

Daniel Edelhoff

List of Publications by Year in descending order

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89
papers

4,747
citations

117453

34
h-index

98622

67
g-index

91
all docs

91
docs citations

91
times ranked

3300
citing authors

#	ARTICLE	IF	CITATIONS
1	Tooth structure removal associated with various preparation designs for anterior teeth. <i>Journal of Prosthetic Dentistry</i> , 2002, 87, 503-509.	1.1	376
2	Accuracy of digital models obtained by direct and indirect data capturing. <i>Clinical Oral Investigations</i> , 2013, 17, 1201-1208.	1.4	267
3	Maxillary sinus augmentation using xenogenic bone substitute material Bio-Oss® in combination with venous blood. <i>Clinical Oral Implants Research</i> , 2000, 11, 217-229.	1.9	249
4	High-strength CAD/CAM-fabricated veneering material sintered to zirconia copings – A new fabrication mode for all-ceramic restorations. <i>Dental Materials</i> , 2009, 25, 121-128.	1.6	224
5	In vitro performance of full-contour zirconia single crowns. <i>Dental Materials</i> , 2012, 28, 449-456.	1.6	223
6	Clinical results of lithium-disilicate crowns after up to 9 years of service. <i>Clinical Oral Investigations</i> , 2013, 17, 275-284.	1.4	203
7	Marginal and internal fits of fixed dental prostheses zirconia retainers. <i>Dental Materials</i> , 2009, 25, 94-102.	1.6	175
8	Wear at the titanium–titanium and the titanium–zirconia implant–abutment interface: A comparative in vitro study. <i>Dental Materials</i> , 2012, 28, 1215-1220.	1.6	173
9	In vivo fracture resistance of implant-supported all-ceramic restorations. <i>Journal of Prosthetic Dentistry</i> , 2003, 90, 325-331.	1.1	169
10	Severe Tooth Wear: European Consensus Statement –on Management Guidelines. <i>Journal of Adhesive Dentistry</i> , 2017, 19, 111-119.	0.3	143
11	Three-year clinical prospective evaluation of zirconia-based posterior fixed dental prostheses (FDPs). <i>Clinical Oral Investigations</i> , 2009, 13, 445-451.	1.4	134
12	Accuracy of five intraoral scanners compared to indirect digitalization. <i>Clinical Oral Investigations</i> , 2017, 21, 1445-1455.	1.4	133
13	Marginal and internal fit of four-unit zirconia fixed dental prostheses based on digital and conventional impression techniques. <i>Clinical Oral Investigations</i> , 2014, 18, 515-523.	1.4	124
14	Fracture load of 3D-printed fixed dental prostheses compared with milled and conventionally fabricated ones: the impact of resin material, build direction, post-curing, and artificial aging – an in vitro study. <i>Clinical Oral Investigations</i> , 2020, 24, 701-710.	1.4	124
15	Three-unit reinforced polyetheretherketone composite FDPs: Influence of fabrication method on load-bearing capacity and failure types. <i>Dental Materials Journal</i> , 2015, 34, 7-12.	0.8	121
16	3D Printing in Digital Prosthetic Dentistry: An Overview of Recent Developments in Additive Manufacturing. <i>Journal of Clinical Medicine</i> , 2021, 10, 2010.	1.0	108
17	Tooth wear: A systematic review of treatment options. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 752-759.	1.1	97
18	A new method for the evaluation of the accuracy of full-arch digital impressions in vitro. <i>Clinical Oral Investigations</i> , 2016, 20, 1487-1494.	1.4	93

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19	Fit of 4-unit FDPs made of zirconia and CoCr-alloy after chairside and labside digitalization – A laboratory study. <i>Dental Materials</i> , 2014, 30, 400-407.	1.6	87
20	Effect of different adhesives combined with two resin composite cements on shear bond strength to polymeric CAD/CAM materials. <i>Dental Materials Journal</i> , 2013, 32, 492-501.	0.8	79
21	Digital evaluation of the reproducibility of implant scanbody fit – an in vitro study. <i>Clinical Oral Investigations</i> , 2012, 16, 851-856.	1.4	75
22	Effect of preparation angles on the precision of zirconia crown copings fabricated by CAD/CAM system. <i>Dental Materials Journal</i> , 2008, 27, 814-820.	0.8	63
23	Effect of Preparation Design on the Fracture Resistance of Zirconia Crown Copings. <i>Dental Materials Journal</i> , 2008, 27, 362-367.	0.8	61
24	Artificial Neural Networks as a powerful numerical tool to classify specific features of a tooth based on 3D scan data. <i>Computers in Biology and Medicine</i> , 2017, 80, 65-76.	3.9	59
25	Effect of different surface pretreatments and adhesives on the load-bearing capacity of veneered 3-unit PEEK FDPs. <i>Journal of Prosthetic Dentistry</i> , 2015, 114, 666-673.	1.1	57
26	Virtual evaluation for CAD-CAM-fabricated complete dentures. <i>Journal of Prosthetic Dentistry</i> , 2017, 117, 28-33.	1.1	49
27	Bonding to new CAD/CAM resin composites: influence of air abrasion and conditioning agents as pretreatment strategy. <i>Clinical Oral Investigations</i> , 2019, 23, 529-538.	1.4	48
28	Comparison between novel strength-gradient and color-gradient multilayered zirconia using conventional and high-speed sintering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 111, 103977.	1.5	48
29	Comparison of various 3D printed and milled PAEK materials: Effect of printing direction and artificial aging on Martens parameters. <i>Dental Materials</i> , 2020, 36, 197-209.	1.6	45
30	Parameters affecting retentive force of electroformed double-crown systems. <i>Clinical Oral Investigations</i> , 2010, 14, 129-135.	1.4	44
31	Treatment Concept with CAD/CAM-fabricated High-Density Polymer Temporary Restorations. <i>Journal of Esthetic and Restorative Dentistry</i> , 2012, 24, 310-318.	1.8	44
32	Optical properties of manually and CAD/CAM-fabricated polymers. <i>Dental Materials Journal</i> , 2013, 32, 865-871.	0.8	44
33	Effect of treatment with a full-occlusion biofeedback splint on sleep bruxism and TMD pain: a randomized controlled clinical trial. <i>Clinical Oral Investigations</i> , 2020, 24, 4005-4018.	1.4	40
34	Influence of cementation and cement type on the fracture load testing methodology of anterior crowns made of different materials. <i>Dental Materials Journal</i> , 2013, 32, 888-895.	0.8	36
35	Computer-aided evaluation of preparations for CAD/CAM-fabricated all-ceramic crowns. <i>Clinical Oral Investigations</i> , 2013, 17, 1389-1395.	1.4	35
36	Residual monomer elution from different conventional and CAD/CAM dental polymers during artificial aging. <i>Clinical Oral Investigations</i> , 2020, 24, 277-284.	1.4	33

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37	Influence of connector design and material composition and veneering on the stress distribution of all-ceramic fixed dental prostheses: A finite element study. <i>Dental Materials</i> , 2011, 27, e171-e175.	1.6	30
38	Clinical Benefits of the Immediate Implant Socket Shield Technique. <i>Journal of Esthetic and Restorative Dentistry</i> , 2017, 29, 93-101.	1.8	30
39	Ten-year survival and chipping rates and clinical quality grading of zirconia-based fixed dental prostheses. <i>Clinical Oral Investigations</i> , 2018, 22, 2905-2915.	1.4	30
40	Internal porosities, retentive force, and survival of cobalt-chromium alloy clasps fabricated by selective laser-sintering. <i>Journal of Prosthodontic Research</i> , 2020, 64, 210-216.	1.1	29
41	Elution behavior of a 3D-printed, milled and conventional resin-based occlusal splint material. <i>Dental Materials</i> , 2021, 37, 701-710.	1.6	29
42	Bonding between CAD/CAM resin and resin composite cements dependent on bonding agents: three different in vitro test methods. <i>Clinical Oral Investigations</i> , 2016, 20, 227-236.	1.4	28
43	A novel CAD/CAM base metal compared to conventional CoCrMo alloys: an in-vitro study of the long-term metal-ceramic bond strength. <i>Oral Health and Dental Management</i> , 2014, 13, 446-52.	0.7	28
44	Influence of cleaning methods after 3D printing on two-body wear and fracture load of resin-based temporary crown and bridge material. <i>Clinical Oral Investigations</i> , 2021, 25, 5987-5996.	1.4	26
45	Clinical Use of an Intraoral Silicoating Technique. <i>Journal of Esthetic and Restorative Dentistry</i> , 2001, 13, 350-356.	1.8	25
46	Systematics and concepts for the digital production of complete dentures: risks and opportunities. <i>International Journal of Computerized Dentistry</i> , 2018, 21, 41-56.	0.2	25
47	Impact of plasma treatment of PMMA-based CAD/CAM blanks on surface properties as well as on adhesion to self-adhesive resin composite cements. <i>Dental Materials</i> , 2013, 29, 935-944.	1.6	24
48	Impact of different pretreatments and aging procedures on the flexural strength and phase structure of zirconia ceramics. <i>Dental Materials</i> , 2019, 35, 1439-1449.	1.6	23
49	Impact of shortened dental arch on oral health-related quality of life over a period of 10 years – A randomized controlled trial. <i>Journal of Dentistry</i> , 2019, 80, 55-62.	1.7	23
50	Influence of speed sintering on the fit and fracture strength of 3-unit monolithic zirconia fixed partial dentures. <i>Journal of Prosthetic Dentistry</i> , 2020, 124, 380-386.	1.1	22
51	Fracture load of 3D printed PEEK inlays compared with milled ones, direct resin composite fillings, and sound teeth. <i>Clinical Oral Investigations</i> , 2020, 24, 3457-3466.	1.4	22
52	Influence of different surface treatments on two-body wear and fracture load of monolithic CAD/CAM ceramics. <i>Clinical Oral Investigations</i> , 2020, 24, 3049-3060.	1.4	18
53	Advances in materials and concepts in fixed prosthodontics: a selection of possible treatment modalities. <i>British Dental Journal</i> , 2019, 226, 739-748.	0.3	15
54	Temporary 3D-Printed Fixed Dental Prosthesis Materials: Impact of Postprinting Cleaning Methods on Degree of Conversion and Surface and Mechanical Properties. <i>International Journal of Prosthodontics</i> , 2021, 34, 784-795.	0.7	15

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55	In vivo wear of CAD-CAM composite versus lithium disilicate full coverage first-molar restorations: a pilot study over 2 years. <i>Clinical Oral Investigations</i> , 2020, 24, 4301-4311.	1.4	14
56	Implant Impression Techniques for the Edentulous Jaw: A Summary of Three Studies. <i>Journal of Prosthodontics</i> , 2016, 25, 146-150.	1.7	13
57	Reproduction accuracy of articulator mounting with an arbitrary face-bow vs. average values—a controlled, randomized, blinded patient simulator study. <i>Clinical Oral Investigations</i> , 2019, 23, 1007-1014.	1.4	13
58	Long-term tensile bond strength of differently cemented nanocomposite CAD/CAM crowns on dentin abutment. <i>Dental Materials</i> , 2014, 30, 334-342.	1.6	12
59	Interdisciplinary full-mouth rehabilitation for redefining esthetics, function, and orofacial harmony. <i>Journal of Esthetic and Restorative Dentistry</i> , 2019, 31, 179-189.	1.8	12
60	Two-body wear and fracture behaviour of an experimental paediatric composite crown in comparison to zirconia and stainless steel crowns dependent on the cementation mode. <i>Dental Materials</i> , 2021, 37, 264-271.	1.6	12
61	Influence of tooth mobility on critical stresses in all-ceramic inlay-retained fixed dental prostheses: A finite element study. <i>Dental Materials</i> , 2012, 28, 146-151.	1.6	10
62	Clinical Performance of Anterior Full Veneer Restorations Made of Lithium Disilicate with a Mean Observation Time of 8 Years. <i>International Journal of Prosthodontics</i> , 2020, 33, 14-21.	0.7	10
63	In-vivo-wear in composite and ceramic full mouth rehabilitations over 3 years. <i>Scientific Reports</i> , 2021, 11, 14056.	1.6	10
64	Complete mouth rehabilitation after transposition osteotomy based on intraoral scanning: An experimental approach. <i>Journal of Prosthetic Dentistry</i> , 2014, 112, 89-93.	1.1	8
65	Impact of surface treatment of different reinforced glass-ceramic anterior crowns on load bearing capacity. <i>Dental Materials Journal</i> , 2015, 34, 595-604.	0.8	8
66	Transmittance of visible and blue light through zirconia. <i>Dental Materials Journal</i> , 2018, 37, 812-817.	0.8	8
67	Effect of Dentin Bonding Agents, Various Resin Composites and Curing Modes on Bond Strength to Human Dentin. <i>Materials</i> , 2019, 12, 3395.	1.3	8
68	The randomized shortened dental arch study: influence of two different treatments on interdental spacing over 5 years. <i>Clinical Oral Investigations</i> , 2017, 21, 1945-1951.	1.4	7
69	Precise Placement of Single Retainer Resin-Bonded Fixed Dental Prostheses with an Innovative Splint Design. <i>Journal of Prosthodontics</i> , 2017, 26, 359-363.	1.7	7
70	Periodontal health in shortened dental arches: A 10-year RCT. <i>Journal of Prosthodontic Research</i> , 2020, 64, 498-505.	1.1	7
71	Two digital strategies in modern implantology - root-analogue implants and the digital one-abutment/one-time concept. <i>International Journal of Computerized Dentistry</i> , 2018, 21, 115-131.	0.2	7
72	Periodontal outcome and additional clinical quality criteria of lithium-disilicate restorations (Empress 2) after 14 years. <i>Clinical Oral Investigations</i> , 2019, 23, 2153-2164.	1.4	6

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73	Rehabilitation of shortened dental arches: A fifteen-year randomised trial. <i>Journal of Oral Rehabilitation</i> , 2021, 48, 738-744.	1.3	6
74	Comparison of fracture loads of CAD/CAM and conventionally fabricated temporary fixed dental prostheses after different aging regimens. <i>International Journal of Computerized Dentistry</i> , 2016, 19, 101-112.	0.2	6
75	Accuracy and mechanical performance of passivated and conventional fabricated 3-unit fixed dental prosthesis on multi-unit abutments. <i>Journal of Prosthodontic Research</i> , 2017, 61, 403-411.	1.1	5
76	A pattern of care analysis: Prosthetic rehabilitation of head and neck cancer patients after radiotherapy. <i>Clinical Implant Dentistry and Related Research</i> , 2020, 22, 333-341.	1.6	5
77	Bond strength of CAD-CAM and conventional veneering materials to different frameworks. <i>Journal of Prosthetic Dentistry</i> , 2021, 125, 664-673.	1.1	5
78	IMPACT OF SHORTENED DENTAL ARCH ON ORAL HEALTH-RELATED QUALITY OF LIFE. <i>Journal of Evidence-based Dental Practice</i> , 2021, 21, 101622.	0.7	5
79	Influence of butt joint connections with long guiding areas on the stability of single crowns and 3-unit bridges - an in-vitro-study. <i>Journal of Prosthodontic Research</i> , 2021, 65, 455-460.	1.1	4
80	Orthodontic bonding to silicate ceramics: impact of different pretreatment methods on shear bond strength between ceramic restorations and ceramic brackets. <i>Clinical Oral Investigations</i> , 2022, 26, 2827-2837.	1.4	4
81	Impact of different pretreatments and attachment materials on shear bond strength between monolithic zirconia restorations and metal brackets. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
82	<sc>M</sc>ultidisciplinary full-mouth rehabilitation with soft tissue regeneration in the esthetic zone. <i>Journal of Esthetic and Restorative Dentistry</i> , 2018, 30, 22-29.	1.8	2
83	Application of <sc>3D</sc>-printed colored <sc>3D</sc>-models for the fabrication of full ceramic restorations: A technical report. <i>Journal of Esthetic and Restorative Dentistry</i> , 2022, 34, 235-243.	1.8	2
84	Effect of adhesive systems, direct resin composites and artificial aging on tensile bond strength between different resin composites and human dentin. <i>International Journal of Adhesion and Adhesives</i> , 2021, 108, 102888.	1.4	1
85	In vivo wear of CAD-CAM composite versus lithium disilicate full coverage first-molar restorations: a pilot study over 2 years. , 2020, 24, 4301.		1
86	Oral features and computerized rehabilitation of a young patient with CHARGE syndrome using minimally invasive long-term interim CAD-CAM restorations. <i>Journal of Prosthetic Dentistry</i> , 2017, 117, 453-458.	1.1	0
87	Atraumatic intraoral scans and virtual hybrid casts for custom implant abutments and zirconia implants: Accuracy of the workflow. <i>Journal of Prosthetic Dentistry</i> , 2021, , .	1.1	0
88	Double crown rescue concept: clinical and dental technical workflow. <i>International Journal of Computerized Dentistry</i> , 2020, 23, 281-292.	0.2	0
89	CAD/CAM Diagnostic Esthetic Functional Splint (DEFS) as a Removable Prototype to Evaluate the Final Prosthetic Rehabilitation: A Narrative Review. <i>Prosthesis</i> , 2022, 4, 136-150.	1.1	0