

Renata Marques Melo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7395901/publications.pdf>

Version: 2024-02-01

100
papers

2,005
citations

361296

20
h-index

276775

41
g-index

100
all docs

100
docs citations

100
times ranked

1662
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of surface conditioning methods on the microtensile bond strength of resin composite to composite after aging conditions. <i>Dental Materials</i> , 2007, 23, 1276-1282.	1.6	206
2	Microstructure characterization and SCG of newly engineered dental ceramics. <i>Dental Materials</i> , 2016, 32, 870-878.	1.6	150
3	Air-Particle abrasion on zirconia ceramic using different protocols: Effects on biaxial flexural strength after cyclic loading, phase transformation and surface topography. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 26, 155-163.	1.5	114
4	Effect of air-particle abrasion protocols on the biaxial flexural strength, surface characteristics and phase transformation of zirconia after cyclic loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 19-28.	1.5	100
5	Shear bond strengths of a ceramic system to alternative metal alloys. <i>Journal of Prosthetic Dentistry</i> , 2005, 93, 64-69.	1.1	92
6	Evaluation of the Flexural Strength of Carbon Fiber-, Quartz Fiber-, and Glass Fiber-Based Posts. <i>Journal of Endodontics</i> , 2005, 31, 209-211.	1.4	83
7	Effects of aging procedures on the topographic surface, structural stability, and mechanical strength of a ZrO ₂ -based dental ceramic. <i>Dental Materials</i> , 2014, 30, e396-e404.	1.6	73
8	Endocrown restorations: Influence of dental remnant and restorative material on stress distribution. <i>Dental Materials</i> , 2018, 34, 1466-1473.	1.6	70
9	Impact of crystallization firing process on the microstructure and flexural strength of zirconia-reinforced lithium silicate glass-ceramics. <i>Dental Materials</i> , 2018, 34, 1483-1491.	1.6	60
10	Fatigue failure load of two resin-bonded zirconia-reinforced lithium silicate glass-ceramics: Effect of ceramic thickness. <i>Dental Materials</i> , 2018, 34, 891-900.	1.6	56
11	Microtensile bond strength of a repair composite to leucite-reinforced feldspathic ceramic. <i>Brazilian Dental Journal</i> , 2007, 18, 314-319.	0.5	51
12	Effects of thickness, processing technique, and cooling rate protocol on the flexural strength of a bilayer ceramic system. <i>Dental Materials</i> , 2013, 29, 1063-1072.	1.6	48
13	Fatigue failure load of zirconia-reinforced lithium silicate glass ceramic cemented to a dentin analogue: Effect of etching time and hydrofluoric acid concentration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 375-382.	1.5	47
14	Evaluation of Light Transmission Through Translucent and Opaque Posts. <i>Operative Dentistry</i> , 2008, 33, 321-324.	0.6	44
15	A new silica-infiltrated Y-TZP obtained by the sol-gel method. <i>Journal of Dentistry</i> , 2016, 48, 55-61.	1.7	40
16	Effects of two grading techniques of zirconia material on the fatigue limit of full-contour 3-unit fixed dental prostheses. <i>Dental Materials</i> , 2017, 33, e155-e164.	1.6	35
17	Effect of Mechanical Cycling on the Push-out Bond Strength of Fiber Posts Adhesively Bonded to Human Root Dentin. <i>Operative Dentistry</i> , 2007, 32, 579-588.	0.6	31
18	Failure Probability of Three Designs of Zirconia Crowns. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2015, 35, 843-849.	0.4	29

#	ARTICLE	IF	CITATIONS
19	Bonding of the Polymer Polyetheretherketone (PEEK) to Human Dentin: Effect of Surface Treatments. Brazilian Dental Journal, 2016, 27, 693-699.	0.5	27
20	Sequential usage of diamond bur for CAD/CAM milling: Effect on the roughness, topography and fatigue strength of lithium disilicate glass ceramic. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 326-334.	1.5	23
21	Effect of ceramic thickness, grinding, and aging on the mechanical behavior of a polycrystalline zirconia. Brazilian Oral Research, 2017, 31, e82.	0.6	22
22	Comparison of resin push-out strength to root dentin of bovine- and human-teeth. Indian Journal of Dental Research, 2009, 20, 332.	0.1	22
23	Bioinspired silica-infiltrated zirconia bilayers: Strength and interfacial bonding. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 89, 143-149.	1.5	20
24	Silica coating followed by heat-treatment of MDP-primer for resin bond stability to yttria-stabilized zirconia polycrystals. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 104-111.	1.6	20
25	Degradation kinetics of high-translucency dental zirconias: Mechanical properties and in-depth analysis of phase transformation. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103482.	1.5	19
26	Low-Fusing Porcelain Glaze Application on 3Y-TZP Surfaces can Enhance Zirconia-Porcelain Adhesion. Brazilian Dental Journal, 2016, 27, 543-547.	0.5	18
27	Bond strength between a polymer-infiltrated ceramic network and a composite for repair: effect of several ceramic surface treatments. Brazilian Oral Research, 2018, 32, e28.	0.6	18
28	In-lab simulation of CAD/CAM milling of lithium disilicate glass-ceramic specimens: Effect on the fatigue behavior of the bonded ceramic. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104604.	1.5	18
29	Effect of composite surface treatment and aging on the bond strength between a core build-up composite and a luting agent. Journal of Applied Oral Science, 2015, 23, 71-78.	0.7	17
30	Newer vs. older CAD/CAM burs: Influence of bur experience on the fatigue behavior of adhesively cemented simplified lithium-disilicate glass-ceramic restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 95, 172-179.	1.5	17
31	Reinforced Glass-ceramics: Parametric Inspection of Three-Dimensional Wear and Volumetric Loss after Chewing Simulation. Brazilian Dental Journal, 2019, 30, 505-510.	0.5	17
32	Effect of operator experience and cementation strategies on the bond strength between fiber post and root dentin. Journal of Adhesion Science and Technology, 2017, 31, 1-7.	1.4	15
33	Mechanical Behavior of Different Restorative Materials and Onlay Preparation Designs in Endodontically Treated Molars. Materials, 2021, 14, 1923.	1.3	15
34	The Wear Performance of Glazed and Polished Full Contour Zirconia. Brazilian Dental Journal, 2019, 30, 511-518.	0.5	15
35	Mechanical behavior and microstructural characterization of different zirconia polycrystals in different thicknesses. Journal of Advanced Prosthodontics, 2021, 13, 385.	1.1	15
36	Effect of adhesive system type and tooth region on the bond strength to dentin. Journal of Adhesive Dentistry, 2008, 10, 127-33.	0.3	15

#	ARTICLE	IF	CITATIONS
37	Adhesive cementation of zirconia posts to root dentin: evaluation of the mechanical cycling effect. <i>Brazilian Oral Research</i> , 2008, 22, 264-269.	0.6	13
38	Bond strength durability of self-etching adhesives and resin cements to dentin. <i>Journal of Applied Oral Science</i> , 2009, 17, 155-160.	0.7	12
39	Bond Strength of Two Resin Cements on Dentin Using Different Cementation Strategies. <i>Journal of Esthetic and Restorative Dentistry</i> , 2010, 22, 262-268.	1.8	12
40	The performance of sol-gel silica coated Y-TZP for veneered and monolithic dental restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 515-522.	1.5	12
41	Influence of insertion techniques for resin cement and mechanical cycling on the bond strength between fiber posts and root dentin. <i>Journal of Adhesive Dentistry</i> , 2015, 17, 175-80.	0.3	12
42	Microstructure and mechanical properties of fully sintered zirconia glazed with an experimental glass. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104093.	1.5	11
43	Effect of Consecutive Firings on the Optical and Mechanical Properties of Silicate and Lithium Disilicate Based Glass-Ceramics. <i>Journal of Prosthodontics</i> , 2021, 30, 776-782.	1.7	11
44	The adhesive system and root canal region do not influence the degree of conversion of dual resin cement. <i>Journal of Applied Oral Science</i> , 2010, 18, 477-481.	0.7	10
45	Bond strengths, degree of conversion of the cement and molecular structure of the adhesive-dentine joint in fibre post restorations. <i>Journal of Dentistry</i> , 2012, 40, 286-294.	1.7	10
46	Effect of different loading pistons on stress distribution of a CAD/CAM silica-based ceramic: CAD-FEA modeling and fatigue survival analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 94, 207-212.	1.5	10
47	Effect of resin cement space on the fatigue behavior of bonded CAD/CAM leucite ceramic crowns. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103893.	1.5	10
48	Effect of finishing/polishing techniques and aging on topography, <i>C. albicans</i> adherence, and flexural strength of ultra-translucent zirconia: an in situ study. <i>Clinical Oral Investigations</i> , 2022, 26, 889-900.	1.4	10
49	Failure Probability, Stress Distribution and Fracture Analysis of Experimental Screw for Micro Conical Abutment. <i>Brazilian Dental Journal</i> , 2019, 30, 157-163.	0.5	9
50	Heat treatment of silanized feldspathic ceramic: Effect on the bond strength to resin after thermocycling. <i>International Journal of Adhesion and Adhesives</i> , 2015, 63, 96-101.	1.4	8
51	Mechanical Behavior of Different Micro Conical Abutments in Fixed Prosthesis. <i>International Journal of Oral and Maxillofacial Implants</i> , 2018, 33, 1199-1205.	0.6	8
52	Biaxial flexural strength and Weibull characteristics of adhesively luted hybrid and reinforced CAD/CAM materials to dentin: effect of self-etching ceramic primer versus hydrofluoric acid etching. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 1253-1268.	1.4	8
53	The roles of microstructure and surface energy on subcritical crack growth in glass-ceramics. <i>Ceramics International</i> , 2021, 47, 6827-6833.	2.3	8
54	Feldspathic and Lithium Disilicate Onlays with a 2-Year Follow-Up: Split-Mouth Randomized Clinical Trial. <i>Brazilian Dental Journal</i> , 2021, 32, 53-63.	0.5	8

#	ARTICLE	IF	CITATIONS
55	Fatigue Failure Load of Resin-bonded Simplified Lithium Disilicate Glass-Ceramic Restorations: Effect of Ceramic Conditioning Methods. <i>Journal of Adhesive Dentistry</i> , 2019, 21, 373-381.	0.3	8
56	Strength of a feldspar ceramic according to the thickness and polymerization mode of the resin cement coating. <i>Dental Materials Journal</i> , 2011, 30, 323-329.	0.8	7
57	Surface agents' influence on the flexural strength of bilaminated ceramics. <i>Brazilian Oral Research</i> , 2013, 27, 311-317.	0.6	7
58	The Impact of Conical and Nonconical Abutments on Bacterial Infiltration at the Implant-Abutment Interface. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2016, 36, 825-831.	0.4	7
59	Fatigue limit of monolithic Y-TZP three-unit-fixed dental prostheses: Effect of grinding at the gingival zone of the connector. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 72, 159-162.	1.5	7
60	In vitro wear of a zirconium-reinforced lithium silicate ceramic against different restorative materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 100, 103403.	1.5	7
61	Strength of a Zirconia-Reinforced Lithium Silicate Ceramic: Acid-Etching Time and Resin Cement Application Effects. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2019, 39, 431-437.	0.4	7
62	Harmful Effect of Beer on Bovine Enamel Microhardness – In Vitro Study. <i>PLoS ONE</i> , 2016, 11, e0163440.	1.1	7
63	Zirconia-porcelain bonding: effect of multiple firings on microtensile bond strength. <i>Journal of Adhesive Dentistry</i> , 2013, 15, 467-72.	0.3	7
64	Effects of porcelain thickness on the flexural strength and crack propagation in a bilayered zirconia system. <i>Journal of Applied Oral Science</i> , 2017, 25, 566-574.	0.7	6
65	Ceramic firing protocols and thermocycling: effects on the load-bearing capacity under fatigue of a bonded zirconia lithium silicate glass-ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103963.	1.5	6
66	Interfacial fracture of dentin adhesively bonded to quartz-fiber reinforced composite. <i>Materials Science and Engineering C</i> , 2011, 31, 770-774.	3.8	5
67	Effect of pH variation on the subcritical crack growth parameters of glassy matrix ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2449-2456.	1.1	5
68	Effect of glazing application side and mechanical cycling on the biaxial flexural strength and Weibull characteristics of a Y-TZP ceramic. <i>Journal of Applied Oral Science</i> , 2020, 28, e20200438.	0.7	5
69	Effect of hydrothermal and mechanical aging on the fatigue performance of high-translucency zirconias. <i>Dental Materials</i> , 2022, 38, 1060-1071.	1.6	5
70	Mechanical performance of monolithic materials cemented to a dentin-like substrate. <i>Journal of Prosthetic Dentistry</i> , 2020, 123, 753.e1-753.e7.	1.1	4
71	Comparative Stress Evaluation between Bilayer, Monolithic and Cutback All-Ceramic Crown Designs: 3D Finite Element Study. <i>Prosthesis</i> , 2021, 3, 173-180.	1.1	4
72	Antimicrobial and mechanical acrylic resin properties with silver particles obtained from <i>Fusarium oxysporum</i> . <i>Brazilian Dental Science</i> , 2018, 21, 96-103.	0.1	4

#	ARTICLE	IF	CITATIONS
73	The Influence of Ceramic Re-pressing on Surface Properties, Bond Strength, and Color Stability of Leucite Ceramic. <i>Journal of Adhesive Dentistry</i> , 2018, 20, 389-395.	0.3	4
74	Fracture of Zirconia Abutment with Metallic Insertion on Anterior Single Titanium Implant with Internal Hexagon: Retrieval Analysis of a Failure. <i>European journal of prosthodontics and restorative dentistry</i> , The, 2016, 24, 164-168.	0.3	4
75	Can Cleansing Regimens Effectively Eliminate Saliva Contamination from Lithium Disilicate Ceramic Surface?. <i>European journal of prosthodontics and restorative dentistry</i> , The, 2017, 25, 9-14.	0.3	4
76	Effect of the layering technique on bond strength and cohesive resistance of a porcelain-zirconia system. <i>Journal of Adhesive Dentistry</i> , 2014, 16, 57-62.	0.3	4
77	Can heat-pressed feldspathic ceramic be submitted to multiple heat-pressing?. <i>Brazilian Oral Research</i> , 2018, 32, e106.	0.6	3
78	Influence of Zingiber officinale Extract on Push-Out Bond Strength of Glass-Fiber Post. <i>Brazilian Dental Journal</i> , 2018, 29, 93-98.	0.5	3
79	Effect of hydroxyapatite and 45S5 bioactive glass addition on a dental adhesive resin cement. <i>International Journal of Applied Glass Science</i> , 2021, 12, 78-88.	1.0	3
80	Influence of Alternative and Conventional Surface Treatments on the Bonding Mechanism between PEEK and Veneering Resin for Dental Application. <i>Coatings</i> , 2021, 11, 719.	1.2	3
81	Adhesives with different pHs: effect on the MTBS of chemically activated and light-activated composites to human dentin. <i>Journal of Applied Oral Science</i> , 2007, 15, 265-269.	0.7	2
82	Effect of the interfacial area measurement parameters on the push-out strength between fiber post and dentin. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 7-10.	1.4	2
83	Comparison of methanol/hydrochloric, ferric chloride acid versus tribochemical silica coating for adhesion of resin cement to zirconium dioxide. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 2690-2698.	1.4	2
84	Effect of Cervical Collar Removal on the Fracture Load of Anterior Zirconia Crowns. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2017, 37, 241-247.	0.4	2
85	Can the type of preheated resin composite influence the microtensile bond strength of ceramic restoration to human dentin?. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 1557-1571.	1.4	2
86	Stress Distribution in Modified Veneer Crowns: 3D Finite Element Analysis. <i>Oral</i> , 2021, 1, 272-280.	0.6	2
87	CAD-FEA modeling and fracture resistance of bilayer zirconia crowns manufactured by the rapid layer technology. <i>Brazilian Dental Journal</i> , 2021, 32, 44-55.	0.5	2
88	Resin bond strength to zirconia: effects of surface treatments and resin cements. <i>General Dentistry</i> , 2019, 67, 71-77.	0.4	2
89	Zirconia gradation and thermal expansion compatibility between infiltration glass and antimicrobial glass. <i>Ceramics International</i> , 2022, 48, 19746-19756.	2.3	2
90	Impact of Acid Concentration and Firing on the Long-term Bond Strength of a Zirconia-Lithium Silicate Ceramic Following Adhesive Cementation. <i>Journal of Adhesive Dentistry</i> , 2019, 21, 355-363.	0.3	2

#	ARTICLE	IF	CITATIONS
91	A Powdering Technique for Veneering Zirconia and Its Effect on the Flexural Strength of Ceramic Bilayers. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2018, 38, 865-871.	0.4	1
92	Design Equations for Mixed-Mode Fracture of Dental Ceramic-Cement Interfaces Using the Brazil-Nut-Sandwich Test. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2021, 143, .	0.8	1
93	Does the glaze application on Y-TZP surface improve the bond strength to pressed veneering ceramic?. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1459-1471.	1.4	1
94	Wear behavior of silica-infiltrated monolithic zirconia: Effects on the mechanical properties and surface characterization. <i>Ceramics International</i> , 2022, 48, 6649-6656.	2.3	1
95	Fatigue strength of 5Y-FSZ: glazing and polishing effects. <i>Clinical Oral Investigations</i> , 2022, 26, 4479-4486.	1.4	1
96	The number of specimens in a furnace affects the biaxial flexural strength of veneered zirconia specimens after sintering. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 663-672.	1.4	0
97	Does the zirconia cleaning protocol followed by vitrification increase the resin-bond strength to zirconia?. <i>Journal of Adhesion Science and Technology</i> , 0, , 1-14.	1.4	0
98	Influence of Irrigants in Association with Ultrasound for Cleaning Root Dentin Surface after Post Space Preparation: EDS Analysis. <i>International Journal of Odontostomatology</i> , 2016, 10, 35-40.	0.0	0
99	Effect of thermocycling aging on the flexural strength of feldspathic ceramic. <i>Brazilian Dental Science</i> , 2018, 21, 315-319.	0.1	0
100	Effect of several repair techniques on the bond strength between composite resin and degraded Y-TZP ceramic. <i>Brazilian Dental Science</i> , 2018, 21, 377.	0.1	0