Joachim Krois

List of Publications by Year
in descending order

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	Artificial Intelligence in Dentistry: Chances and Challenges. Journal of Dental Research, 2020, 99, 769-774.	5.2	311
2	Deep Learning for the Radiographic Detection of Periodontal Bone Loss. Scientific Reports, 2019, 9, 8495.	3.3	229
3	Convolutional neural networks for dental image diagnostics: A scoping review. Journal of Dentistry, 2019, 91, 103226.	4.1	217
4	Hydrological evolution during the last 15kyr in the Tso Kar lake basin (Ladakh, India), derived from geomorphological, sedimentological and palynological records. Quaternary Science Reviews, 2010, 29, 1138-1155.	3.0	191
5	Deep Learning for the Radiographic Detection of Apical Lesions. Journal of Endodontics, 2019, 45, 917-922.e5.	3.1	185
6	Global burden of molar incisor hypomineralization. Journal of Dentistry, 2018, 68, 10-18.	4.1	180
7	Detecting caries lesions of different radiographic extension on bitewings using deep learning. Journal of Dentistry, 2020, 100, 103425.	4.1	141
8	Artificial intelligence in dental research: Checklist for authors, reviewers, readers. Journal of Dentistry, 2021, 107, 103610.	4.1	136
9	GIS-based multi-criteria evaluation to identify potential sites for soil and water conservation techniques in the Ronquillo watershed, northern Peru. Applied Geography, 2014, 51, 131-142.	3.7	119
10	Predictors for tooth loss in periodontitis patients: Systematic review and meta‐analysis. Journal of Clinical Periodontology, 2019, 46, 699-712.	4.9	103
11	Deep learning for caries lesion detection in near-infrared light transillumination images: A pilot study. Journal of Dentistry, 2020, 92, 103260.	4.1	101
12	Impact of SARS-CoV2 (Covid-19) on dental practices: Economic analysis. Journal of Dentistry, 2020, 99, 103387.	4.1	97
13	Secondary caries: what is it, and how it can be controlled, detected, and managed?. Clinical Oral Investigations, 2020, 24, 1869-1876.	3.0	81
14	Deep learning for caries detection: A systematic review. Journal of Dentistry, 2022, 122, 104115.	4.1	68
15	Deep learning for cephalometric landmark detection: systematic review and meta-analysis. Clinical Oral Investigations, 2021, 25, 4299-4309.	3.0	65
16	The impact of demographic, health-related and social factors on dental services utilization: Systematic review and meta-analysis. Journal of Dentistry, 2018, 75, 1-6.	4.1	64
17	Comparison of periodontitis patients' classification in the 2018 versus 1999 classification. Journal of Clinical Periodontology, 2019, 46, 908-917.	4.9	59
18	Artificial intelligence for caries detection: Randomized trial. Journal of Dentistry, 2021, 115, 103849.	4.1	48

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19	Trends in caries experience in the permanent dentition in Germany 1997–2014, and projection to 2030: Morbidity shifts in an aging society. Scientific Reports, 2019, 9, 5534.	3.3	45
20	Detecting white spot lesions on dental photography using deep learning: A pilot study. Journal of Dentistry, 2021, 107, 103615.	4.1	36
21	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
22	Generalizability of deep learning models for dental image analysis. Scientific Reports, 2021, 11, 6102.	3.3	33
23	More teeth in more elderly: Periodontal treatment needs in Germany 1997–2030. Journal of Clinical Periodontology, 2018, 45, 1400-1407.	4.9	32
24	Data Dentistry: How Data Are Changing Clinical Care and Research. Journal of Dental Research, 2022, 101, 21-29.	5.2	29
25	Evaluating Modeling and Validation Strategies for Tooth Loss. Journal of Dental Research, 2019, 98, 1088-1095.	5.2	24
26	Machine Learning for Health: Algorithm Auditing & Quality Control. Journal of Medical Systems, 2021, 45, 105.	3.6	23
27	Sealing or infiltrating proximal carious lesions. Journal of Dentistry, 2018, 74, 15-22.	4.1	22
28	Cost-effectiveness of the Hall Technique in a Randomized Trial. Journal of Dental Research, 2019, 98, 61-67.	5.2	22
29	Cost-effectiveness of managing cavitated primary molar caries lesions: A randomized trial in Germany. Journal of Dentistry, 2018, 78, 40-45.	4.1	20
30	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
31	Generalizability of Deep Learning Models for Caries Detection in Near-Infrared Light Transillumination Images. Journal of Clinical Medicine, 2021, 10, 961.	2.4	20
32	Amalgam Alternatives: Cost-Effectiveness and Value of Information Analysis. Journal of Dental Research, 2018, 97, 1317-1323.	5.2	19
33	Barriers and Enablers for Artificial Intelligence in Dental Diagnostics: A Qualitative Study. Journal of Clinical Medicine, 2021, 10, 1612.	2.4	18
34	Root caries experience in Germany 1997 to 2014: Analysis of trends and identification of risk factors. Journal of Dentistry, 2018, 78, 100-105.	4.1	17
35	Towards Trustworthy AI in Dentistry. Journal of Dental Research, 2022, 101, 1263-1268.	5.2	16
36	Maintaining pulpal vitality: Cost-effectiveness analysis on carious tissue removal and direct pulp capping. Journal of Dentistry, 2020, 96, 103330.	4.1	15

#	ARTICLE	IF	CITATIONS
37	Classification of Dental Radiographs Using Deep Learning. Journal of Clinical Medicine, 2021, 10, 1496.	2.4	15
38	Precision dentistry—what it is, where it fails (yet), and how to get there. Clinical Oral Investigations, 2022, 26, 3395-3403.	3.0	15
39	Demystifying artificial intelligence and deep learning in dentistry. Brazilian Oral Research, 2021, 35, e094.	1.4	14
40	Cost-effectiveness of AI for caries detection: randomized trial. Journal of Dentistry, 2022, 119, 104080.	4.1	12
41	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
42	Benchmarking Deep Learning Models for Tooth Structure Segmentation. Journal of Dental Research, 2022, 101, 1343-1349.	5.2	11
43	Dental service utilization in the very old: an insurance database analysis from northeast Germany. Clinical Oral Investigations, 2021, 25, 2765-2777.	3.0	10
44	Proximal caries infiltration – Pragmatic RCT with 4 years of follow-up. Journal of Dentistry, 2021, 111, 103733.	4.1	9
45	Outcome and comparator choice in molar incisor hypomineralisation (MIH) intervention studies: a systematic review and social network analysis. BMJ Open, 2019, 9, e028352.	1.9	8
46	Cost-effectiveness of glass hybrid versus composite in a multi-country randomized trial. Journal of Dentistry, 2021, 107, 103614.	4.1	8
47	Patients' Perspectives on Artificial Intelligence in Dentistry: A Controlled Study. Journal of Clinical Medicine, 2022, 11, 2143.	2.4	8
48	Self-Supervised Learning Methods for Label-Efficient Dental Caries Classification. Diagnostics, 2022, 12, 1237.	2.6	8
49	Segmentation of Dental Restorations on Panoramic Radiographs Using Deep Learning. Diagnostics, 2022, 12, 1316.	2.6	8
50	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
51	Big Data and Complex Data Analytics: Breaking Peer Review?. Journal of Dental Research, 2022, 101, 369-370.	5.2	7
52	Long-term periodontitis treatment costs according to the 2018 classification of periodontal diseases. Journal of Dentistry, 2020, 99, 103417.	4.1	6
53	Prosthetic treatment patterns in the very old: an insurance database analysis from Northeast Germany. Clinical Oral Investigations, 2020, 24, 3981-3995.	3.0	6
54	Impact of Image Context on Deep Learning for Classification of Teeth on Radiographs. Journal of Clinical Medicine, 2021, 10, 1635.	2.4	6

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55	Long-term costs of post-restorations: 7-year practice-based results from Germany. Clinical Oral Investigations, 2021, 25, 2175-2181.	3.0	5
56	Association, prediction, generalizability: Cross-center validity of predicting tooth loss in periodontitis patients. Journal of Dentistry, 2021, 109, 103662.	4.1	5
57	Clustering effects of oral conditions based on clinical and radiographic examinations. Clinical Oral Investigations, 2020, 24, 3001-3008.	3.0	4
58	Underscreening and undertreatment? Periodontal service provision in very old Germans. Clinical Oral Investigations, 2021, 25, 3117-3129.	3.0	4
59	Long-term treatment costs and cost-effectiveness of restoration repair versus replacement. Dental Materials, 2021, 37, e375-e381.	3.5	4
60	Costs for Statutorily Insured Dental Services in Older Germans 2012â€"2017. International Journal of Environmental Research and Public Health, 2021, 18, 6669.	2.6	3
61	Comparator Choice in Studies Testing Endodontic Instrument Fatigue Resistance: A Network Analysis. Journal of Endodontics, 2019, 45, 784-790.	3.1	1
62	Hyperparameter Tuning and Automatic Image Augmentation for Deep Learning-Based Angle Classification on Intraoral Photographsâ€"A Retrospective Study. Diagnostics, 2022, 12, 1526.	2.6	1
63	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
64	Prevalence, Incidence, and Burden of Molar Incisor Hypomineralization. , 2020, , 21-31.		0
65	Exploring bias in F-score computation methods of multi-class segmentation models. , 2021, , .		0
66	Augmented Vision for Dental Studentsâ€™ Education in Detecting Proximal Carious Lesions on Bitewing Radiographs: A Randomized Controlled Trial. Caries Research, 2022, 56, 197-205.	2.0	0