

Tomohiro Takagaki

List of Publications by Year in descending order

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61
papers

1,083
citations

394421

19
h-index

454955

30
g-index

61
all docs

61
docs citations

61
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallographic and morphological analysis of sandblasted highly translucent dental zirconia. <i>Dental Materials</i> , 2018, 34, 508-518.	3.5	112
2	The role of functional monomers in bonding to enamel: Acid-base resistant zone and bonding performance. <i>Journal of Dentistry</i> , 2010, 38, 722-730.	4.1	57
3	Apatite crystal protection against acid-attack beneath resin-dentin interface with four adhesives: TEM and crystallography evidence. <i>Dental Materials</i> , 2012, 28, e89-e98.	3.5	52
4	Age-specific prevalence of erosive tooth wear by acidic diet and gastroesophageal reflux in Japan. <i>Journal of Dentistry</i> , 2015, 43, 418-423.	4.1	50
5	Effect of functional monomers in all-in-one adhesive systems on formation of enamel/dentin acid-base resistant zone. <i>Dental Materials Journal</i> , 2011, 30, 576-582.	1.8	49
6	Evaluation of dentin bonding performance and acid-base resistance of the interface of two-step self-etching adhesive systems. <i>Dental Materials Journal</i> , 2009, 28, 493-500.	1.8	43
7	Effects of alumina-blasting pressure on the bonding to super/ultra-translucent zirconia. <i>Dental Materials</i> , 2019, 35, 730-739.	3.5	41
8	The role of MDP in a bonding resin of a two-step self-etching adhesive system. <i>Dental Materials Journal</i> , 2015, 34, 227-233.	1.8	40
9	Impact of sandblasting on the flexural strength of highly translucent zirconia. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 115, 104268.	3.1	39
10	Real-time in-depth imaging of gap formation in bulk-fill resin composites. <i>Dental Materials</i> , 2019, 35, 585-596.	3.5	34
11	Dentin bonding performance using Weibull statistics and evaluation of acid-base resistant zone formation of recently introduced adhesives. <i>Dental Materials Journal</i> , 2016, 35, 684-693.	1.8	29
12	Effect of hybridization on bond strength and adhesive interface after acid-base challenge using 4-META/MMA-TBB resin. <i>Dental Materials Journal</i> , 2009, 28, 185-193.	1.8	28
13	UV-Cleavable Polyrotaxane Cross-Linker for Modulating Mechanical Strength of Photocurable Resin Plastics. <i>ACS Macro Letters</i> , 2015, 4, 1154-1157.	4.8	26
14	The effect of five kinds of surface treatment agents on the bond strength to various ceramics with thermocycle aging. <i>Dental Materials Journal</i> , 2017, 36, 755-761.	1.8	26
15	The role of functional phosphoric acid ester monomers in the surface treatment of yttria-stabilized tetragonal zirconia polycrystals. <i>Dental Materials Journal</i> , 2017, 36, 190-194.	1.8	24
16	Effects of the ratio of silane to 10-methacryloyloxydecyl dihydrogenphosphate (MDP) in primer on bonding performance of silica-based and zirconia ceramics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104026.	3.1	24
17	Nanoleakage in Hybrid Layer and Acid-Base Resistant Zone at the Adhesive/Dentin Interface. <i>Microscopy and Microanalysis</i> , 2015, 21, 1271-1277.	0.4	23
18	Morphological Evaluation of the Adhesive/Enamel interfaces of Two-step Self-etching Adhesives and Multimode One-bottle Self-etching Adhesives. <i>Journal of Adhesive Dentistry</i> , 2016, 18, 223-9.	0.5	21

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19	New strategy to create "Super Dentin" using adhesive technology: Reinforcement of adhesive-dentin interface and protection of tooth structures. Japanese Dental Science Review, 2011, 47, 31-42.	5.1	20
20	The effect of different cleaning agents on saliva contamination for bonding performance of zirconia ceramics. Dental Materials Journal, 2018, 37, 734-739.	1.8	19
21	Bonding performance of dispersed filler resin composite CAD/CAM blocks with different surface treatment protocols. Dental Materials Journal, 2021, 40, 209-219.	1.8	19
22	Effect of lining with a flowable composite on internal adaptation of direct composite restorations using all-in-one adhesive systems. Dental Materials Journal, 2012, 31, 481-488.	1.8	18
23	The effects of different silicatization and silanization protocols on the bond durability of resin cements to new high-translucent zirconia. Clinical Oral Investigations, 2022, 26, 3547-3561.	3.0	17
24	Adhesion durability of dual-cure resin cements and acid-base resistant zone formation on human dentin. Dental Materials, 2019, 35, 945-952.	3.5	16
25	Effect of Air-Particle Abrasion Protocol and Primer on The Topography and Bond Strength of a High-Translucent Zirconia Ceramic. Journal of Prosthodontics, 2022, 31, 228-238.	3.7	15
26	Initial curing characteristics of composite cements under ceramic restorations. Journal of Prosthodontic Research, 2021, 65, 39-45.	2.8	13
27	The concept of super enamel formation "Relationship between chemical interaction and enamel acid-base resistant zone at the self-etch adhesive/enamel interface. Dental Materials Journal, 2020, 39, 534-538.	1.8	13
28	Adsorption behavior of methacryloyloxydecyl dihydrogen phosphate on an apatite surface at neutral pH. European Journal of Oral Sciences, 2016, 124, 195-203.	1.5	12
29	Influence of resin coating on bond strength of self-adhesive resin cements to dentin. Dental Materials Journal, 2015, 34, 822-827.	1.8	11
30	Update on Enamel Bonding Strategies. Frontiers in Dental Medicine, 2021, 2, .	1.4	11
31	Dentin bonding performance and ability of four MMA-based adhesive resins to prevent demineralization along the hybrid layer. Journal of Adhesive Dentistry, 2012, 14, 339-48.	0.5	11
32	The effect of elapsed time following alumina blasting on adhesion of CAD/CAM resin block to dentin. Dental Materials Journal, 2019, 38, 354-360.	1.8	10
33	Influence of Ambient Air and Different Surface Treatments on the Bonding Performance of a CAD/CAM Composite Block. Journal of Adhesive Dentistry, 2018, 20, 317-324.	0.5	10
34	Effects of Selective Phosphoric Acid Etching on Enamel Using "No-wait" Self-etching Adhesives. Journal of Adhesive Dentistry, 2018, 20, 407-415.	0.5	10
35	Efficacy of Various Surface Treatments on the Bonding Performance of Saliva-contaminated Lithium-Disilicate Ceramics. Journal of Adhesive Dentistry, 2019, 21, 51-58.	0.5	10
36	Resin Coating Technique for Protection of Pulp and Increasing Bonding in Indirect Restoration. Current Oral Health Reports, 2015, 2, 81-86.	1.6	9

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37	Progression of non-carious cervical lesions: 3D morphological analysis. <i>Clinical Oral Investigations</i> , 2022, 26, 575-583.	3.0	9
38	Immobilization of phosphate monomers on collagen induces biomimetic mineralization. <i>Bio-Medical Materials and Engineering</i> , 2015, 25, 89-99.	0.6	8
39	Effect of alumina-blasting pressure on adhesion of CAD/CAM resin block to dentin. <i>Dental Materials Journal</i> , 2018, 37, 805-811.	1.8	8
40	The effect of different light curing units on Vickers microhardness and degree of conversion of flowable resin composites. <i>Dental Materials Journal</i> , 2021, 40, 44-51.	1.8	8
41	The prevalence of non-carious cervical lesions (NCCLs) with or without erosive etiological factors among adults of different ages in Tokyo. <i>Clinical Oral Investigations</i> , 2021, 25, 6939-6947.	3.0	8
42	Influence of 10-methacryloyloxydecyl dihydrogen phosphate (MDP) incorporated experimental cleaners on the bonding performance of saliva-contaminated zirconia ceramic. <i>Clinical Oral Investigations</i> , 2022, 26, 1785-1795.	3.0	8
43	Effects of Different Tooth Conditioners on the Bonding of Universal Self-etching Adhesive to Dentin. <i>Journal of Adhesive Dentistry</i> , 2019, 21, 77-85.	0.5	8
44	Sodium hypochlorite effects on dentin bond strength and acid-base resistant zone formation by adhesive systems. <i>Brazilian Journal of Oral Sciences</i> , 2015, 14, 334-340.	0.1	7
45	Status of decontamination methods after using dentin adhesion inhibitors on indirect restorations: An integrative review of 19 publications. <i>Japanese Dental Science Review</i> , 2021, 57, 147-153.	5.1	7
46	Ultra-Morphological and Nanomechanical Characterization of Reinforced Enamel and Dentin by Self-Etch Adhesives: The Super Tooth. <i>Journal of Nano Research</i> , 2012, 16, 131-140.	0.8	6
47	Fluoride-Releasing Self-Etch Adhesives Create Thick ABRZ at the Interface. <i>BioMed Research International</i> , 2021, 2021, 1-5.	1.9	6
48	Micro-CT assessment of the effect of silver diammine fluoride on inhibition of root dentin demineralization. <i>Dental Materials Journal</i> , 2021, 40, 1041-1048.	1.8	5
49	The effect of different ceramic surface treatments on the repair bond strength of resin composite to lithium disilicate ceramic. <i>Dental Materials Journal</i> , 2021, 40, 1073-1079.	1.8	5
50	Evaluation of MDP and NaF in Two-step Self-etch Adhesives on Enamel Microshear Bond Strength and Morphology of the Adhesive-Enamel Interface. <i>Journal of Adhesive Dentistry</i> , 2018, 20, 527-534.	0.5	5
51	Effects of Immediate and Delayed Cementations for CAD/CAM Resin Block after Alumina Air Abrasion on Adhesion to Newly Developed Resin Cement. <i>Materials</i> , 2021, 14, 7058.	2.9	4
52	UV-Mediated Photofunctionalization of Indirect Restorative Materials Enhances Bonding to a Resin-Based Luting Agent. <i>BioMed Research International</i> , 2021, 2021, 1-8.	1.9	3
53	Effect of repair systems on dentin bonding performance. <i>Dental Materials Journal</i> , 2021, 40, 903-910.	1.8	3
54	Evaluation of bonding performance and multi-ion release of S-PRG filler-containing self-adhesive resin composite. <i>Dental Materials Journal</i> , 2021, 40, 1257-1263.	1.8	3

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55	The effect of carboxyl-based monomers on resin bonding to highly translucent zirconia ceramics. Dental Materials Journal, 2020, 39, 956-962.	1.8	3
56	Ultra-morphological studies on enamel-universal adhesive interface. Journal of Dentistry, 2021, 104, 103527.	4.1	2
57	The effect of temporary sealing materials and cleaning protocols on the bond strength of resin cement applied to dentin using the resin-coating technique. Dental Materials Journal, 2021, 40, 719-726.	1.8	2
58	Effect of curing modes of dual-curing core systems on microtensile bond strength to dentin and formation of an acid-base resistant zone. Journal of Adhesive Dentistry, 2011, 13, 527-35.	0.5	2
59	Effect of ultraviolet ray on tooth bleaching using titanium dioxide photocatalyst. Asian Pacific Journal of Dentistry, 2020, 20, 35-40.	0.1	1
60	Focused Ion Beam (FIB) and Energy Dispersive X-Ray (EDX) Analysis in Adhesive Dentistry. Microscopy and Microanalysis, 2016, 22, 1872-1873.	0.4	0
61	Bonding performance of self-adhesive luting agents to highly translucent zirconia ceramics. Asian Pacific Journal of Dentistry, 2020, 20, 29-33.	0.1	0