinked collagen scaffolds for hemostasis and alveolar bone regeneration after tooth extraction <i>Bioactive Materials</i> , <b>2022</b> , 15, 68-81	16.7	2
10	Applications of Cryogenic Electron Microscopy in Biomineralization Research <i>Journal of Dental Research</i> , <b>2021</b> , 220345211053814	8.1	2
9	Air Entrapment in Demineralized Dentin Adversely Affects Bonding. <i>Journal of Adhesive Dentistry</i> , <b>2018</b> , 20, 249-259	3	2
8	Effect of passive ultrasonic irrigation on diffusion of hydroxyl ion through radicular dentine. <i>Clinical Oral Investigations</i> , <b>2016</b> , 20, 247-52	4.2	1
7	The Janus Nature of Nanohydroxyapatite in Tumor Progression. Advanced Functional Materials,2107599	915.6	1
6	Insights into cathepsin-B activity in mature dentin matrix. <i>Archives of Oral Biology</i> , <b>2020</b> , 117, 104830	2.8	1
5	In vivo and in vitro radiotherapy increased dentin enzymatic activity. <i>Journal of Dentistry</i> , <b>2020</b> , 100, 100	3429	0
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