

# Markus Bernhard Blatz

## List of Publications by Year in descending order

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110  
papers

3,454  
citations

201385

27  
h-index

149479

56  
g-index

111  
all docs

111  
docs citations

111  
times ranked

2388  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resin-ceramic bonding: A review of the literature. <i>Journal of Prosthetic Dentistry</i> , 2003, 89, 268-274.	1.1	786
2	In vitro evaluation of shear bond strengths of resin to densely-sintered high-purity zirconium-oxide ceramic after long-term storage and thermal cycling. <i>Journal of Prosthetic Dentistry</i> , 2004, 91, 356-362.	1.1	281
3	Current status of zirconia-based fixed restorations. <i>Journal of Oral Science</i> , 2010, 52, 531-539.	0.7	131
4	Resin Bond to Indirect Composite and New Ceramic/Polymer Materials: A Review of the Literature. <i>Journal of Esthetic and Restorative Dentistry</i> , 2014, 26, 382-393.	1.8	129
5	The Current State of Chairside Digital Dentistry and Materials. <i>Dental Clinics of North America</i> , 2019, 63, 175-197.	0.8	122
6	In vitro comparative bond strength of contemporary self-adhesive resin cements to zirconium oxide ceramic with and without air-particle abrasion. <i>Clinical Oral Investigations</i> , 2010, 14, 187-192.	1.4	113
7	A comparison of bond strength of layered veneering porcelains to zirconia and metal. <i>Journal of Prosthetic Dentistry</i> , 2010, 104, 247-257.	1.1	111
8	3D printed complete removable dental prostheses: a narrative review. <i>BMC Oral Health</i> , 2020, 20, 343.	0.8	108
9	In vitro evaluation of long-term bonding of Procera AllCeram alumina restorations with a modified resin luting agent. <i>Journal of Prosthetic Dentistry</i> , 2003, 89, 381-387.	1.1	75
10	Precision of fit of implant-supported screw-retained 10-unit computer-aided-designed and computer-aided-manufactured frameworks made from zirconium dioxide and titanium: an in vitro study. <i>Clinical Oral Implants Research</i> , 2014, 25, 165-174.	1.9	73
11	Influence of contamination and cleaning on bond strength to modified zirconia. <i>Dental Materials</i> , 2009, 25, 1541-1550.	1.6	63
12	Bonding of resin-based luting cements to zirconia with and without the use of ceramic priming agents. <i>Journal of Adhesive Dentistry</i> , 2012, 14, 385-92.	0.3	61
13	Clinical outcome of single porcelain-fused-to-zirconium dioxide crowns: A systematic review. <i>Journal of Prosthetic Dentistry</i> , 2013, 110, 455-461.	1.1	54
14	Precision for Computer-Guided Implant Placement: Using 3D Planning Software and Fixed Intraoral Reference Points. <i>Journal of Oral and Maxillofacial Surgery</i> , 2007, 65, 393-399.	0.5	52
15	Effect of thickness and surface modifications on flexural strength of monolithic zirconia. <i>Journal of Prosthetic Dentistry</i> , 2018, 119, 987-993.	1.1	52
16	Zirconia Abutments for Single-Tooth Implants—Rationale and Clinical Guidelines. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009, 67, 74-81.	0.5	50
17	Clinical performance of anterior resin-bonded fixed dental prostheses with different framework designs: A systematic review and meta-analysis. <i>Journal of Dentistry</i> , 2016, 47, 1-7.	1.7	50
18	Influence of surface treatment and simulated aging on bond strengths of luting agents to zirconia. <i>Quintessence International</i> , 2007, 38, 745-53.	0.3	47

#	ARTICLE	IF	CITATIONS
19	The esthetic biological contour concept for implant restoration emergence profile design. Journal of Esthetic and Restorative Dentistry, 2021, 33, 173-184.	1.8	40
20	Prosthodontic Considerations for Predictable Single-Implant Esthetics in the Anterior Maxilla. Journal of Oral and Maxillofacial Surgery, 2005, 63, 89-96.	0.5	35
21	Virtual implant planning in the edentulous maxilla: criteria for decision making of prosthesis design. Clinical Oral Implants Research, 2013, 24, 152-159.	1.9	32
22	Analysis of Select Facial and Dental Esthetic Parameters. International Journal of Periodontics and Restorative Dentistry, 2014, 34, 623-629.	0.4	32
23	Single-implant restorations: A contemporary approach for achieving a predictable outcome. Journal of Oral and Maxillofacial Surgery, 2004, 62, 73-81.	0.5	30
24	In vitro precision of fit of computer-aided design and computer-aided manufacturing titanium and zirconium dioxide bars. Dental Materials, 2013, 29, 945-953.	1.6	29
25	Evaluation of cytotoxic effects of six self-etching adhesives with direct and indirect contact tests. Dental Materials Journal, 2011, 30, 799-805.	0.8	28
26	<sc>CAD</sc>/<sc>CAM</sc> fabrication accuracy of longâ€vs. shortâ€span implantâ€supported <sc>FDP</sc>s. Clinical Oral Implants Research, 2015, 26, 245-249.	1.9	28
27	Long-term clinical success of all-ceramic posterior restorations. Quintessence International, 2002, 33, 415-26.	0.1	28
28	Precision of Fit of Two Margin Designs for Metal-Ceramic Crowns. Journal of Prosthodontics, 2007, 16, 233-237.	1.7	27
29	Fracture resistance of implantâ€supported screwâ€retained zirconiaâ€based molar restorations. Clinical Oral Implants Research, 2017, 28, 1119-1126.	1.9	27
30	Adhesive bonding of zirconia with single-liquid acidic primers and a tri-n-butylborane initiated acrylic resin. Journal of Adhesive Dentistry, 2010, 12, 305-10.	0.3	25
31	In Vivo and In Vitro Evaluations of Microleakage Around Class I Amalgam and Composite Restorations. Operative Dentistry, 2010, 35, 641-648.	0.6	24
32	The resin bond to highâ€translucent zirconiaâ€”A systematic review. Journal of Esthetic and Restorative Dentistry, 2022, 34, 117-135.	1.8	24
33	In vitro durability of the resin bond to feldspathic ceramics. American Journal of Dentistry, 2004, 17, 169-72.	0.1	24
34	Bond strength of different veneering ceramics to zirconia and their susceptibility to thermocycling. American Journal of Dentistry, 2010, 23, 213-6.	0.1	24
35	Immediate loading of dental implants in the edentulous mandible. Journal of the American Dental Association, 2004, 135, 1543-1549.	0.7	23
36	Comparison of Marginal Fit between Allâ€Porcelain Margin versus Aluminaâ€Supported Margin on Procera<sup>Â®</sup> Alumina Crowns. Journal of Prosthodontics, 2009, 18, 162-166.	1.7	21

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37	Laser Therapy may be Better Than Topical Desensitizing Agents for Treating Dentin Hypersensitivity. <i>Journal of Evidence-based Dental Practice</i> , 2012, 12, 69-70.	0.7	21
38	Fracture resistance of single-tooth implant-supported zirconia-based indirect composite-layered molar restorations. <i>Clinical Oral Implants Research</i> , 2014, 25, 983-991.	1.9	21
39	Human Oral Motion-Powered Smart Dental Implant (SDI) for In Situ Ambulatory Photo-biomodulation Therapy. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000658.	3.9	21
40	Durability of bond between an indirect composite veneering material and zirconium dioxide ceramics. <i>Acta Odontologica Scandinavica</i> , 2013, 71, 457-463.	0.9	20
41	The effect of different surface treatments on the bond strength of a gingiva-colored indirect composite veneering material to three implant framework materials. <i>Clinical Oral Implants Research</i> , 2013, 24, 977-984.	1.9	19
42	Effect of thermomechanical aging on bond strength and interface morphology of glass fiber and zirconia posts bonded with a self-etch adhesive and a self-adhesive resin cement to natural teeth. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 455-464.	1.1	19
43	Effects of framework design and layering material on fracture strength of implant-supported zirconia-based molar crowns. <i>Clinical Oral Implants Research</i> , 2015, 26, 1407-1413.	1.9	19
44	Long-Term Resin Bond to Densely Sintered Aluminum Oxide Ceramic. <i>Journal of Esthetic and Restorative Dentistry</i> , 2003, 15, 362-369.	1.8	18
45	In vitro precision of fit of computer-aided designed and computer-aided manufactured titanium screw-retained fixed dental prostheses before and after ceramic veneering. <i>Clinical Oral Implants Research</i> , 2015, 26, 44-49.	1.9	18
46	Clinical Performance of All-Ceramic Dental Restorations. <i>Current Oral Health Reports</i> , 2017, 4, 112-123.	0.5	18
47	Postoperative tooth sensitivity with a new self-adhesive resin cement—a randomized clinical trial. <i>Clinical Oral Investigations</i> , 2013, 17, 793-798.	1.4	17
48	The Impact of 3D Implant Position on Emergence Profile Design. <i>International Journal of Periodontics and Restorative Dentistry</i> , 2021, 41, 79-86.	0.4	17
49	Shear bond strength between an indirect composite layering material and feldspathic porcelain-coated zirconia ceramics. <i>Clinical Oral Investigations</i> , 2012, 16, 1401-1411.	1.4	16
50	Effect of rubbing force magnitude on bond strength of universal adhesives applied in self-etch mode. <i>Dental Materials Journal</i> , 2018, 37, 139-145.	0.8	16
51	Wear of resin teeth opposing zirconia. <i>Journal of Prosthetic Dentistry</i> , 2020, 124, 488-493.	1.1	16
52	Predictable immediate implant placement and restoration in the esthetic zone. <i>Journal of Esthetic and Restorative Dentistry</i> , 2021, 33, 158-172.	1.8	16
53	Influence of operator experience on in vitro bond strength of dentin adhesives. <i>Journal of Adhesive Dentistry</i> , 2012, 14, 223-7.	0.3	16
54	Effect of Air-Particle Abrasion Protocol and Primer on The Topography and Bond Strength of a High-Translucent Zirconia Ceramic. <i>Journal of Prosthodontics</i> , 2022, 31, 228-238.	1.7	15

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55	A retrospective survey on long-term survival of posterior zirconia and porcelain-fused-to-metal crowns in private practice. <i>Quintessence International</i> , 2014, 45, 31-8.	0.3	14
56	Deep Margin Elevation: A Literature Review. <i>Dentistry Journal</i> , 2022, 10, 48.	0.9	13
57	Efficacy of adhesive strategies for restorative dentistry: A systematic review and network meta-analysis of double-blind randomized controlled trials over 12 months of follow-up. <i>Journal of Prosthodontic Research</i> , 2023, 67, 35-44.	1.1	13
58	Prosthetic Considerations for Orthodontic Implant Site Development in the Adult Patient. <i>Journal of Oral and Maxillofacial Surgery</i> , 2009, 67, 82-88.	0.5	12
59	How to Bond Zirconia: The APC Concept. <i>Compendium of Continuing Education in Dentistry</i> (Jamesburg, NJ: 1995), 2016, 37, 611-617; quiz 618.	0.1	12
60	ADHESIVE CEMENTATION OF HIGH-STRENGTH CERAMICS. <i>Journal of Esthetic and Restorative Dentistry</i> , 2007, 19, 238-239.	1.8	11
61	<i>In vitro</i> shear bond strength of dual-curing resin cements to two different high-strength ceramic materials with different surface texture. <i>Acta Odontologica Scandinavica</i> , 2009, 67, 346-354.	0.9	11
62	Shear bond strength of composite cement to alumina-coated versus tribochemical silica-treated zirconia. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103710.	1.5	11
63	Microtensile bond strength to enamel affected by hypoplastic amelogenesis imperfecta. <i>Journal of Adhesive Dentistry</i> , 2014, 16, 7-14.	0.3	11
64	Clinical application of surgical fixation screws in implant prosthodontics—Part I: Positioning of radiographic and surgical templates. <i>Journal of Prosthetic Dentistry</i> , 2004, 92, 395-398.	1.1	10
65	Effect of surface treatment and cleaning on the bond strength to polymer-infiltrated ceramic network CAD-CAM material. <i>Journal of Prosthetic Dentistry</i> , 2021, 126, 698-702.	1.1	10
66	Accuracy of Dental and Industrial 3D Printers. <i>Journal of Prosthodontics</i> , 2022, 31, 30-37.	1.7	10
67	Prosthetic Design Considerations for Anterior Single-Implant Restorations. <i>Journal of Esthetic and Restorative Dentistry</i> , 2004, 16, 165-175.	1.8	9
68	Laser Therapy may be Better than Topical Desensitizing Agents for Treating Dentin Hypersensitivity. <i>Journal of Evidence-based Dental Practice</i> , 2012, 12, 229-230.	0.7	9
69	Copy milling to duplicate the emergence profile for implant-supported restorations. <i>Journal of Prosthetic Dentistry</i> , 2020, 123, 671-674.	1.1	9
70	Dental software classification and dento-facial interdisciplinary planning platform. <i>Journal of Esthetic and Restorative Dentistry</i> , 2021, 33, 99-106.	1.8	9
71	Bond strengths of various resin cements to different ceramics. <i>Brazilian Oral Research</i> , 2019, 33, e095.	0.6	9
72	Luting indirect restorations with resin cements versus composite resins: Effects of preheating and ultrasound energy on film thickness. <i>Journal of Esthetic and Restorative Dentistry</i> , 2022, 34, 641-649.	1.8	9

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73	Influence of cementation technique on fracture strength and leakage of alumina all-ceramic crowns after cyclic loading. Quintessence International, 2008, 39, 23-32.	0.3	8
74	Relationship between air-blowing duration and bond strengths of three adhesive systems to dentin after thermal aging. Dental Materials Journal, 2013, 32, 767-774.	0.8	6
75	&lt;p&gt;A 10-Year Follow-Up of Different Intra-Radicular Retainers in Teeth Restored with Zirconia Crowns&lt;/p&gt;. Clinical, Cosmetic and Investigational Dentistry, 2019, Volume 11, 409-417.	0.7	6
76	Loading capacity of CAD/CAMâ€ƒfabricated anterior feldspathic ceramic crowns bonded to oneâ€ƒpiece zirconia implants with different cements. Clinical Oral Implants Research, 2019, 30, 178-186.	1.9	6
77	Analysis of the mesh resolution of an .STL exported from an intraoral scanner file. Journal of Esthetic and Restorative Dentistry, 2022, 34, 816-825.	1.8	6
78	The current state of adhesive dentistry: a guide for clinical practice. Compendium of Continuing Education in Dentistry (Jamesburg, N J): 1995, 2013, 34 Spec 9, 2-8.	0.1	5
79	Adhesive Bonding to Hybrid Materials: An Overview of Materials and Recommendations. Compendium of Continuing Education in Dentistry (Jamesburg, N J): 1995, 2016, 37, 630-637.	0.1	5
80	Clinical application of surgical fixation screws in implant prosthodonticsâ€ƒPart II: Indexing implant position. Journal of Prosthetic Dentistry, 2004, 92, 496-499.	1.1	4
81	Effect of different ceramic primers on shear bond strength of resin-modified glass ionomer cement to zirconia. Journal of Adhesion Science and Technology, 2016, 30, 2429-2438.	1.4	4
82	An in vitro evaluation of fracture load of implantâ€ƒsupported zirconiaâ€ƒbased prostheses fabricated with different veneer materials. Clinical Oral Implants Research, 2018, 29, 396-403.	1.9	4
83	Shear bond strength of luting cements to fixed superstructure metal surfaces under various seating forces. Journal of Advanced Prosthodontics, 2018, 10, 340.	1.1	4
84	Application of interim fixed reference points to maintain the occlusal vertical dimension: A technique for immediate loading protocols in the edentulous mandible. Journal of Prosthetic Dentistry, 2006, 96, 134-138.	1.1	3
85	Effect of Storage Temperature on the Shelf Life of Self-adhesive Resin Cements. Journal of Adhesive Dentistry, 2015, 17, 545-50.	0.3	3
86	Inhibition of root dentin demineralization by ion releasing cements. Journal of Esthetic and Restorative Dentistry, 2020, 32, 791-796.	1.8	2
87	Prospective 5â€ƒyear clinical evaluation of posterior zirconia fixed dental prostheses veneered with milled lithium disilicate ( CADon ). Journal of Esthetic and Restorative Dentistry, 2022, , .	1.8	2
88	Cementation and Bonding of Zirconia Restorations. Compendium of Continuing Education in Dentistry (Jamesburg, N J): 1995, 2018, 39, 9-13.	0.1	2
89	Long-term Bond Strength between Layering Indirect Composite Material and Zirconia Coated with Silicabased Ceramics. Journal of Adhesive Dentistry, 2015, 17, 273-81.	0.3	2
90	Three-Dimensional Analysis of the Correlation Between Anterior Tooth Form and Face Shape. International Journal of Periodontics and Restorative Dentistry, 2014, 34, 765-771.	0.4	1

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91	The effect of canal cleansing protocols on cementation of a fiber post to saliva-contaminated root canals. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 71-81.	1.4	1
92	Diagnosis of Biofilm-Associated Peri-Implant Disease Using a Fluorescence-Based Approach. <i>Dentistry Journal</i> , 2021, 9, 24.	0.9	1
93	Digital and microscopic tools for ultimate esthetics and precision. <i>Journal of Esthetic and Restorative Dentistry</i> , 2022, , .	1.8	1
94	Multidisciplinary design: Creating a common perspective in complex cases. <i>Journal of Esthetic and Restorative Dentistry</i> , 2022, 34, 244-251.	1.8	1
95	Bonding protocols for improved long-term clinical success. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2014, 35, 276-7.	0.1	1
96	Digital Implant Planning and Surgical Guides: Tools for Clinical Success. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2021, 42, 400-401.	0.1	1
97	Fluorescence-Enhanced Theragnosis: A Novel Approach to Visualize, Detect, and Remove Caries. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2021, 42, 460-465.	0.1	1
98	The Effect of Decalcified Root Surfaces on Dentinal Bond Strength. <i>Journal of Adhesion</i> , 2016, 92, 469-484.	1.8	0
99	Effect of fluoride varnish with added casein phosphopeptide-amorphous calcium phosphate on bond strength to enamel. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 581-590.	1.4	0
100	Editorial: A time of change. <i>Journal of Esthetic and Restorative Dentistry</i> , 2021, 33, 678-678.	1.8	0
101	Quantification of Endogenous Matrix Metalloprotease 8 (MMP-8) in Dentinal Cavity Walls. <i>FASEB Journal</i> , 2013, 27, 1b28.	0.2	0
102	The Computer Aided Design/press technique: Fabrication of zirconia-reinforced lithium disilicate restorations for treatment of extensive noncarious cervical lesions. <i>Journal of Esthetic and Restorative Dentistry</i> , 2022, , .	1.8	0
103	Replacing a single molar with dental implants. <i>Practical Procedures &amp; Aesthetic Dentistry: PPAD</i> , 2004, 16, 370.	0.0	0
104	Ceramic restorations. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2004, 25, 412, 414, 416 passim.	0.1	0
105	A modified technique for direct Class II posterior composite restorations. <i>Practical Procedures &amp; Aesthetic Dentistry: PPAD</i> , 2006, 18, 624.	0.0	0
106	Simplified Fabrication of an Esthetic Implant-Supported Crown With a Novel CAD/CAM Glass Ceramic. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2016, 37, 396-9.	0.1	0
107	Autotransplantation: An Alternative to Dental Implants- Case Report With 4-Year Follow-Up. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2018, 39, 374-381.	0.1	0
108	Adhesive Dentistry: Just Bond It!. <i>Compendium of Continuing Education in Dentistry (Jamesburg, N J: 1995)</i> , 2018, 39, 374-381.	0.1	0

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109	Editorial. Journal of Esthetic and Restorative Dentistry, 2022, 34, 6-6.	1.8	0
110	The benefits of adhesion. Journal of Adhesive Dentistry, 2013, 15, 103-4.	0.3	0