Rafael YagÃ¼e Ballester

List of Publications by Year
in descending order

49 papers	1,727 citations	361413 20 h-index	276875 41 g-index
49 all docs	49 docs citations	49 times ranked	1641 citing authors

#	Article	IF	Citations
1	Factors involved in the development of polymerization shrinkage stress in resin-composites: A systematic review. Dental Materials, 2005, 21, 962-970.	3.5	535
2	Can Fiber Posts Increase Root Stresses and Reduce Fracture?. Journal of Dental Research, 2010, 89, 587-591.	5.2	132
3	Shear versus micro-shear bond strength test: A finite element stress analysis. Dental Materials, 2007, 23, 1086-1092.	3.5	121
4	Polymerization shrinkage: effects of constraint and filling technique in composite restorations. Dental Materials, 2004, 20, 236-243.	3.5	83
5	Zinc sulfate addition to glass-ionomer-based cements: influence on physical and antibacterial properties, zinc and fluoride release. Dental Materials, 2003, 19, 212-217.	3.5	76
6	Relationship between contraction stress and degree of conversion in restorative composites. Dental Materials, 2004, 20, 939-946.	3.5	74
7	Polymerization shrinkage: effects of boundary conditions and filling technique of resin composite restorations. Journal of Dentistry, 2004, 32, 459-470.	4.1	57
8	Sequential software processing of micro-XCT dental-images for 3D-FE analysis. Dental Materials, 2009, 25, e47-e55.	3.5	57
9	Composite shrinkage stress as a function of specimen dimensions and compliance of the testing system. Dental Materials, 2007, 23, 204-210.	3.5	48
10	Vertical Root Fracture in Upper Premolars with Endodontic Posts: Finite Element Analysis. Journal of Endodontics, 2009, 35, 117-120.	3.1	43
11	Residual stresses in Y-TZP crowns due to changes in the thermal contraction coefficient of veneers. Dental Materials, 2013, 29, 594-601.	3.5	40
12	Does Adhesive Thickness Affect Resin-dentin Bond Strength After Thermal/Load Cycling?. Operative Dentistry, 2009, 34, 58-64.	1.2	37
13	Pilot study on the early shear strength of porcelain-dentin bonding using dual-cure cements. Journal of Prosthetic Dentistry, 1999, 81, 285-289.	2.8	36
14	Elastic modulus of posts and the risk of root fracture. Dental Traumatology, 2009, 25, 394-398.	2.0	35
15	Polymerization stress of resin composites as a function of system compliance. Dental Materials, 2008, 24, 645-652.	3.5	33
16	Understanding Contradictory Data in Contraction Stress Tests. Journal of Dental Research, 2011, 90, 365-370.	5.2	31
17	Finite element analysis of bonded model Class I â€˜restorationsâ€™ after shrinkage. Dental Materials, 2012, 28, 123-132.	3.5	29
18	Clinical, biochemical and histological study of the effect of antimicrobial photodynamic therapy on oral mucositis induced by 5-fluorouracil in hamsters. Photodiagnosis and Photodynamic Therapy, 2015, 12, 298-309.	2.6	24

#	Article	IF	Citations
19	Flexural properties of resin composites: Influence of specimen dimensions and storage conditions. Dental Materials Journal, 2013, 32, 228-232.	1.8	23
20	A method for calculating the compliance of bonded-interfaces under shrinkage: Validation for Class I cavities. Dental Materials, 2014, 30, 936-944.	3.5	22
21	Influence of residual thermal stresses on the edge chipping resistance of PFM and veneered zirconia structures: Experimental and FEA study. Dental Materials, 2019, 35, 344-355.	3.5	20
22	How mechanical stresses modulate enamel demineralization in non-carious cervical lesions?. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 50-57.	3.1	14
23	Improvement of full-thickness rat skin wounds by photobiomodulation therapy (PBMT): A dosimetric study. Journal of Photochemistry and Photobiology B: Biology, 2020, 206, 111850.	3.8	11
24	Effect of three different attachment designs in the extrusive forces generated by thermoplastic aligners in the maxillary central incisor. Dental Press Journal of Orthodontics, 2020, 25, 46-53.	0.9	11
25	Morphological characterization of the tooth/adhesive interface. Brazilian Dental Journal, 2006, 17, 179-185.	1.1	10
26	Effect of the C-factor and Dentin Preparation Method in the Bond Strength of a Mild Self-etch Adhesive. Operative Dentistry, 2009, 34, 452-459.	1.2	10
27	Photoelastic Stress Analysis Surrounding Implant-Supported Prosthesis and Alveolar Ridge on Mandibular Overdentures. International Journal of Dentistry, 2010, 2010, 1-5.	1.5	10
28	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.	3.5	10
29	Exercise training, creatine supplementation, and bone health in ovariectomized rats. Osteoporosis International, 2015, 26, 1395-1404.	3.1	10
30	The effect of long-term storage on the microleakage of composite resin restorations: qualitative and quantitative evaluation. Pesquisa Odontologica Brasileira = Brazilian Oral Research, 2003, 17, 261-266.	0.3	8
31	Finite Element Analysis of Shear Versus Torsion Adhesive Strength Tests for Dental Resin Composites. Journal of Adhesion Science and Technology, 2009, 23, 1575-1589.	2.6	7
32	Comparative study of frictional forces generated by NiTi archwire deformation in different orthodontic brackets: In vitro evaluation. Dental Press Journal of Orthodontics, 2012, 17, 45-50.	0.9	7
33	A novel vibratory stimulationâ€based occlusal splint for alleviation of <scp>TMD</scp> painful symptoms: a pilot study. Journal of Oral Rehabilitation, 2013, 40, 179-184.	3.0	7
34	Can maxilla and mandible bone quality explain differences in orthodontic mini-implant failures?. Biomaterial Investigations in Dentistry, 2021, 8, 1-10.	1.8	7
35	Mechanical properties of nanofilled and microhybrid composites cured by different light polymerization modes. General Dentistry, 2013, 61, 30-3.	0.4	6
36	Effect of thermal cycling and filling technique on leakage of composite resin restorations. Journal of Applied Oral Science, 2004, 12, 307-311.	1.8	5

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37	The suitability of different FEA models for studying root fractures caused by wedge effect. Journal of Biomedical Materials Research - Part A, 2008, 84A, 442-446.	4.0	5
38	A method to investigate the shrinkage stress developed by resin-composites bonded to a single flat surface. Dental Materials, 2012, 28, e27-e34.	3.5	5
39	Does self-ligating brackets type influence the hysteresis, activation and deactivation forces of superelastic NiTi archwires?. Dental Press Journal of Orthodontics, 2013, 18, 81-5.	0.9	5
40	Delayed hygroscopic expansion of phosphate-bonded investments. Dental Materials, 1987, 3, 165-167.	3.5	4
41	A novel vibratory stimulation-based splint for chronic and untreatable masticatory myofascial pain: A case-series. Journal of Prosthodontic Research, 2013, 57, 62-66.	2.8	4
42	Biomechanical Evaluation of the Sheep Mandible as a Model for Studying Fixation Methods. International Journal of Morphology, 2018, 36, 926-930.	0.2	4
43	Expansion of high flow mixtures of gypsum-bonded investments in contact with absorbent liners. Dental Materials, 2005, 21, 573-579.	3.5	3
44	A comparison between the capacity of 2D and 3D finite element models in analyzing the stress distribution in shear and microshear bond strength tests. Journal of Research in Dentistry, 2013, 1, 41.	0.2	3
45	A new way of evaluating the biomechanics of the mandible with freedom in three axes in space: Technical note. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology, 2018, 30, 405-408.	0.3	2
46	An examination of two different approaches for the study of femoral neck fracture: Towards a more relevant rodent model. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 199-207.	1.8	1
47	Biomechanical comparison in vitro between 2.0-mm conventional and locking fixation systems of mandibles with freedom in the three-axes of the space. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology, 2022, 34, 260-266.	0.3	1
48	Comparative analysis of polymerization shrinkage of different resin composites. General Dentistry, 2015, 63, 41-5.	0.4	1
49	Comparation of three methods for measuring the Edge Bevel Radius of rectangular orthodontic wires: An in-vitro study. International Orthodontics, 2020, 18, 509-518.	1.9	0