

Bart Van Meerbeek

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

7,151
citations

61857

43
h-index

62479

80
g-index

130
all docs

130
docs citations

130
times ranked

4876
citing authors

#	ARTICLE	IF	CITATIONS
1	Four-year clinical evaluation of CAD/CAM indirect resin composite premolar crowns using 3D digital data: Discovering the causes of debonding. <i>Journal of Prosthodontic Research</i> , 2022, 66, 402-408.	1.1	14
2	Does the bonding effectiveness of a fiber post/resin composite benefit from mechanical or chemical treatment? Seven methods for saliva-contaminated surfaces. <i>Journal of Prosthodontic Research</i> , 2022, 66, 288-295.	1.1	5
3	Development of dental inspection method: Nondestructive evaluation of an adhesive interface by ACTIVE acoustic emission. <i>Journal of Prosthodontic Research</i> , 2022, 66, 236-242.	1.1	2
4	Bisphenol A release from short-term degraded resin-based dental materials. <i>Journal of Dentistry</i> , 2022, 116, 103894.	1.7	8
5	Effect of tooth temperature on the dentin bonding durability of a self-curing adhesives: The discrepancy between the laboratory setting and inside the mouth. <i>Dental Materials Journal</i> , 2022, 41, 317-322.	0.8	2
6	Dentin conditioned with a metal salt-based conditioner. <i>Dental Materials</i> , 2022, 38, 554-567.	1.6	3
7	Novel composite cement containing the anti-microbial compound CPC-Montmorillonite. <i>Dental Materials</i> , 2022, 38, 33-43.	1.6	7
8	Mechanical propertiesâ€“translucencyâ€“microstructure relationships in commercial monolayer and multilayer monolithic zirconia ceramics. <i>Dental Materials</i> , 2022, 38, 797-810.	1.6	27
9	Multiparameter evaluation of acrylamide HEMA alternative monomers in 2-step adhesives. <i>Dental Materials</i> , 2021, 37, 30-47.	1.6	16
10	Effect of conditioning and 1â€“year aging on the bond strength and interfacial morphology of glass-ionomer cement bonded to dentin. <i>Dental Materials</i> , 2021, 37, 106-112.	1.6	15
11	Impact of sandblasting on the flexural strength of highly translucent zirconia. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 115, 104268.	1.5	39
12	Combination of a silane coupling agent and resin primer reinforces bonding effectiveness to a CAD/CAM indirect resin composite block. <i>Dental Materials Journal</i> , 2021, 40, 1445-1452.	0.8	6
13	Initial curing characteristics of composite cements under ceramic restorations. <i>Journal of Prosthodontic Research</i> , 2021, 65, 39-45.	1.1	13
14	Development of dental inspection method: nondestructive evaluation of a dentinâ€“adhesive interface by acoustic emission. <i>Journal of Prosthodontic Research</i> , 2021, 65, 438-442.	1.1	3
15	Do resin core build-ups obtain the benefits of higher bonding ability from direct or indirect technique?. <i>Journal of Prosthodontic Research</i> , 2021, 65, 565-572.	1.1	2
16	Antibacterial Effect of Amino Acidâ€“Silver Complex Loaded Montmorillonite Incorporated in Dental Acrylic Resin. <i>Materials</i> , 2021, 14, 1442.	1.3	4
17	Laser surface texturing of zirconia-based ceramics for dental applications: A review. <i>Materials Science and Engineering C</i> , 2021, 123, 112034.	3.8	76
18	Optimizing glass-ceramic bonding incorporating new silane technology in an experimental universal adhesive formulation. <i>Dental Materials</i> , 2021, 37, 894-904.	1.6	9

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19	Bisphenol A as degradation product of monomers used in resin-based dental materials. <i>Dental Materials</i> , 2021, 37, 1020-1029.	1.6	23
20	Additively Manufactured Zirconia for Dental Applications. <i>Materials</i> , 2021, 14, 3694.	1.3	45
21	Back to the multi-step adhesive system: A next-generation two-step system with hydrophobic bonding agent improves bonding effectiveness. <i>Dental Materials Journal</i> , 2021, 40, 928-933.	0.8	9
22	Experimental resin-modified calcium-silicate cement containing N-(2-hydroxyethyl) acrylamide monomer for pulp tissue engineering. <i>Materials Science and Engineering C</i> , 2021, 126, 112105.	3.8	2
23	Additive manufacturing of zirconia ceramics by material jetting. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5292-5306.	2.8	35
24	Alumina toughened zirconia reinforced with equiaxed and elongated lanthanum hexa-aluminate precipitates. <i>Journal of the European Ceramic Society</i> , 2021, 41, 247-255.	2.8	7
25	Long-term elution of bisphenol A from dental composites. <i>Dental Materials</i> , 2021, 37, 1561-1568.	1.6	12
26	Status of decontamination methods after using dentin adhesion inhibitors on indirect restorations: An integrative review of 19 publications. <i>Japanese Dental Science Review</i> , 2021, 57, 147-153.	2.0	7
27	Secondary caries: prevalence, characteristics, and approach. <i>Clinical Oral Investigations</i> , 2020, 24, 683-691.	1.4	94
28	Quick bonding using a universal adhesive. <i>Clinical Oral Investigations</i> , 2020, 24, 2837-2851.	1.4	29
29	The effect of water spray on the release of composite nano-dust. <i>Clinical Oral Investigations</i> , 2020, 24, 2403-2414.	1.4	12
30	Cytotoxic and genotoxic potential of respirable fraction of composite dust on human bronchial cells. <i>Dental Materials</i> , 2020, 36, 270-283.	1.6	13
31	First Report of Filamentous Phages Isolated from Tunisian Orchards to Control <i>Erwinia amylovora</i> . <i>Microorganisms</i> , 2020, 8, 1762.	1.6	15
32	Reliability of an injection-moulded two-piece zirconia implant with PEKK abutment after long-term thermo-mechanical loading. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103967.	1.5	9
33	Filtration efficiency of surgical and FFP3 masks against composite dust. <i>European Journal of Oral Sciences</i> , 2020, 128, 233-240.	0.7	11
34	Silane-coupling effect of a silane-containing self-adhesive composite cement. <i>Dental Materials</i> , 2020, 36, 914-926.	1.6	26
35	Mechanical properties, aging stability and translucency of speed-sintered zirconia for chairside restorations. <i>Dental Materials</i> , 2020, 36, 959-972.	1.6	66
36	Development of self-adhesive pulp-capping agents containing a novel hydrophilic and highly polymerizable acrylamide monomer. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5320-5329.	2.9	6

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37	Zinc-Calcium-Fluoride Bioglass-Based Innovative Multifunctional Dental Adhesive with Thick Adhesive Resin Film Thickness. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30120-30135.	4.0	18
38	Cytotoxicity and Bioactivity of Dental Pulp-Capping Agents towards Human Tooth-Pulp Cells: A Systematic Review of In-Vitro Studies and Meta-Analysis of Randomized and Controlled Clinical Trials. <i>Materials</i> , 2020, 13, 2670.	1.3	46
39	Preclinical effectiveness of an experimental tricalcium silicate cement on pulpal repair. <i>Materials Science and Engineering C</i> , 2020, 116, 111167.	3.8	10
40	Monomer release from direct and indirect adhesive restorations: A comparative in vitro study. <i>Dental Materials</i> , 2020, 36, 1275-1281.	1.6	18
41	Injectable phosphopullulan-functionalized calcium-silicate cement for pulp-tissue engineering: An in-vivo and ex-vivo study. <i>Dental Materials</i> , 2020, 36, 512-526.	1.6	17
42	Importance of tetragonal phase in high-translucent partially stabilized zirconia for dental restorations. <i>Dental Materials</i> , 2020, 36, 491-500.	1.6	52
43	From Buonocore's Pioneering Acid-Etch Technique to Self-Adhering Restoratives. A Status Perspective of Rapidly Advancing Dental Adhesive Technology. <i>Journal of Adhesive Dentistry</i> , 2020, 22, 7-34.	0.3	125
44	MDP is effective for removing residual polycarboxylate temporary cement as an adhesion inhibitor. <i>Dental Materials Journal</i> , 2020, 39, 1087-1095.	0.8	13
45	Atomic level observation and structural analysis of phosphoric-acid ester interaction at dentin. <i>Acta Biomaterialia</i> , 2019, 97, 544-556.	4.1	29
46	Bonding to enamel using alternative Enamel Conditioner/etchants. <i>Dental Materials</i> , 2019, 35, 1415-1429.	1.6	19
47	Bioactivity potential of Portland cement in regenerative endodontic procedures: From clinic to lab. <i>Dental Materials</i> , 2019, 35, 1342-1350.	1.6	27
48	Rechargeable anti-microbial adhesive formulation containing cetylpyridinium chloride montmorillonite. <i>Acta Biomaterialia</i> , 2019, 100, 388-397.	4.1	31
49	Long-term elution of monomers from resin-based dental composites. <i>Dental Materials</i> , 2019, 35, 477-485.	1.6	59
50	Survival of human dental pulp cells after 4-week culture in human tooth model. <i>Journal of Dentistry</i> , 2019, 86, 33-40.	1.7	15
51	Trade-off between fracture resistance and translucency of zirconia and lithium-disilicate glass ceramics for monolithic restorations. <i>Acta Biomaterialia</i> , 2019, 91, 24-34.	4.1	138
52	High-translucent yttria-stabilized zirconia ceramics are wear-resistant and antagonist-friendly. <i>Dental Materials</i> , 2019, 35, 1776-1790.	1.6	61
53	Ultrastructure and bonding properties of tribochemical silica-coated zirconia. <i>Dental Materials Journal</i> , 2019, 38, 107-113.	0.8	24
54	Do Universal Adhesives Benefit from an Extra Bonding Layer?. <i>Journal of Adhesive Dentistry</i> , 2019, 21, 117-132.	0.3	24

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55	Saturation reduces in-vitro leakage of monomers from composites. <i>Dental Materials</i> , 2018, 34, 579-586.	1.6	14
56	Crystallographic and morphological analysis of sandblasted highly translucent dental zirconia. <i>Dental Materials</i> , 2018, 34, 508-518.	1.6	112
57	A novel high sensitivity UPLC-MS/MS method for the evaluation of bisphenol A leaching from dental materials. <i>Scientific Reports</i> , 2018, 8, 6981.	1.6	31
58	Chemical interaction of glycerophosphate dimethacrylate (GPDM) with hydroxyapatite and dentin. <i>Dental Materials</i> , 2018, 34, 1072-1081.	1.6	50
59	Polymerization efficiency affects interfacial fracture toughness of adhesives. <i>Dental Materials</i> , 2018, 34, 684-692.	1.6	5
60	Freshly-mixed and setting calcium-silicate cements stimulate human dental pulp cells. <i>Dental Materials</i> , 2018, 34, 797-808.	1.6	40
61	Light irradiance through novel CAD/CAM block materials and degree of conversion of composite cements. <i>Dental Materials</i> , 2018, 34, 296-305.	1.6	31
62	Temporal variability of global DNA methylation and hydroxymethylation in buccal cells of healthy adults: Association with air pollution. <i>Environment International</i> , 2018, 111, 301-308.	4.8	24
63	Effect of non-thermal atmospheric plasma on the dentin surface topography and composition and on the bond strength of a universal adhesive. <i>European Journal of Oral Sciences</i> , 2018, 126, 53-65.	0.7	16
64	Do collagen cross-linkers improve dentin's bonding receptiveness?. <i>Dental Materials</i> , 2018, 34, 1679-1689.	1.6	23
65	Experimental tricalcium silicate cement induces reparative dentinogenesis. <i>Dental Materials</i> , 2018, 34, 1410-1423.	1.6	25
66	In-vitro transdental diffusion of monomers from adhesives. <i>Journal of Dentistry</i> , 2018, 75, 91-97.	1.7	31
67	Modified tricalcium silicate cement formulations with added zirconium oxide. <i>Clinical Oral Investigations</i> , 2017, 21, 895-905.	1.4	30
68	Curing characteristics of flowable and sculptable bulk-fill composites. <i>Clinical Oral Investigations</i> , 2017, 21, 1201-1212.	1.4	72
69	Strain development in bulk-filled cavities of different depths characterized using a non-destructive acoustic emission approach. <i>Dental Materials</i> , 2017, 33, e165-e177.	1.6	15
70	Simultaneous analysis of bisphenol A based compounds and other monomers leaching from resin-based dental materials by UHPLC-MS/MS. <i>Journal of Separation Science</i> , 2017, 40, 1063-1075.	1.3	25
71	Sandblasting may damage the surface of composite CAD/CAM blocks. <i>Dental Materials</i> , 2017, 33, e124-e135.	1.6	93
72	Residual compressive surface stress increases the bending strength of dental zirconia. <i>Dental Materials</i> , 2017, 33, e147-e154.	1.6	44

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73	How effectively do hydraulic calcium-silicate cements re-mineralize demineralized dentin. <i>Dental Materials</i> , 2017, 33, 434-445.	1.6	26
74	Biomechanical behavior of endodontically treated premolars using different preparation designs and CAD/CAM materials. <i>Journal of Dentistry</i> , 2017, 59, 54-61.	1.7	61
75	Re-mineralizing dentin using an experimental tricalcium silicate cement with biomimetic analogs. <i>Dental Materials</i> , 2017, 33, 505-513.	1.6	8
76	Titanium implant functionalization with phosphate-containing polymers may favour in vivo osseointegration. <i>Journal of Clinical Periodontology</i> , 2017, 44, 950-960.	2.3	8
77	Bacterial adhesion not inhibited by ion-releasing bioactive glass filler. <i>Dental Materials</i> , 2017, 33, 723-734.	1.6	41
78	Biofilm-induced changes to the composite surface. <i>Journal of Dentistry</i> , 2017, 63, 36-43.	1.7	40
79	Chemical interaction mechanism of 10-MDP with zirconia. <i>Scientific Reports</i> , 2017, 7, 45563.	1.6	144
80	Limited interaction of a self-adhesive flowable composite with dentin/enamel characterized by TEM. <i>Dental Materials</i> , 2017, 33, 209-217.	1.6	29
81	Academy of Dental Materials guidance on in vitro testing of dental composite bonding effectiveness to dentin/enamel using micro-tensile bond strength ($\frac{1}{4}$ TBS) approach. <i>Dental Materials</i> , 2017, 33, 133-143.	1.6	241
82	No evidence for the growth-stimulating effect of monomers on cariogenic Streptococci. <i>Clinical Oral Investigations</i> , 2017, 21, 1861-1869.	1.4	7
83	Phosphorylated Pullulan Coating Enhances Titanium Implant Osseointegration in a Pig Model. <i>International Journal of Oral and Maxillofacial Implants</i> , 2017, 32, 282-290.	0.6	8
84	Bond strength and cement-tooth interfacial characterization of self-adhesive composite cements. <i>American Journal of Dentistry</i> , 2017, 30, 205-211.	0.1	7
85	Mini-interfacial fracture toughness as a new validated enamel-bonding effectiveness test. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 446-455.	1.5	9
86	Interference of functional monomers with polymerization efficiency of adhesives. <i>European Journal of Oral Sciences</i> , 2016, 124, 204-209.	0.7	33
87	Cytotoxic effects of composite dust on human bronchial epithelial cells. <i>Dental Materials</i> , 2016, 32, 1482-1491.	1.6	19
88	Strength, toughness and aging stability of highly-translucent Y-TZP ceramics for dental restorations. <i>Dental Materials</i> , 2016, 32, e327-e337.	1.6	260
89	Effectiveness and stability of silane coupling agent incorporated in "universal" adhesives. <i>Dental Materials</i> , 2016, 32, 1218-1225.	1.6	156
90	Correlative analysis of cement-dentin interfaces using an interfacial fracture toughness and micro-tensile bond strength approach. <i>Dental Materials</i> , 2016, 32, 1575-1585.	1.6	26

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91	Effect of cation dopant radius on the hydrothermal stability of tetragonal zirconia: Grain boundary segregation and oxygen vacancy annihilation. <i>Acta Materialia</i> , 2016, 106, 48-58.	3.8	85
92	Correlative micro-Raman/EPMA analysis of the hydraulic calcium silicate cement interface with dentin. <i>Clinical Oral Investigations</i> , 2016, 20, 1663-1673.	1.4	22
93	Effect of resin and photoinitiator on color, translucency and color stability of conventional and low-shrinkage model composites. <i>Dental Materials</i> , 2016, 32, 183-191.	1.6	44
94	Short fibre-reinforced composite for extensive direct restorations: a laboratory and computational assessment. <i>Clinical Oral Investigations</i> , 2016, 20, 959-966.	1.4	20
95	Influence of Light Irradiation Through Zirconia on the Degree of Conversion of Composite Cements. <i>Journal of Adhesive Dentistry</i> , 2016, 18, 161-71.	0.3	17
96	Luting of CAD/CAM ceramic inlays: DirectÂcomposite versus dual-cure lutingÂcement. <i>Bio-Medical Materials and Engineering</i> , 2015, 25, 279-288.	0.4	19
97	Lifetime estimation of zirconia ceramics by linear ageing kinetics. <i>Acta Materialia</i> , 2015, 92, 290-298.	3.8	45
98	Evaluation of cell responses toward adhesives with different photoinitiating systems. <i>Dental Materials</i> , 2015, 31, 916-927.	1.6	52
99	Monomer elution in relation to degree of conversion for different types of composite. <i>Journal of Dentistry</i> , 2015, 43, 1448-1455.	1.7	60
100	Highly-translucent, strong and aging-resistant 3Y-TZP ceramics for dental restoration by grain boundary segregation. <i>Acta Biomaterialia</i> , 2015, 16, 215-222.	4.1	117
101	Curing profile of bulk-fill resin-based composites. <i>Journal of Dentistry</i> , 2015, 43, 664-672.	1.7	121
102	Aging resistance of surface-treated dental zirconia. <i>Dental Materials</i> , 2015, 31, 182-194.	1.6	119
103	Interfacial fracture toughness of aged adhesiveÂdentin interfaces. <i>Dental Materials</i> , 2015, 31, 462-472.	1.6	26
104	3D volumetric displacement and strain analysis of composite polymerization. <i>Dental Materials</i> , 2015, 31, 453-461.	1.6	33
105	Is secondary caries with composites a material-based problem?. <i>Dental Materials</i> , 2015, 31, e247-e277.	1.6	234
106	Functional monomer impurity affects adhesive performance. <i>Dental Materials</i> , 2015, 31, 1493-1501.	1.6	83
107	Dental Implant MacroÂDesign Features Can Impact the Dynamics of Osseointegration. <i>Clinical Implant Dentistry and Related Research</i> , 2015, 17, 639-645.	1.6	23
108	Effect of Conditioning and Aging on the Bond Strength and Interfacial Morphology of Glass-ionomer Cement Bonded to Dentin. <i>Journal of Adhesive Dentistry</i> , 2015, 17, 141-6.	0.3	19

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109	Five-year clinical performance of a HEMA-free one-step self-etch adhesive in noncarious cervical lesions. <i>Clinical Oral Investigations</i> , 2014, 18, 1045-1052.	1.4	19
110	Curing mode affects bond strength of adhesively luted composite CAD/CAM restorations to dentin. <i>Dental Materials</i> , 2014, 30, 281-291.	1.6	73
111	Composite cements benefit from light-curing. <i>Dental Materials</i> , 2014, 30, 292-301.	1.6	53
112	Degree of conversion and monomer elution of CQ/amine and TPO adhesives. <i>Dental Materials</i> , 2014, 30, 695-701.	1.6	36
113	Impact of hydrophilicity and length of spacer chains on the bonding of functional monomers. <i>Dental Materials</i> , 2014, 30, e317-e323.	1.6	65
114	Dentin-smear remains at self-etch adhesive interface. <i>Dental Materials</i> , 2014, 30, 1147-1153.	1.6	50
115	Influence of sintering conditions on low-temperature degradation of dental zirconia. <i>Dental Materials</i> , 2014, 30, 669-678.	1.6	123
116	3D-microleakage assessment of adhesive interfaces: Exploratory findings by μ CT. <i>Dental Materials</i> , 2014, 30, 799-807.	1.6	31
117	Adhesively luted zirconia restorations: why and how?. <i>Journal of Adhesive Dentistry</i> , 2014, 16, 294.	0.3	10
118	Fracture toughness versus micro-tensile bond strength testing of adhesive-dentin interfaces. <i>Dental Materials</i> , 2013, 29, 635-644.	1.6	53
119	Bonding effectiveness of self-adhesive composites to dentin and enamel. <i>Dental Materials</i> , 2013, 29, 221-230.	1.6	102
120	Bonding effectiveness of a new "multi-mode" adhesive to enamel and dentine. <i>Journal of Dentistry</i> , 2012, 40, 475-484.	1.7	293
121	Should we be concerned about composite (nano-)dust?. <i>Dental Materials</i> , 2012, 28, 1162-1170.	1.6	48
122	Immediate bonding effectiveness of contemporary composite cements to dentin. <i>Clinical Oral Investigations</i> , 2010, 14, 569-577.	1.4	60
123	Nano-controlled molecular interaction at adhesive interfaces for hard tissue reconstruction. <i>Acta Biomaterialia</i> , 2010, 6, 3573-3582.	4.1	208
124	Microtensile Bond Strength and Interfacial Characterization of 11 Contemporary Adhesives Bonded to Bur-cut Dentin. <i>Operative Dentistry</i> , 2010, 35, 94-104.	0.6	118
125	The quasi-three-dimensional marginal leakage of full-coverage crowns: resin coating versus sodium hypochlorite treatment. <i>International Journal of Prosthodontics</i> , 2010, 23, 406-9.	0.7	2
126	Antibacterial effect of bactericide immobilized in resin matrix. <i>Dental Materials</i> , 2009, 25, 424-430.	1.6	143

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127	Are one-step adhesives easier to use and better performing? Multifactorial assessment of contemporary one-step self-etching adhesives. <i>Journal of Adhesive Dentistry</i> , 2009, 11, 175-90.	0.3	100
128	Systematic review of the chemical composition of contemporary dental adhesives. <i>Biomaterials</i> , 2007, 28, 3757-3785.	5.7	1,066
129	Morphological field emission-SEM study of the effect of six phosphoric acid etching agents on human dentin. <i>Dental Materials</i> , 1996, 12, 262-271.	1.6	155
130	Nanoindentation Mapping and Bond Strength Study of Adhesive-Dentin Interfaces. <i>Advanced Materials Interfaces</i> , 0, , 2101327.	1.9	2