Ulrich Lohbauer

List of Publications by Year
in descending order

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83	3,910	117625	123424
papers	citations	34 h-index	61 g-index

87	87	87	2712
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chairside CAD/CAM materials. Part 1: Measurement of elastic constants and microstructural characterization. Dental Materials, 2017, 33, 84-98.	3.5	287
2	Bonding performance of universal adhesives in different etching modes. Journal of Dentistry, 2014, 42, 800-807.	4.1	234
3	Chairside CAD/CAM materials. Part 2: Flexural strength testing. Dental Materials, 2017, 33, 99-109.	3.5	227
4	Dental ceramics: a review of new materials and processing methods. Brazilian Oral Research, 2017, 31, e58.	1.4	162
5	Mechanical fatigue degradation of ceramics versus resin composites for dental restorations. Dental Materials, 2014, 30, 424-432.	3.5	150
6	ADM guidanceâ€"Ceramics: guidance to the use of fractography in failure analysis of brittle materials. Dental Materials, 2017, 33, 599-620.	3.5	133
7	Factors Involved in Mechanical Fatigue Degradation of Dental Resin Composites. Journal of Dental Research, 2013, 92, 584-591.	5.2	114
8	Fracture Rates and Lifetime Estimations of CAD/CAM All-ceramic Restorations. Journal of Dental Research, 2016, 95, 67-73.	5.2	113
9	ADM guidance-ceramics: Fatigue principles and testing. Dental Materials, 2017, 33, 1192-1204.	3.5	111
10	The effect of different light-curing units on fatigue behavior and degree of conversion of a resin composite. Dental Materials, 2005, 21, 608-615.	3.5	105
11	Antibacterial properties of metal and metalloid ions in chronic periodontitis and peri-implantitis therapy. Acta Biomaterialia, 2014, 10, 3795-3810.	8.3	94
12	Influence of surface roughness on mechanical strength of resin composite versus glass ceramic materials. Dental Materials, 2008, 24, 250-256.	3.5	85
13	Lifetime prediction of CAD/CAM dental ceramics. Journal of Biomedical Materials Research Part B, 2002, 63, 780-785.	3.1	84
14	Flexural fatigue behavior of resin composite dental restoratives. Dental Materials, 2003, 19, 435-440.	3.5	84
15	Strength and fatigue performance versus filler fraction of different types of direct dental restoratives. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 76B, 114-120.	3.4	81
16	Hydroxylation of dental zirconia surfaces: Characterization and bonding potential. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 87B, 461-467.	3.4	81
17	Correlation of in vitro fatigue data and in vivo clinical performance of a glassceramic material. Dental Materials, 2008, 24, 39-44.	3.5	80
18	The effect of resin composite pre-heating on monomer conversion and polymerization shrinkage. Dental Materials, 2009, 25, 514-519.	3.5	79

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19	Antagonist wear of monolithic zirconia crowns after 2Âyears. Clinical Oral Investigations, 2017, 21, 1165-1172.	3.0	77
20	ADM guidanceâ€"Ceramics: Fracture toughness testing and method selection. Dental Materials, 2017, 33, 575-584.	3.5	76
21	Thermal-induced residual stresses affect the lifetime of zirconiaâ€"veneer crowns. Dental Materials, 2013, 29, 181-190.	3.5	75
22	Chairside CAD/CAM materials. Part 3: Cyclic fatigue parameters and lifetime predictions. Dental Materials, 2018, 34, 910-921.	3.5	67
23	Practical and theoretical considerations on the fracture toughness testing of dental restorative materials. Dental Materials, 2018, 34, 97-119.	3.5	63
24	A Photoelastic Assessment of Residual Stresses in Zirconia-Veneer Crowns. Journal of Dental Research, 2012, 91, 316-320.	5.2	60
25	Strengthening of dental adhesives via particle reinforcement. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 100-108.	3.1	60
26	Repair Bond Strength of Aged Resin Composite after Different Surface and Bonding Treatments. Materials, 2016, 9, 547.	2.9	54
27	Grasping the Lithium hype: Insights into modern dental Lithium Silicate glass-ceramics. Dental Materials, 2022, 38, 318-332.	3.5	54
28	Fracture toughness testing of biomedical ceramic-based materials using beams, plates and discs. Journal of the European Ceramic Society, 2018, 38, 5533-5544.	5.7	51
29	Fatigue behavior of Y-TZP ceramic after surface treatments. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 57, 149-156.	3.1	43
30	Crack-healing during two-stage crystallization of biomedical lithium (di)silicate glass-ceramics. Dental Materials, 2019, 35, 1130-1145.	3.5	43
31	Reactive fibre reinforced glass ionomer cements. Biomaterials, 2003, 24, 2901-2907.	11.4	42
32	Resin tags do not contribute to dentin adhesion in self-etching adhesives. Journal of Adhesive Dentistry, 2008, 10, 97-103.	0.5	41
33	Time-dependent strength and fatigue resistance of dental direct restorative materials. Journal of Materials Science: Materials in Medicine, 2003, 14, 1047-1053.	3.6	40
34	Fracture anisotropy in texturized lithium disilicate glass-ceramics. Journal of Non-Crystalline Solids, 2018, 481, 457-469.	3.1	39
35	ADM guidance-Ceramics: all-ceramic multilayer interfaces in dentistry. Dental Materials, 2017, 33, 585-598.	3.5	37
36	Are linear elastic material properties relevant predictors of the cyclic fatigue resistance of dental resin composites?. Dental Materials, 2014, 30, 381-391.	3.5	36

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37	Sliding contact wear and subsurface damage of CAD/CAM materials against zirconia. Dental Materials, 2020, 36, 387-401.	3.5	35
38	Tailoring of physical properties in highly filled experimental nanohybrid resin composites. Dental Materials, 2011, 27, 664-669.	3.5	34
39	Thermal-induced residual stresses affect the fractographic patterns of zirconia-veneer dental prostheses. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 21, 167-177.	3.1	32
40	Fracture toughness and cyclic fatigue resistance of resin composites with different filler size distributions. Dental Materials, 2014, 30, 742-751.	3.5	30
41	Self-adhesive resin cements: pH-neutralization, hydrophilicity, and hygroscopic expansion stress. Clinical Oral Investigations, 2017, 21, 1735-1741.	3.0	28
42	Phase characterization of lithium silicate biomedical glass-ceramics produced by two-stage crystallization. Journal of Non-Crystalline Solids, 2019, 510, 42-50.	3.1	27
43	Viscosity and stickiness of dental resin composites at elevated temperatures. Dental Materials, 2021, 37, 413-422.	3.5	26
44	Characterization of residual stresses in zirconia veneered bilayers assessed via sharp and blunt indentation. Dental Materials, 2015, 31, 948-957.	3.5	25
45	Calcium release and pH-characteristics of calcium hydroxide plus points. International Endodontic Journal, 2005, 38, 683-689.	5.0	24
46	Fracture toughness mode mixity at the connectors of monolithic 3Y-TZP and LS2 dental bridge constructs. Journal of the European Ceramic Society, 2015, 35, 3701-3711.	5.7	22
47	Rising R-curves in particulate/fiber-reinforced resin composite layered systems. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103537.	3.1	20
48	Concurrent kinetics of crystallization and toughening in multicomponent biomedical SiO2-Li2O-P2O5-ZrO2 glass-ceramics. Journal of Non-Crystalline Solids, 2021, 554, 120607.	3.1	20
49	Mechanical degradation of contemporary CAD/CAM resin composite materials after water ageing. Dental Materials, 2021, 37, 1156-1167.	3.5	19
50	Removal of Radioactively Marked Calcium Hydroxide fromÂthe Root Canal: Influence of Volume of Irrigation andÂActivation. Journal of Endodontics, 2016, 42, 637-640.	3.1	18
51	Factors influencing development of residual stresses during crystallization firing in a novel lithium silicate glass-ceramic. Dental Materials, 2019, 35, 871-882.	3.5	18
52	Fractography of clinical failures of indirect resin composite endocrown and overlay restorations. Dental Materials, 2021, 37, e341-e359.	3.5	16
53	Nucleation mechanisms in a SiO2-Li2O-P2O5-ZrO2 biomedical glass-ceramic: Insights on crystallisation, residual glasses and Zr4+ structural environment. Journal of the European Ceramic Society, 2022, 42, 1762-1775.	5.7	16
54	In vivo shell-like fractures of veneered-ZrO2 fixed dental prostheses. Case Studies in Engineering Failure Analysis, 2014, 2, 91-99.	1.2	15

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55	Low-temperature degradation increases the cyclic fatigue resistance of 3Y-TZP in bending. Dental Materials, 2020, 36, 1086-1095.	3.5	15
56	Biaxial flexural strength of zirconia: A round robin test with 12 laboratories. Dental Materials, 2021, 37, 284-295.	3.5	15
57	Effect of sintering parameters on phase evolution and strength of dental lithium silicate glass-ceramics. Dental Materials, 2019, 35, 1360-1369.	3.5	14
58	Spatial distribution of residual stresses in glass-ZrO 2 sphero-cylindrical bilayers. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 535-546.	3.1	13
59	Resistance curves of short-fiber reinforced methacrylate-based biomedical composites. Engineering Fracture Mechanics, 2018, 190, 146-158.	4.3	13
60	Mixed-mode fracture toughness of texturized LS2 glass-ceramics using the three-point bending with eccentric notch test. Dental Materials, 2017, 33, 1473-1477.	3.5	12
61	Crack growth rates in lithium disilicates with bulk (mis)alignment of the Li2Si2O5 phase in the [001] direction. Journal of Non-Crystalline Solids, 2020, 532, 119877.	3.1	11
62	R-curve behavior of a short-fiber reinforced resin composite after water storage. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103674.	3.1	11
63	Osseointegration of Chemically Modified Titanium Surfaces: An in Vivo Study. Advanced Engineering Materials, 2008, 10, B61.	3.5	10
64	In vitro lifetime of zirconium dioxideâ€based crowns veneered using Rapid Layer Technology. European Journal of Oral Sciences, 2019, 127, 179-186.	1.5	10
65	The breakdown of the Weibull behavior in dental zirconias. Journal of the American Ceramic Society, 2021, 104, 4819-4828.	3.8	10
66	Descriptions of crack growth behaviors in glassâ€“ZrO2 bilayers under thermal residual stresses. Dental Materials, 2016, 32, 1165-1176.	3.5	9
67	Evaluation of wear behavior of dental restorative materials against zirconia in vitro. Dental Materials, 2022, 38, 778-788.	3.5	9
68	Toughening by revitrification of Li2SiO3 crystals in ObsidianÂ® dental glass-ceramic. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 124, 104739.	3.1	8
69	ADM research guidance papers. Dental Materials, 2017, 33, 967.	3.5	7
70	Fracture Toughness Testing of Dental Restoratives: a Critical Evaluation. Current Oral Health Reports, 2018, 5, 163-168.	1.6	7
71	Crack growth behavior of a biomedical polymer-ceramic interpenetrating scaffolds composite in the subcritical regimen. Engineering Fracture Mechanics, 2020, 231, 107014.	4.3	7
72	The Influence of Particle Size on the Mechanical Properties of Dental Glass Ionomer Cements. Advanced Engineering Materials, 2010, 12, B684.	3.5	6

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73	Resistance-curve envelopes for dental lithium disilicate glass-ceramics. Journal of the European Ceramic Society, 2022, 42, 2516-2522.	5.7	6
74	Fracture toughness of 3Y-TZP ceramic measured by the Chevron-Notch Beam method: A round-robin study. Dental Materials, 2022, 38, 1128-1139.	3.5	6
75	Contemporary CAD/CAM Materials in Dentistry. Current Oral Health Reports, 2019, 6, 250-256.	1.6	2
76	Fractographic analysis of lithium silicate crown failures during sintering. SAGE Open Medical Case Reports, 2019, 7, 2050313X1983896.	0.3	2
77	Characterization of Heat-Polymerized Monomer Formulations for Dental Infiltrated Ceramic Networks. Applied Sciences (Switzerland), 2021, 11, 7370.	2.5	2
78	Fracture toughness of dental incremental composite-composite interfaces at elevated temperatures. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 122, 104655.	3.1	2
79	Coulometric titration of water content and uptake in CAD/CAM chairside composites. Dental Materials, 2022, 38, 789-796.	3.5	2
80	A split-Chevron-Notched-Beam sandwich specimen for fracture toughness testing of bonded interfaces. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 131, 105236.	3.1	2
81	Chemistry and Microstructure. , 2022, , 3-37.		2
82	Dimensional changes of CAD/CAM polymer crowns after water aging â€“ An in vitro experiment. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 128, 105109.	3.1	1
83	CerÃ¢mica dentÃ¡ria: uma revisÃ£o de novos materiais e mÃ©todos de processamento.. Brazilian Journal of Implantology and Health Sciences, 2020, 2, 50-72.	0.1	0