

Christian Hannig

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,323
citations

236925

25
h-index

223800

46
g-index

75
all docs

75
docs citations

75
times ranked

2518
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials in preventive dentistry. <i>Nature Nanotechnology</i> , 2010, 5, 565-569.	31.5	324
2	The oral cavityâ€™a key system to understand substratum-dependent bioadhesion on solid surfaces in man. <i>Clinical Oral Investigations</i> , 2009, 13, 123-139.	3.0	236
3	Visualization of adherent micro-organisms using different techniques. <i>Journal of Medical Microbiology</i> , 2010, 59, 1-7.	1.8	137
4	The Pellicle and Erosion. <i>Monographs in Oral Science</i> , 2014, 25, 206-214.	1.8	103
5	Effect of bleaching on subsurface micro-hardness of composite and a polyacid modified composite. <i>Dental Materials</i> , 2007, 23, 198-203.	3.5	87
6	Bioadhesion in the oral cavity and approaches for biofilm management by surface modifications. <i>Clinical Oral Investigations</i> , 2020, 24, 4237-4260.	3.0	87
7	Bacterial colonization of enamel in situ investigated using fluorescence in situ hybridization. <i>Journal of Medical Microbiology</i> , 2009, 58, 1359-1366.	1.8	78
8	Polyphenolic beverages reduce initial bacterial adherence to enamel in situ. <i>Journal of Dentistry</i> , 2009, 37, 560-566.	4.1	73
9	The mucosal pellicle â€™ An underestimated factor in oral physiology. <i>Archives of Oral Biology</i> , 2017, 80, 144-152.	1.8	71
10	Salivary amylase â€™ The enzyme of unspecialized euryphagous animals. <i>Archives of Oral Biology</i> , 2015, 60, 1162-1176.	1.8	60
11	Visualization of initial bacterial colonization on dentine and enamel in situ. <i>Journal of Microbiological Methods</i> , 2010, 81, 166-174.	1.6	53
12	Electron microscopic detection of salivary <i>±</i>â€™amylase in the pellicle formed <i>in situ</i>. <i>European Journal of Oral Sciences</i> , 2004, 112, 503-509.	1.5	46
13	Impact of a nonâ€™fluoridated microcrystalline hydroxyapatite dentifrice on enamel caries progression in highly cariesâ€™susceptible orthodontic patients: A randomized, controlled 6â€™month trial. <i>Journal of Investigative and Clinical Dentistry</i> , 2019, 10, e12399.	1.8	46
14	Effects of Cistus-tea on bacterial colonization and enzyme activities of the in situ pellicle. <i>Journal of Dentistry</i> , 2008, 36, 540-545.	4.1	45
15	The Polyphenolic Composition of Cistus incanus Herbal Tea and Its Antibacterial and Anti-adherent Activity against <i>Streptococcus mutans</i> . <i>Planta Medica</i> , 2015, 81, 1727-1735.	1.3	44
16	Protective effect of the in situ pellicle on dentin erosionâ€™an ex vivo pilot study. <i>Archives of Oral Biology</i> , 2007, 52, 444-449.	1.8	42
17	Application of Plant Extracts for the Prevention of Dental Erosion: An in situ/in vitro Study. <i>Caries Research</i> , 2015, 49, 477-487.	2.0	38
18	Efficacy and tolerability of two home bleaching systems having different peroxide delivery. <i>Clinical Oral Investigations</i> , 2007, 11, 321-329.	3.0	35

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19	Characterisation of lysozyme activity in the in situ pellicle using a fluorimetric assay. <i>Clinical Oral Investigations</i> , 2009, 13, 15-21.	3.0	34
20	Non-destructive visualisation of protective proteins in the in situ pellicle. <i>Clinical Oral Investigations</i> , 2007, 11, 211-216.	3.0	31
21	Fatty Acid Profile of the Initial Oral Biofilm (Pellicle): an In Situ Study. <i>Lipids</i> , 2013, 48, 929-937.	1.7	31
22	Targeted metabolomics of pellicle and saliva in children with different caries activity. <i>Scientific Reports</i> , 2020, 10, 697.	3.3	30
23	Detection of carious lesions utilizing depolarization imaging by polarization sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	30
24	Identification of New Compounds from Sage Flowers (<i>Salvia officinalis</i> L.) as Markers for Quality Control and the Influence of the Manufacturing Technology on the Chemical Composition and Antibacterial Activity of Sage Flower Extracts. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1843-1853.	5.2	28
25	Preventive Applications of Polyphenols in Dentistry—A Review. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4892.	4.1	28
26	Detection and activity of peroxidase in the in situ formed enamel pellicle. <i>Archives of Oral Biology</i> , 2008, 53, 849-858.	1.8	27
27	Proteomic Analysis of the Initial Oral Pellicle in Caries-Active and Caries-Free Individuals. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800143.	1.6	27
28	Do edible oils reduce bacterial colonization of enamel in situ?. <i>Clinical Oral Investigations</i> , 2013, 17, 649-658.	3.0	24
29	Volumetry of human molars with flat panel-based volume CT in vitro. <i>Clinical Oral Investigations</i> , 2006, 10, 253-257.	3.0	22
30	Influence of different restorative materials on lysozyme and amylase activity of the salivary pellicle in situ. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 755-761.	4.0	22
31	A comprehensive method for determination of fatty acids in the initial oral biofilm (pellicle). <i>Journal of Lipid Research</i> , 2012, 53, 2226-2230.	4.2	22
32	Influence of pure fluorides and stannous ions on the initial bacterial colonization in situ. <i>Scientific Reports</i> , 2019, 9, 18499.	3.3	22
33	Detection of salivary α -amylase and lysozyme exposed on the pellicle formed in situ on different materials. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 98-103.	4.0	20
34	Impact of oral astringent stimuli on surface charge and morphology of the protein-rich pellicle at the tooth-saliva interphase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 451-458.	5.0	20
35	In vivo imaging in the oral cavity by endoscopic optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	20
36	In vivo imaging of human oral hard and soft tissues by polarization-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	17

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37	Salivary enzyme activity in anorexic persons—a controlled clinical trial. <i>Clinical Oral Investigations</i> , 2015, 19, 1981-1989.	3.0	16
38	Impact of the springtail's cuticle nanotopography on bioadhesion and biofilm formation <i>in vitro</i> and in the oral cavity. <i>Royal Society Open Science</i> , 2018, 5, 171742.	2.4	15
39	Diffusion of peroxides through dentine <i>in vitro</i> with and without prior use of a desensitizing varnish. <i>Clinical Oral Investigations</i> , 2011, 15, 863-868.	3.0	14
40	Effect of <i>Inula viscosa</i> on the pellicle's protective properties and initial bioadhesion <i>in-situ</i> . <i>Archives of Oral Biology</i> , 2016, 71, 87-96.	1.8	13
41	The Bleeding on Brushing Index: a novel index in preventive dentistry. <i>International Dental Journal</i> , 2017, 67, 299-307.	2.6	13
42	Is it really penetration? Locomotion of devitalized <i>Enterococcus faecalis</i> cells within dentinal tubules of bovine teeth. <i>Archives of Oral Biology</i> , 2017, 83, 289-296.	1.8	13
43	Effect of CPP/ACP on Initial Bioadhesion to Enamel and Dentin <i>In Situ</i> . <i>Scientific World Journal</i> , The, 2014, 2014, 1-8.	2.1	12
44	Comparison of initial oral microbiomes of young adults with and without cavitated dentin caries lesions using an <i>in situ</i> biofilm model. <i>Scientific Reports</i> , 2018, 8, 14010.	3.3	12
45	The association between socioeconomic status, psychopathological symptom burden in mothers, and early childhood caries of their children. <i>PLoS ONE</i> , 2019, 14, e0224509.	2.5	12
46	An Approach for a Mathematical Description of Human Root Canals by Means of Elementary Parameters. <i>Journal of Endodontics</i> , 2017, 43, 536-543.	3.1	9
47	Effects of Endodontic Irrigants on Material and Surface Properties of Biocompatible Thermoplastics. <i>Dentistry Journal</i> , 2019, 7, 26.	2.3	9
48	Effect of <i>fragaria vesca</i> , <i>hamamelis</i> and <i>tormentil</i> on the initial bacterial colonization <i>in situ</i> . <i>Archives of Oral Biology</i> , 2020, 118, 104853.	1.8	9
49	Applicability of common methods for short time erosion analysis <i>in vitro</i> . <i>Oral Health & Preventive Dentistry</i> , 2008, 6, 239-48.	0.5	9
50	Targeted immobilisation of lysozyme in the enamel pellicle from different solutions. <i>Clinical Oral Investigations</i> , 2011, 15, 65-73.	3.0	8
51	Application of optical and spectroscopic technologies for the characterization of carious lesions <i>in vitro</i> . <i>Biomedizinische Technik</i> , 2018, 63, 595-602.	0.8	8
52	Activity and distribution pattern of enzymes in the <i>in-situ</i> pellicle of children. <i>Archives of Oral Biology</i> , 2019, 104, 24-32.	1.8	8
53	Is it really penetration? Part 2. Locomotion of <i>Enterococcus faecalis</i> cells within dentinal tubules of bovine teeth. <i>Clinical Oral Investigations</i> , 2019, 23, 4325-4334.	3.0	8
54	Enzyme activities in parotid saliva of patients with the restrictive type of anorexia nervosa. <i>Archives of Oral Biology</i> , 2017, 76, 7-13.	1.8	7

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55	Mapping of the Micro-Mechanical Properties of Human Root Dentin by Means of Microindentation. <i>Materials</i> , 2021, 14, 505.	2.9	7
56	Enzymes in the in situ pellicle of children with different caries activity. <i>European Journal of Oral Sciences</i> , 2015, 123, 319-326.	1.5	6
57	Continuous Measurement of Three-Dimensional Root Canal Curvature Using Cone-Beam Computed and Micro-Computed Tomography: A Comparative Study. <i>Dentistry Journal</i> , 2020, 8, 16.	2.3	6
58	Caries and periodontitis associated bacteria are more abundant in human saliva compared to other great apes. <i>Archives of Oral Biology</i> , 2020, 111, 104648.	1.8	6
59	Odontoblast-like differentiation and mineral formation of pulpsphere derived cells on human root canal dentin in vitro. <i>Head & Face Medicine</i> , 2017, 13, 23.	2.1	5
60	Modification of the Lipid Profile of the Initial Oral Biofilm In Situ Using Linseed Oil as Mouthwash. <i>Nutrients</i> , 2021, 13, 989.	4.1	5
61	Correlation between Lesion Progression and Depolarization Assessed by Polarization-Sensitive Optical Coherence Tomography. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2971.	2.5	4
62	Mucins 5b and 7 and secretory IgA in the oral acquired pellicle of children with caries and caries-free children. <i>Archives of Oral Biology</i> , 2022, 134, 105314.	1.8	4
63	Initial microbial colonization of enamel in children with different levels of caries activity: An in situ study. <i>American Journal of Dentistry</i> , 2017, 30, 171-176.	0.1	4
64	Cross-sectional and en-face depolarization imaging for the assessment of dental lesions. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 301-304.	0.4	3
65	Quantification of Bacterial Colonization in Dental Hard Tissues Using Optimized Molecular Biological Methods. <i>Frontiers in Genetics</i> , 2020, 11, 599137.	2.3	3
66	An Automated Measurement Method for the Endodontic Working Width of Lower Molars by Means of Parametric Models Using Cone-beam Computed Tomography and Micro-Computed Tomography. <i>Journal of Endodontics</i> , 2021, 47, 1790-1795.	3.1	3
67	Bioadhesion on Textured Interfaces in the Human Oral Cavity—An In Situ Study. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1157.	4.1	3
68	Does diet influence salivary enzyme activities in elephant species?. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017, 187, 213-226.	1.5	2
69	Detection of carious lesions utilizing depolarization imaging by polarization sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	2
70	Quantification of Bacterial DNA from Infected Human Root Canals Using qPCR and DAPI after Disinfection with Established and Novel Irrigation Protocols. <i>Materials</i> , 2022, 15, 1911.	2.9	1
71	Visualization of interfacial adhesive defects at dental restorations with spectral domain and polarization sensitive optical coherence tomography. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 559-562.	0.4	0
72	Nutritional influences on enzyme activities in saliva of Asian and African elephants. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2021, 191, 955-970.	1.5	0

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73	Direct and indirect effects of different dentifrices on the initial bacterial colonization of enamel in situ overnight. International Journal of Dental Hygiene, 2023, 21, 178-187.	1.9	0