

Joachim Krois

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

3,048
citations

257450

24
h-index

168389

53
g-index

68
all docs

68
docs citations

68
times ranked

2460
citing authors

#	ARTICLE	IF	CITATIONS
1	Data Dentistry: How Data Are Changing Clinical Care and Research. Journal of Dental Research, 2022, 101, 21-29.	5.2	29
2	Association between patient-, tooth- and treatment-level factors and root canal treatment failure: A retrospective longitudinal and machine learning study. Journal of Dentistry, 2022, 117, 103937.	4.1	7
3	Big Data and Complex Data Analytics: Breaking Peer Review?. Journal of Dental Research, 2022, 101, 369-370.	5.2	7
4	Precision dentistry—what it is, where it fails (yet), and how to get there. Clinical Oral Investigations, 2022, 26, 3395-3403.	3.0	15
5	Deep learning for caries detection: A systematic review. Journal of Dentistry, 2022, 122, 104115.	4.1	68
6	Cost-effectiveness of Artificial Intelligence as a Decision-Support System Applied to the Detection and Grading of Melanoma, Dental Caries, and Diabetic Retinopathy. JAMA Network Open, 2022, 5, e220269.	5.9	36
7	Cost-effectiveness of AI for caries detection: randomized trial. Journal of Dentistry, 2022, 119, 104080.	4.1	12
8	Patients' Perspectives on Artificial Intelligence in Dentistry: A Controlled Study. Journal of Clinical Medicine, 2022, 11, 2143.	2.4	8
9	Self-Supervised Learning Methods for Label-Efficient Dental Caries Classification. Diagnostics, 2022, 12, 1237.	2.6	8
10	Segmentation of Dental Restorations on Panoramic Radiographs Using Deep Learning. Diagnostics, 2022, 12, 1316.	2.6	8
11	Benchmarking Deep Learning Models for Tooth Structure Segmentation. Journal of Dental Research, 2022, 101, 1343-1349.	5.2	11
12	Towards Trustworthy AI in Dentistry. Journal of Dental Research, 2022, 101, 1263-1268.	5.2	16
13	Hyperparameter Tuning and Automatic Image Augmentation for Deep Learning-Based Angle Classification on Intraoral Photographs—A Retrospective Study. Diagnostics, 2022, 12, 1526.	2.6	1
14	Artificial intelligence in dentistry: What it is, how it can improve dental care and what should dentists know?. BDJ in Practice, 2022, 35, 12-15.	0.1	1
15	Augmented Vision for Dental Students' Education in Detecting Proximal Carious Lesions on Bitewing Radiographs: A Randomized Controlled Trial. Caries Research, 2022, 56, 197-205.	2.0	0
16	Knowledge, attitudes, and beliefs regarding molar incisor hypomineralization (MIH) amongst German dental students. International Journal of Paediatric Dentistry, 2021, 31, 486-495.	1.8	11
17	Secondary caries risk of different adhesive strategies and restorative materials in permanent teeth: Systematic review and network meta-analysis. Journal of Dentistry, 2021, 104, 103541.	4.1	20
18	Underscreening and undertreatment? Periodontal service provision in very old Germans. Clinical Oral Investigations, 2021, 25, 3117-3129.	3.0	4

#	ARTICLE	IF	CITATIONS
19	Dental service utilization in the very old: an insurance database analysis from northeast Germany. <i>Clinical Oral Investigations</i> , 2021, 25, 2765-2777.	3.0	10
20	Long-term costs of post-restorations: 7-year practice-based results from Germany. <i>Clinical Oral Investigations</i> , 2021, 25, 2175-2181.	3.0	5
21	Demystifying artificial intelligence and deep learning in dentistry. <i>Brazilian Oral Research</i> , 2021, 35, e094.	1.4	14
22	Generalizability of Deep Learning Models for Caries Detection in Near-Infrared Light Transillumination Images. <i>Journal of Clinical Medicine</i> , 2021, 10, 961.	2.4	20
23	Generalizability of deep learning models for dental image analysis. <i>Scientific Reports</i> , 2021, 11, 6102.	3.3	33
24	Cost-effectiveness of glass hybrid versus composite in a multi-country randomized trial. <i>Journal of Dentistry</i> , 2021, 107, 103614.	4.1	8
25	Artificial intelligence in dental research: Checklist for authors, reviewers, readers. <i>Journal of Dentistry</i> , 2021, 107, 103610.	4.1	136
26	Impact of Image Context on Deep Learning for Classification of Teeth on Radiographs. <i>Journal of Clinical Medicine</i> , 2021, 10, 1635.	2.4	6
27	Classification of Dental Radiographs Using Deep Learning. <i>Journal of Clinical Medicine</i> , 2021, 10, 1496.	2.4	15
28	Detecting white spot lesions on dental photography using deep learning: A pilot study. <i>Journal of Dentistry</i> , 2021, 107, 103615.	4.1	36
29	Barriers and Enablers for Artificial Intelligence in Dental Diagnostics: A Qualitative Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 1612.	2.4	18
30	Deep learning for cephalometric landmark detection: systematic review and meta-analysis. <i>Clinical Oral Investigations</i> , 2021, 25, 4299-4309.	3.0	65
31	Costs for Statutorily Insured Dental Services in Older Germans 2012â€“2017. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6669.	2.6	3
32	Association, prediction, generalizability: Cross-center validity of predicting tooth loss in periodontitis patients. <i>Journal of Dentistry</i> , 2021, 109, 103662.	4.1	5
33	Long-term treatment costs and cost-effectiveness of restoration repair versus replacement. <i>Dental Materials</i> , 2021, 37, e375-e381.	3.5	4
34	Proximal caries infiltration â€“ Pragmatic RCT with 4 years of follow-up. <i>Journal of Dentistry</i> , 2021, 111, 103733.	4.1	9
35	Artificial intelligence for caries detection: Randomized trial. <i>Journal of Dentistry</i> , 2021, 115, 103849.	4.1	48
36	Machine Learning for Health: Algorithm Auditing & Quality Control. <i>Journal of Medical Systems</i> , 2021, 45, 105.	3.6	23

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37	Exploring bias in F-score computation methods of multi-class segmentation models. , 2021, , .		0
38	Clustering effects of oral conditions based on clinical and radiographic examinations. Clinical Oral Investigations, 2020, 24, 3001-3008.	3.0	4
39	Deep learning for caries lesion detection in near-infrared light transillumination images: A pilot study. Journal of Dentistry, 2020, 92, 103260.	4.1	101
40	Impact of SARS-CoV2 (Covid-19) on dental practices: Economic analysis. Journal of Dentistry, 2020, 99, 103387.	4.1	97
41	Long-term periodontitis treatment costs according to the 2018 classification of periodontal diseases. Journal of Dentistry, 2020, 99, 103417.	4.1	6
42	Detecting caries lesions of different radiographic extension on bitewings using deep learning. Journal of Dentistry, 2020, 100, 103425.	4.1	141
43	Maintaining pulpal vitality: Cost-effectiveness analysis on carious tissue removal and direct pulp capping. Journal of Dentistry, 2020, 96, 103330.	4.1	15
44	Prosthetic treatment patterns in the very old: an insurance database analysis from Northeast Germany. Clinical Oral Investigations, 2020, 24, 3981-3995.	3.0	6
45	Secondary caries: what is it, and how it can be controlled, detected, and managed?. Clinical Oral Investigations, 2020, 24, 1869-1876.	3.0	81
46	Artificial Intelligence in Dentistry: Chances and Challenges. Journal of Dental Research, 2020, 99, 769-774.	5.2	311
47	Prevalence, Incidence, and Burden of Molar Incisor Hypomineralization. , 2020, , 21-31.		0
48	Evaluating Modeling and Validation Strategies for Tooth Loss. Journal of Dental Research, 2019, 98, 1088-1095.	5.2	24
49	Convolutional neural networks for dental image diagnostics: A scoping review. Journal of Dentistry, 2019, 91, 103226.	4.1	217
50	Comparison of periodontitis patientsâ€™ classification in the 2018 versus 1999 classification. Journal of Clinical Periodontology, 2019, 46, 908-917.	4.9	59
51	Deep Learning for the Radiographic Detection of Apical Lesions. Journal of Endodontics, 2019, 45, 917-922.e5.	3.1	185
52	Deep Learning for the Radiographic Detection of Periodontal Bone Loss. Scientific Reports, 2019, 9, 8495.	3.3	229
53	Predictors for tooth loss in periodontitis patients: Systematic review and meta-analysis. Journal of Clinical Periodontology, 2019, 46, 699-712.	4.9	103
54	Comparator Choice in Studies Testing Endodontic Instrument Fatigue Resistance: A Network Analysis. Journal of Endodontics, 2019, 45, 784-790.	3.1	1

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55	Trends in caries experience in the permanent dentition in Germany 1997–2014, and projection to 2030: Morbidity shifts in an aging society. <i>Scientific Reports</i> , 2019, 9, 5534.	3.3	45
56	Outcome and comparator choice in molar incisor hypomineralisation (MIH) intervention studies: a systematic review and social network analysis. <i>BMJ Open</i> , 2019, 9, e028352.	1.9	8
57	Cost-effectiveness of the Hall Technique in a Randomized Trial. <i>Journal of Dental Research</i> , 2019, 98, 61-67.	5.2	22
58	The impact of demographic, health-related and social factors on dental services utilization: Systematic review and meta-analysis. <i>Journal of Dentistry</i> , 2018, 75, 1-6.	4.1	64
59	Global burden of molar incisor hypomineralization. <i>Journal of Dentistry</i> , 2018, 68, 10-18.	4.1	180
60	More teeth in more elderly: Periodontal treatment needs in Germany 1997–2030. <i>Journal of Clinical Periodontology</i> , 2018, 45, 1400-1407.	4.9	32
61	Cost-effectiveness of managing cavitated primary molar caries lesions: A randomized trial in Germany. <i>Journal of Dentistry</i> , 2018, 78, 40-45.	4.1	20
62	Root caries experience in Germany 1997 to 2014: Analysis of trends and identification of risk factors. <i>Journal of Dentistry</i> , 2018, 78, 100-105.	4.1	17
63	Amalgam Alternatives: Cost-Effectiveness and Value of Information Analysis. <i>Journal of Dental Research</i> , 2018, 97, 1317-1323.	5.2	19
64	Sealing or infiltrating proximal carious lesions. <i>Journal of Dentistry</i> , 2018, 74, 15-22.	4.1	22
65	GIS-based multi-criteria evaluation to identify potential sites for soil and water conservation techniques in the Ronquillo watershed, northern Peru. <i>Applied Geography</i> , 2014, 51, 131-142.	3.7	119
66	Hydrological evolution during the last 15kyr in the Tso Kar lake basin (Ladakh, India), derived from geomorphological, sedimentological and palynological records. <i>Quaternary Science Reviews</i> , 2010, 29, 1138-1155.	3.0	191