

Karl-Anton Hiller

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,586
citations

147801

31
h-index

197818

49
g-index

72
all docs

72
docs citations

72
times ranked

2673
citing authors

#	ARTICLE	IF	CITATIONS
1	FDI World Dental Federation: clinical criteria for the evaluation of direct and indirect restorationsâ€”update and clinical examples. <i>Clinical Oral Investigations</i> , 2010, 14, 349-366.	3.0	262
2	Influence of Root Canal Disinfectants on Growth Factor Release from Dentin. <i>Journal of Endodontics</i> , 2015, 41, 363-368.	3.1	179
3	EDTA conditioning of dentine promotes adhesion, migration and differentiation of dental pulp stem cells. <i>International Endodontic Journal</i> , 2016, 49, 581-590.	5.0	144
4	Photodynamic biofilm inactivation by SAPYRâ€”An exclusive singlet oxygen photosensitizer. <i>Free Radical Biology and Medicine</i> , 2013, 65, 477-487.	2.9	106
5	Cetylpyridinium Chloride: Mechanism of Action, Antimicrobial Efficacy in Biofilms, and Potential Risks of Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	96
6	Release of prostaglandin E2, IL-6 and IL-8 from human oral epithelial culture models after exposure to compounds of dental materials. <i>European Journal of Oral Sciences</i> , 2000, 108, 442-448.	1.5	86
7	Activation of the Nrf2-regulated antioxidant cell response inhibits HEMA-induced oxidative stress and supports cell viability. <i>Biomaterials</i> , 2015, 56, 114-128.	11.4	84
8	Retrospective clinical investigation and survival analysis on ceramic inlays and partial ceramic crowns: results up to 7 years. <i>Clinical Oral Investigations</i> , 1998, 2, 161-167.	3.0	74
9	Periodontal regeneration of intrabony defects with resorbable and non-resorbable membranes: 30-month results. <i>Journal of Clinical Periodontology</i> , 1997, 24, 17-27.	4.9	73
10	Penetration depth of irrigants into root dentine after sonic, ultrasonic and photoacoustic activation. <i>International Endodontic Journal</i> , 2019, 52, 1210-1217.	5.0	73
11	Three-dimensional culture of dental pulp stem cells in direct contact to tricalcium silicate cements. <i>Clinical Oral Investigations</i> , 2016, 20, 237-246.	3.0	70
12	Cell Homing for Pulp Tissue Engineering with Endogenous Dentin Matrix Proteins. <i>Journal of Endodontics</i> , 2018, 44, 956-962.e2.	3.1	54
13	Patients with local adverse effects from dental alloys: frequency, complaints, symptoms, allergy. <i>Clinical Oral Investigations</i> , 2001, 5, 240-249.	3.0	51
14	Metal content of biopsies adjacent to dental cast alloys. <i>Clinical Oral Investigations</i> , 2003, 7, 92-97.	3.0	49
15	2-Hydroxyethyl methacrylate-induced apoptosis through the ATM- and p53-dependent intrinsic mitochondrial pathway. <i>Biomaterials</i> , 2014, 35, 2890-2904.	11.4	49
16	Retrospective clinical study and survival analysis on partial ceramic crowns: results up to 7 years. <i>Clinical Oral Investigations</i> , 2000, 4, 199-205.	3.0	48
17	GTR therapy of intrabony defects using 2 different bioresorbable membranes: 12-month results. <i>Journal of Clinical Periodontology</i> , 1998, 25, 499-509.	4.9	47
18	Metal content of saliva of patients with and without metal restorations. <i>Clinical Oral Investigations</i> , 2004, 8, 238-242.	3.0	46

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19	Reinforcement of experimental composite materials based on amorphous calcium phosphate with inert fillers. <i>Dental Materials</i> , 2014, 30, 1052-1060.	3.5	45
20	The impact of absorbed photons on antimicrobial photodynamic efficacy. <i>Frontiers in Microbiology</i> , 2015, 6, 706.	3.5	45
21	Effect of temporary cements on the bond strength of ceramic luted to dentin. <i>Dental Materials</i> , 2005, 21, 794-803.	3.5	44
22	Ultrasonic activation of irrigants increases growth factor release from human dentine. <i>Clinical Oral Investigations</i> , 2017, 21, 879-888.	3.0	44
23	Microleakage of silorane- and methacrylate-based class V composite restorations. <i>Clinical Oral Investigations</i> , 2012, 16, 1117-1124.	3.0	39
24	Establishment of an optimized <i>ex vivo</i> system for artificial root canal infection evaluated by use of sodium hypochlorite and the photodynamic therapy. <i>International Endodontic Journal</i> , 2013, 46, 449-457.	5.0	39
25	Antibacterial efficacy of cold atmospheric plasma against <i>Enterococcus faecalis</i> planktonic cultures and biofilms in vitro. <i>PLoS ONE</i> , 2019, 14, e0223925.	2.5	39
26	Interactive effects of LPS and dentine matrix proteins on human dental pulp stem cells. <i>International Endodontic Journal</i> , 2018, 51, 877-888.	5.0	38
27	Antimicrobial efficacy of alternative compounds for use in oral care toward biofilms from caries-associated bacteria in vitro. <i>MicrobiologyOpen</i> , 2019, 8, e00695.	3.0	38
28	Effectiveness and biological compatibility of different generations of dentin adhesives. <i>Clinical Oral Investigations</i> , 2014, 18, 607-613.	3.0	37
29	Clinical evaluation of packable composite resins in Class-II restorations. <i>Clinical Oral Investigations</i> , 2001, 5, 102-107.	3.0	36
30	Dentine matrix proteins: isolation and effects on human pulp cells. <i>International Endodontic Journal</i> , 2018, 51, e278-e290.	5.0	36
31	Marginal Integrity of Partial Ceramic Crowns Within Dentin With Different Luting Techniques and Materials. <i>Operative Dentistry</i> , 2008, 33, 516-525.	1.2	34
32	Ceramic Inlays and Partial Ceramic Crowns: Influence of Remaining Cusp Wall Thickness on the Marginal Integrity and Enamel Crack Formation In Vitro. <i>Operative Dentistry</i> , 2009, 34, 32-42.	1.2	30
33	Partial ceramic crowns. Influence of preparation design and luting material on margin integrity? a scanning electron microscopic study. <i>Clinical Oral Investigations</i> , 2005, 9, 8-17.	3.0	28
34	Controlled, prospective, randomized, clinical split-mouth evaluation of partial ceramic crowns luted with a new, universal adhesive system/resin cement: results after 18 months. <i>Clinical Oral Investigations</i> , 2016, 20, 2481-2492.	3.0	28
35	EDX-analysis of fluoride precipitation on human enamel. <i>Scientific Reports</i> , 2019, 9, 13442.	3.3	24
36	Limited antimicrobial efficacy of oral care antiseptics in microcosm biofilms and phenotypic adaptation of bacteria upon repeated exposure. <i>Clinical Oral Investigations</i> , 2021, 25, 2939-2950.	3.0	24

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37	Postoperative exposure of bioresorbable GTR membranes: effect on healing results. <i>Clinical Oral Investigations</i> , 1997, 1, 109-118.	3.0	22
38	Integrity of Proteins in Human Saliva after Sterilization by Gamma Irradiation. <i>Applied and Environmental Microbiology</i> , 2011, 77, 749-755.	3.1	22
39	Flowable composites for restoration of non-carious cervical lesions: Results after five years. <i>Dental Materials</i> , 2017, 33, e428-e437.	3.5	22
40	Micromorphology of the Adhesive Interface of Self-Adhesive Resin Cements to Enamel and Dentin. <i>Materials</i> , 2021, 14, 492.	2.9	22
41	Oral Health, Oral Microbiota, and Incidence of Stroke-Associated Pneumonia—A Prospective Observational Study. <i>Frontiers in Neurology</i> , 2020, 11, 528056.	2.4	20
42	Phenalen-1-one-Mediated Antimicrobial Photodynamic Therapy: Antimicrobial Efficacy in a Periodontal Biofilm Model and Flow Cytometric Evaluation of Cytoplasmic Membrane Damage. <i>Frontiers in Microbiology</i> , 2018, 9, 688.	3.5	19
43	Self-adhesive Luting of Partial Ceramic Crowns: Selective Enamel Etching Leads to Higher Survival after 6.5 Years In Vivo. <i>Journal of Adhesive Dentistry</i> , 2016, 18, 69-79.	0.5	19
44	Five hundred patients reporting on adverse effects from dental materials: Frequencies, complaints, symptoms, allergies. <i>Dental Materials</i> , 2018, 34, 1756-1768.	3.5	18
45	Functions of transcription factors NF- κ B and Nrf2 in the inhibition of LPS-stimulated cytokine release by the resin monomer HEMA. <i>Dental Materials</i> , 2018, 34, 1661-1678.	3.5	18
46	Clinical performance of polyacid-modified resin restorations using "softstart-polymerization". <i>Clinical Oral Investigations</i> , 1999, 3, 55-61.	3.0	17
47	Flowable composites for restoration of non-carious cervical lesions: Three-year results. <i>Dental Materials</i> , 2017, 33, e136-e145.	3.5	17
48	Randomized clinical split-mouth study on the performance of CAD/CAM-partial ceramic crowns luted with a self-adhesive resin cement or a universal adhesive and a conventional resin cement after 39 months. <i>Journal of Dentistry</i> , 2021, 115, 103837.	4.1	16
49	Interaction between LPS and a dental resin monomer on cell viability in mouse macrophages. <i>Dental Materials</i> , 2016, 32, 1492-1503.	3.5	13
50	Ecological Effects of Daily Antiseptic Treatment on Microbial Composition of Saliva-Grown Microcosm Biofilms and Selection of Resistant Phenotypes. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	13
51	HEMA-induced oxidative stress inhibits NF- κ B nuclear translocation and TNF release from LTA- and LPS-stimulated immunocompetent cells. <i>Dental Materials</i> , 2021, 37, 175-190.	3.5	12
52	Phenotypic Adaptation to Antiseptics and Effects on Biofilm Formation Capacity and Antibiotic Resistance in Clinical Isolates of Early Colonizers in Dental Plaque. <i>Antibiotics</i> , 2022, 11, 688.	3.7	10
53	Debris Removal by Activation of Endodontic Irrigants in Complex Root Canal Systems: A Standardized In-Vitro-Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7331.	2.5	8
54	Transcriptomic Stress Response in <i>Streptococcus mutans</i> following Treatment with a Sublethal Concentration of Chlorhexidine Digluconate. <i>Microorganisms</i> , 2022, 10, 561.	3.6	8

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55	Flavin-containing enzymes as a source of reactive oxygen species in HEMA-induced apoptosis. Dental Materials, 2017, 33, e255-e271.	3.5	7
56	One-year results of a novel self-adhesive bulk-fill restorative and a conventional bulk-fill composite in class II cavities—a randomized clinical split-mouth study. Clinical Oral Investigations, 2022, 26, 449-461.	3.0	7
57	Influence of selective caries excavation on marginal penetration of class II composite restorations in vitro. European Journal of Oral Sciences, 2020, 128, 405-414.	1.5	6
58	Different mechanisms of oxygenator failure and high plasma von Willebrand factor antigen influence success and survival of venovenous extracorporeal membrane oxygenation. PLoS ONE, 2021, 16, e0248645.	2.5	5
59	Influence of autoclave sterilization on bond strength between zirconia frameworks and Ti-base abutments using different resin cements. Journal of Prosthetic Dentistry, 2022, 127, 617.e1-617.e6.	2.8	5
60	The Latest Time Point of Retreatment (LTPR) as a Novel Method to Determine Antibacterial Effects for Binary Use of Cold Atmospheric Plasma and Conventional Agents. Frontiers in Microbiology, 2020, 11, 576500.	3.5	4
61	Isolation of Endogenous TGF- β 1 from Root Canals for Pulp Tissue Engineering: A Translational Study. Biology, 2022, 11, 227.	2.8	4
62	Retrospective Cohort Study on Potential Risk Factors for Repeated Need of Dental Rehabilitation under General Anesthesia in a Private Pediatric Dental Practice. Children, 2022, 9, 855.	1.5	4
63	Detection of pulsed blood flow through a molar pulp chamber and surrounding tissue in vitro. Clinical Oral Investigations, 2019, 23, 1121-1132.	3.0	3
64	Radiographic Bone Loss and Its Relation to Patient-Specific Risk Factors, LDL Cholesterol, and Vitamin D: A Cross-Sectional Study. Nutrients, 2022, 14, 864.	4.1	3
65	Non-allergy-related dental and orofacial findings in 625 patients reporting on adverse effects from dental materials. Dental Materials, 2021, 37, 1402-1415.	3.5	1
66	Three-Dimensional Human Cell Cultures for Cytotoxicity Testing of Dental Filling Materials. Acta Stomatologica Croatica, 2014, 48, 99-108.	1.0	1
67	Impact of access cavity cleaning on the seal of postendodontic composite restorations <i>in vitro</i> . International Endodontic Journal, 0, , .	5.0	1
68	Influence of HEMA on LPS- and LTA-stimulated IL-6 release from human dental pulp cells. Dental Materials, 2022, , .	3.5	0
69	Title is missing!. , 2019, 14, e0223925.		0
70	Title is missing!. , 2019, 14, e0223925.		0
71	Title is missing!. , 2019, 14, e0223925.		0
72	Title is missing!. , 2019, 14, e0223925.		0