Zrinka Tarle

List of Publications by Year
in descending order

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83 papers	1,884 citations	236925 25 h-index	302126 39 g-index
83 all docs	83 docs citations	83 times ranked	1488 citing authors

#	Article	IF	Citations
1	Influence of irradiation time on subsurface degree of conversion and microhardness of high-viscosity bulk-fill resin composites. Clinical Oral Investigations, 2015, 19, 831-840.	3.0	116
2	Composite conversion and temperature rise using a conventional, plasma arc, and an experimental blue LED curing unit. Journal of Oral Rehabilitation, 2002, 29, 662-667.	3.0	99
3	Pre-heating of high-viscosity bulk-fill resin composites: Effects on shrinkage force and monomer conversion. Journal of Dentistry, 2015, 43, 1358-1364.	4.1	89
4	Raman Spectroscopic Assessment of Degree of Conversion of Bulk-Fill Resin Composites â€“ Changes at 24 Hours Post Cure. Operative Dentistry, 2015, 40, E92-E101.	1.2	83
5	Monomer conversion and shrinkage force kinetics of low-viscosity bulk-fill resin composites. Acta Odontologica Scandinavica, 2015, 73, 474-480.	1.6	65
6	Comparison of Composite Curing Parameters: Effects of Light Source and Curing Mode on Conversion, Temperature Rise and Polymerization Shrinkage. Operative Dentistry, 2006, 31, 219-226.	1.2	59
7	Influence of light intensity from different curing units upon composite temperature rise. Journal of Oral Rehabilitation, 2005, 32, 362-367.	3.0	55
8	Effect of temperature on post-cure polymerization of bulk-fill composites. Journal of Dentistry, 2014, 42, 1255-1260.	4.1	55
9	Enamel and Dentin Microhardness and Chemical Composition After Experimental Light-activated Bleaching. Operative Dentistry, 2015, 40, E132-E141.	1.2	54
10	Pulsed blue laser curing of hybrid composite resins. Biomaterials, 1997, 18, 1349-1354.	11.4	48
11	Degree of conversion of experimental resin composites containing bioactive glass 45S5: the effect of post-cure heating. Scientific Reports, 2019, 9, 17245.	3.3	47
12	Reinforcement of experimental composite materials based on amorphous calcium phosphate with inert fillers. Dental Materials, 2014, 30, 1052-1060.	3.5	45
13	Criteria for the Replacement of Restorations: Academy of Operative Dentistry European Section. Operative Dentistry, 2016, 41, S48-S57.	1.2	45
14	Cytotoxicity of Composite Materials Polymerized with LED Curing Units. Operative Dentistry, 2008, 33, 23-30.	1.2	40
15	Degree of conversion and microhardness of dental composite resin materials. Journal of Molecular Structure, 2013, 1044, 299-302.	3.6	37
16	Mechanical properties of experimental composites containing bioactive glass after artificial aging in water and ethanol. Clinical Oral Investigations, 2019, 23, 2733-2741.	3.0	36
17	Curing potential of experimental resin composites filled with bioactive glass: A comparison between Bis-EMA and UDMA based resin systems. Dental Materials, 2020, 36, 711-723.	3.5	35
18	Genotoxic potential of dental bulk-fill resin composites. Dental Materials, 2017, 33, 788-795.	3.5	34

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19	Polymerization kinetics of experimental bioactive composites containing bioactive glass. Journal of Dentistry, 2018, 76, 83-88.	4.1	32
20	Effect of silanized nanosilica addition on remineralizing and mechanical properties of experimental composite materials with amorphous calcium phosphate. Clinical Oral Investigations, 2014, 18, 783-792.	3.0	31
21	Polymerization of composites using pulsed laser. European Journal of Oral Sciences, 1995, 103, 394-398.	1.5	29
22	Temperature rise during experimental light-activated bleaching. Lasers in Medical Science, 2015, 30, 567-576.	2.1	29
23	The effect of rapid high-intensity light-curing on micromechanical properties of bulk-fill and conventional resin composites. Scientific Reports, 2020, 10, 10560.	3.3	28
24	Effect of rapid high-intensity light-curing on polymerization shrinkage properties of conventional and bulk-fill composites. Journal of Dentistry, 2020, 101, 103448.	4.1	27
25	Optical Effects of Experimental Light-Activated Bleaching Procedures. Photomedicine and Laser Surgery, 2014, 32, 160-167.	2.0	26
26	Long Term Degree of Conversion of two Bulk-Fill Composites. Acta Stomatologica Croatica, 2016, 50, 292-300.	1.0	26
27	Clinical and patient reported outcomes of bleaching effectiveness. Acta Odontologica Scandinavica, 2018, 76, 30-38.	1.6	26
28	Curing potential of experimental resin composites with systematically varying amount of bioactive glass: Degree of conversion, light transmittance and depth of cure. Journal of Dentistry, 2018, 75, 113-120.	4.1	26
29	The effects of extended curing time and radiant energy on microhardness and temperature rise of conventional and bulk-fill resin composites. Clinical Oral Investigations, 2019, 23, 3777-3788.	3.0	26
30	Long-term water sorption and solubility of experimental bioactive composites based on amorphous calcium phosphate and bioactive glass. Dental Materials Journal, 2019, 38, 555-564.	1.8	25
31	A New Customized Bioactive Glass Filler to Functionalize Resin Composites: Acid-Neutralizing Capability, Degree of Conversion, and Apatite Precipitation. Journal of Clinical Medicine, 2020, 9, 1173.	2.4	25
32	Ozone Application in Dentistry. Archives of Medical Research, 2009, 40, 136-137.	3.3	24
33	Digital interferometry for measuring of the resin composite thickness variation during blue light polymerization. Optics Communications, 2004, 231, 45-51.	2.1	22
34	Photopolymerization of composite resins with plasma light. Journal of Oral Rehabilitation, 2002, 29, 782-786.	3.0	21
35	MICROHARDNESS OF BULK-FILL COMPOSITE MATERIALS. Acta Clinica Croatica, 2016, 55, 607-613.	0.2	20
36	Light transmittance and polymerization kinetics of amorphous calcium phosphate composites. Clinical Oral Investigations, 2017, 21, 1173-1182.	3.0	19

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37	Aging-Dependent Changes in Mechanical Properties of the New Generation of Bulk-Fill Composites. Materials, 2022, 15, 902.	2.9	19
38	Composite Photopolymerization with Diode Laser. Operative Dentistry, 2007, 32, 279-284.	1.2	17
39	Conversion and temperature rise of remineralizing composites reinforced with inert fillers. Journal of Dentistry, 2016, 48, 26-33.	4.1	17
40	Polymerization shrinkage behaviour of resin composites functionalized with unsilanized bioactive glass fillers. Scientific Reports, 2020, 10, 15237.	3.3	17
41	Incorporation of Copper-Doped Mesoporous Bioactive Glass Nanospheres in Experimental Dental Composites: Chemical and Mechanical Characterization. Materials, 2021, 14, 2611.	2.9	17
42	Ion release and hydroxyapatite precipitation of resin composites functionalized with two types of bioactive glass. Journal of Dentistry, 2022, 118, 103950.	4.1	17
43	Remineralizing amorphous calcium phosphate based composite resins: the influence of inert fillers on monomer conversion, polymerization shrinkage, and microhardness. Croatian Medical Journal, 2016, 57, 465-473.	0.7	15
44	Rapid 3 s Curing: What Happens in Deep Layers of New Bulk-Fill Composites?. Materials, 2021, 14, 515.	2.9	15
45	Impedance changes during setting of amorphous calcium phosphate composites. Dental Materials, 2016, 32, 1312-1321.	3.5	14
46	Risk factors for bruxism among Croatian navy employees. Journal of Oral Rehabilitation, 2012, 39, 668-676.	3.0	13
47	Anti-demineralizing protective effects on enamel identified in experimental and commercial restorative materials with functional fillers. Scientific Reports, 2021, 11, 11806.	3.3	13
48	Fluoride-Releasing Restorative Materials: The Effect of a Resinous Coat on Ion Release. Acta Stomatologica Croatica, 2020, 54, 371-381.	1.0	13
49	Experimental Bioactive Glass-Containing Composites and Commercial Restorative Materials: Anti-Demineralizing Protection of Dentin. Biomedicines, 2021, 9, 1616.	3.2	13
50	Antibiotic prescription in emergency dental service in Zagreb, Croatia â€“ a retrospective cohort study. International Dental Journal, 2019, 69, 273-280.	2.6	12
51	Rapid high-intensity light-curing of bulk-fill composites: A quantitative analysis of marginal integrity. Journal of Dentistry, 2021, 111, 103708.	4.1	12
52	Dentin Bond Strength of Experimental Composites Containing Bioactive Glass: Changes During Aging for up to 1 Year. Journal of Adhesive Dentistry, 2018, 20, 325-334.	0.5	12
53	Efficacy of ozone on microorganisms in the tooth root canal. Collegium Antropologicum, 2013, 37, 101-7.	0.2	12
54	Optical Emission Spectroscopy of an Atmospheric Pressure Plasma Jet during Tooth Bleaching Gel Treatment. Applied Spectroscopy, 2015, 69, 1327-1333.	2.2	11

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55	Wavelength-dependent light transmittance in resin composites: practical implications for curing units with different emission spectra. Clinical Oral Investigations, 2019, 23, 4399-4409.	3.0	11
56	Polymerization kinetics of experimental resin composites functionalized with conventional (45S5) and a customized low-sodium fluoride-containing bioactive glass. Scientific Reports, 2021, 11, 21225.	3.3	8
57	Genotoxic effect of two bleaching agents on oral mucosa. Cancer Genomics and Proteomics, 2013, 10, 209-15.	2.0	8
58	Long-Term Assessment of Contemporary Ion-Releasing Restorative Dental Materials. Materials, 2022, 15, 4042.	2.9	8
59	Impedance as a measure of setting reaction in glass ionomer cements. Journal of Non-Crystalline Solids, 2014, 389, 93-103.	3.1	7
60	Toxicity of Pre-heated Composites Polymerized Directly and Through CAD/CAM Overlay. Acta Stomatologica Croatica, 2018, 52, 203-217.	1.0	7
61	Influence of curing mode intensities on cell culture cytotoxicity/genotoxicity. American Journal of Dentistry, 2009, 22, 43-8.	0.1	7
62	Effect of adhesive coating on calcium, phosphate, and fluoride release from experimental and commercial remineralizing dental restorative materials. Scientific Reports, 2022, 12, .	3.3	7
63	Atmospheric Pressure Plasma Jet as an Accelerator of Tooth Bleaching. Acta Stomatologica Croatica, 2014, 48, 268-278.	1.0	6
64	Visualization of Marginal Integrity of Resin-Enamel Interface by Holographic Interferometry. Operative Dentistry, 2007, 32, 266-272.	1.2	5
65	New Insights into the Setting Processes of Glass Ionomer Cements from Analysis of Dielectric Properties. Journal of the American Ceramic Society, 2015, 98, 3869-3876.	3.8	5
66	Effects of bleaching agent on physical and aesthetic properties of restorative materials. Dental Materials Journal, 2016, 35, 788-795.	1.8	5
67	The effect of excitation laser power in Raman spectroscopic measurements of the degree of conversion of resin composites. Dental Materials, 2019, 35, 1227-1237.	3.5	5
68	Measurement of linear polymerization contraction using digital laser interferometry. Operative Dentistry, 2005, 30, 346-52.	1.2	5
69	Effect of Conventional Adhesive Application or Co-Curing Technique on Dentin Bond Strength. Materials, 2021, 14, 7664.	2.9	5
70	Real-time Temperature Monitoring During Light-Curing of Experimental Composites. Acta Stomatologica Croatica, 2018, 52, 87-96.	1.0	4
71	In vitro assessment of human dentin wear resulting from toothbrushing. Journal of the California Dental Association, 2010, 38, 109-13.	0.1	4
72	Realâ€time curing characteristics of experimental resin composites containing amorphous calcium phosphate. European Journal of Oral Sciences, 2018, 126, 426-432.	1.5	3

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73	Effect of Quality of Dental Restorations and Time Elapsed Since Placement on Biofilm Retention. Acta Stomatologica Croatica, 2013, 47, 322-328.	1.0	3
74	Accounting for measurement reliability to improve the quality of inference in dental microhardness research: a worked example. Clinical Oral Investigations, 2016, 20, 1143-1149.	3.0	2
75	Degree of Conversion. , 2018, , 63-85.		2
76	In Vitro Biocompatibility of Preheated Giomer and MicrofilledHybrid Composite. Acta Stomatologica Croatica, 2018, 52, 286-297.	1.0	2
77	Esthetic reconstruction of teeth in patient with dentinogenesis imperfecta--a case report. Collegium Antropologicum, 2006, 30, 231-4.	0.2	1
78	The prevalence of proximal fractures of dental crowns with amalgam fillings. Collegium Antropologicum, 2009, 33, 449-53.	0.2	1
79	Measurement of the composite resin thickness variations using digital interferometry. , 2003, 5144, 343.		0
80	Evaluation of the slumping property of dental composites during modeling. Journal of Dental Sciences, 2012, 7, 330-335.	2.5	0
81	Optical approach in characterizing dental biomaterials. , 2013, , .		0
82	Antimicrobial Effectiveness of Intracanal Ozone Treatment. Acta Stomatologica Croatica, 2013, 47, 127-136.	1.0	0
83	Real-Time Local Experimental Monitoring of the Bleaching Process. Photomedicine and Laser Surgery, 2015, 33, 230-235.	2.0	0