

Arzu Tezvergil-Mutluay

List of Publications by Year in descending order

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92
papers

4,825
citations

126858

33
h-index

95218

68
g-index

92
all docs

92
docs citations

92
times ranked

2893
citing authors

#	ARTICLE	IF	CITATIONS
1	State of the art etch-and-rinse adhesives. <i>Dental Materials</i> , 2011, 27, 1-16.	1.6	785
2	Optimizing dentin bond durability: Control of collagen degradation by matrix metalloproteinases and cysteine cathepsins. <i>Dental Materials</i> , 2013, 29, 116-135.	1.6	379
3	Strategies to prevent hydrolytic degradation of the hybrid layer—A review. <i>Dental Materials</i> , 2013, 29, 999-1011.	1.6	313
4	The requirement of zinc and calcium ions for functional MMP activity in demineralized dentin matrices. <i>Dental Materials</i> , 2010, 26, 1059-1067.	1.6	302
5	Composite—composite repair bond strength: effect of different adhesion primers. <i>Journal of Dentistry</i> , 2003, 31, 521-525.	1.7	151
6	The Inhibitory Effects of Quaternary Ammonium Methacrylates on Soluble and Matrix-bound MMPs. <i>Journal of Dental Research</i> , 2011, 90, 535-540.	2.5	151
7	Effects of Etch-and-Rinse and Self-etch Adhesives on Dentin MMP-2 and MMP-9. <i>Journal of Dental Research</i> , 2013, 92, 82-86.	2.5	143
8	The anti-MMP activity of benzalkonium chloride. <i>Journal of Dentistry</i> , 2011, 39, 57-64.	1.7	127
9	Chlorhexidine binding to mineralized versus demineralized dentin powder. <i>Dental Materials</i> , 2010, 26, 771-778.	1.6	122
10	The effect of fiber orientation on the thermal expansion coefficients of fiber-reinforced composites. <i>Dental Materials</i> , 2003, 19, 471-477.	1.6	112
11	Carbodiimide Cross-linking Inactivates Soluble and Matrix-bound MMPs, <i>in vitro</i> . <i>Journal of Dental Research</i> , 2012, 91, 192-196.	2.5	98
12	Effect of Phosphoric Acid on the Degradation of Human Dentin Matrix. <i>Journal of Dental Research</i> , 2013, 92, 87-91.	2.5	95
13	Effect of carbodiimide (EDC) on the bond stability of etch-and-rinse adhesive systems. <i>Dental Materials</i> , 2013, 29, 1040-1047.	1.6	90
14	Effects of Composites Containing Bioactive Glasses on Demineralized Dentin. <i>Journal of Dental Research</i> , 2017, 96, 999-1005.	2.5	86
15	In vitro fracture resistance of fiber reinforced cusp-replacing composite restorations. <i>Dental Materials</i> , 2005, 21, 565-572.	1.6	83
16	Static and fatigue compression test for particulate filler composite resin with fiber-reinforced composite substructure. <i>Dental Materials</i> , 2007, 23, 17-23.	1.6	77
17	Biomimetic remineralization as a progressive dehydration mechanism of collagen matrices — Implications in the aging of resin—dentin bonds. <i>Acta Biomaterialia</i> , 2010, 6, 3729-3739.	4.1	77
18	The effect of fiber orientation on the polymerization shrinkage strain of fiber-reinforced composites. <i>Dental Materials</i> , 2006, 22, 610-616.	1.6	68

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19	Acoustic emission analysis of fiber-reinforced composite in flexural testing. <i>Dental Materials</i> , 2004, 20, 305-312.	1.6	67
20	The inhibitory effect of polyvinylphosphonic acid on functional matrix metalloproteinase activities in human demineralized dentin. <i>Acta Biomaterialia</i> , 2010, 6, 4136-4142.	4.1	65
21	Can quaternary ammonium methacrylates inhibit matrix MMPs and cathepsins?. <i>Dental Materials</i> , 2015, 31, e25-e32.	1.6	65
22	Use of crosslinkers to inactivate dentin MMPs. <i>Dental Materials</i> , 2016, 32, 423-432.	1.6	65
23	The shear bond strength of bidirectional and random-oriented fibre-reinforced composite to tooth structure. <i>Journal of Dentistry</i> , 2005, 33, 509-516.	1.7	63
24	Water distribution in dentin matrices: Bound vs. unbound water. <i>Dental Materials</i> , 2015, 31, 205-216.	1.6	63
25	Incremental layers bonding of silorane composite: The initial bonding properties. <i>Journal of Dentistry</i> , 2008, 36, 560-563.	1.7	62
26	The importance of size-exclusion characteristics of type I collagen in bonding to dentin matrices. <i>Acta Biomaterialia</i> , 2013, 9, 9522-9528.	4.1	58
27	Degree of conversion of dual-cure luting resins light-polymerized through various materials. <i>Acta Odontologica Scandinavica</i> , 2007, 65, 201-205.	0.9	55
28	Cross-linking effect on dentin bond strength and MMPs activity. <i>Dental Materials</i> , 2018, 34, 288-295.	1.6	51
29	Repair bond strength of nanohybrid composite resins with a universal adhesive. <i>Acta Biomaterialia Odontologica Scandinavica</i> , 2018, 4, 10-19.	4.0	47
30	Evaluation of some properties of two fiber-reinforced composite materials. <i>Acta Odontologica Scandinavica</i> , 2005, 63, 196-204.	0.9	46
31	Inhibition of MMPs by alcohols. <i>Dental Materials</i> , 2011, 27, 926-933.	1.6	40
32	Repair bond strength of restorative resin composite applied to fiber-reinforced composite substrate. <i>Acta Odontologica Scandinavica</i> , 2004, 62, 51-60.	0.9	36
33	Effect of pretreatment with collagen crosslinkers on dentin protease activity. <i>Dental Materials</i> , 2015, 31, 941-947.	1.6	34
34	Optimization of the etch-and-rinse technique: New perspectives to improve resin-dentin bonding and hybrid layer integrity by reducing residual water using dimethyl sulfoxide pretreatments. <i>Dental Materials</i> , 2018, 34, 967-977.	1.6	33
35	Water Sorption, Solubility and Dimensional Changes of Denture Base Polymers Reinforced with Short Class Fibers. <i>Journal of Biomaterials Applications</i> , 2003, 17, 321-335.	1.2	32
36	The degree of conversion of fiber-reinforced composites polymerized using different light-curing sources. <i>Dental Materials</i> , 2005, 21, 469-475.	1.6	32

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37	Dentin bond optimization using the dimethyl sulfoxide-wet bonding strategy: A 2-year in vitro study. <i>Dental Materials</i> , 2016, 32, 1472-1481.	1.6	31
38	Long-Term Durability of Dental Adhesives. <i>Current Oral Health Reports</i> , 2015, 2, 174-181.	0.5	29
39	A novel dry-bonding approach to reduce collagen degradation and optimize resin-dentin interfaces. <i>Scientific Reports</i> , 2018, 8, 16890.	1.6	27
40	Global Oral Health Policies and Guidelines: Using Silver Diamine Fluoride for Caries Control. <i>Frontiers in Oral Health</i> , 2021, 2, 685557.	1.2	27
41	Hyperzincemia from ingestion of denture adhesives. <i>Journal of Prosthetic Dentistry</i> , 2010, 103, 380-383.	1.1	26
42	Selective dentin etching: A potential method to improve bonding effectiveness of universal adhesives. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 86, 14-22.	1.5	26
43	NaF Inhibits Matrix-Bound Cathepsin-Mediated Dentin Matrix Degradation. <i>Caries Research</i> , 2016, 50, 124-132.	0.9	25
44	Comparison between regional micropush-out and microtensile bond strength of resin composite to dentin. <i>Acta Odontologica Scandinavica</i> , 2008, 66, 73-81.	0.9	24
45	Zoledronate and Ion-releasing Resins Impair Dentin Collagen Degradation. <i>Journal of Dental Research</i> , 2014, 93, 999-1004.	2.5	24
46	Is the inactivation of dentin proteases by crosslinkers reversible?. <i>Dental Materials</i> , 2017, 33, e62-e68.	1.6	23
47	Do collagen cross-linkers improve dentin's bonding receptiveness?. <i>Dental Materials</i> , 2018, 34, 1679-1689.	1.6	23
48	Effect of polyacrylic acid on dentin protease activities. <i>Dental Materials</i> , 2015, 31, 901-906.	1.6	22
49	Influence of dimethyl sulfoxide used as a solvent on the physical properties and long-term dentin bonding of hydrophilic resins. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 64, 220-228.	1.5	21
50	Effect of carbodiimide on the fatigue crack growth resistance of resin-dentin bonds. <i>Dental Materials</i> , 2016, 32, 211-222.	1.6	18
51	Effect of ultraviolet A-induced crosslinking on dentin collagen matrix. <i>Dental Materials</i> , 2015, 31, 1225-1231.	1.6	16
52	Effect of Intermediate Fiber Layer on the Fracture Load and Failure Mode of Maxillary Incisors Restored with Laminate Veneers. <i>Dental Materials Journal</i> , 2008, 27, 61-68.	0.8	15
53	The Effect of Surface Roughness on Repair Bond Strength of Light-Curing Composite Resin to Polymer Composite Substrate. <i>Open Dentistry Journal</i> , 2013, 7, 126-131.	0.2	14
54	Zinc Inhibits Collagenolysis by Cathepsin K and Matrix Metalloproteinases in Demineralized Dentin Matrix. <i>Caries Research</i> , 2017, 51, 576-581.	0.9	14

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55	Effect of various dimethyl sulfoxide concentrations on the durability of dentin bonding and hybrid layer quality. <i>Dental Materials Journal</i> , 2018, 37, 501-505.	0.8	14
56	Effect of fiber-reinforced composites on the failure load and failure mode of composite veneers. <i>Dental Materials Journal</i> , 2009, 28, 530-536.	0.8	13
57	Effects of EDC crosslinking on the stiffness of dentin hybrid layers evaluated by nanoDMA over time. <i>Dental Materials</i> , 2017, 33, 904-914.	1.6	13
58	Inhibition of dentin matrix-bound cysteine cathepsins by potassium fluoride. <i>European Journal of Oral Sciences</i> , 2019, 127, 1-9.	0.7	12
59	The pursuit of resin-dentin bond durability: Simultaneous enhancement of collagen structure and polymer network formation in hybrid layers. <i>Dental Materials</i> , 2021, 37, 1083-1095.	1.6	12
60	Bond Strength of Soft Liners to Fiber-Reinforced Denture Base Resin. <i>Journal of Prosthodontics</i> , 2010, 19, 620-624.	1.7	11
61	Effect of fiber-reinforced composite at the interface on bonding of resin core system to dentin. <i>Dental Materials Journal</i> , 2008, 27, 736-743.	0.8	10
62	The influence of cyclic stress on surface properties of soft liners. <i>Odontology / the Society of the Nippon Dental University</i> , 2017, 105, 214-221.	0.9	10
63	Performance of Adhesives and Restorative Materials After Selective Removal of Carious Lesions. <i>Dental Clinics of North America</i> , 2019, 63, 715-729.	0.8	10
64	The effect of phytic acid on enzymatic degradation of dentin. <i>European Journal of Oral Sciences</i> , 2021, 129, e12771.	0.7	10
65	Microtensile bond strength of fiber-reinforced composite with semi-interpenetrating polymer matrix to dentin using various bonding systems. <i>Dental Materials Journal</i> , 2008, 27, 821-826.	0.8	9
66	Addition of benzalkonium chloride to self-adhesive resin-cements: some clinically relevant properties. <i>Acta Odontologica Scandinavica</i> , 2014, 72, 831-838.	0.9	9
67	Biochemical and immunohistochemical identification of MMP-7 in human dentin. <i>Journal of Dentistry</i> , 2018, 79, 90-95.	1.7	9
68	Effect of calcium fluoride on the activity of dentin matrix-bound enzymes. <i>Archives of Oral Biology</i> , 2018, 96, 162-168.	0.8	9
69	Dry bonding to dentin: Broadening the moisture spectrum and increasing wettability of etch-and-rinse adhesives. <i>Dental Materials</i> , 2021, 37, 1676-1687.	1.6	9
70	Composite repair: On the fatigue strength of universal adhesives. <i>Dental Materials</i> , 2022, 38, 231-241.	1.6	9
71	Antimicrobial efficacy and mechanical properties of BAC-modified hard and soft denture liners. <i>Odontology / the Society of the Nippon Dental University</i> , 2018, 106, 83-89.	0.9	8
72	To etch or not to etch, Part I: On the fatigue strength and dentin bonding performance of universal adhesives. <i>Dental Materials</i> , 2021, 37, 949-960.	1.6	8

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73	Incorporation of dimethyl sulfoxide to model adhesive resins with different hydrophilicities: Physico/mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 143-150.	1.5	7
74	Fatigue resistance of dentin bonds prepared with two- vs. three-step adhesives: Effect of carbodiimide. <i>Dental Materials</i> , 2017, 33, 1340-1350.	1.6	6
75	Inhibitory effect of curcuminoid pretreatments on endogenous dentin proteases. <i>Dental Materials Journal</i> , 2018, 37, 445-452.	0.8	6
76	Inhibition of cathepsin-K and matrix metalloproteinase by photodynamic therapy. <i>Dental Materials</i> , 2021, 37, e485-e492.	1.6	6
77	Effects of Fiber-reinforced Composite Bases on Microleakage of Composite Restorations in Proximal Locations. <i>Open Dentistry Journal</i> , 2014, 8, 213-219.	0.2	6
78	Effect of pH on dentin protease inactivation by carbodiimide. <i>European Journal of Oral Sciences</i> , 2017, 125, 288-293.	0.7	5
79	Activation of matrix-bound endogenous proteases by self-etch adhesives. <i>Dental Materials Journal</i> , 2020, 39, 1044-1049.	0.8	5
80	Incorporation of dimethyl sulfoxide into experimental hydrophilic and hydrophobic adhesive resins: evaluation of cytotoxic activities. <i>European Journal of Oral Sciences</i> , 2021, 129, e12756.	0.7	4
81	In situ analysis of gelatinolytic activity in human dentin. <i>Acta Histochemica</i> , 2018, 120, 136-141.	0.9	3
82	Effect of gallic acid addition on some mechanical properties of self-adhesive resin cements. <i>Brazilian Oral Research</i> , 2019, 33, e053.	0.6	3
83	Tooth as an adhesive substrate for fiber-reinforced composites. , 2017, , 79-96.		2
84	Microtensile bond strength to phosphoric acid-etched dentin treated with NaF, KF and CaF ₂ . <i>International Journal of Adhesion and Adhesives</i> , 2018, 85, 337-343.	1.4	2
85	Intraoral Repair of All Ceramic Fixed Partial Denture Utilizing Preimpregnated Fiber Reinforced Composite. <i>European Journal of Dentistry</i> , 2008, 02, 63-68.	0.8	1
86	The Fracture Resistance of Composite Core Materials Reinforced by Varying Fiber Orientations. <i>International Journal of Prosthodontics</i> , 2017, 30, 25-26.	0.7	1
87	Influence of silica nanocoating on stain susceptibility and superficial integrity of dimethacrylate-based composites. <i>European Journal of Oral Sciences</i> , 2019, 127, 361-368.	0.7	1
88	Influence of polar solvents on permeability, stiffness and collagen dissociation of demineralized dentin. <i>International Journal of Adhesion and Adhesives</i> , 2019, 89, 148-153.	1.4	1
89	Long-term effect of curcuminoid treatment on resin-dentin bond strength. <i>European Journal of Oral Sciences</i> , 2022, 130, .	0.7	1
90	Effect of Acid or Laser Treatment on Degradation of Dentin Matrix. <i>Lasers in Dental Science</i> , 0, , 1.	0.3	1

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91	To etch or not to etch, Part II: On the hydrophobic-rich content and fatigue strength of universal adhesives. <i>Dental Materials</i> , 2022, 38, 1419-1431.	1.6	1
92	Fatigue resistance of metal-free cantilever bridges supported by labial laminate veneers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103596.	1.5	0