Renata Marques Melo

List of Publications by Year in Descending Order

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	Fatigue strength of 5Y-FSZ: glazing and polishing effects.. *Clinical Oral Investigations*, **2022**, 1	4.2	
93	CAD-FEA modeling and fracture resistance of bilayer zirconia crowns manufactured by the rapid layer technology. *Brazilian Dental Journal*, **2021**, 32, 44-55	1.9	1
92	Wear behavior of silica-infiltrated monolithic zirconia: Effects on the mechanical properties and surface characterization. *Ceramics International*, **2021**, 48, 6649-6649	5.1	
91	Mechanical behavior and microstructural characterization of different zirconia polycrystals in different thicknesses.. *Journal of Advanced Prosthodontics*, **2021**, 13, 385-395	2.2	2
90	Does the glaze application on Y-TZP surface improve the bond strength to pressed veneering ceramic?. *Journal of Adhesion Science and Technology*, **2021**, 35, 1459-1471	2	1
89	Feldspathic and Lithium Disilicate Onlays with a 2-Year Follow-Up: Split-Mouth Randomized Clinical Trial. *Brazilian Dental Journal*, **2021**, 32, 53-63	1.9	1
88	Mechanical Behavior of Different Restorative Materials and Onlay Preparation Designs in Endodontically Treated Molars. *Materials*, **2021**, 14,	3.5	5
87	Influence of Alternative and Conventional Surface Treatments on the Bonding Mechanism between PEEK and Veneering Resin for Dental Application. *Coatings*, **2021**, 11, 719	2.9	1
86	Comparative Stress Evaluation between Bilayer, Monolithic and Cutback All-Ceramic Crown Designs: 3D Finite Element Study. *Prosthesis*, **2021**, 3, 173-180	4.7	0
85	Microstructure and mechanical properties of fully sintered zirconia glazed with an experimental glass. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 113, 104093	4.1	2
84	Effect of hydroxyapatite and 45S5 bioactive glass addition on a dental adhesive resin cement. *International Journal of Applied Glass Science*, **2021**, 12, 78-88	1.8	0
83	The roles of microstructure and surface energy on subcritical crack growth in glass-ceramics. *Ceramics International*, **2021**, 47, 6827-6833	5.1	3
82	Effect of Consecutive Firings on the Optical and Mechanical Properties of Silicate and Lithium Disilicate Based Glass-Ceramics. *Journal of Prosthodontics*, **2021**, 30, 776-782	3.9	1
81	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	
80	Effect of finishing/polishing techniques and aging on topography, C. albicans adherence, and flexural strength of ultra-translucent zirconia: an in situ study. *Clinical Oral Investigations*, **2021**, 1	4.2	1
79	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	4.1	6
78	Stress Distribution in Modified Veneer Crowns: 3D Finite Element Analysis. *Oral*, **2021**, 1, 272-280		0

77	Effect of resin cement space on the fatigue behavior of bonded CAD/CAM leucite ceramic crowns. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 110, 103893	4.1	3
76	Mechanical performance of monolithic materials cemented to a dentin-like substrate. *Journal of Prosthetic Dentistry*, **2020**, 123, 753.e1-753.e7	4	2
75	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. *Journal of Adhesion Science and Technology*, **2020**, 34, 1253-1268	2	1
74	Effect of glazing application side and mechanical cycling on the biaxial flexural strength and Weibull characteristics of a Y-TZP ceramic. *Journal of Applied Oral Science*, **2020**, 28, e20200438	3.3	1
73	Ceramic firing protocols and thermocycling: effects on the load-bearing capacity under fatigue of a bonded zirconia lithium silicate glass-ceramic. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 110, 103963	4.1	1
72	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	4.1	7
71	In vitro wear of a zirconium-reinforced lithium silicate ceramic against different restorative materials. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 100, 103403	4.1	5
70	Effect of pH variation on the subcritical crack growth parameters of glassy matrix ceramics. *International Journal of Applied Ceramic Technology*, **2019**, 16, 2449-2456	2	4
69	Strength of a Zirconia-Reinforced Lithium Silicate Ceramic: Acid-Etching Time and Resin Cement Application Effects. *International Journal of Periodontics and Restorative Dentistry*, **2019**, 39, 431-437	2.1	3
68	Effect of different loading pistons on stress distribution of a CAD/CAM silica-based ceramic: CAD-FEA modeling and fatigue survival analysis. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 94, 207-212	4.1	8
67	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	4.1	8
66	Failure Probability, Stress Distribution and Fracture Analysis of Experimental Screw for Micro Conical Abutment. *Brazilian Dental Journal*, **2019**, 30, 157-163	1.9	5
65	Reinforced Glass-ceramics: Parametric Inspection of Three-Dimensional Wear and Volumetric Loss after Chewing Simulation. *Brazilian Dental Journal*, **2019**, 30, 505-510	1.9	10
64	The Wear Performance of Glazed and Polished Full Contour Zirconia. *Brazilian Dental Journal*, **2019**, 30, 511-518	1.9	6
63	Bioinspired silica-infiltrated zirconia bilayers: Strength and interfacial bonding. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 89, 143-149	4.1	10
62	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	4.1	13
61	The performance of sol-gel silica coated Y-TZP for veneered and monolithic dental restorations. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 90, 515-522	4.1	7
60	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	3.5	15

59	Resin bond strength to zirconia: effects of surface treatments and resin cements. *General Dentistry*, **2019**, 67, 71-77	1.2	2
58	Impact of Acid Concentration and Firing on the Long-term Bond Strength of a Zirconia-Lithium Silicate Ceramic Following Adhesive Cementation. *Journal of Adhesive Dentistry*, **2019**, 21, 355-363	3	2
57	Fatigue Failure Load of Resin-bonded Simplified Lithium Disilicate Glass-Ceramic Restorations: Effect of Ceramic Conditioning Methods. *Journal of Adhesive Dentistry*, **2019**, 21, 373-381	3	6
56	Fatigue failure load of two resin-bonded zirconia-reinforced lithium silicate glass-ceramics: Effect of ceramic thickness. *Dental Materials*, **2018**, 34, 891-900	5.7	31
55	Fatigue failure load of zirconia-reinforced lithium silicate glass ceramic cemented to a dentin analogue: Effect of etching time and hydrofluoric acid concentration. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 77, 375-382	4.1	30
54	Impact of crystallization firing process on the microstructure and flexural strength of zirconia-reinforced lithium silicate glass-ceramics. *Dental Materials*, **2018**, 34, 1483-1491	5.7	35
53	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	2.6	11
52	Influence of Zingiber officinale Extract on Push-Out Bond Strength of Glass-Fiber Post. *Brazilian Dental Journal*, **2018**, 29, 93-98	1.9	3
51	Antimicrobial and mechanical acrylic resin properties with silver particles obtained from Fusarium oxysporum. *Brazilian Dental Science*, **2018**, 21, 96	1.2	3
50	The Influence of Ceramic Re-pressing on Surface Properties, Bond Strength, and Color Stability of Leucite Ceramic. *Journal of Adhesive Dentistry*, **2018**, 20, 389-395	3	4
49	Can heat-pressed feldspathic ceramic be submitted to multiple heat-pressing?. *Brazilian Oral Research*, **2018**, 32, e106	2.6	2
48	Mechanical Behavior of Different Micro Conical Abutments in Fixed Prosthesis. *International Journal of Oral and Maxillofacial Implants*, **2018**, 33, 1199-1205	2.8	5
47	A Powdering Technique for Veneering Zirconia and Its Effect on the Flexural Strength of Ceramic Bilayers. *International Journal of Periodontics and Restorative Dentistry*, **2018**, 38, 865-871	2.1	1
46	Endocrown restorations: Influence of dental remnant and restorative material on stress distribution. *Dental Materials*, **2018**, 34, 1466-1473	5.7	42
45	Effects of two grading techniques of zirconia material on the fatigue limit of full-contour 3-unit fixed dental prostheses. *Dental Materials*, **2017**, 33, e155-e164	5.7	28
44	Fatigue limit of monolithic Y-TZP three-unit-fixed dental prostheses: Effect of grinding at the gingival zone of the connector. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 72, 159-162	4.1	4
43	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	2	12
42	Effect of ceramic thickness, grinding, and aging on the mechanical behavior of a polycrystalline zirconia. *Brazilian Oral Research*, **2017**, 31, e82	2.6	15

41	Effects of porcelain thickness on the flexural strength and crack propagation in a bilayered zirconia system. *Journal of Applied Oral Science*, **2017**, 25, 566-574	3.3	4
40	Can Cleansing Regimens Effectively Eliminate Saliva Contamination from Lithium Disilicate Ceramic Surface?. *European journal of prosthodontics and restorative dentistry, The*, **2017**, 25, 9-14	0.9	3
39	Comparison of methanol/hydrochloric, ferric chloride acid versus tribochemical silica coating for adhesion of resin cement to zirconium dioxide. *Journal of Adhesion Science and Technology*, **2016**, 30, 2690-2698	2	1
38	A new silica-infiltrated Y-TZP obtained by the sol-gel method. *Journal of Dentistry*, **2016**, 48, 55-61	4.8	20
37	Harmful Effect of Beer on Bovine Enamel Microhardness - In Vitro Study. *PLoS ONE*, **2016**, 11, e0163440	3.7	3
36	The Impact of Conical and Nonconical Abutments on Bacterial Infiltration at the Implant-Abutment Interface. *International Journal of Periodontics and Restorative Dentistry*, **2016**, 36, 825-831	2.1	3
35	Low-Fusing Porcelain Glaze Application on 3Y-TZP Surfaces can Enhance Zirconia-Porcelain Adhesion. *Brazilian Dental Journal*, **2016**, 27, 543-547	1.9	11
34	Bonding of the Polymer Polyetheretherketone (PEEK) to Human Dentin: Effect of Surface Treatments. *Brazilian Dental Journal*, **2016**, 27, 693-699	1.9	10
33	Microstructure characterization and SCG of newly engineered dental ceramics. *Dental Materials*, **2016**, 32, 870-8	5.7	108
32	Fracture of Zirconia Abutment with Metallic Insertion on Anterior Single Titanium Implant with Internal Hexagon: Retrieval Analysis of a Failure. *European journal of prosthodontics and restorative dentistry, The*, **2016**, 24, 164-168	0.9	4
31	Heat treatment of silanized feldspathic ceramic: Effect on the bond strength to resin after thermocycling. *International Journal of Adhesion and Adhesives*, **2015**, 63, 96-101	3.4	3
30	Coronally Advanced Flap for Root Coverage: A 2-Year Case Series Follow-up. *International Journal of Periodontics and Restorative Dentistry*, **2015**, 35, 355-61	2.1	1
29	Failure Probability of Three Designs of Zirconia Crowns. *International Journal of Periodontics and Restorative Dentistry*, **2015**, 35, 843-9	2.1	20
28	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, 71-8	3.3	10
27	Influence of insertion techniques for resin cement and mechanical cycling on the bond strength between fiber posts and root dentin. *Journal of Adhesive Dentistry*, **2015**, 17, 175-80	3	7
26	Effects of aging procedures on the topographic surface, structural stability, and mechanical strength of a ZrO2-based dental ceramic. *Dental Materials*, **2014**, 30, e396-404	5.7	57
25	Effect of the interfacial area measurement parameters on the push-out strength between fiber post and dentin. *International Journal of Adhesion and Adhesives*, **2014**, 50, 7-10	3.4	2
24	Effect of the layering technique on bond strength and cohesive resistance of a porcelain-zirconia system. *Journal of Adhesive Dentistry*, **2014**, 16, 57-62	3	3

23	Air-particle abrasion on zirconia ceramic using different protocols: effects on biaxial flexural strength after cyclic loading, phase transformation and surface topography. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 26, 155-63	4.1	83
22	Effects of thickness, processing technique, and cooling rate protocol on the flexural strength of a bilayer ceramic system. *Dental Materials*, **2013**, 29, 1063-72	5.7	38
21	Effect of air-particle abrasion protocols on the biaxial flexural strength, surface characteristics and phase transformation of zirconia after cyclic loading. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 20, 19-28	4.1	74
20	Surface agentsUnfluence on the flexural strength of bilaminated ceramics. *Brazilian Oral Research*, **2013**, 27, 311-7	2.6	6
19	Zirconia-porcelain bonding: effect of multiple firings on microtensile bond strength. *Journal of Adhesive Dentistry*, **2013**, 15, 467-72	3	4
18	Bond strengths, degree of conversion of the cement and molecular structure of the adhesive-dentine joint in fibre post restorations. *Journal of Dentistry*, **2012**, 40, 286-94	4.8	9
17	Strength of a feldspar ceramic according to the thickness and polymerization mode of the resin cement coating. *Dental Materials Journal*, **2011**, 30, 323-9	2.5	5
16	Interfacial fracture of dentin adhesively bonded to quartz-fiber reinforced composite. *Materials Science and Engineering C*, **2011**, 31, 770-774	8.3	4
15	Bond strength of two resin cements on dentin using different cementation strategies. *Journal of Esthetic and Restorative Dentistry*, **2010**, 22, 262-8	3.5	8
14	The adhesive system and root canal region do not influence the degree of conversion of dual resin cement. *Journal of Applied Oral Science*, **2010**, 18, 477-81	3.3	7
13	Bond strength durability of self-etching adhesives and resin cements to dentin. *Journal of Applied Oral Science*, **2009**, 17, 155-60	3.3	11
12	Comparison of resin push-out strength to root dentin of bovine- and human-teeth. *Indian Journal of Dental Research*, **2009**, 20, 332-6	0.8	18
11	Evaluation of light transmission through translucent and opaque posts. *Operative Dentistry*, **2008**, 33, 321-4	2.9	33
10	Adhesive cementation of zirconia posts to root dentin: evaluation of the mechanical cycling effect. *Brazilian Oral Research*, **2008**, 22, 264-9	2.6	12
9	Effect of adhesive system type and tooth region on the bond strength to dentin. *Journal of Adhesive Dentistry*, **2008**, 10, 127-33	3	13
8	Adhesives with different pHs: effect on the MTBS of chemically activated and light-activated composites to human dentin. *Journal of Applied Oral Science*, **2007**, 15, 265-9	3.3	2
7	Microtensile bond strength of a repair composite to leucite-reinforced feldspathic ceramic. *Brazilian Dental Journal*, **2007**, 18, 314-9	1.9	38
6	Effect of surface conditioning methods on the microtensile bond strength of resin composite to composite after aging conditions. *Dental Materials*, **2007**, 23, 1276-82	5.7	151

5	Effect of mechanical cycling on the push-out bond strength of fiber posts adhesively bonded to human root dentin. *Operative Dentistry*, **2007**, 32, 579-88	2.9	27
4	Evaluation of the flexural strength of carbon fiber-, quartz fiber-, and glass fiber-based posts. *Journal of Endodontics*, **2005**, 31, 209-11	4.7	67
3	Shear bond strengths of a ceramic system to alternative metal alloys. *Journal of Prosthetic Dentistry* , **2005**, 93, 64-9	4	78
2	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	
1	Does the zirconia cleaning protocol followed by vitrification increase the resin-bond strength to zirconia?. *Journal of Adhesion Science and Technology*,1-14	2	