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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.

226 papers	6,992 citations	49 h-index	72 g-index
231 ext. papers	7,919 ext. citations	4 avg, IF	5.76 L-index

#	Paper	IF	Citations
226	Reversal of compromised bonding to oxidized etched dentin. <i>Journal of Dental Research</i> , 2001 , 80, 1919-24	8.1	211
225	Limited decalcification/diffusion of self-adhesive cements into dentin. <i>Journal of Dental Research</i> , 2008 , 87, 974-9	8.1	183
224	Reversal of compromised bonding in bleached enamel. <i>Journal of Dental Research</i> , 2002 , 81, 477-81	8.1	162
223	Influence of surface treatments and resin cement selection on bonding to densely-sintered zirconium-oxide ceramic. <i>Dental Materials</i> , 2009 , 25, 172-9	5.7	148
222	Bonding to Er-YAG-laser-treated Dentin. <i>Journal of Dental Research</i> , 2002 , 81, 119-122	8.1	120
221	Influence of different surface treatments on surface zirconia frameworks. <i>Journal of Dentistry</i> , 2009 , 37, 891-7	4.8	118
220	Microleakage of composite restorations after acid or Er-YAG laser cavity treatments. <i>Dental Materials</i> , 2001 , 17, 340-6	5.7	117
219	Self-etching adhesives increase collagenolytic activity in radicular dentin. <i>Journal of Endodontics</i> , 2006 , 32, 862-8	4.7	116
218	Effect of water aging on microtensile bond strength of dual-cured resin cements to pre-treated sintered zirconium-oxide ceramics. <i>Dental Materials</i> , 2009 , 25, 392-9	5.7	112
217	Effect of simulated pulpal pressure on dentin permeability and adhesion of self-etch adhesives. <i>Dental Materials</i> , 2007 , 23, 705-13	5.7	112
216	Effect of dentin etching and chlorhexidine application on metalloproteinase-mediated collagen degradation. <i>European Journal of Oral Sciences</i> , 2011 , 119, 79-85	2.3	109
215	Zinc reduces collagen degradation in demineralized human dentin explants. <i>Journal of Dentistry</i> , 2011 , 39, 148-53	4.8	103
214	Sorption and solubility of resin-based restorative dental materials. <i>Journal of Dentistry</i> , 2003 , 31, 43-50	4.8	103
213	Durability of resin-dentin bonds: effects of direct/indirect exposure and storage media. <i>Dental Materials</i> , 2007 , 23, 885-92	5.7	100
212	Surface treatments for improving bond strength to prefabricated fiber posts: a literature review. <i>Operative Dentistry</i> , 2008 , 33, 346-55	2.9	97
211	Therapeutic effects of novel resin bonding systems containing bioactive glasses on mineral-depleted areas within the bonded-dentine interface. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 1521-32	4.5	86
210	Acid-etching and hydration influence on dentin roughness and wettability. <i>Journal of Dental Research</i> , 1999 , 78, 1554-9	8.1	81

209	Microtensile bond strength of total-etch and self-etching adhesives to caries-affected dentine. <i>Journal of Dentistry</i> , 2003 , 31, 469-77	4.8	80
208	Influence of self-etching primer on the resin adhesion to enamel and dentin. <i>American Journal of Dentistry</i> , 2001 , 14, 205-10	1.3	78
207	Histomorphologic characterization and bond strength evaluation of caries-affected dentin/resin interfaces: effects of long-term water exposure. <i>Dental Materials</i> , 2008 , 24, 786-98	5.7	77
206	Effect of simulated pulpal pressure on self-adhesive cements bonding to dentin. <i>Dental Materials</i> , 2008 , 24, 1156-63	5.7	73
205	Effect of temperature on the silane coupling agents when bonding core resin to quartz fiber posts. <i>Dental Materials</i> , 2006 , 22, 1024-8	5.7	73
204	Spatially resolved photopolymerization kinetics and oxygen inhibition in dental adhesives. <i>Biomaterials</i> , 2005 , 26, 1809-17	15.6	73
203	Effect of curing protocol on the polymerization of dual-cured resin cements. <i>Dental Materials</i> , 2010 , 26, 710-8	5.7	70
202	Immobilization of a phosphonated analog of matrix phosphoproteins within cross-linked collagen as a templating mechanism for biomimetic mineralization. <i>Acta Biomaterialia</i> , 2011 , 7, 268-77	10.8	68
201	Resistance of ten contemporary adhesives to resin-dentine bond degradation. <i>Journal of Dentistry</i> , 2008 , 36, 163-9	4.8	66
200	A Zn-doped etch-and-rinse adhesive may improve the mechanical properties and the integrity at the bonded-dentin interface. <i>Dental Materials</i> , 2013 , 29, e142-52	5.7	65
199	Polymerization efficacy of simplified adhesive systems studied by NMR and MRI techniques. <i>Dental Materials</i> , 2006 , 22, 963-72	5.7	63
198	Hydrolytic stability of experimental hydroxyapatite-filled dental composite materials. <i>Dental Materials</i> , 2003 , 19, 478-86	5.7	63
197	Morphological analysis of three zirconium oxide ceramics: Effect of surface treatments. <i>Dental Materials</i> , 2010 , 26, 751-60	5.7	62
196	EDTA treatment improves resin-dentin bonds Resistance to degradation. <i>Journal of Dental Research</i> , 2005 , 84, 736-40	8.1	62
195	A ZnO-doped adhesive reduced collagen degradation favouring dentine remineralization. <i>Journal of Dentistry</i> , 2012 , 40, 756-65	4.8	59
194	The dentine remineralization activity of a desensitizing bioactive glass-containing toothpaste: an in vitro study. <i>Australian Dental Journal</i> , 2011 , 56, 372-81	2.3	58
193	Zinc-inhibited MMP-mediated collagen degradation after different dentine demineralization procedures. <i>Caries Research</i> , 2012 , 46, 201-7	4.2	58
192	Influence of phosphoproteins/biomimetic analogs on remineralization of mineral-depleted resin-dentin interfaces created with ion-releasing resin-based systems. <i>Dental Materials</i> , 2015 , 31, 759-77	5.7	57

191	Non-destructive analysis in cultural heritage buildings: Evaluating the Mallorca cathedral supporting structures. <i>NDT and E International</i> , 2013 , 59, 40-47	4.1	57
190	Microhardness of superficial and deep sound human dentin. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 850-3		56
189	Effect of acid etching and collagen removal on dentin wettability and roughness. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 47, 198-203		56
188	Dental composites reinforced with hydroxyapatite: mechanical behavior and absorption/elution characteristics. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 56, 297-305		54
187	Resin-dentin bonds to EDTA-treated vs. acid-etched dentin using ethanol wet-bonding. <i>Dental Materials</i> , 2010 , 26, 368-79	5.7	53
186	Evaluation of two Bis-GMA analogues as potential monomer diluents to improve the mechanical properties of light-cured composite resins. <i>Dental Materials</i> , 2005 , 21, 823-30	5.7	53
185	Microtensile bond strength of several adhesive systems to different dentin depths. <i>American Journal of Dentistry</i> , 2003 , 16, 292-8	1.3	52
184	Ethanol wet-bonding technique sensitivity assessed by AFM. <i>Journal of Dental Research</i> , 2010 , 89, 1264-8	5.1	51
183	Differential expression of matrix metalloproteinase-2 in human coronal and radicular sound and carious dentine. <i>Journal of Dentistry</i> , 2010 , 38, 635-40	4.8	51
182	Differential effect of in vitro degradation on resin-dentin bonds produced by self-etch versus total-etch adhesives. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 128-35	5.4	51
181	Experimental resin cements containing bioactive fillers reduce matrix metalloproteinase-mediated dentin collagen degradation. <i>Journal of Endodontics</i> , 2012 , 38, 1227-32	4.7	50
180	Microleakage and interfacial morphology of self-etching adhesives in class V resin composite restorations. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 399-409		50
179	Dentin regional bond strength of self-etch and total-etch adhesive systems. <i>Dental Materials</i> , 2007 , 23, 1542-8	5.7	49
178	Microleakage of Class V resin-modified glass ionomer and compomer restorations. <i>Journal of Prosthetic Dentistry</i> , 1999 , 81, 610-5	4	48
177	Effect of the hydration on the biomechanical properties in a fibrin-agarose tissue-like model. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2573-82	5.4	47
176	EDTA or H3PO4/NaOCl dentine treatments may increase hybrid layers resistance to degradation: a microtensile bond strength and confocal-micropermeability study. <i>Journal of Dentistry</i> , 2009 , 37, 279-88	4.8	47
175	Dentin wetting by four adhesive systems. <i>Dental Materials</i> , 2001 , 17, 526-32	5.7	47
174	Zinc-doped dentin adhesive for collagen protection at the hybrid layer. <i>European Journal of Oral Sciences</i> , 2011 , 119, 401-10	2.3	45

173	Effect of cyclic loading on the microtensile bond strengths of total-etch and self-etch adhesives. <i>Operative Dentistry</i> , 2006 , 31, 25-32	2.9	45
172	Dynamic contact angle and spreading rate measurements for the characterization of the effect of dentin surface treatments. <i>Journal of Colloid and Interface Science</i> , 2003 , 263, 162-9	9.3	45
171	Dentin treatment effects on the bonding performance of self-adhesive resin cements. <i>European Journal of Oral Sciences</i> , 2010 , 118, 80-6	2.3	44
170	Primary dentin etching time, bond strength and ultra-structure characterization of dentin surfaces. <i>Journal of Dentistry</i> , 2010 , 38, 222-31	4.8	44
169	Effect of thermal cycling on the bond strength of self-adhesive cements to fiber posts. <i>Clinical Oral Investigations</i> , 2012 , 16, 909-15	4.2	43
168	Effect of sodium hypochlorite on dentin bonding with a polyalkenoic acid-containing adhesive system. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 60, 316-24		43
167	Magnesium phosphate cements for endodontic applications with improved long-term sealing ability. <i>International Endodontic Journal</i> , 2014 , 47, 127-39	5.4	41
166	Remineralisation properties of innovative light-curable resin-based dental materials containing bioactive micro-fillers. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2624-2638	7.3	41
165	Polymer nanocarriers for dentin adhesion. <i>Journal of Dental Research</i> , 2014 , 93, 1258-63	8.1	40
164	Influence of drying time and temperature on bond strength of contemporary adhesives to dentine. <i>Journal of Dentistry</i> , 2009 , 37, 315-20	4.8	40
163	Influence of the hydrostatic pulpal pressure on droplets formation in current etch-and-rinse and self-etch adhesives: a video rate/TSM microscopy and fluid filtration study. <i>Dental Materials</i> , 2009 , 25, 1392-402	5.7	39
162	Improving the quality of the quartz fiber postcore bond using sodium ethoxide etching and combined silane/adhesive coupling. <i>Journal of Endodontics</i> , 2006 , 32, 447-51	4.7	39
161	Novel light-curable materials containing experimental bioactive micro-fillers remineralise mineral-depleted bonded-dentine interfaces. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 940-56	3.5	38
160	In vitro vertical misfit evaluation of cast frameworks for cement-retained implant-supported partial prostheses. <i>Journal of Dentistry</i> , 2009 , 37, 52-8	4.8	38
159	Zinc induces apatite and scholzite formation during dentin remineralization. <i>Caries Research</i> , 2014 , 48, 276-90	4.2	37
158	Hydrolytic stability of composite repair bond. <i>European Journal of Oral Sciences</i> , 2007 , 115, 417-24	2.3	37
157	Bleaching agents increase metalloproteinases-mediated collagen degradation in dentin. <i>Journal of Endodontics</i> , 2011 , 37, 1668-72	4.7	36
156	Surface roughness analysis of fiber post conditioning processes. <i>Journal of Dental Research</i> , 2008 , 87, 186-90	8.1	35

155	Resistance to degradation of resin-dentin bonds using a one-step HEMA-free adhesive. <i>Journal of Dentistry</i> , 2007 , 35, 181-6	4.8	35
154	Tensile strength and microhardness of treated human dentin. <i>Dental Materials</i> , 2004 , 20, 522-9	5.7	35
153	An ultra-morphological characterization of collagen-depleted etched dentin. <i>American Journal of Dentistry</i> , 1999 , 12, 250-5	1.3	35
152	Bioactive Polymeric Nanoparticles for Periodontal Therapy. <i>PLoS ONE</i> , 2016 , 11, e0166217	3.7	34
151	Bioactivity of zinc-doped dental adhesives. <i>Journal of Dentistry</i> , 2014 , 42, 403-12	4.8	33
150	Dentin treatment with MMPs inhibitors does not alter bond strengths to caries-affected dentin. <i>Journal of Dentistry</i> , 2008 , 36, 1068-73	4.8	33
149	Assessment of the quality of resin-dentin bonded interfaces: an AFM nano-indentation, 3D BS and confocal ultramorphology study. <i>Dental Materials</i> , 2012 , 28, 622-31	5.7	32
148	Load cycling enhances bioactivity at the resin-dentin interface. <i>Dental Materials</i> , 2014 , 30, e169-88	5.7	30
147	Integrated near-surface geophysical survey of the Cathedral of Mallorca. <i>Journal of Archaeological Science</i> , 2009 , 36, 1289-1299	2.9	30
146	Contact angle hysteresis on dentin surfaces measured with ADSA on drops and bubbles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 206, 469-483	5.1	28
145	Bond strength of orthodontic brackets using different light and self-curing cements. <i>Angle Orthodontist</i> , 2003 , 73, 56-63	2.6	28
144	The effect of surface treatments on the microroughness of laser-sintered and vacuum-cast base metal alloys for dental prosthetic frameworks. <i>Microscopy Research and Technique</i> , 2012 , 75, 1206-12	2.8	27
143	Effects of adhesive systems and luting agents on bonding of fiber posts to root canal dentin. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 77, 195-200	3.5	27
142	Increases in dentin-bond strength if doubling application time of an acetone-containing one-step adhesive. <i>Operative Dentistry</i> , 2007 , 32, 133-7	2.9	27
141	Effect of load cycling and in vitro degradation on resin-dentin bonds using a self-etching primer. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 72, 399-408	5.4	27
140	Resistance to degradation of resin-modified glass-ionomer cements dentine bonds. <i>Journal of Dentistry</i> , 2009 , 37, 342-7	4.8	26
139	Ions-modified nanoparticles affect functional remineralization and energy dissipation through the resin-dentin interface. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 68, 62-79	4.1	25
138	Self-etching zinc-doped adhesives improve the potential of caries-affected dentin to be functionally remineralized. <i>Biointerphases</i> , 2015 , 10, 031002	1.8	25

137	Effect of the flavonoid epigallocatechin-3-gallate on resin-dentin bond strength. <i>Journal of Adhesive Dentistry</i> , 2013 , 15, 535-40	3	25
136	Improved reactive nanoparticles to treat dentin hypersensitivity. <i>Acta Biomaterialia</i> , 2018 , 72, 371-380	10.8	24
135	In vitro load-induced dentin collagen-stabilization against MMPs degradation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 27, 10-8	4.1	24
134	Resin-dentin bonds to EDTA-treated vs. acid-etched dentin using ethanol wet-bonding. Part II: Effects of mechanical cycling load on microtensile bond strengths. <i>Dental Materials</i> , 2011 , 27, 563-72	5.7	24
133	Effect of different surface treatments on In-Ceram Alumina roughness. An AFM study. <i>Journal of Dentistry</i> , 2010 , 38, 118-22	4.8	24
132	Novel potential scaffold for periodontal tissue engineering. <i>Clinical Oral Investigations</i> , 2017 , 21, 2695-2707	4.07	23
131	Optical properties of non-stoichiometric SiO ₂ as a function of excess silicon content and thermal treatments. <i>Thin Solid Films</i> , 1995 , 270, 114-117	2.2	23
130	Antibacterial effects of polymeric PolymP-n Active nanoparticles. An in vitro biofilm study. <i>Dental Materials</i> , 2019 , 35, 156-168	5.7	23
129	Effect of bacterial collagenase on resin-dentin bonds degradation. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 2355-61	4.5	22
128	Microhardness of acid-treated and resin infiltrated human dentine. <i>Journal of Dentistry</i> , 2005 , 33, 349-54	4.8	22
127	Bracket bonding with 15- or 60-second etching and adhesive remaining on enamel after debonding. <i>Angle Orthodontist</i> , 1999 , 69, 45-8	2.6	22
126	Zinc-modified nanopolymers improve the quality of resin-dentin bonded interfaces. <i>Clinical Oral Investigations</i> , 2016 , 20, 2411-2420	4.2	21
125	In vitro mechanical stimulation promoted remineralization at the resin/dentin interface. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 30, 61-74	4.1	21
124	Modified Polymeric Nanoparticles Exert In Vitro Antimicrobial Activity Against Oral Bacteria. <i>Materials</i> , 2018 , 11,	3.5	19
123	Effect of double layering and prolonged application time on MTBS of water/ethanol-based self-etch adhesives to dentin. <i>Operative Dentistry</i> , 2009 , 34, 571-7	2.9	19
122	Hybrid layers of etch-and-rinse versus self-etching adhesive systems. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2010 , 15, e112-8	2.6	19
121	Zinc incorporation improves biological activity of beta-tricalcium silicate resin-based cement. <i>Journal of Endodontics</i> , 2014 , 40, 1840-5	4.7	18
120	Remineralization of mechanical loaded resin-dentin interface: a transitional and synchronized multistep process. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014 , 13, 1289-302	3.8	18

119	Differential bonds degradation of two resin-modified glass-ionomer cements in primary and permanent teeth. <i>Journal of Dentistry</i> , 2009 , 37, 857-64	4.8	18
118	Influence of NaOCl deproteinization on shear bond strength in function of dentin depth. <i>American Journal of Dentistry</i> , 2002 , 15, 252-5	1.3	18
117	Influence of dentin acid-etching and NaOCl-treatment on bond strengths of self-etch adhesives. <i>American Journal of Dentistry</i> , 2008 , 21, 44-8	1.3	18
116	Doxycycline and Zinc Loaded Silica-Nanofibrous Polymers as Biomaterials for Bone Regeneration. <i>Polymers</i> , 2020 , 12,	4.5	17
115	Differential Biodegradation Kinetics of Collagen Membranes for Bone Regeneration. <i>Polymers</i> , 2020 , 12,	4.5	17
114	Differential resin-dentin bonds created after caries removal with polymer burs. <i>Microscopy and Microanalysis</i> , 2012 , 18, 497-508	0.5	17
113	Novel light-cured resins and composites with improved physicochemical properties. <i>Dental Materials</i> , 2007 , 23, 1189-98	5.7	17
112	Sorption and solubility testing of orthodontic bonding cements in different solutions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 76, 251-6	3.5	17
111	Polyaspartic acid enhances dentine remineralization bonded with a zinc-doped Portland-based resin cement. <i>International Endodontic Journal</i> , 2016 , 49, 874-883	5.4	17
110	Effect of the hydration status of the smear layer on the wettability and bond strength of a self-etching primer to dentin. <i>American Journal of Dentistry</i> , 2004 , 17, 310-4	1.3	17
109	Advanced zinc-doped adhesives for high performance at the resin-carious dentin interface. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 62, 247-267	4.1	16
108	Effect of dentin deproteinization on microleakage of Class V composite restorations. <i>Operative Dentistry</i> , 2000 , 25, 497-504	2.9	16
107	Bond strength and bioactivity of Zn-doped dental adhesives promoted by load cycling. <i>Microscopy and Microanalysis</i> , 2015 , 21, 214-30	0.5	15
106	Polymeric nanoparticles for endodontic therapy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 103, 103606	4.1	15
105	Novel non-resorbable polymeric-nanostructured scaffolds for guided bone regeneration. <i>Clinical Oral Investigations</i> , 2020 , 24, 2037-2049	4.2	15
104	Functional and molecular structural analysis of dentine interfaces promoted by a Zn-doped self-etching adhesive and an in vitro load cycling model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 50, 131-49	4.1	14
103	Effect of in vitro chewing and bruxism events on remineralization, at the resin-dentin interface. <i>Journal of Biomechanics</i> , 2015 , 48, 14-21	2.9	14
102	Resistance to bond degradation between dual-cure resin cements and pre-treated sintered CAD-CAM dental ceramics. <i>Medicina Oral, Patología Oral Y Cirugía Bucal</i> , 2012 , 17, e669-77	2.6	14

101	Adjunctive use of an anti-oxidant agent to improve resistance of hybrid layers to degradation. <i>Journal of Dentistry</i> , 2011 , 39, 80-7	4.8	14
100	Work of fracture of a composite resin: fracture-toughening mechanisms. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 751-8	5.4	14
99	Resistance to degradation of resin-dentin bonds produced by one-step self-etch adhesives. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1480-93	0.5	13
98	Ex vivo investigations on bioinspired electrospun membranes as potential biomaterials for bone regeneration. <i>Journal of Dentistry</i> , 2020 , 98, 103359	4.8	13
97	MMPs activity and bond strength in deciduous dentine-resin bonded interfaces. <i>Journal of Dentistry</i> , 2013 , 41, 549-55	4.8	12
96	Surface microanalysis and chemical imaging of early dentin remineralization. <i>Microscopy and Microanalysis</i> , 2014 , 20, 245-56	0.5	12
95	Effect of water contamination on the shear bond strength of five orthodontic adhesives. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2010 , 15, e820-6	2.6	12
94	Sealing properties of one-step root-filling fibre post-obturators vs. two-step delayed fibre post-placement. <i>Journal of Dentistry</i> , 2010 , 38, 547-52	4.8	12
93	Microleakage and SEM interfacial micromorphology of amalgam restorations using three adhesive systems. <i>Journal of Dentistry</i> , 2000 , 28, 423-8	4.8	12
92	Hydroxyapatite-based cements induce different apatite formation in radicular dentin. <i>Dental Materials</i> , 2020 , 36, 167-178	5.7	12
91	State of the Art on Biomaterials for Soft Tissue Augmentation in the Oral Cavity. Part I: Natural Polymers-Based Biomaterials. <i>Polymers</i> , 2020 , 12,	4.5	12
90	Sealing effectiveness of etch-and-rinse vs self-etching adhesives after water aging: influence of acid etching and NaOCl dentin pretreatment. <i>Journal of Adhesive Dentistry</i> , 2008 , 10, 183-8	3	12
89	Ex vivo detection and characterization of remineralized carious dentin, by nanoindentation and single point Raman spectroscopy, after amalgam restoration. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 384-392	2.3	11
88	Early dentine remineralisation: morpho-mechanical assessment. <i>Journal of Dentistry</i> , 2014 , 42, 384-94	4.8	11
87	Evaluation of the micro-mechanical strength of resin bonded-dentin interfaces submitted to short-term degradation strategies. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 15, 112-20	4.1	11
86	Polymeric nanoparticles protect the resin-dentin bonded interface from cariogenic biofilm degradation. <i>Acta Biomaterialia</i> , 2020 , 111, 316-326	10.8	11
85	Zn-doping of silicate and hydroxyapatite-based cements: Dentin mechanobiology and bioactivity. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 114, 104232	4.1	11
84	Testing active membranes for bone regeneration: A review. <i>Journal of Dentistry</i> , 2021 , 105, 103580	4.8	11

83	On modeling and nanoanalysis of caries-affected dentin surfaces restored with Zn-containing amalgam and in vitro oral function. <i>Biointerphases</i> , 2015 , 10, 041004	1.8	10
82	Children's dental anxiety: influence of personality and intelligence factors. <i>International Journal of Paediatric Dentistry</i> , 1995 , 5, 23-8	3.1	10
81	Influence of application parameters on bond strength of an "all in one" water-based self-etching primer/adhesive after 6 and 12 months of water aging. <i>Odontology / the Society of the Nippon Dental University</i> , 2010 , 98, 117-25	3.6	10
80	Post silanization improves bond strength of translucent posts to flowable composite resins. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 82, 320-4	3.5	10
79	Antimicrobial effect of nanostructured membranes for guided tissue regeneration: an in vitro study. <i>Dental Materials</i> , 2020 , 36, 1566-1577	5.7	10
78	Influence of laboratory degradation methods and bonding application parameters on microTBS of self-etch adhesives to dentin. <i>American Journal of Dentistry</i> , 2011 , 24, 103-8	1.3	10
77	A zinc chloride-doped adhesive facilitates sealing at the dentin interface: A confocal laser microscopy study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 74, 35-42	4.1	9
76	A zinc oxide-modified hydroxyapatite-based cement facilitated new crystalline-stoichiometric and amorphous apatite precipitation on dentine. <i>International Endodontic Journal</i> , 2017 , 50 Suppl 2, e109-e119	5.4	9
75	Microanalysis of thermal-induced changes at the resin-dentin interface. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1218-33	0.5	9
74	Bonding efficacy of an acetone/based etch-and-rinse adhesive after dentin deproteinization. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2012 , 17, e649-54	2.6	9
73	Effect of cyclic loading on bonding of fiber posts to root canal dentin. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 86, 264-9	3.5	9
72	Mechanical and chemical characterisation of demineralised human dentine after amalgam restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 47, 65-76	4.1	8
71	A zinc oxide-modified hydroxyapatite-based cement favored sealing ability in endodontically treated teeth. <i>Journal of Dentistry</i> , 2019 , 88, 103162	4.8	8
70	Differential nanofiller cluster formations in dental adhesive systems. <i>Microscopy Research and Technique</i> , 2012 , 75, 749-57	2.8	8
69	Effect of alloy type and casting technique on the fracture strength of implant-cemented structures. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2011 , 16, e619-25	2.6	8
68	Comparison of bond stability between dual-cure resin cements and pretreated glass-infiltrated alumina ceramics. <i>Photomedicine and Laser Surgery</i> , 2011 , 29, 465-75		8
67	Characterization of micro- and nanophase separation of dentin bonding agents by stereoscopy and atomic force microscopy. <i>Microscopy and Microanalysis</i> , 2012 , 18, 279-88	0.5	8
66	Novel Polymeric Nanocarriers Reduced Zinc and Doxycycline Toxicity in the Nematode. <i>Antioxidants</i> , 2019 , 8,	7.1	8

65	Effect of zinc-doping in physicochemical properties of dental adhesives. <i>American Journal of Dentistry</i> , 2015 , 28, 292-6	1.3	8
64	Nanoscopic dynamic mechanical analysis of resin-infiltrated dentine, under in vitro chewing and bruxism events. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 54, 33-47	4.1	7
63	Biochemical assessment of nanostructures in human trabecular bone: Proposal of a Raman microspectroscopy based measurements protocol. <i>Injury</i> , 2018 , 49 Suppl 2, S11-S21	2.5	7
62	Surface Analysis of Conditioned Dentin and ResinDentin Bond Strength. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 27-40	2	7
61	In vitro hydrolytic degradation of composite quartz fiber-post bonds created by hydrophilic silane couplings. <i>Operative Dentistry</i> , 2006 , 31, 728-33	2.9	7
60	Short-term changes in lymphocytes after placement of silver amalgam restorations in healthy subjects. <i>Dental Materials</i> , 1995 , 11, 323-6	5.7	7
59	Doxycycline-Doped Polymeric Membranes Induced Growth, Differentiation and Expression of Antigenic Phenotype Markers of Osteoblasts. <i>Polymers</i> , 2021 , 13,	4.5	7
58	Zinc and silica are active components to efficiently treat in vitro simulated eroded dentin. <i>Clinical Oral Investigations</i> , 2018 , 22, 2859-2870	4.2	7
57	Effect of adhesive systems and surface treatment of methacrylate resin-based fiber posts on post-resin-dentin bonds. <i>American Journal of Dentistry</i> , 2007 , 20, 231-4	1.3	7
56	Resistance to thermo-mechanical stress of different coupling agents used as intermediate layer in resin-fiber post bonds. <i>American Journal of Dentistry</i> , 2007 , 20, 416-20	1.3	7
55	Ion-modified nanoparticles induce different apatite formation in cervical dentine. <i>International Endodontic Journal</i> , 2018 , 51, 1019-1029	5.4	6
54	In vitro mechanical stimulation facilitates stress dissipation and sealing ability at the conventional glass ionomer cement-dentin interface. <i>Journal of Dentistry</i> , 2018 , 73, 61-69	4.8	6
53	Zinc-Containing Restorations Create Amorphous Biogenic Apatite at the Carious Dentin Interface: A X-Ray Diffraction (XRD) Crystal Lattice Analysis. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1034-1046	0.5	6
52	Submicron-to-nanoscale structure characterization and organization of crystals in dentin bioapatites. <i>RSC Advances</i> , 2016 , 6, 45265-45278	3.7	6
51	Zn-containing polymer nanogels promote cervical dentin remineralization. <i>Clinical Oral Investigations</i> , 2019 , 23, 1197-1208	4.2	6
50	Wetting ability of an acetone/based etch&rinse adhesive after NaOCl-treatment. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2012 , 17, e644-8	2.6	6
49	ElectroBond application may improve wetting characteristics of etched dentine. <i>Journal of Dentistry</i> , 2011 , 39, 180-6	4.8	6
48	Ultra-structure characterization of self-etching treated cementum surfaces. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2011 , 16, e265-70	2.6	6

47	Protein adsorption and bioactivity of functionalized electrospun membranes for bone regeneration. <i>Journal of Dentistry</i> , 2020 , 102, 103473	4.8	6
46	Zn-Containing Membranes for Guided Bone Regeneration in Dentistry. <i>Polymers</i> , 2021 , 13,	4.5	6
45	Doxycycline-doped membranes induced osteogenic gene expression on osteoblastic cells. <i>Journal of Dentistry</i> , 2021 , 109, 103676	4.8	6
44	Doxycycline-functionalized polymeric nanoparticles inhibit <i>Enterococcus faecalis</i> biofilm formation on dentine. <i>International Endodontic Journal</i> , 2021 , 54, 413-426	5.4	6
43	Silver improves collagen structure and stability at demineralized dentin: A dynamic-mechanical and Raman analysis. <i>Journal of Dentistry</i> , 2018 , 79, 61-67	4.8	6
42	Assessing bone quality through mechanical properties in postmenopausal trabecular bone. <i>Injury</i> , 2018 , 49 Suppl 2, S3-S10	2.5	6
41	The Collagen Origin Influences the Degradation Kinetics of Guided Bone Regeneration Membranes. <i>Polymers</i> , 2021 , 13,	4.5	6
40	Mechanical loading influences the viscoelastic performance of the resin-carious dentin complex. <i>Biointerphases</i> , 2017 , 12, 021001	1.8	5
39	Nanostructure in the trabecular bone of postmenopausal women: Mechanical and chemical analysis. <i>Injury</i> , 2017 , 48 Suppl 6, S26-S33	2.5	5
38	State of the Art on Biomaterials for Soft Tissue Augmentation in the Oral Cavity. Part II: Synthetic Polymers-Based Biomaterials. <i>Polymers</i> , 2020 , 12,	4.5	5
37	Alveolar Bone Ridge Augmentation Using Polymeric Membranes: A Systematic Review and Meta-Analysis. <i>Polymers</i> , 2021 , 13,	4.5	5
36	The mineralizing effect of zinc oxide-modified hydroxyapatite-based sealer on radicular dentin. <i>Clinical Oral Investigations</i> , 2020 , 24, 285-299	4.2	5
35	Efficacy of local antibiotic therapy in the treatment of peri-implantitis: A systematic review and meta-analysis. <i>Journal of Dentistry</i> , 2021 , 113, 103790	4.8	5
34	New Advanced Materials for High Performance at the Resin-Dentine Interface. <i>Frontiers of Oral Biology</i> , 2015 , 17, 39-48		5
33	Oral Function Improves Interfacial Integrity and Sealing Ability Between Conventional Glass Ionomer Cements and Dentin. <i>Microscopy and Microanalysis</i> , 2017 , 23, 131-144	0.5	4
32	A novel bioactive agent improves adhesion of resin-modified glass-ionomer to dentin. <i>Journal of Adhesion Science and Technology</i> , 2015 , 29, 1543-1552	2	4
31	SEM and AFM characterization of surface of two RMGICs for degradation before and after modification with bioactive glass ceramic. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 621-632 ²		4
30	Improved Sealing and Remineralization at the Resin-Dentin Interface After Phosphoric Acid Etching and Load Cycling. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1530-1548	0.5	4

29	One-step self-etching adhesive polymerization: influence of a self-curing activator. <i>Journal of Dentistry</i> , 2009 , 37, 616-21	4.8	4
28	Polymerization kinetics and mechanical characterization of new formulations of light-cured dental sealants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 80, 18-24	3.5	4
27	Influence of enamel prophylaxis on wettability of three commercially available orthophosphoric acids. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 33, 269-74		4
26	Collagen Matrix vs. Autogenous Connective Tissue Graft for Soft Tissue Augmentation: A Systematic Review and Meta-Analysis. <i>Polymers</i> , 2021 , 13,	4.5	4
25	Stored potential energy increases and elastic properties alterations are produced after restoring dentin with Zn-containing amalgams. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 91, 109-121	4.1	4
24	In Vitro Biodegradation Pattern of Collagen Matrices for Soft Tissue Augmentation. <i>Polymers</i> , 2021 , 13,	4.5	4
23	Masticatory function induced changes, at subnanostructural level, in proteins and mineral at the resin-dentine interface. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 39, 197-209	4.1	3
22	Effect of Etching Time on Resin-Primary Dentin Adhesion and Degradation of Interfaces. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 1053-1067	2	3
21	Bond strength of an etch-and-rinse adhesive to KrF excimer laser-treated dentin. <i>Photomedicine and Laser Surgery</i> , 2010 , 28, 97-102		3
20	Polymeric zinc-doped nanoparticles for high performance in restorative dentistry. <i>Journal of Dentistry</i> , 2021 , 107, 103616	4.8	3
19	Effect of functionalized PHEMA micro- and nano-particles on the viscoelastic properties of fibrin-agarose biomaterials. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 738-745	5.4	3
18	Silver-loaded nanoparticles affect ex-vivo mechanical behavior and mineralization of dentin. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2019 , 24, e156-e164	2.6	2
17	Digital image analysis method to assess the performance of conventional and self-limiting concepts in dentine caries removal. <i>Journal of Dentistry</i> , 2013 , 41 Suppl 3, e31-8	4.8	2
16	Determining efficacy of monitoring devices on ceramic bond to resin composite. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2012 , 17, e833-40	2.6	2
15	Bond strength and nanoroughness assessment on human pretreated cementum surfaces. <i>Journal of Dentistry</i> , 2010 , 38, 678-85	4.8	2
14	A zinc-doped endodontic cement facilitates functional mineralization and stress dissipation at the dentin surface. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2018 , 23, e646-e655	2.6	2
13	Efficacy and micro-characterization of pathophysiological events on caries-affected dentin treated with glass-ionomer cements. <i>International Journal of Adhesion and Adhesives</i> , 2016 , 69, 91-109	3.4	2
12	Biomaterials for catalysed mineralization of dental hard tissues 2016 , 365-376		2

11	Longevity of bonds made by composite and polyacid-modified resins to dentin using a dual-cured adhesive system. <i>American Journal of Dentistry</i> , 2005 , 18, 19-22	1.3	2
10	Antibiotic-Loaded Polymeric Barrier Membranes for Guided Bone/Tissue Regeneration: A Mini-Review.. <i>Polymers</i> , 2022 , 14,	4.5	2
9	Inter-individual gene variants associated with trabecular bone plasticity: A step forward in the personal genomics of degenerative bone disease. <i>Injury</i> , 2017 , 48 Suppl 6, S12-S25	2.5	1
8	Influence of Surface Nano-roughness of Dental Alumina Ceramic on Bond Strength to Dual-Cure Resin Cements. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 2909-2922	2	1
7	Antibacterial Effect of Functionalized Polymeric Nanoparticles on Titanium Surfaces Using an In Vitro Subgingival Biofilm Model.. <i>Polymers</i> , 2022 , 14,	4.5	1
6	Melatonin-doped polymeric nanoparticles reinforce and remineralize radicular dentin: Morpho-histological, chemical and biomechanical studies. <i>Dental Materials</i> , 2021 , 37, 1107-1120	5.7	1
5	Melatonin-doped polymeric nanoparticles induce high crystalline apatite formation in root dentin. <i>Dental Materials</i> , 2021 , 37, 1698-1713	5.7	1
4	Valutazione della rugosità dello smalto in seguito a trattamenti di air-polishing eseguiti con vetri bioattivi. <i>Prevenzione & Assistenza Dentale</i> , 2011 , 37, 123-129		
3	Critical appraisal: longevity of resin bonds to dentin. <i>Journal of Esthetic and Restorative Dentistry</i> , 2009 , 21, 348-54	3.5	
2	A new ISFET technology with back contacts using deep diffusions. <i>Sensors and Actuators B: Chemical</i> , 1997 , 40, 155-159	8.5	
1	Novel Bioadhesives for Restorative Dentistry. <i>Materials Science Forum</i> , 2008 , 587-588, 682-686	0.4	