

Renata Marques Melo

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94
papers

1,327
citations

18
h-index

34
g-index

100
ext. papers

1,678
ext. citations

3
avg, IF

4.53
L-index

#	Paper	IF	Citations
94	Effect of surface conditioning methods on the microtensile bond strength of resin composite to composite after aging conditions. <i>Dental Materials</i> , 2007 , 23, 1276-82	5.7	151
93	Microstructure characterization and SCG of newly engineered dental ceramics. <i>Dental Materials</i> , 2016 , 32, 870-8	5.7	108
92	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, 155-63	4.1	83
91	Shear bond strengths of a ceramic system to alternative metal alloys. <i>Journal of Prosthetic Dentistry</i> , 2005 , 93, 64-9	4	78
90	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	4.1	74
89	Evaluation of the flexural strength of carbon fiber-, quartz fiber-, and glass fiber-based posts. <i>Journal of Endodontics</i> , 2005 , 31, 209-11	4.7	67
88	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, e396-404	5.7	57
87	Endocrown restorations: Influence of dental remnant and restorative material on stress distribution. <i>Dental Materials</i> , 2018 , 34, 1466-1473	5.7	42
86	Effects of thickness, processing technique, and cooling rate protocol on the flexural strength of a bilayer ceramic system. <i>Dental Materials</i> , 2013 , 29, 1063-72	5.7	38
85	Microtensile bond strength of a repair composite to leucite-reinforced feldspathic ceramic. <i>Brazilian Dental Journal</i> , 2007 , 18, 314-9	1.9	38
84	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	5.7	35
83	Evaluation of light transmission through translucent and opaque posts. <i>Operative Dentistry</i> , 2008 , 33, 321-4	2.9	33
82	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	5.7	31
81	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	4.1	30
80	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	5.7	28
79	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, 579-88	2.9	27
78	A new silica-infiltrated Y-TZP obtained by the sol-gel method. <i>Journal of Dentistry</i> , 2016 , 48, 55-61	4.8	20

77	Failure Probability of Three Designs of Zirconia Crowns. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2015 , 35, 843-9	2.1	20
76	Comparison of resin push-out strength to root dentin of bovine- and human-teeth. <i>Indian Journal of Dental Research</i> , 2009 , 20, 332-6	0.8	18
75	Effect of ceramic thickness, grinding, and aging on the mechanical behavior of a polycrystalline zirconia. <i>Brazilian Oral Research</i> , 2017 , 31, e82	2.6	15
74	Silica coating followed by heat-treatment of MDP-primer for resin bond stability to yttria-stabilized zirconia polycrystals. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 104-111	3.5	15
73	Sequential usage of diamond bur for CAD/CAM milling: Effect on the roughness, topography and fatigue strength of lithium disilicate glass ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 91, 326-334	4.1	13
72	Effect of adhesive system type and tooth region on the bond strength to dentin. <i>Journal of Adhesive Dentistry</i> , 2008 , 10, 127-33	3	13
71	Effect of operator experience and cementation strategies on the bond strength between fiber post and root dentin. <i>Journal of Adhesion Science and Technology</i> , 2017 , 31, 1-7	2	12
70	Adhesive cementation of zirconia posts to root dentin: evaluation of the mechanical cycling effect. <i>Brazilian Oral Research</i> , 2008 , 22, 264-9	2.6	12
69	Bond strength between a polymer-infiltrated ceramic network and a composite for repair: effect of several ceramic surface treatments. <i>Brazilian Oral Research</i> , 2018 , 32, e28	2.6	11
68	Bond strength durability of self-etching adhesives and resin cements to dentin. <i>Journal of Applied Oral Science</i> , 2009 , 17, 155-60	3.3	11
67	Low-Fusing Porcelain Glaze Application on 3Y-TZP Surfaces can Enhance Zirconia-Porcelain Adhesion. <i>Brazilian Dental Journal</i> , 2016 , 27, 543-547	1.9	11
66	Effect of composite surface treatment and aging on the bond strength between a core build-up composite and a luting agent. <i>Journal of Applied Oral Science</i> , 2015 , 23, 71-8	3.3	10
65	Reinforced Glass-ceramics: Parametric Inspection of Three-Dimensional Wear and Volumetric Loss after Chewing Simulation. <i>Brazilian Dental Journal</i> , 2019 , 30, 505-510	1.9	10
64	Bonding of the Polymer Polyetheretherketone (PEEK) to Human Dentin: Effect of Surface Treatments. <i>Brazilian Dental Journal</i> , 2016 , 27, 693-699	1.9	10
63	Bioinspired silica-infiltrated zirconia bilayers: Strength and interfacial bonding. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 89, 143-149	4.1	10
62	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, 286-94	4.8	9
61	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	4.1	8
60	Newer vs. older CAD/CAM burs: Influence of bur experience on the fatigue behavior of adhesively cemented simplified lithium-disilicate glass-ceramic restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 95, 172-179	4.1	8

59	Bond strength of two resin cements on dentin using different cementation strategies. <i>Journal of Esthetic and Restorative Dentistry</i> , 2010 , 22, 262-8	3.5	8
58	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, 477-81	3.3	7
57	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	3	7
56	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	4.1	7
55	Degradation kinetics of high-translucency dental zirconias: Mechanical properties and in-depth analysis of phase transformation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 102, 103482	4.1	7
54	Surface agents influence on the flexural strength of bilaminated ceramics. <i>Brazilian Oral Research</i> , 2013 , 27, 311-7	2.6	6
53	The Wear Performance of Glazed and Polished Full Contour Zirconia. <i>Brazilian Dental Journal</i> , 2019 , 30, 511-518	1.9	6
52	In-lab simulation of CAD/CAM milling of lithium disilicate glass-ceramic specimens: Effect on the fatigue behavior of the bonded ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 121, 104604	4.1	6
51	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	3	6
50	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	4.1	5
49	Failure Probability, Stress Distribution and Fracture Analysis of Experimental Screw for Micro Conical Abutment. <i>Brazilian Dental Journal</i> , 2019 , 30, 157-163	1.9	5
48	Strength of a feldspar ceramic according to the thickness and polymerization mode of the resin cement coating. <i>Dental Materials Journal</i> , 2011 , 30, 323-9	2.5	5
47	Mechanical Behavior of Different Restorative Materials and Onlay Preparation Designs in Endodontically Treated Molars. <i>Materials</i> , 2021 , 14,	3.5	5
46	Mechanical Behavior of Different Micro Conical Abutments in Fixed Prosthesis. <i>International Journal of Oral and Maxillofacial Implants</i> , 2018 , 33, 1199-1205	2.8	5
45	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	4.1	4
44	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	2	4
43	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	3.3	4
42	Interfacial fracture of dentin adhesively bonded to quartz-fiber reinforced composite. <i>Materials Science and Engineering C</i> , 2011 , 31, 770-774	8.3	4

41	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	3	4
40	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, The</i> , 2016 , 24, 164-168	0.9	4
39	Zirconia-porcelain bonding: effect of multiple firings on microtensile bond strength. <i>Journal of Adhesive Dentistry</i> , 2013 , 15, 467-72	3	4
38	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	2.1	3
37	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	3.4	3
36	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	4.1	3
35	Influence of Zingiber officinale Extract on Push-Out Bond Strength of Glass-Fiber Post. <i>Brazilian Dental Journal</i> , 2018 , 29, 93-98	1.9	3
34	Harmful Effect of Beer on Bovine Enamel Microhardness - In Vitro Study. <i>PLoS ONE</i> , 2016 , 11, e0163440	3.7	3
33	Antimicrobial and mechanical acrylic resin properties with silver particles obtained from <i>Fusarium oxysporum</i> . <i>Brazilian Dental Science</i> , 2018 , 21, 96	1.2	3
32	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	2.1	3
31	The roles of microstructure and surface energy on subcritical crack growth in glass-ceramics. <i>Ceramics International</i> , 2021 , 47, 6827-6833	5.1	3
30	Can Cleansing Regimens Effectively Eliminate Saliva Contamination from Lithium Disilicate Ceramic Surface?. <i>European journal of prosthodontics and restorative dentistry, The</i> , 2017 , 25, 9-14	0.9	3
29	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	3	3
28	Mechanical performance of monolithic materials cemented to a dentin-like substrate. <i>Journal of Prosthetic Dentistry</i> , 2020 , 123, 753.e1-753.e7	4	2
27	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	3.4	2
26	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, 265-9	3.3	2
25	Mechanical behavior and microstructural characterization of different zirconia polycrystals in different thicknesses.. <i>Journal of Advanced Prosthodontics</i> , 2021 , 13, 385-395	2.2	2
24	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	4.1	2

23	Can heat-pressed feldspathic ceramic be submitted to multiple heat-pressing?. <i>Brazilian Oral Research</i> , 2018 , 32, e106	2.6	2
22	Resin bond strength to zirconia: effects of surface treatments and resin cements. <i>General Dentistry</i> , 2019 , 67, 71-77	1.2	2
21	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	3	2
20	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	2	1
19	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	2	1
18	Coronally Advanced Flap for Root Coverage: A 2-Year Case Series Follow-up. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2015 , 35, 355-61	2.1	1
17	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	3.3	1
16	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	1.9	1
15	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	2	1
14	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	4.1	1
13	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	1.9	1
12	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	2.9	1
11	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	3.9	1
10	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	2.1	1
9	Effect of finishing/polishing techniques and aging on topography, C. albicans adherence, and flexural strength of ultra-translucent zirconia: an in situ study. <i>Clinical Oral Investigations</i> , 2021 , 1	4.2	1
8	Comparative Stress Evaluation between Bilayer, Monolithic and Cutback All-Ceramic Crown Designs: 3D Finite Element Study. <i>Prosthesis</i> , 2021 , 3, 173-180	4.7	0
7	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	1.8	0
6	Stress Distribution in Modified Veneer Crowns: 3D Finite Element Analysis. <i>Oral</i> , 2021 , 1, 272-280		0

- 5 Wear behavior of silica-infiltrated monolithic zirconia: Effects on the mechanical properties and surface characterization. *Ceramics International*, **2021**, 48, 6649-6649 5.1
- 4 The number of specimens in a furnace affects the biaxial flexural strength of veneered zirconia specimens after sintering. *Journal of Adhesion Science and Technology*, **2021**, 35, 663-672 2
- 3 Can the type of preheated resin composite influence the microtensile bond strength of ceramic restoration to human dentin?. *Journal of Adhesion Science and Technology*, 1-15 2
- 2 Does the zirconia cleaning protocol followed by vitrification increase the resin-bond strength to zirconia?. *Journal of Adhesion Science and Technology*, 1-14 2
- 1 Fatigue strength of 5Y-FSZ: glazing and polishing effects.. *Clinical Oral Investigations*, **2022**, 1 4.2