Rodrigo Souza

List of Publications by Year
in descending order

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86 papers	1,590 citations	331538 21 h-index	345118 36 g-index
86 all docs	86 docs citations	86 times ranked	1310 citing authors

#	Article	IF	Citations
1	Airâ€“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, 155-163.	1.5	114
2	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.	1.5	100
3	Lowâ€temperature degradation of a Yâ€TZP ceramic after surface treatments. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101, 1387-1392.	1.6	97
4	CAD-FEA modeling and analysis of different full crown monolithic restorations. Dental Materials, 2018, 34, 1342-1350.	1.6	87
5	Marginal and Internal Discrepancies Related to Margin Design of Ceramic Crowns Fabricated by a CAD/CAM System. Journal of Prosthodontics, 2012, 21, 94-100.	1.7	82
6	Effects of aging procedures on the topographic surface, structural stability, and mechanical strength of a ZrO2-based dental ceramic. Dental Materials, 2014, 30, e396-e404.	1.6	73
7	Morphology and bacterial colonisation of tooth/ceramic restoration interface after different cement excess removal techniques. Journal of Dentistry, 2012, 40, 742-749.	1.7	55
8	Effects of thickness, processing technique, and cooling rate protocol on the flexural strength of a bilayer ceramic system. Dental Materials, 2013, 29, 1063-1072.	1.6	48
9	Surface Treatments of Zirconia to Enhance Bonding Durability. Operative Dentistry, 2015, 40, 636-643.	0.6	47
10	Bonding of Y-TZP to Dentin: Effects of Y-TZP Surface Conditioning, Resin Cement Type, and Aging. Operative Dentistry, 2014, 39, 291-300.	0.6	42
11	Mechanical and Thermal Cycling Effects on the Flexural Strength of Glass Ceramics Fused to Titanium. Dental Materials Journal, 2008, 27, 7-15.	0.8	41
12	Effect of finishing/polishing techniques and low temperature degradation on the surface topography, phase transformation and flexural strength of ultra-translucent ZrO2 ceramic. Dental Materials, 2020, 36, e126-e139.	1.6	40
13	Can application of universal primers alone be a substitute for airborne-particle abrasion to improve adhesion of resin cement to zirconia?. Journal of Adhesive Dentistry, 2015, 17, 169-74.	0.3	40
14	Influence of Alveolar Bone Loss and Cement Layer Thickness on the Biomechanical Behavior of Endodontically Treated Maxillary Incisors: A 3-dimensional Finite Element Analysis. Journal of Endodontics, 2017, 43, 791-795.	1.4	39
15	Ultrathin Monolithic Zirconia Veneers: Reality or Future? Report of a Clinical Case and One-year Follow-up. Operative Dentistry, 2018, 43, 3-11.	0.6	39
16	Effect of Adhesive Cementation Strategies on the Bonding of Y-TZP to Human Dentin. Operative Dentistry, 2016, 41, 276-283.	0.6	36
17	Effect of intra-oral aging on tâ†'m phase transformation, microstructure, and mechanical properties of Y-TZP dental ceramics. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 72, 14-21.	1.5	32
18	Effect of hydrofluoric acid concentration and etching time on resin-bond strength to different glass ceramics. Brazilian Oral Research, 2019, 33, e041.	0.6	32

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19	Deposition of SiOx thin films on Y-TZP by reactive magnetron sputtering: influence of plasma parameters on the adhesion properties between Y-TZP and resin cement for application in dental prosthesis. Materials Research, 2011, 14, 212-216.	0.6	31
20	Influence of air-particle deposition protocols on the surface topography and adhesion of resin cement to zirconia. Acta Odontologica Scandinavica, 2014, 72, 346-353.	0.9	30
21	Bonding of the Polymer Polyetheretherketone (PEEK) to Human Dentin: Effect of Surface Treatments. Brazilian Dental Journal, 2016, 27, 693-699.	0.5	27
22	Vulnerability of Cerrado threatened mammals: an integrative landscape and climate modeling approach. Biodiversity and Conservation, 2020, 29, 1637-1658.	1.2	25
23	Can the Application of Multi-Mode Adhesive be a Substitute to Silicatized/Silanized Y-TZP Ceramics?. Brazilian Dental Journal, 2018, 29, 275-281.	0.5	22
24	Monoclinic phase transformation and mechanical durability of zirconia ceramic after fatigue and autoclave aging. , 2017, 105, 1972-1977.		21
25	Bacterial Colonization in the Marginal Region of Ceramic Restorations: Effects of Different Cement Removal Methods and Polishing. Operative Dentistry, 2016, 41, 642-654.	0.6	18
26	Hydrofluoric acid concentration, time and use of phosphoric acid on the bond strength of feldspathic ceramics. Brazilian Oral Research, 2020, 34, e018.	0.6	17
27	Effect of different repair methods on the bond strength of resin composite to CAD/CAM materials and microorganisms adhesion: An in situ study. Journal of Dentistry, 2020, 93, 103266.	1.7	15
28	Durability and Weibull Characteristics of Lithium Disilicate Crowns Bonded on Abutments with Knifeâ€Edge and Large Chamfer Finish Lines after Cyclic Loading. Journal of Prosthodontics, 2015, 24, 615-619.	1.7	14
29	Short communication: Influence of retainer configuration and loading direction on the stress distribution of lithium disilicate resin-bonded fixed dental prostheses: 3D finite element analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 100, 103389.	1.5	14
30	Which surface treatment promotes higher bond strength for the repair of resin nanoceramics and polymer-infiltrated ceramics? A systematic review and meta-analysis. Journal of Prosthetic Dentistry, 2022, 128, 139-149.	1.1	14
31	Effect of different surface treatments on the biaxial flexure strength, Weibull characteristics, roughness, and surface topography of bonded CAD/CAM silica-based ceramics. Dental Materials, 2021, 37, e151-e161.	1.6	13
32	Effect of primer-cement systems with different functional phosphate monomers on the adhesion of zirconia to dentin. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 88, 69-77.	1.5	12
33	Potassium alum thermal decomposition study under non-reductive and reductive conditions. Journal of Materials Research and Technology, 2019, 8, 745-751.	2.6	12
34	Silica infiltration in partially stabilized zirconia: Effect of hydrothermal aging on mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 109, 103774.	1.5	12
35	Effect of extrinsic pigmentation and surface treatments on biaxial flexure strength after cyclic loading of a translucent ZrO2 ceramic. Dental Materials, 2019, 35, 1644-1653.	1.6	11
36	Effect of Consecutive Firings on the Optical and Mechanical Properties of Silicate and Lithium Disilicate Based Glassâ€Ceramics. Journal of Prosthodontics, 2021, 30, 776-782.	1.7	11

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37	Influence of polishing procedures on the surface roughness of dental ceramics made by different techniques. General Dentistry, 2013, 61, e4-8.	0.4	11
38	Effect of Air-Abrasion Regimens and Fine Diamond Bur Grinding on Flexural Strength, Weibull Modulus and Phase Transformation of Zirconium Dioxide. Journal of Applied Biomaterials and Functional Materials, 2015, 13, 266-273.	0.7	10
39	Can low-fusing glass application affect the marginal misfit and bond strength of Y-TZP crowns?. Brazilian Oral Research, 2018, 32, e34.	0.6	10
40	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.	1.5	10
41	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, 2022, 26, 889-900.	1.4	10
42	Do Mechanical Advantages Exist in Relining Fiber Posts with Composite Prior to its Cementation?. Journal of Adhesive Dentistry, 2018, 20, 511-518.	0.3	10
43	Durability of microtensile bond to nonetched and etched feldspar ceramic: self-adhesive resin cements vs conventional resin. Journal of Adhesive Dentistry, 2011, 13, 155-62.	0.3	10
44	Effect of different bonding protocols on degree of monomer conversion and bond strength between orthodontic brackets and enamel. Brazilian Oral Research, 2018, 32, e58.	0.6	9
45	MgSO4 carbothermic reductive decomposition to produce a highly reactive MgO powder. Journal of Materials Research and Technology, 2020, 9, 1847-1855.	2.6	9
46	Mechanical Behavior of Different Micro Conical Abutments in Fixed Prosthesis. International Journal of Oral and Maxillofacial Implants, 2018, 33, 1199-1205.	0.6	8
47	Pyrometallurgical processing of a low copper content concentrate based on a thermodynamic assessment. Minerals Engineering, 2019, 130, 156-164.	1.8	8
48	Dentin/composite bond strength: effect of aging and experimental unit. Journal of Adhesion Science and Technology, 2021, 35, 536-546.	1.4	8
49	Y-TZP surface behavior under two different milling systems and three different accelerated aging protocols. Minerva Stomatologica: A Journal on Dentirstry and Maxillofacial Surgery, 2018, 67, 237-245.	1.3	8
50	Effect of temporary cement removal methods from human dentin on zirconia-dentin adhesion. Journal of Adhesion Science and Technology, 2019, 33, 2112-2127.	1.4	7
51	Interfacial Properties and Bottom/Top Hardness Ratio Produced by Bulk Fill Composites in Dentin Cavities. Brazilian Dental Journal, 2019, 30, 476-483.	0.5	7
52	Shear bond strength of orthodontic brackets bonded using halogen light and light-emitting diode at different debond times. Brazilian Oral Research, 2010, 24, 64-69.	0.6	6
53	Fracture Strength, Failure Types, and Weibull Characteristics of Three-Unit Zirconia Fixed Dental Prostheses After Cyclic Loading: Effects of Veneering and Air-Abrasion Protocols. International Journal of Periodontics and Restorative Dentistry, 2016, 36, 901-908.	0.4	6
54	Marginal and internal discrepancies of zirconia copings: Effects of milling system and finish line design. Indian Journal of Dental Research, 2015, 26, 15.	0.1	6

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55	Effect of different surface treatments and multimode adhesive application on the Weibull characteristics, wettability, surface topography and adhesion to CAD/CAM lithium disilicate ceramic. Journal of Applied Oral Science, 2020, 28, e20200122.	0.7	6
56	Repair Bond Strength of a CAD/CAM Nanoceramic Resin and Direct Composite Resin: Effect of Aging and Surface Conditioning Methods. Journal of Adhesive Dentistry, 2020, 22, 275-283.	0.3	6
57	Effect of aging type and aged unit on the repair strength of resin composite to feldspathic porcelain in testing microtensile bond strength. Journal of Adhesion Science and Technology, 2016, 30, 434-442.	1.4	5
58	Effects of ionizing radiation on surface properties of current restorative dental materials. Journal of Materials Science: Materials in Medicine, 2021, 32, 69.	1.7	5
59	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.	0.7	5
60	Effects of cement-curing mode and light-curing unit on the bond durability of ceramic cemented to dentin. Brazilian Oral Research, 2013, 27, 169-175.	0.6	4
61	Mechanical properties of low and regular viscosity bulk fill composites in a 3D dentin cavity model. Journal of Adhesion Science and Technology, 2021, 35, 325-335.	1.4	4
62	Influence of Acid Etching and Universal Adhesives on the Bond Strength to Dentin. Brazilian Dental Journal, 2020, 31, 272-280.	0.5	4
63	The effect of air-particle abrasion and a zirconia primer application on resin cement bonding strength to zirconia. Minerva Stomatologica: A Journal on Dentirstry and Maxillofacial Surgery, 2019, 68, 89-94.	1.3	4
64	Surface roughness and bond strength between Y-TZP and self-adhesive resin cement after air particle abrasion protocols. General Dentistry, 2016, 64, 50-5.	0.4	4
65	Can heat-pressed feldspathic ceramic be submitted to multiple heat-pressing?. Brazilian Oral Research, 2018, 32, e106.	0.6	3
66	Influence of testing parameters on the load-bearing capacity of prosthetic materials used for fixed dental prosthesis: A systematic review and meta-analysis. Brazilian Dental Science, 2018, 21, 470.	0.1	3
67	Effect of different surface treatments on the micro tensile bond strength to dentin, biaxial flexural strength and roughness of CAD/CAM resin composite and polymer infiltrated ceramic. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 131, 105257.	1.5	3
68	Influence of ceramic thickness and light-curing time on the long-term ÂµTBS of silica-based ceramic to human dentin. Journal of Adhesion Science and Technology, 2017, 31, 1700-1710.	1.4	2
69	Effect of Cervical Collar Removal on the Fracture Load of Anterior Zirconia Crowns. International Journal of Periodontics and Restorative Dentistry, 2017, 37, 241-247.	0.4	2
70	Can the type of preheated resin composite influence the microtensile bond strength of ceramic restoration to human dentin?. Journal of Adhesion Science and Technology, 2022, 36, 1557-1571.	1.4	2
71	Resin push-out bonding strength to root canal dentin: effect of the irrigation solution application prior to post cementation. Brazilian Dental Science, 2017, 20, 85-92.	0.1	2
72	CAD-FEA modeling and fracture resistance of bilayer zirconia crowns manufactured by the rapid layer technology. Brazilian Dental Journal, 2021, 32, 44-55.	0.5	2

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73	Resin bond strength to zirconia: effects of surface treatments and resin cements. General Dentistry, 2019, 67, 71-77.	0.4	2
74	Bond and topography evaluation of a Y-TZP ceramic with a superficial low-fusing porcelain glass layer after different hydrofluoric acid etching protocols. Universidade Estadual Paulista Revista De Odontologia, 2018, 47, 348-353.	0.3	1
75	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.	0.4	1
76	Can enamel etching with the Er:YAG laser be an alternative to the conventional phosphoric acid for bracket bonding? A systematic review and meta-analysis. Journal of Adhesion Science and Technology, 2022, 36, 685-700.	1.4	1
77	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.	1.4	1
78	Which low-fusing porcelain glaze treatment technique is better to promote a vitreous surface on Y-TZP ceramic?. Revista Odonto Ciencia, 2017, 32, 174.	0.0	1
79	Fatigue strength of 5Y-FSZ: glazing and polishing effects. Clinical Oral Investigations, 2022, 26, 4479-4486.	1.4	1
80	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.	1.4	0
81	Bond strength and Weibull analysis of fiber posts luted with different cement types and mechanically aged. Journal of Adhesion Science and Technology, 2022, 36, 762-773.	1.4	0
82	Does the zirconia cleaning protocol followed by vitrification increase the resin-bond strength to zirconia?. Journal of Adhesion Science and Technology, 0, , 1-14.	1.4	0
83	Efeito da aplicaÃ§Ã£o tÃ³pica de um verniz de TiF4 quimicamente estÃ¡vel na desmineralizaÃ§Ã£o do esmalte dentÃ¡rio bovino: estudo in vitro. Universidade Estadual Paulista Revista De Odontologia, 2013, 42, 372-377.	0.3	0
84	Different surface treatment protocols of a Y-TZP ceramic with a superficial glaze layer. Brazilian Journal of Oral Sciences, 0, 18, e191504.	0.1	0
85	Effect of Thickness, Processing Technique and Cooling Rate Protocol on the Î¼TBS of a Bilayer Ceramic System. Journal of Adhesive Dentistry, 2015, 17, 307-12.	0.3	0
86	Which Zirconia Surface-cleaning Strategy Improves Adhesion of Resin Composite Cement after Saliva Contamination? A Systematic Review and Meta-Analysis.. Journal of Adhesive Dentistry, 2022, 24, 175-186.	0.3	0