Roberto Ruggiero Braga

List of Publications by Year
in descending order

116	6,285	61945	74108
papers	citations	43 h-index	75 g-index

116	116	116	3671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of the calcium orthophosphate:glass ratio and calcium orthophosphate functionalization on the degree of conversion and mechanical properties of resinâ€based composites. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2023, 111, 95-102.	1.6	1
2	Influence of different concentrations of an iodonium salt on properties of amine-free resins. Dental Materials, 2022, , .	1.6	0
3	Effects of the crosslinking of chitosan/DCPA particles in the antimicrobial and mechanical properties of dental restorative composites. Dental Materials, 2022, 38, 1482-1491.	1.6	3
4	Multifunctional Restorative Dental Materials: Remineralization and Antibacterial Effect. , 2021, , 115-126.		1
5	Experimental dentin adhesives containing calcium orthophosphate particles: Effect on dentin bond strength, micro-permeability and collagen degradation. International Journal of Adhesion and Adhesives, 2021, 107, 102828.	1.4	3
6	Physicochemical properties of dental resins formulated with amine-free photoinitiation systems. Dental Materials, 2021, 37, 1358-1365.	1.6	7
7	Polymerization shrinkage stress, internal adaptation, and dentin bond strength of bulk-fill restorative materials. International Journal of Adhesion and Adhesives, 2021, 111, 102964.	1.4	1
8	Effect of Temperature and pH on Calcium Phosphate Precipitation. Crystal Research and Technology, 2021, 56, 2100094.	0.6	8
9	The use of bioactive particles and biomimetic analogues for increasing the longevity of resin-dentin interfaces: A literature review. Dental Materials Journal, 2020, 39, 62-68.	0.8	29
10	Effect of temperature and reactant concentration on calcium phosphate precipitation. Journal of Crystal Growth, 2020, 552, 125909.	0.7	3
11	Development of brushite particles synthesized in the presence of acidic monomers for dental applications. Materials Science and Engineering C, 2020, 116, 111178.	3.8	5
12	Effect of Curing Light and Exposure Time on the Polymerization of Bulk-Fill Resin-Based Composites in Molar Teeth. Operative Dentistry, 2020, 45, E141-E155.	0.6	28
13	Development of novel dental restorative composites with dibasic calcium phosphate loaded chitosan fillers. Dental Materials, 2020, 36, 551-559.	1.6	32
14	Effect of calcium orthophosphate: Reinforcing glass ratio and prolonged water storage on flexural properties of remineralizing composites. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103637.	1.5	9
15	Mechanical properties and surface roughness of polymer-based materials containing DCPD particles. Brazilian Oral Research, 2020, 34, e095.	0.6	0
16	Antimicrobial activity and physicochemical performance of a modified endodontic sealer. Research, Society and Development, 2020, 9, e069119401.	0.0	0
17	Calcium phosphates as ion-releasing fillers in restorative resin-based materials. Dental Materials, 2019, 35, 3-14.	1.6	67
18	Development of calcium phosphate/ethylene glycol dimethacrylate particles for dental applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 708-715.	1.6	10

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19	Current Developments on Enamel and Dentin Remineralization. Current Oral Health Reports, 2019, 6, 257-263.	0.5	4
20	How far do calcium release measurements properly reflect its multiple roles in dental tissue mineralization?. Clinical Oral Investigations, 2019, 23, 501-501.	1.4	8
21	Antibacterial resin-based composite containing chlorhexidine for dental applications. Dental Materials, 2019, 35, 909-918.	1.6	52
22	In vitro remineralization of artificial enamel caries with resin composites containing calcium phosphate particles. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1542-1550.	1.6	20
23	Effect of diphenyliodonium hexafluorophosphate salt on experimental infiltrants containing different diluents. Odontology / the Society of the Nippon Dental University, 2019, 107, 202-208.	0.9	12
24	Ion-releasing dental restorative composites containing functionalized brushite nanoparticles for improved mechanical strength. Dental Materials, 2018, 34, 746-755.	1.6	23
25	Effect of light curing units on the polymerization of bulk fill resin-based composites. Dental Materials, 2018, 34, 1211-1221.	1.6	56
26	A comparative study of bulk-fill composites: degree of conversion, post-gel shrinkage and cytotoxicity. Brazilian Oral Research, 2018, 32, e17.	0.6	61
27	Mechanical characterization and ion release of bioactive dental composites containing calcium phosphate particles. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 161-167.	1.5	27
28	Effect of Bioactive Composites on Microhardness of Enamel Exposed to Carious Challenge. European journal of prosthodontics and restorative dentistry, The, 2018, 26, 122-128.	0.3	2
29	Development of Polymerization Contraction Stresses in Resin-Based Composites. From Biomaterials Towards Medical Devices, 2018, , 335-369.	0.0	0
30	Evaluation of flexural modulus, flexural strength and degree of conversion in BISGMA/TEGDMA resin filled with montmorillonite nanoparticles. Journal of Composite Materials, 2017, 51, 927-937.	1.2	16
31	Polymer-based material containing calcium phosphate particles functionalized with a dimethacrylate monomer for use in restorative dentistry. Journal of Biomaterials Applications, 2017, 31, 871-877.	1.2	16
32	Streptococcus mutans adherence and biofilm formation on experimental composites containing dicalcium phosphate dihydrate nanoparticles. Journal of Materials Science: Materials in Medicine, 2017, 28, 108.	1.7	23
33	Synthesis and characterization of silver phosphate/calcium phosphate mixed particles capable of silver nanoparticle formation by photoreduction. Materials Science and Engineering C, 2017, 76, 464-471.	3.8	17
34	Trends in restorative composites research: what is in the future?. Brazilian Oral Research, 2017, 31, e55.	0.6	52
35	Replacement of glass particles by multidirectional short glass fibers in experimental composites: Effects on degree of conversion, mechanical properties and polymerization shrinkage. Dental Materials, 2016, 32, e204-e210.	1.6	18
36	Effect of diphenyliodonium hexafluorophosphate on the physical and chemical properties of ethanolic solvated resins containing camphorquinone and 1-phenyl-1,2-propanedione sensitizers as initiators. Dental Materials, 2016, 32, 756-764.	1.6	32

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37	Bioactive composites containing TEGDMA-functionalized calcium phosphate particles: Degree of conversion, fracture strength and ion release evaluation. Dental Materials, 2016, 32, e374-e381.	1.6	34
38	Polymerization stress of experimental composites containing random short glass fibers. Dental Materials, 2016, 32, 1079-1084.	1.6	7
39	Calcium and phosphate release from resinâ€based materials containing different calcium orthophosphate nanoparticles. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1670-1678.	1.6	28
40	Influence of polymeric matrix on the physical and chemical properties of experimental composites. Brazilian Oral Research, 2015, 29, S1806-83242015000100307.	0.6	19
41	Correlation between clinical performance and degree of conversion of resin cements: a literature review. Journal of Applied Oral Science, 2015, 23, 358-368.	0.7	97
42	Mechanical properties and ion release from bioactive restorative composites containing glass fillers and calcium phosphate nano-structured particles. Dental Materials, 2015, 31, 726-733.	1.6	59
43	Monomer conversion, microhardness, internal marginal adaptation, and shrinkage stress of bulk-fill resin composites. Dental Materials, 2015, 31, 1542-1551.	1.6	203
44	Microâ€‹scp›CT‹/scp› evaluation of calcium hydroxide removal through passive ultrasonic irrigation associated with or without an additional instrument. International Endodontic Journal, 2015, 48, 768-773.	2.3	20
45	Ion release and mechanical properties of calcium silicate and calcium hydroxide materials used for pulp capping. International Endodontic Journal, 2015, 48, 89-94.	2.3	70
46	Influence of the base and diluent monomer on network characteristics and mechanical properties of neat resin and composite materials. Odontology / the Society of the Nippon Dental University, 2015, 103, 160-168.	0.9	17
47	Effect of temperature on composite polymerization stress and degree of conversion. Dental Materials, 2014, 30, 613-618.	1.6	45
48	Calcium phosphate nanoparticles functionalized with a dimethacrylate monomer. Materials Science and Engineering C, 2014, 45, 122-126.	3.8	28
49	Mapping camphorquinone consumption, conversion and mechanical properties in methacrylates with systematically varied CQ/amine compositions. Dental Materials, 2014, 30, 1274-1279.	1.6	27
50	Correlation between polymerization stress and interfacial integrity of composites restorations assessed by different in vitro tests. Dental Materials, 2014, 30, 984-992.	1.6	21
51	Characterization of Water Sorption, Solubility, and Roughness of Silorane- and Methacrylate-based Composite Resins. Operative Dentistry, 2014, 39, 264-272.	0.6	29
52	Experimental and FE displacement and polymerization stress of bonded restorations as a function of the C-Factor, volume and substrate stiffness. Journal of Dentistry, 2014, 42, 140-148.	1.7	25
53	Fracture toughness and cyclic fatigue resistance of resin composites with different filler size distributions. Dental Materials, 2014, 30, 742-751.	1.6	30
54	Improved polymerization efficiency of methacrylate-based cements containing an iodonium salt. Dental Materials, 2013, 29, 1251-1255.	1.6	42

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55	Influence of specimen dimensions and their derivatives (C-factor and volume) on polymerization stress determined in a high compliance testing system. Dental Materials, 2013, 29, 1034-1039.	1.6	10
56	Composite polymerization stress as a function of specimen configuration assessed by crack analysis and finite element analysis. Dental Materials, 2013, 29, 1026-1033.	1.6	18
57	Sorption, solubility, shrinkage and mechanical properties of â€œlow-shrinkageâ€•commercial resin composites. Dental Materials, 2013, 29, 398-404.	1.6	132
58	Effect of immediate and delayed light activation on the mechanical properties and degree of conversion in dual-cured resin cements. Journal of Oral Science, 2012, 54, 261-266.	0.7	20
59	Subcritical crack growth and in vitro lifetime prediction of resin composites with different filler distributions. Dental Materials, 2012, 28, 985-995.	1.6	30
60	Monomers used in resin composites: degree of conversion, mechanical properties and water sorption/solubility. Brazilian Dental Journal, 2012, 23, 508-514.	0.5	255
61	A comparative study between crack analysis and a mechanical test for assessing the polymerization stress of restorative composites. Dental Materials, 2012, 28, 632-641.	1.6	31
62	A comparative evaluation of polymerization stress data obtained with four different mechanical testing systems. Dental Materials, 2012, 28, 680-686.	1.6	28
63	Influence of the base and diluent methacrylate monomers on the polymerization stress and its determinants. Journal of Applied Polymer Science, 2012, 123, 2985-2991.	1.3	7
64	Fiber post cementation strategies: effect of mechanical cycling on push-out bond strength and cement polymerization stress. Journal of Adhesive Dentistry, 2012, 14, 471-8.	0.3	35
65	Effect of metal primers on microtensile bond strength between zirconia and resin cements. Journal of Prosthetic Dentistry, 2011, 105, 296-303.	1.1	55
66	BisGMA/TEGDMA ratio and filler content effects on shrinkage stress. Dental Materials, 2011, 27, 520-526.	1.6	137
67	Tailoring of physical properties in highly filled experimental nanohybrid resin composites. Dental Materials, 2011, 27, 664-669.	1.6	34
68	Characterization of dimethacrylate polymeric networks: A study of the crosslinked structure formed by monomers used in dental composites. European Polymer Journal, 2011, 47, 162-170.	2.6	102
69	Effect of Immediate or Delayed Light Activation on Curing Kinetics and Shrinkage Stress of Dual-Cure Resin Cements. Operative Dentistry, 2011, 36, 196-204.	0.6	48
70	Understanding Contradictory Data in Contraction Stress Tests. Journal of Dental Research, 2011, 90, 365-370.	2.5	31
71	Do Low-shrink Composites Reduce Polymerization Shrinkage Effects?. Journal of Dental Research, 2011, 90, 596-601.	2.5	86
72	Influence of the bonding substrate in dental composite polymerization stress testing. Acta Biomaterialia, 2010, 6, 547-551.	4.1	28

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73	A critical view on biaxial and short-beam uniaxial flexural strength tests applied to resin composites using Weibull, fractographic and finite element analyses. Dental Materials, 2010, 26, 83-90.	1.6	47
74	Adhesion to tooth structure: A critical review of â€œmacroâ€•test methods. Dental Materials, 2010, 26, e38-e49.	1.6	268
75	One-year stability of resinâ€“dentin bonds created with a hydrophobic ethanol-wet bonding technique. Dental Materials, 2010, 26, 380-386.	1.6	94
76	Influence of matrix composition on polymerization stress development of experimental composites. Dental Materials, 2010, 26, 697-703.	1.6	83
77	Contraction stress related to composite inorganic content. Dental Materials, 2010, 26, 704-709.	1.6	112
78	Polymerization stress, shrinkage and elastic modulus of current low-shrinkage restorative composites. Dental Materials, 2010, 26, 1144-1150.	1.6	193
79	Ethanol Wet-bonding Challenges Current Anti-degradation Strategy. Journal of Dental Research, 2010, 89, 1499-1504.	2.5	134
80	Influence of curing light attenuation caused by aesthetic indirect restorative materials on resin cement polymerization. European Journal of Dentistry, 2010, 4, 314-23.	0.8	14
81	Bis-GMA co-polymerizations: Influence on conversion, flexural properties, fracture toughness and susceptibility to ethanol degradation of experimental composites. Dental Materials, 2009, 25, 1136-1141.	1.6	43
82	Shrinkage stress and mechanical properties of photoactivated composite resin using the argon ion laser. Applied Physics B: Lasers and Optics, 2009, 96, 79-84.	1.1	9
83	Polymerization stress, flow and dentine bond strength of two resinâ€based root canal sealers. International Endodontic Journal, 2009, 42, 867-873.	2.3	27
84	Influence of BisGMA, TEGDMA, and BisEMA contents on viscosity, conversion, and flexural strength of experimental resins and composites. European Journal of Oral Sciences, 2009, 117, 442-446.	0.7	152
85	Vertical Root Fracture in Upper Premolars with Endodontic Posts: Finite Element Analysis. Journal of Endodontics, 2009, 35, 117-120.	1.4	43
86	Photoinitiator content in restorative composites: influence on degree of conversion, reaction kinetics, volumetric shrinkage and polymerization stress. American Journal of Dentistry, 2009, 22, 206-10.	0.1	24
87	Degree of conversion and mechanical properties of a BisGMA:TEGDMA composite as a function of the applied radiant exposure. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 503-509.	1.6	79
88	Polymerization stress of resin composites as a function of system compliance. Dental Materials, 2008, 24, 645-652.	1.6	33
89	Influence of irradiant energy on degree of conversion, polymerization rate and shrinkage stress in an experimental resin composite system. Dental Materials, 2008, 24, 1164-1168.	1.6	52
90	Factors Affecting Photopolymerization Stress in Dental Composites. Journal of Dental Research, 2008, 87, 1043-1047.	2.5	62

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91	Contraction Stress Determinants in Dimethacrylate Composites. Journal of Dental Research, 2008, 87, 367-371.	2.5	76
92	Polymerization stress related to radiant exposure and its effect on microleakage of composite restorations. Journal of Dentistry, 2007, 35, 946-952.	1.7	15
93	Composite Depth of Cure Obtained with QTH and LED Units Assessed by Microhardness and Micro-Raman Spectroscopy. Operative Dentistry, 2007, 32, 79-83.	0.6	54
94	Effect of photoactivation protocol and radiant exposure on monomer conversion and flexural strength of a resin composite after water and ethanol storage. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 82B, 89-92.	1.6	13
95	Composite shrinkage stress as a function of specimen dimensions and compliance of the testing system. Dental Materials, 2007, 23, 204-210.	1.6	48
96	Influence of local factors on composite shrinkage stress development--a finite element analysis. Journal of Adhesive Dentistry, 2007, 9, 499-503.	0.3	14
97	Influence of radiant exposure on contraction stress, degree of conversion and mechanical properties of resin composites. Dental Materials, 2006, 22, 799-803.	1.6	92
98	Influence of cavity dimensions and their derivatives (volume and â€˜Câ€™ factor) on shrinkage stress development and microleakage of composite restorations. Dental Materials, 2006, 22, 818-823.	1.6	116
99	Pulse-delay Curing: Influence of Initial Irradiance and Delay Time on Shrinkage Stress and Microhardness of Restorative Composites. Operative Dentistry, 2006, 31, 610-615.	0.6	32
100	Factors involved in the development of polymerization shrinkage stress in resin-composites: A systematic review. Dental Materials, 2005, 21, 962-970.	1.6	535
101	Influence of photoactivation method on conversion, mechanical properties, degradation in ethanol and contraction stress of resin-based materials. Journal of Dentistry, 2005, 33, 773-779.	1.7	76
102	Alternatives in polymerization contraction stress management. Journal of Applied Oral Science, 2004, 12, 1-11.	0.7	23
103	Relationship between contraction stress and degree of conversion in restorative composites. Dental Materials, 2004, 20, 939-946.	1.6	74
104	A<scp>lternatives in</scp> P<scp>olymerization</scp> C<scp>ontraction</scp> S<scp>tress</scp> M<scp>anagement</scp>. Critical Reviews in Oral Biology and Medicine, 2004, 15, 176-184.	4.4	181
105	Polymerization contraction stress of low-shrinkage composites and its correlation with microleakage in class V restorations. Journal of Dentistry, 2004, 32, 407-412.	1.7	135
106	Contraction stress of flowable composite materials and their efficacy as stress-relieving layers. Journal of the American Dental Association, 2003, 134, 721-728.	0.7	145
107	Compatibility of dental adhesives and dual-cure cements. American Journal of Dentistry, 2003, 16, 235-8.	0.1	17
108	Polymerization contraction stress in dual-cure cements and its effect on interfacial integrity of bonded inlays. Journal of Dentistry, 2002, 30, 333-340.	1.7	99

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109	Mechanical properties of resin cements with different activation modes. Journal of Oral Rehabilitation, 2002, 29, 257-262.	1.3	187
110	In Vitro Wear Simulation Measurements of Composite versus Resin-Modified Glass Ionomer Luting Cements for All-Ceramic Restorations. Journal of Esthetic and Restorative Dentistry, 2002, 14, 368-376.	1.8	25
111	Contraction stress related to degree of conversion and reaction kinetics. Journal of Dental Research, 2002, 81, 114-8.	2.5	46
112	Influence of shade and storage time on the flexural strength, flexural modulus, and hardness of composites used for indirect restorations. Journal of Prosthetic Dentistry, 2001, 86, 289-296.	1.1	69
113	Influence of time and adhesive system on the extrusion shear strength between feldspathic porcelain and bovine dentin. Dental Materials, 2000, 16, 303-310.	1.6	40
114	Tensile bond strength of filled and unfilled adhesives to dentin. American Journal of Dentistry, 2000, 13, 73-6.	0.1	13
115	Pilot study on the early shear strength of porcelain-dentin bonding using dual-cure cements. Journal of Prosthetic Dentistry, 1999, 81, 285-289.	1.1	36
116	Evaluation of micro-tensile, shear and tensile tests determining the bond strength of three adhesive systems. Dental Materials, 1998, 14, 394-398.	1.6	121