

Raquel Osorio

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1283045/publications.pdf>

Version: 2024-02-01

229
papers

8,990
citations

28274

55
h-index

60623

81
g-index

231
all docs

231
docs citations

231
times ranked

5120
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversal of Compromised Bonding to Oxidized Etched Dentin. <i>Journal of Dental Research</i> , 2001, 80, 1919-1924.	5.2	253
2	Limited Decalcification/Diffusion of Self-adhesive Cements into Dentin. <i>Journal of Dental Research</i> , 2008, 87, 974-979.	5.2	232
3	Reversal of Compromised Bonding in Bleached Enamel. <i>Journal of Dental Research</i> , 2002, 81, 477-481.	5.2	206
4	Influence of surface treatments and resin cement selection on bonding to densely-sintered zirconium-oxide ceramic. <i>Dental Materials</i> , 2009, 25, 172-179.	3.5	183
5	Bonding to Er-YAG-laser-treated Dentin. <i>Journal of Dental Research</i> , 2002, 81, 119-122.	5.2	160
6	Influence of different surface treatments on surface zirconia frameworks. <i>Journal of Dentistry</i> , 2009, 37, 891-897.	4.1	152
7	Effect of simulated pulpal pressure on dentin permeability and adhesion of self-etch adhesives. <i>Dental Materials</i> , 2007, 23, 705-713.	3.5	144
8	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, 392-399.	3.5	143
9	Sorption and solubility of resin-based restorative dental materials. <i>Journal of Dentistry</i> , 2003, 31, 43-50.	4.1	139
10	Microleakage of composite restorations after acid or Er-YAG laser cavity treatments. <i>Dental Materials</i> , 2001, 17, 340-346.	3.5	138
11	Self-Etching Adhesives Increase Collagenolytic Activity in Radicular Dentin. <i>Journal of Endodontics</i> , 2006, 32, 862-868.	3.1	138
12	Effect of dentin etching and chlorhexidine application on metalloproteinase-mediated collagen degradation. <i>European Journal of Oral Sciences</i> , 2011, 119, 79-85.	1.5	132
13	Durability of resin-dentin bonds: Effects of direct/indirect exposure and storage media. <i>Dental Materials</i> , 2007, 23, 885-892.	3.5	128
14	Zinc reduces collagen degradation in demineralized human dentin explants. <i>Journal of Dentistry</i> , 2011, 39, 148-153.	4.1	126
15	Surface Treatments for Improving Bond Strength to Prefabricated Fiber Posts: A Literature Review. <i>Operative Dentistry</i> , 2008, 33, 346-355.	1.2	113
16	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, 1521-1532.	3.6	111
17	Microtensile bond strength of total-etch and self-etching adhesives to caries-affected dentine. <i>Journal of Dentistry</i> , 2003, 31, 469-477.	4.1	104
18	Histomorphologic characterization and bond strength evaluation of caries-affected dentin/resin interfaces: Effects of long-term water exposure. <i>Dental Materials</i> , 2008, 24, 786-798.	3.5	101

#	ARTICLE	IF	CITATIONS
19	Acid-etching and Hydration Influence on Dentin Roughness and Wettability. <i>Journal of Dental Research</i> , 1999, 78, 1554-1559.	5.2	98
20	Effect of simulated pulpal pressure on self-adhesive cements bonding to dentin. <i>Dental Materials</i> , 2008, 24, 1156-1163.	3.5	94
21	Effect of temperature on the silane coupling agents when bonding core resin to quartz fiber posts. <i>Dental Materials</i> , 2006, 22, 1024-1028.	3.5	93
22	Influence of self-etching primer on the resin adhesion to enamel and dentin. <i>American Journal of Dentistry</i> , 2001, 14, 205-10.	0.1	93
23	Spatially resolved photopolymerization kinetics and oxygen inhibition in dental adhesives. <i>Biomaterials</i> , 2005, 26, 1809-1817.	11.4	92
24	Effect of curing protocol on the polymerization of dual-cured resin cements. <i>Dental Materials</i> , 2010, 26, 710-718.	3.5	86
25	Zinc-Inhibited MMP-Mediated Collagen Degradation after Different Dentine Demineralization Procedures. <i>Caries Research</i> , 2012, 46, 201-207.	2.0	86
26	Resistance of ten contemporary adhesives to resin-dentine bond degradation. <i>Journal of Dentistry</i> , 2008, 36, 163-169.	4.1	83
27	EDTA Treatment Improves Resin-Dentin Bonds'™ Resistance to Degradation. <i>Journal of Dental Research</i> , 2005, 84, 736-740.	5.2	81
28	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, 268-277.	8.3	81
29	Morphological analysis of three zirconium oxide ceramics: Effect of surface treatments. <i>Dental Materials</i> , 2010, 26, 751-760.	3.5	77
30	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-e152.	3.5	76
31	Influence of phosphoproteins'™ biomimetic analogs on remineralization of mineral-depleted resin-dentine interfaces created with ion-releasing resin-based systems. <i>Dental Materials</i> , 2015, 31, 759-777.	3.5	76
32	Non-destructive analysis in cultural heritage buildings: Evaluating the Mallorca cathedral supporting structures. <i>NDT and E International</i> , 2013, 59, 40-47.	3.7	75
33	Polymerization efficacy of simplified adhesive systems studied by NMR and MRI techniques. <i>Dental Materials</i> , 2006, 22, 963-972.	3.5	73
34	Microhardness of superficial and deep sound human dentin. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 66A, 850-853.	3.1	71
35	A ZnO-doped adhesive reduced collagen degradation favouring dentine remineralization. <i>Journal of Dentistry</i> , 2012, 40, 756-765.	4.1	71
36	EDTA or H3PO4/NaOCl dentine treatments may increase hybrid layers'™ resistance to degradation: A microtensile bond strength and confocal-microporosity study. <i>Journal of Dentistry</i> , 2009, 37, 279-288.	4.1	69

#	ARTICLE	IF	CITATIONS
37	Effect of acid etching and collagen removal on dentin wettability and roughness. , 1999, 47, 198-203.		68
38	The dentine remineralization activity of a desensitizing bioactive glass-containing toothpaste: an <i>in vitro</i> study. Australian Dental Journal, 2011, 56, 372-381.	1.5	68
39	Dental composites reinforced with hydroxyapatite: Mechanical behavior and absorption/elution characteristics. Journal of Biomedical Materials Research Part B, 2001, 56, 297-305.	3.1	67
40	Hydrolytic stability of experimental hydroxyapatite-filled dental composite materials. Dental Materials, 2003, 19, 478-486.	3.5	67
41	Differential expression of matrix metalloproteinase-2 in human coronal and radicular sound and carious dentine. Journal of Dentistry, 2010, 38, 635-640.	4.1	66
42	Dentin wetting by four adhesive systems. Dental Materials, 2001, 17, 526-532.	3.5	64
43	Microtensile bond strength of several adhesive systems to different dentin depths. American Journal of Dentistry, 2003, 16, 292-8.	0.1	64
44	Dentin regional bond strength of self-etch and total-etch adhesive systems. Dental Materials, 2007, 23, 1542-1548.	3.5	63
45	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. Dental Materials, 2009, 25, 1392-1402.	3.5	63
46	Effect of the hydration on the biomechanical properties in a fibrinagarose tissue-like model. Journal of Biomedical Materials Research - Part A, 2014, 102, 2573-2582.	4.0	63
47	Microleakage of Class V resin-modified glass ionomer and compomer restorations. Journal of Prosthetic Dentistry, 1999, 81, 610-615.	2.8	62
48	Resin-dentin bonds to EDTA-treated vs. acid-etched dentin using ethanol wet-bonding. Dental Materials, 2010, 26, 368-379.	3.5	62
49	Differential effect of <i>in vitro</i> degradation on resin-dentin bonds produced by self-etch versus total-etch adhesives. Journal of Biomedical Materials Research - Part A, 2006, 77A, 128-135.	4.0	60
50	Zinc-doped dentin adhesive for collagen protection at the hybrid layer. European Journal of Oral Sciences, 2011, 119, 401-410.	1.5	60
51	Evaluation of two Bis-GMA analogues as potential monomer diluents to improve the mechanical properties of light-cured composite resins. Dental Materials, 2005, 21, 823-830.	3.5	59
52	Microleakage and interfacial morphology of self-etching adhesives in class V resin composite restorations. Journal of Biomedical Materials Research Part B, 2003, 66B, 399-409.	3.1	58
53	Dentin treatment effects on the bonding performance of self-adhesive resin cements. European Journal of Oral Sciences, 2010, 118, 80-86.	1.5	58
54	Experimental Resin Cements Containing Bioactive Fillers Reduce Matrix Metalloproteinase-mediated Dentin Collagen Degradation. Journal of Endodontics, 2012, 38, 1227-1232.	3.1	58

#	ARTICLE	IF	CITATIONS
55	Hydrolytic stability of composite repair bond. <i>European Journal of Oral Sciences</i> , 2007, 115, 417-424.	1.5	56
56	Primary dentin etching time, bond strength and ultra-structure characterization of dentin surfaces. <i>Journal of Dentistry</i> , 2010, 38, 222-231.	4.1	56
57	Zinc Induces Apatite and Scholzite Formation during Dentin Remineralization. <i>Caries Research</i> , 2014, 48, 276-290.	2.0	55
58	Magnesium phosphate cements for endodontic applications with improved long-term sealing ability. <i>International Endodontic Journal</i> , 2014, 47, 127-139.	5.0	54
59	Bioactive Polymeric Nanoparticles for Periodontal Therapy. <i>PLoS ONE</i> , 2016, 11, e0166217.	2.5	53
60	Ethanol Wet-bonding Technique Sensitivity Assessed by AFM. <i>Journal of Dental Research</i> , 2010, 89, 1264-1269.	5.2	52
61	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, 162-169.	9.4	50
62	Influence of drying time and temperature on bond strength of contemporary adhesives to dentine. <i>Journal of Dentistry</i> , 2009, 37, 315-320.	4.1	50
63	Effect of thermal cycling on the bond strength of self-adhesive cements to fiber posts. <i>Clinical Oral Investigations</i> , 2012, 16, 909-915.	3.0	50
64	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, 316-324.	3.1	49
65	Bleaching Agents Increase Metalloproteinases-mediated Collagen Degradation in Dentin. <i>Journal of Endodontics</i> , 2011, 37, 1668-1672.	3.1	49
66	Effect of Cyclic Loading on the Microtensile Bond Strengths of Total-etch and Self-etch Adhesives. <i>Operative Dentistry</i> , 2006, 31, 25-32.	1.2	48
67	Remineralisation properties of innovative light-curable resin-based dental materials containing bioactive micro-fillers. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2624.	5.8	48
68	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, 940-956.	3.5	48
69	Polymer Nanocarriers for Dentin Adhesion. <i>Journal of Dental Research</i> , 2014, 93, 1258-1263.	5.2	47
70	Improved reactive nanoparticles to treat dentin hypersensitivity. <i>Acta Biomaterialia</i> , 2018, 72, 371-380.	8.3	47
71	Bond strength of orthodontic brackets using different light and self-curing cements. <i>Angle Orthodontist</i> , 2003, 73, 56-63.	2.4	46
72	Bioactivity of zinc-doped dental adhesives. <i>Journal of Dentistry</i> , 2014, 42, 403-412.	4.1	44

#	ARTICLE	IF	CITATIONS
73	Tensile strength and microhardness of treated human dentin. <i>Dental Materials</i> , 2004, 20, 522-529.	3.5	42
74	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, 447-451.	3.1	42
75	In vitro vertical misfit evaluation of cast frameworks for cement-retained implant-supported partial prostheses. <i>Journal of Dentistry</i> , 2009, 37, 52-58.	4.1	42
76	Dentin treatment with MMPs inhibitors does not alter bond strengths to caries-affected dentin. <i>Journal of Dentistry</i> , 2008, 36, 1068-1073.	4.1	40
77	Integrated near-surface geophysical survey of the Cathedral of Mallorca. <i>Journal of Archaeological Science</i> , 2009, 36, 1289-1299.	2.4	40
78	Surface Roughness Analysis of Fiber Post Conditioning Processes. <i>Journal of Dental Research</i> , 2008, 87, 186-190.	5.2	39
79	Resistance to degradation of resin-dentin bonds using a one-step HEMA-free adhesive. <i>Journal of Dentistry</i> , 2007, 35, 181-186.	4.1	38
80	Bracket bonding with 15- or 60-second etching and adhesive remaining on enamel after debonding. <i>Angle Orthodontist</i> , 1999, 69, 45-8.	2.4	38
81	Assessment of the quality of resin-dentin bonded interfaces: An AFM nano-indentation, $\frac{1}{4}$ TBS and confocal ultramorphology study. <i>Dental Materials</i> , 2012, 28, 622-631.	3.5	37
82	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.	3.1	37
83	Antibacterial effects of polymeric PolymP-n Active nanoparticles. An in vitro biofilm study. <i>Dental Materials</i> , 2019, 35, 156-168.	3.5	37
84	An ultra-morphological characterization of collagen-depleted etched dentin. <i>American Journal of Dentistry</i> , 1999, 12, 250-5.	0.1	37
85	Load cycling enhances bioactivity at the resin-dentin interface. <i>Dental Materials</i> , 2014, 30, e169-e188.	3.5	35
86	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, 1206-1212.	2.2	34
87	Differential Biodegradation Kinetics of Collagen Membranes for Bone Regeneration. <i>Polymers</i> , 2020, 12, 1290.	4.5	34
88	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, 72A, 399-408.	4.0	33
89	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, 77B, 195-200.	3.4	33
90	Effect of the flavonoid epigallocatechin-3-gallate on resin-dentin bond strength. <i>Journal of Adhesive Dentistry</i> , 2013, 15, 535-40.	0.5	33

#	ARTICLE	IF	CITATIONS
91	Increases in Dentin-bond Strength If Doubling Application Time of an Acetone-containing One-step Adhesive. <i>Operative Dentistry</i> , 2007, 32, 133-137.	1.2	32
92	Self-etching zinc-doped adhesives improve the potential of caries-affected dentin to be functionally remineralized. <i>Biointerphases</i> , 2015, 10, 031002.	1.6	32
93	Zinc-modified nanopolymers improve the quality of resin-dentin bonded interfaces. <i>Clinical Oral Investigations</i> , 2016, 20, 2411-2420.	3.0	31
94	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.	4.7	30
95	Resistance to degradation of resin-modified glass-ionomer cements dentine bonds. <i>Journal of Dentistry</i> , 2009, 37, 342-347.	4.1	30
96	Effect of different surface treatments on In-Ceram Alumina roughness. An AFM study. <i>Journal of Dentistry</i> , 2010, 38, 118-122.	4.1	30
97	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.	4.1	30
98	Microhardness of acid-treated and resin infiltrated human dentine. <i>Journal of Dentistry</i> , 2005, 33, 349-354.	4.1	29
99	In vitro load-induced dentin collagen-stabilization against MMPs degradation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 27, 10-18.	3.1	29
100	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, 563-572.	3.5	28
101	Novel potential scaffold for periodontal tissue engineering. <i>Clinical Oral Investigations</i> , 2017, 21, 2695-2707.	3.0	28
102	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.	1.8	27
103	Effect of bacterial collagenase on resin-dentin bonds degradation. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 2355-2361.	3.6	26
104	Modified Polymeric Nanoparticles Exert In Vitro Antimicrobial Activity Against Oral Bacteria. <i>Materials</i> , 2018, 11, 1013.	2.9	26
105	Hybrid layers of etch-and-rinse versus self-etching adhesive systems. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2009, 15, e112-e118.	1.7	25
106	Novel non-resorbable polymeric-nanostructured scaffolds for guided bone regeneration. <i>Clinical Oral Investigations</i> , 2020, 24, 2037-2049.	3.0	25
107	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, 1850.	4.5	25
108	Doxycycline and Zinc Loaded Silica-Nanofibrous Polymers as Biomaterials for Bone Regeneration. <i>Polymers</i> , 2020, 12, 1201.	4.5	25

#	ARTICLE	IF	CITATIONS
109	Influence of dentin acid-etching and NaOCl-treatment on bond strengths of self-etch adhesives. American Journal of Dentistry, 2008, 21, 44-8.	0.1	25
110	In vitro mechanical stimulation promoted remineralization at the resin/dentin interface. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 61-74.	3.1	24
111	Polymeric nanoparticles for endodontic therapy. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103606.	3.1	24
112	Testing active membranes for bone regeneration: A review. Journal of Dentistry, 2021, 105, 103580.	4.1	24
113	Polymeric nanoparticles protect the resin-dentin bonded interface from cariogenic biofilm degradation. Acta Biomaterialia, 2020, 111, 316-326.	8.3	24
114	Effect of Double Layering and Prolonged Application Time on MTBS of Water/Ethanol-based Self-etch Adhesives to Dentin. Operative Dentistry, 2009, 34, 571-577.	1.2	23
115	Zinc Incorporation Improves Biological Activity of Beta-tricalcium Silicate Resin-based Cement. Journal of Endodontics, 2014, 40, 1840-1845.	3.1	23
116	Zn-doping of silicate and hydroxyapatite-based cements: Dentin mechanobiology and bioactivity. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 114, 104232.	3.1	23
117	Influence of NaOCl deproteinization on shear bond strength in function of dentin depth. American Journal of Dentistry, 2002, 15, 252-5.	0.1	23
118	Sorption and solubility testing of orthodontic bonding cements in different solutions. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 76B, 251-256.	3.4	21
119	Novel light-cured resins and composites with improved physicochemical properties. Dental Materials, 2007, 23, 1189-1198.	3.5	21
120	Work of fracture of a composite resin: Fracture-toughening mechanisms. Journal of Biomedical Materials Research - Part A, 2009, 89A, 751-758.	4.0	21
121	Differential bonds degradation of two resin-modified glass-ionomer cements in primary and permanent teeth. Journal of Dentistry, 2009, 37, 857-864.	4.1	21
122	In Vitro Biodegradation Pattern of Collagen Matrices for Soft Tissue Augmentation. Polymers, 2021, 13, 2633.	4.5	21
123	Evaluation of the micro-mechanical strength of resin bonded dentin interfaces submitted to short-term degradation strategies. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 15, 112-120.	3.1	20
124	Remineralization of mechanical loaded resin-dentin interface: a transitional and synchronized multistep process. Biomechanics and Modeling in Mechanobiology, 2014, 13, 1289-1302.	2.8	20
125	Polyaspartic acid enhances dentine remineralization bonded with a zinc-doped Portland-based resin cement. International Endodontic Journal, 2016, 49, 874-883.	5.0	20
126	Adjunctive use of an anti-oxidant agent to improve resistance of hybrid layers to degradation. Journal of Dentistry, 2011, 39, 80-87.	4.1	19

#	ARTICLE	IF	CITATIONS
127	Bond Strength and Bioactivity of Zn-Doped Dental Adhesives Promoted by Load Cycling. <i>Microscopy and Microanalysis</i> , 2015, 21, 214-230.	0.4	19
128	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, 131-149.	3.1	19
129	Antimicrobial effect of nanostructured membranes for guided tissue regeneration: an in vitro study. <i>Dental Materials</i> , 2020, 36, 1566-1577.	3.5	19
130	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.	0.1	19
131	Differential Resin-Dentin Bonds Created after Caries Removal with Polymer Burs. <i>Microscopy and Microanalysis</i> , 2012, 18, 497-508.	0.4	18
132	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-e677.	1.7	18
133	Effect of in vitro chewing and bruxism events on remineralization, at the resin-dentin interface. <i>Journal of Biomechanics</i> , 2015, 48, 14-21.	2.1	18
134	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.	3.1	18
135	Hydroxyapatite-based cements induce different apatite formation in radicular dentin. <i>Dental Materials</i> , 2020, 36, 167-178.	3.5	18
136	Polymeric zinc-doped nanoparticles for high performance in restorative dentistry. <i>Journal of Dentistry</i> , 2021, 107, 103616.	4.1	18
137	Collagen Matrix vs. Autogenous Connective Tissue Graft for Soft Tissue Augmentation: A Systematic Review and Meta-Analysis. <i>Polymers</i> , 2021, 13, 1810.	4.5	18
138	MMPs activity and bond strength in deciduous dentine-resin bonded interfaces. <i>Journal of Dentistry</i> , 2013, 41, 549-555.	4.1	17
139	Ex vivo investigations on bioinspired electrospun membranes as potential biomaterials for bone regeneration. <i>Journal of Dentistry</i> , 2020, 98, 103359.	4.1	17
140	Effect of dentin deproteinization on microleakage of Class V composite restorations. <i>Operative Dentistry</i> , 2000, 25, 497-504.	1.2	17
141	Early dentine remineralisation: Morpho-mechanical assessment. <i>Journal of Dentistry</i> , 2014, 42, 384-394.	4.1	16
142	Doxycycline-functionalized polymeric nanoparticles inhibit <i>Enterococcus faecalis</i> biofilm formation on dentine. <i>International Endodontic Journal</i> , 2021, 54, 413-426.	5.0	16
143	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.	0.5	16
144	Resistance to Degradation of Resin-Dentin Bonds Produced by One-Step Self-Etch Adhesives. <i>Microscopy and Microanalysis</i> , 2012, 18, 1480-1493.	0.4	15

#	ARTICLE	IF	CITATIONS
145	Surface Microanalysis and Chemical Imaging of Early Dentin Remineralization. <i>Microscopy and Microanalysis</i> , 2014, 20, 245-256.	0.4	15
146	Doxycycline-doped membranes induced osteogenic gene expression on osteoblastic cells. <i>Journal of Dentistry</i> , 2021, 109, 103676.	4.1	15
147	The Collagen Origin Influences the Degradation Kinetics of Guided Bone Regeneration Membranes. <i>Polymers</i> , 2021, 13, 3007.	4.5	15
148	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, 117-125.	1.9	14
149	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-e826.	1.7	14
150	Sealing properties of one-step root-filling fibre post-obturators vs. two-step delayed fibre post-placement. <i>Journal of Dentistry</i> , 2010, 38, 547-552.	4.1	14
151	Novel Polymeric Nanocarriers Reduced Zinc and Doxycycline Toxicity in the Nematode <i>Caenorhabditis elegans</i> . <i>Antioxidants</i> , 2019, 8, 550.	5.1	14
152	Doxycycline-Doped Polymeric Membranes Induced Growth, Differentiation and Expression of Antigenic Phenotype Markers of Osteoblasts. <i>Polymers</i> , 2021, 13, 1063.	4.5	14
153	Microleakage and SEM interfacial micromorphology of amalgam restorations using three adhesive systems. <i>Journal of Dentistry</i> , 2000, 28, 423-428.	4.1	13
154	Children's dental anxiety: influence of personality and intelligence factors. <i>International Journal of Paediatric Dentistry</i> , 1995, 5, 23-28.	1.8	13
155	<i>Ex vivo</i> 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.	2.5	13
156	Silver improves collagen structure and stability at demineralized dentin: A dynamic-mechanical and Raman analysis. <i>Journal of Dentistry</i> , 2018, 79, 61-67.	4.1	13
157	Zn-containing polymer nanogels promote cervical dentin remineralization. <i>Clinical Oral Investigations</i> , 2019, 23, 1197-1208.	3.0	13
158	Zn-Containing Membranes for Guided Bone Regeneration in Dentistry. <i>Polymers</i> , 2021, 13, 1797.	4.5	13
159	In Vitro Hydrolytic Degradation of Composite Quartz Fiber-post Bonds Created by Hydrophilic Silane Couplings. <i>Operative Dentistry</i> , 2006, 31, 728-733.	1.2	12
160	Zinc and silica are active components to efficiently treat in vitro simulated eroded dentin. <i>Clinical Oral Investigations</i> , 2018, 22, 2859-2870.	3.0	12
161	A zinc oxide-modified hydroxyapatite-based cement favored sealing ability in endodontically treated teeth. <i>Journal of Dentistry</i> , 2019, 88, 103162.	4.1	12
162	The mineralizing effect of zinc oxide-modified hydroxyapatite-based sealer on radicular dentin. <i>Clinical Oral Investigations</i> , 2020, 24, 285-299.	3.0	12

#	ARTICLE	IF	CITATIONS
163	Alveolar Bone Ridge Augmentation Using Polymeric Membranes: A Systematic Review and Meta-Analysis. <i>Polymers</i> , 2021, 13, 1172.	4.5	12
164	Post silanization improves bond strength of translucent posts to flowable composite resins. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 82B, 320-324.	3.4	11
165	Effect of alloy type and casting technique on the fracture strength of implant-cemented structures. <i>Medicina Oral, Patología Oral Y Cirugía Bucal</i> , 2011, 16, e619-e625.	1.7	11
166	Bonding efficacy of an acetone/based etch-and-rinse adhesive after dentin deproteinization. <i>Medicina Oral, Patología Oral Y Cirugía Bucal</i> , 2012, 17, e649-e654.	1.7	11
167	Differential nanofiller cluster formations in dental adhesive systems. <i>Microscopy Research and Technique</i> , 2012, 75, 749-757.	2.2	11
168	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.	3.1	11
169	Antibiotic-Loaded Polymeric Barrier Membranes for Guided Bone/Tissue Regeneration: A Mini-Review. <i>Polymers</i> , 2022, 14, 840.	4.5	11
170	ElectroBond application may improve wetting characteristics of etched dentine. <i>Journal of Dentistry</i> , 2011, 39, 180-186.	4.1	10
171	Characterization of Micro- and Nanophase Separation of Dentin Bonding Agents by Stereoscopy and Atomic Force Microscopy. <i>Microscopy and Microanalysis</i> , 2012, 18, 279-288.	0.4	10
172	Microanalysis of Thermal-Induced Changes at the Resin-Dentin Interface. <i>Microscopy and Microanalysis</i> , 2014, 20, 1218-1233.	0.4	10
173	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.	1.6	10
174	A zinc oxide-modified hydroxyapatite-based cement facilitated new crystalline-stoichiometric and amorphous apatite precipitation on dentine. <i>International Endodontic Journal</i> , 2017, 50, e109-e119.	5.0	10
175	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.	0.1	10
176	Effect of zinc-doping in physicochemical properties of dental adhesives. <i>American Journal of Dentistry</i> , 2015, 28, 292-6.	0.1	10
177	Treating Gingival Recessions Using Coronally Advanced Flap or Tunnel Techniques with Autografts or Polymeric Substitutes: A Systematic Review and Meta-Analysis. <i>Polymers</i> , 2022, 14, 1453.	4.5	10
178	Short-term changes in lymphocytes after placement of silver amalgam restorations in healthy subjects. <i>Dental Materials</i> , 1995, 11, 323-326.	3.5	9
179	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, 86B, 264-269.	3.4	9
180	Nanoscope 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.	3.1	9

#	ARTICLE	IF	CITATIONS
181	Assessing bone quality through mechanical properties in postmenopausal trabecular bone. <i>Injury</i> , 2018, 49, S3-S10.	1.7	9
182	Biochemical assessment of nanostructures in human trabecular bone: Proposal of a Raman microspectroscopy based measurements protocol. <i>Injury</i> , 2018, 49, S11-S21.	1.7	9
183	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, 1845.	4.5	9
184	Melatonin-doped polymeric nanoparticles reinforce and remineralize radicular dentin: Morpho-histological, chemical and biomechanical studies. <i>Dental Materials</i> , 2021, 37, 1107-1120.	3.5	9
185	Comparison of Bond Stability Between Dual-Cure Resin Cements and Pretreated Glass-Infiltrated Alumina Ceramics. <i>Photomedicine and Laser Surgery</i> , 2011, 29, 465-475.	2.0	8
186	Surface Analysis of Conditioned Dentin and Resinâ€™ Dentin Bond Strength. <i>Journal of Adhesion Science and Technology</i> , 2012, 26, 27-40.	2.6	8
187	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.	3.1	8
188	Nanostructure in the trabecular bone of postmenopausal women: Mechanical and chemical analysis. <i>Injury</i> , 2017, 48, S26-S33.	1.7	8
189	Ionâ€™modified nanoparticles induce different apatite formation in cervical dentine. <i>International Endodontic Journal</i> , 2018, 51, 1019-1029.	5.0	8
190	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.	4.1	8
191	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.	0.1	8
192	One-step self-etching adhesive polymerization: Influence of a self-curing activator. <i>Journal of Dentistry</i> , 2009, 37, 616-621.	4.1	7
193	Wetting ability of an acetone/based etch rinse adhesive after NaOCl-treatment. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2012, 17, e644-e648.	1.7	7
194	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.	0.4	7
195	Submicron-to-nanoscale structure characterization and organization of crystals in dentin bioapatites. <i>RSC Advances</i> , 2016, 6, 45265-45278.	3.6	7
196	Protein adsorption and bioactivity of functionalized electrospun membranes for bone regeneration. <i>Journal of Dentistry</i> , 2020, 102, 103473.	4.1	7
197	Antibacterial Effect of Functionalized Polymeric Nanoparticles on Titanium Surfaces Using an In Vitro Subgingival Biofilm Model. <i>Polymers</i> , 2022, 14, 358.	4.5	7
198	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.	0.1	7

#	ARTICLE	IF	CITATIONS
199	New Advanced Materials for High Performance at the Resin-Dentine Interface. <i>Frontiers of Oral Biology</i> , 2015, 17, 39-48.	1.5	7
200	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, 80B, 18-24.	3.4	6
201	Ultra-structure characterization of self-etching treated cementum surfaces. <i>Medicina Oral, Patología Oral Y Cirugía Bucal</i> , 2011, 16, e265-e270.	1.7	6
202	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.	2.6	6
203	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.	2.6	6
204	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, e31-e38.	4.1	5
205	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.	0.4	5
206	Mechanical loading influences the viscoelastic performance of the resin-carious dentin complex. <i>Biointerphases</i> , 2017, 12, 021001.	1.6	5
207	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.	4.0	5
208	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.	3.1	5
209	Influence of enamel prophylaxis on wettability of three commercially available orthophosphoric acids. , 1996, 33, 269-274.		4
210	Bond Strength of an Etch-and-Rinse Adhesive to KrF Excimer Laser-Treated Dentin. <i>Photomedicine and Laser Surgery</i> , 2010, 28, 97-102.	2.0	4
211	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.	2.9	4
212	Oral Function Improves Interfacial Integrity and Sealing Ability Between Conventional Glass Ionomer Cements and Dentin. <i>Microscopy and Microanalysis</i> , 2017, 23, 131-144.	0.4	4
213	Melatonin-doped polymeric nanoparticles induce high crystalline apatite formation in root dentin. <i>Dental Materials</i> , 2021, 37, 1698-1713.	3.5	4
214	Novel Pastes Containing Polymeric Nanoparticles for Dentin Hypersensitivity Treatment: An In Vitro Study. <i>Nanomaterials</i> , 2021, 11, 3150.	4.1	4
215	Zn-containing Adhesives Facilitate Collagen Protection and Remineralization at the Resin-Dentin Interface: A Narrative Review. <i>Polymers</i> , 2022, 14, 642.	4.5	4
216	Bond strength and nanoroughness assessment on human pretreated cementum surfaces. <i>Journal of Dentistry</i> , 2010, 38, 678-685.	4.1	3

#	ARTICLE	IF	CITATIONS
217	Effect of Etching Time on Resin-Primary Dentin Adhesion and Degradation of Interfaces. Journal of Adhesion Science and Technology, 2012, 26, 1053-1067.	2.6	3
218	Masticatory function induced changes, at subnanostructural level, in proteins and mineral at the resin-dentine interface. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 39, 197-209.	3.1	3
219	Silver-loaded nanoparticles affect ex-vivo mechanical behavior and mineralization of dentin. Medicina Oral, Patologia Oral Y Cirugia Bucal, 2019, 24, 0-0.	1.7	3
220	Determining efficacy of monitoring devices on ceramic bond to resin composite. Medicina Oral, Patologia Oral Y Cirugia Bucal, 2012, 17, e833-e840.	1.7	2
221	Biomaterials for catalysed mineralization of dental hard tissues. , 2016, , 365-376.		2
222	A zinc-doped endodontic cement facilitates functional mineralization and stress dissipation at the dentin surface. Medicina Oral, Patologia Oral Y Cirugia Bucal, 2018, 23, 0-0.	1.7	2
223	Longevity of bonds made by composite and polyacid-modified resins to dentin using a dual-cured adhesive system. American Journal of Dentistry, 2005, 18, 19-22.	0.1	2
224	Influence of Surface Nano-roughness of Dental Alumina Ceramic on Bond Strength to Dual-Cure Resin Cements. Journal of Adhesion Science and Technology, 2011, 25, 2909-2922.	2.6	1
225	Inter-individual gene variants associated with trabecular bone plasticity: A step forward in the personal genomics of degenerative bone disease. Injury, 2017, 48, S12-S25.	1.7	1
226	A new ISFET technology with back contacts using deep diffusions. Sensors and Actuators B: Chemical, 1997, 40, 155-159.	7.8	0
227	Novel Bioadhesives for Restorative Dentistry. Materials Science Forum, 0, 587-588, 682-686.	0.3	0
228	LONGEVITY OF RESIN BONDS TO DENTIN. Journal of Esthetic and Restorative Dentistry, 2009, 21, 348-354.	3.8	0
229	Valutazione della rugosit� dello smalto in seguito a trattamenti di air-polishing eseguiti con vetri bioattivi. Prevenzione & Assistenza Dentale, 2011, 37, 123-129.	0.0	0