

Reinhard Hickel

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,312
citations

304743

22
h-index

223800

46
g-index

71
all docs

71
docs citations

71
times ranked

2243
citing authors

#	ARTICLE	IF	CITATIONS
1	Buonocore Memorial Lecture. Review of the clinical survival of direct and indirect restorations in posterior teeth of the permanent dentition. Operative Dentistry, 2004, 29, 481-508.	1.2	433
2	Repair of restorations – Criteria for decision making and clinical recommendations. Dental Materials, 2013, 29, 28-50.	3.5	189
3	Guidance on posterior resin composites: Academy of Operative Dentistry - European Section. Journal of Dentistry, 2014, 42, 377-383.	4.1	167
4	Laboratory mechanical parameters of composite resins and their relation to fractures and wear in clinical trials – A systematic review. Dental Materials, 2017, 33, e101-e114.	3.5	131
5	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. Clinical Oral Investigations, 2020, 24, 701-710.	3.0	124
6	When to intervene in the caries process? An expert Delphi consensus statement. Clinical Oral Investigations, 2019, 23, 3691-3703.	3.0	105
7	Nanoparticles in dentistry. Dental Materials, 2017, 33, 1298-1314.	3.5	78
8	How to Intervene in the Caries Process in Children: A Joint ORCA and EFCD Expert Delphi Consensus Statement. Caries Research, 2020, 54, 297-305.	2.0	59
9	Scientific update on nanoparticles in dentistry. International Dental Journal, 2018, 68, 299-305.	2.6	48
10	Bonding to new CAD/CAM resin composites: influence of air abrasion and conditioning agents as pretreatment strategy. Clinical Oral Investigations, 2019, 23, 529-538.	3.0	48
11	Clinical evaluation of the bulk fill composite QuiXfil in molar class I and II cavities: 10-year results of a RCT. Dental Materials, 2018, 34, e138-e147.	3.5	47
12	Three-body wear of 3D printed temporary materials. Dental Materials, 2019, 35, 1805-1812.	3.5	47
13	Titanium and zirconium release from titanium- and zirconia implants in mini pig maxillae and their toxicity in vitro. Dental Materials, 2020, 36, 402-412.	3.5	44
14	<i>In vitro&/i> investigation of the influence of printing direction on the flexural strength, flexural modulus and fractographic analysis of 3D-printed temporary materials. Dental Materials Journal, 2021, 40, 641-649.	1.8	31
15	Relationship between caries experience and demarcated hypomineralised lesions (including MIH) in the permanent dentition of 15-year-olds. Clinical Oral Investigations, 2018, 22, 2013-2019.	3.0	29
16	Evaluation of occlusal caries detection and assessment by visual inspection, digital bitewing radiography and near-infrared light transillumination. Clinical Oral Investigations, 2018, 22, 2431-2438.	3.0	29
17	Fatigue resistance of ultrathin CAD/CAM ceramic and nanoceramic composite occlusal veneers. Dental Materials, 2019, 35, 1370-1377.	3.5	28
18	Comparison of four different treatment strategies in teeth with molar – incisor hypomineralization – related enamel breakdown – A retrospective cohort study. International Journal of Paediatric Dentistry, 2020, 30, 597-606.	1.8	28

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19	How to intervene in the caries process in adults: proximal and secondary caries? An EFCD-ORCA-DGZ expert Delphi consensus statement. <i>Clinical Oral Investigations</i> , 2020, 24, 3315-3321.	3.0	27
20	Three-year results of a randomized controlled clinical trial of the posterior composite QuiXfil in class I and II cavities. <i>Clinical Oral Investigations</i> , 2009, 13, 301-307.	3.0	26
21	The light-curing unit: An essential piece of dental equipment. <i>International Dental Journal</i> , 2020, 70, 407-417.	2.6	26
22	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.	3.0	26
23	How to Intervene in the Caries Process in Older Adults: A Joint ORCA and EFCD Expert Delphi Consensus Statement. <i>Caries Research</i> , 2020, 54, 459-465.	2.0	24
24	Inhibitory effect of LL-37 and human lactoferricin on growth and biofilm formation of anaerobes associated with oral diseases. <i>Anaerobe</i> , 2021, 67, 102301.	2.1	24
25	In vitro validation of near-infrared transillumination at 780nm for the detection of caries on proximal surfaces. <i>Clinical Oral Investigations</i> , 2019, 23, 3933-3940.	3.0	23
26	Hypersensitivity in teeth affected by molar-incisor hypomineralization (MIH). <i>Scientific Reports</i> , 2021, 11, 17922.	3.3	23
27	Cytotoxicity and DNA double-strand breaks in human gingival fibroblasts exposed to eluates of dental composites. <i>Dental Materials</i> , 2018, 34, 201-208.	3.5	22
28	A detailed report on the measures taken in the Department of Conservative Dentistry and Periodontology in Munich at the beginning of the COVID-19 outbreak. <i>Clinical Oral Investigations</i> , 2020, 24, 2931-2941.	3.0	22
29	When to intervene in the caries process? A Delphi consensus statement. <i>British Dental Journal</i> , 2020, 229, 474-482.	0.6	21
30	Evaluation of the interface between gutta-percha and two types of sealers using scanning electron microscopy (SEM). <i>Clinical Oral Investigations</i> , 2018, 22, 1631-1639.	3.0	20
31	Fracture load and chewing simulation of zirconia and stainless steel crowns for primary molars. <i>European Journal of Oral Sciences</i> , 2019, 127, 369-375.	1.5	20
32	Meta-analysis of the longevity of commonly used pit and fissure sealant materials. <i>Dental Materials</i> , 2020, 36, e158-e168.	3.5	20
33	Comprehensive Analytics of Actovegin® and Its Effect on Muscle Cells. <i>International Journal of Sports Medicine</i> , 2017, 38, 809-818.	1.7	18
34	Gingivitis and lifestyle influences on high-sensitivity C-reactive protein and interleukin 6 in adolescents. <i>Journal of Clinical Periodontology</i> , 2017, 44, 372-381.	4.9	17
35	Impact of COVID-19 on Dental Care during a National Lockdown: A Retrospective Observational Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7963.	2.6	16
36	Sensitivity of caries pathogens to antimicrobial peptides related to caries risk. <i>Clinical Oral Investigations</i> , 2018, 22, 2519-2525.	3.0	14

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37	Inter- and intraexaminer reliability of bitewing radiography and near-infrared light transillumination for proximal caries detection and assessment. <i>Dentomaxillofacial Radiology</i> , 2018, 47, 20170292.	2.7	14
38	<i>In vitro</i> validation of near-infrared reflection for proximal caries detection. <i>European Journal of Oral Sciences</i> , 2019, 127, 515-522.	1.5	14
39	Six-year results of a randomized controlled clinical trial of two glass ionomer cements in class II cavities. <i>Journal of Dentistry</i> , 2020, 97, 103333.	4.1	14
40	Near-infrared transillumination with high dynamic range imaging for occlusal caries detection in vitro. <i>Lasers in Medical Science</i> , 2020, 35, 2049-2058.	2.1	13
41	Treatment outcomes after uncomplicated and complicated crown fractures in permanent teeth. <i>Clinical Oral Investigations</i> , 2021, 25, 133-143.	3.0	13
42	Longevity of lithium disilicate indirect restorations in posterior teeth prepared by undergraduate students: A retrospective study up to 8.5 years. <i>Journal of Dentistry</i> , 2021, 105, 103569.	4.1	13
43	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.	3.5	12
44	Differentiation of hMSC and hPDLSC induced by PGE2 or BMP-7 in 3D models. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2017, 122, 30-37.	2.2	11
45	Shear bond strength and microleakage of a new self-etch adhesive pit and fissure sealant. <i>Dental Materials Journal</i> , 2018, 37, 266-271.	1.8	11
46	Survival analysis of adhesive reattachments in permanent teeth with crown fractures after dental trauma. <i>Dental Traumatology</i> , 2021, 37, 208-214.	2.0	10
47	Antioxidants as a novel dental resin-composite component: Effect on elution and degree of conversion. <i>Dental Materials</i> , 2019, 35, 650-661.	3.5	9
48	Effect of eluates from zirconia-modified glass ionomer cements on DNA double-stranded breaks in human gingival fibroblast cells. <i>Dental Materials</i> , 2019, 35, 444-449.	3.5	9
49	Actovegin® reduces PMA-induced inflammation on human cells. <i>European Journal of Applied Physiology</i> , 2020, 120, 1671-1680.	2.5	9
50	Evaluation of detecting proximal caries in posterior teeth via visual inspection, digital bitewing radiography and near-infrared light transillumination. <i>American Journal of Dentistry</i> , 2019, 32, 74-80.	0.1	9
51	In-vitro cytocompatibility and growth factor content of GBR/GTR membranes. <i>Dental Materials</i> , 2019, 35, 963-969.	3.5	8
52	Effect of polyhexanide as antiseptic mouth rinse against oral pathogens in an <i>in vitro</i> biofilm model. <i>Acta Odontologica Scandinavica</i> , 2021, 79, 506-513.	1.6	8
53	Comparison of novel and established caries diagnostic methods: a clinical study on occlusal surfaces. <i>BMC Oral Health</i> , 2021, 21, 97.	2.3	8
54	Automated detection of posterior restorations in permanent teeth using artificial intelligence on intraoral photographs. <i>Journal of Dentistry</i> , 2022, 121, 104124.	4.1	8

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55	An alternate methodology for studying diffusion and elution kinetics of dimethacrylate monomers through dentinal tubules. <i>Dental Materials</i> , 2020, 36, 479-490.	3.5	7
56	Automatized Detection and Categorization of Fissure Sealants from Intraoral Digital Photographs Using Artificial Intelligence. <i>Diagnostics</i> , 2021, 11, 1608.	2.6	7
57	Intranuclear cell uptake and toxicity of titanium dioxide and zirconia particles as well as bacterial adhesion on dental titanium- and zirconia-implants. <i>Dental Materials</i> , 2022, 38, 517-528.	3.5	7
58	Targeting antibiotic tolerance in anaerobic biofilms associated with oral diseases: Human antimicrobial peptides LL-37 and lactoferricin enhance the antibiotic efficacy of amoxicillin, clindamycin and metronidazole. <i>Anaerobe</i> , 2021, 71, 102439.	2.1	6
59	Oral health in patients with neurodegenerative and cerebrovascular disease: a retrospective study. <i>Disability and Rehabilitation</i> , 2023, 45, 2316-2324.	1.8	6
60	Special Teaching Formats during the COVID-19 Pandemic—A Survey with Implications for a Crisis-Proof Education. <i>Journal of Clinical Medicine</i> , 2021, 10, 5099.	2.4	5
61	Effect of fiber incorporation on the contraction stress of composite materials. <i>Clinical Oral Investigations</i> , 2019, 23, 1461-1471.	3.0	4
62	Effectiveness of dentifrices with new formulations for the treatment of dentin hypersensitivity - A meta-analysis. <i>American Journal of Dentistry</i> , 2017, 30, 221-226.	0.1	4
63	Artificial intelligence-based diagnostics of molar-incisor-hypomineralization (MIH) on intraoral photographs. <i>Clinical Oral Investigations</i> , 2022, 26, 5923-5930.	3.0	4
64	A comprehensive in vitro comparison of the biological and physicochemical properties of bioactive root canal sealers. <i>Clinical Oral Investigations</i> , 2022, 26, 6209-6222.	3.0	4
65	In-vitro cytocompatibility of self-adhesive dual-curing resin cements on human mesenchymal stem cells (hMSC) and periodontal ligament cells (PDL-hTERT). <i>Dental Materials</i> , 2022, 38, 376-383.	3.5	3
66	Differences in physical characteristics and sealing ability of three tricalcium silicate-based cements used as root-end-filling materials. <i>American Journal of Dentistry</i> , 2017, 30, 185-189.	0.1	3
67	Clinical performance of a new fissure sealant—results from a 2-year randomized clinical trial. <i>Clinical Oral Investigations</i> , 2022, , .	3.0	3
68	Disrupted biomineralization in zebra mussels after exposure to bisphenol-A: Potential implications for molar-incisor hypomineralization. <i>Dental Materials</i> , 2022, 38, 689-699.	3.5	1
69	Treatment Plan and Challenges in Full-Mouth Rehabilitation of a Quadriplegic Patient: A Clinical Report. <i>Journal of Prosthodontics</i> , 2022, 31, 183-189.	3.7	1
70	Response to letter to the editor by Jan Kühnisch. <i>Clinical Oral Investigations</i> , 2020, 24, 2139-2140.	3.0	0