

Bennett Tochukwu Amaechi

List of Publications by Year in descending order

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89
papers

2,076
citations

279798

23
h-index

276875

41
g-index

90
all docs

90
docs citations

90
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	Terminology of Erosive Tooth Wear: Consensus Report of a Workshop Organized by the ORCA and the Cariology Research Group of the IADR. <i>Caries Research</i> , 2020, 54, 2-6.	2.0	155
2	Correlation of quantitative light-induced fluorescence and optical coherence tomography applied for detection and quantification of early dental caries. <i>Journal of Biomedical Optics</i> , 2003, 8, 642.	2.6	111
3	Thermophotonic radar imaging: An emissivity-normalized modality with advantages over phase lock-in thermography. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	99
4	Quantitative light-induced fluorescence: A potential tool for general dental assessment. <i>Journal of Biomedical Optics</i> , 2002, 7, 7.	2.6	82
5	Comparative efficacy of a hydroxyapatite and a fluoride toothpaste for prevention and remineralization of dental caries in children. <i>BDJ Open</i> , 2019, 5, 18.	2.1	79
6	Fluorides and Non-Fluoride Remineralization Systems. <i>Monographs in Oral Science</i> , 2013, 23, 15-26.	1.8	78
7	Emerging technologies for diagnosis of dental caries: The road so far. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	69
8	Overview of Calcium Phosphates used in Biomimetic Oral Care. <i>Open Dentistry Journal</i> , 2018, 12, 406-423.	0.5	69
9	Antimicrobial activity of nanoemulsion on cariogenic <i>Streptococcus mutans</i> . <i>Archives of Oral Biology</i> , 2011, 56, 437-445.	1.8	65
10	Anti-cariogenic effect of a cetylpyridinium chloride-containing nanoemulsion. <i>Journal of Dentistry</i> , 2010, 38, 742-749.	4.1	54
11	Antimicrobial activity of nanoemulsion on cariogenic planktonic and biofilm organisms. <i>Archives of Oral Biology</i> , 2012, 57, 15-22.	1.8	53
12	Remineralization Therapies for Initial Caries Lesions. <i>Current Oral Health Reports</i> , 2015, 2, 95-101.	1.6	44
13	Current erosion indices—flawed or valid? Summary. <i>Clinical Oral Investigations</i> , 2008, 12, 59-63.	3.0	42
14	Remineralization of natural early caries lesions in vitro by P ₁₁ monitored with photothermal radiometry and luminescence. <i>Journal of Investigative and Clinical Dentistry</i> , 2017, 8, e12257.	1.8	41
15	Results from the Xylitol for Adult Caries Trial (X-ACT). <i>Journal of the American Dental Association</i> , 2013, 144, 21-30.	1.5	40
16	Detection of interproximal demineralized lesions on human teeth in vitro using frequency-domain infrared photothermal radiometry and modulated luminescence. <i>Journal of Biomedical Optics</i> , 2007, 12, 034028.	2.6	38
17	In situ remineralisation of eroded enamel lesions by NaF rinses. <i>Archives of Oral Biology</i> , 2012, 57, 525-530.	1.8	38
18	Impact of a toothpaste with microcrystalline hydroxyapatite on the occurrence of early childhood caries: a 1-year randomized clinical trial. <i>Scientific Reports</i> , 2021, 11, 2650.	3.3	38

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19	Thermophotonic lock-in imaging of early demineralized and carious lesions in human teeth. <i>Journal of Biomedical Optics</i> , 2011, 16, 071402.	2.6	37
20	In vitro detection and quantification of enamel and root caries using infrared photothermal radiometry and modulated luminescence. <i>Journal of Biomedical Optics</i> , 2008, 13, 034025.	2.6	36
21	Optical Coherence Tomography. <i>Dental Clinics of North America</i> , 2018, 62, 421-434.	1.8	36
22	Modes of Action and Clinical Efficacy of Particulate Hydroxyapatite in Preventive Oral Health Care â State of the Art. <i>Open Dentistry Journal</i> , 2019, 13, 274-287.	0.5	30
23	Quantification of root caries using optical coherence tomography and microradiography: a correlational study. <i>Oral Health & Preventive Dentistry</i> , 2004, 2, 377-82.	0.5	28
24	Comparison of hydroxyapatite and fluoride oral care gels for remineralization of initial caries: a pH-cycling study. <i>BDJ Open</i> , 2020, 6, 9.	2.1	27
25	Examiner training and reliability in two randomized clinical trials of adult dental caries. <i>Journal of Public Health Dentistry</i> , 2011, 71, 335-344.	1.2	24
26	Correlation with Caries Lesion Depth of The Canary System, DIAGNOdent and ICDAS II. <i>Open Dentistry Journal</i> , 2017, 11, 679-689.	0.5	24
27	Protocols to Study Dental Caries In Vitro: pH Cycling Models. <i>Methods in Molecular Biology</i> , 2019, 1922, 379-392.	0.9	24
28	In situ remineralization of white-spot enamel lesions by 500 and 1,100ÂµppmÂµF dentifrices. <i>Clinical Oral Investigations</i> , 2012, 16, 1007-1014.	3.0	23
29	Cariogenic Biofilms: Development, Properties, and Biomimetic Preventive Agents. <i>Dentistry Journal</i> , 2021, 9, 88.	2.3	23
30	Effect of theobromine-containing toothpaste on dentin tubule occlusion in situ. <i>Clinical Oral Investigations</i> , 2015, 19, 109-116.	3.0	21
31	Proximal caries lesion detection using the Canary Caries Detection System: an in vitro study. <i>Journal of Investigative and Clinical Dentistry</i> , 2016, 7, 383-390.	1.8	21
32	Caries inhibiting and remineralizing effect of xylitol in vitro.. <i>Journal of Oral Science</i> , 1999, 41, 71-76.	1.7	20
33	Influence of anti-asthmatic medications on dental caries in children in Slovenia. <i>International Journal of Paediatric Dentistry</i> , 2013, 23, 188-196.	1.8	20
34	Quantitative evaluation of the kinetics of human enamel simulated caries using photothermal radiometry and modulated luminescence. <i>Journal of Biomedical Optics</i> , 2011, 16, 071406.	2.6	19
35	Optothermophysical properties of demineralized human dental enamel determined using photothermally generated diffuse photon density and thermal-wave fields. <i>Applied Optics</i> , 2010, 49, 6938.	2.1	18
36	Inhibition of <i>Streptococcus mutans</i> , antioxidant property and cytotoxicity of novel nano-zinc oxide varnish. <i>Archives of Oral Biology</i> , 2021, 126, 105132.	1.8	18

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37	Protocols to Study Dental Caries In Vitro: Microbial Caries Models. <i>Methods in Molecular Biology</i> , 2019, 1922, 357-368.	0.9	17
38	Effectiveness of S-PRG Filler-Containing Toothpaste in Inhibiting Demineralization of Human Tooth Surface. <i>Open Dentistry Journal</i> , 2018, 12, 811-819.	0.5	17
39	Remineralization of eroded enamel by a NaF rinse containing a novel calcium phosphate agent in an in situ model: a pilot study. <i>Clinical, Cosmetic and Investigational Dentistry</i> , 2010, 2, 93.	1.6	16
40	Antimicrobial effect of herbal extract of <i>Acacia arabica</i> with triphala on the biofilm forming cariogenic microorganisms. <i>Journal of Ayurveda and Integrative Medicine</i> , 2020, 11, 322-328.	1.7	16
41	Evaluation of nanohydroxyapatite-containing toothpaste for occluding dentin tubules. <i>American Journal of Dentistry</i> , 2015, 28, 33-9.	0.1	16
42	Risk indicators for the presence and extent of root caries among caries-active adults enrolled in the Xylitol for Adult Caries Trial (X-ACT). <i>Clinical Oral Investigations</i> , 2012, 16, 1647-1657.	3.0	15
43	Clinical Efficacy in Relieving Dentin Hypersensitivity of Nanohydroxyapatite-containing Cream: A Randomized Controlled Trial. <i>Open Dentistry Journal</i> , 2018, 12, 572-585.	0.5	15
44	Clinical efficacy of nanohydroxyapatite-containing toothpaste at relieving dentin hypersensitivity: an 8 weeks randomized control trial. <i>BDJ Open</i> , 2021, 7, 23.	2.1	15
45	Comparative Efficacy in Preventing Plaque Formation around Pit and Fissure Sealants: A Clinical Trial. <i>Journal of Contemporary Dental Practice</i> , 2019, 20, 531-536.	0.5	15
46	Design of the Xylitol for Adult Caries Trial (X-ACT). <i>BMC Oral Health</i> , 2010, 10, 22.	2.3	14
47	Monitoring bacterial-demineralization of human dentine by electrochemical impedance spectroscopy. <i>Journal of Dentistry</i> , 2010, 38, 138-148.	4.1	14
48	Truncated-correlation photothermal coherence tomography of artificially demineralized animal bones: two- and three-dimensional markers for mineral loss monitoring. <i>Journal of Biomedical Optics</i> , 2014, 19, 026015.	2.6	14
49	Comparison of The Canary System and <sc>DIAGNO</sc>dent for the in vitro detection of caries under opaque dental sealants. <i>Journal of Investigative and Clinical Dentistry</i> , 2017, 8, e12239.	1.8	14
50	Quantitative remineralization evolution kinetics of artificially demineralized human enamel using photothermal radiometry and modulated luminescence. <i>Journal of Biophotonics</i> , 2011, 4, 788-804.	2.3	12
51	In situ effect of a CPP-ACP chewing gum on enamel erosion associated or not with abrasion. <i>Clinical Oral Investigations</i> , 2017, 21, 339-346.	3.0	12
52	Evaluation of the caries-preventive effect of toothpaste containing surface prereacted glass-ionomer filler. <i>Journal of Investigative and Clinical Dentistry</i> , 2017, 8, e12249.	1.8	12
53	Dentin hypersensitivity management. <i>Clinical Dentistry Reviewed</i> , 2018, 2, 1.	0.4	12
54	Hydroxyapatite as Remineralization Agent for Children's Dental Care. <i>Frontiers in Dental Medicine</i> , 2022, 3, .	1.4	12

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55	Multi-Centre Clinical Evaluation of Photothermal Radiometry and Luminescence Correlated with International Benchmarks for Caries Detection. <i>Open Dentistry Journal</i> , 2017, 11, 636-647.	0.5	11
56	Anti-caries evaluation of a nano-hydroxyapatite dental lotion for use after toothbrushing: An in situ study. <i>Journal of Dentistry</i> , 2021, 115, 103863.	4.1	11
57	The dynamic behavior of the early dental caries lesion in caries- <i>active</i> adults and implications. <i>Community Dentistry and Oral Epidemiology</i> , 2015, 43, 208-216.	1.9	10
58	Four <i>lessons learned</i> while implementing a multi-site caries prevention trial. <i>Journal of Public Health Dentistry</i> , 2010, 70, 171-175.	1.2	9
59	In Vitro Detection of Caries Around Amalgam Restorations Using Four Different Modalities. <i>Open Dentistry Journal</i> , 2017, 11, 609-620.	0.5	9
60	Fluorescence and Near-Infrared Light Transillumination. <i>Dental Clinics of North America</i> , 2018, 62, 435-452.	1.8	8
61	The Potential of Hydroxyapatite Toothpaste to Prevent Root Caries: A pH-Cycling Study. <i>Clinical, Cosmetic and Investigational Dentistry</i> , 2021, Volume 13, 315-324.	1.6	8
62	The Prevalence of Early Childhood Caries among 24 to 36 Months Old Children of Iran: Using the Novel ICDAS-II Method. <i>Journal of Dentistry</i> , 2015, 16, 362-70.	0.1	8
63	Experimental investigation of demineralization and remineralization of human teeth using infrared photothermal radiometry and modulated luminescence. <i>Proceedings of SPIE</i> , 2008, , .	0.8	7
64	Visual scoring of non cavitated caries lesions and clinical trial efficiency, testing xylitol in caries- <i>active</i> adults. <i>Community Dentistry and Oral Epidemiology</i> , 2014, 42, 271-278.	1.9	7
65	Photothermal detection of incipient dental caries: experiment and modeling. <i>Proceedings of SPIE</i> , 2007, , .	0.8	6
66	Detection of Caries Around Resin-Modified Glass Ionomer and Compomer Restorations Using Four Different Modalities In Vitro. <i>Dentistry Journal</i> , 2018, 6, 47.	2.3	6
67	<i>Influence of Erosion/Abrasion and the Dentifrice Abrasiveness Concomitant with Bleaching Procedures</i> . <i>Clinical, Cosmetic and Investigational Dentistry</i> , 2020, Volume 12, 101-109.	1.6	6
68	Comparative Efficacy in Preventing Plaque Formation around Pit and Fissure Sealants: A Clinical Trial. <i>Journal of Contemporary Dental Practice</i> , 2019, 20, 531-536.	0.5	6
69	Comparison of photothermal radiometry and modulated luminescence, intraoral radiography, and cone beam computed tomography for detection of natural caries under restorations. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2020, 129, 539-548.	0.4	5
70	Anti-erosive effect of rinsing before or after toothbrushing with a Fluoride/Stannous Ions solution: an in situ investigation. <i>Journal of Dentistry</i> , 2020, 101, 103450.	4.1	5
71	Prevention of white spot lesions around orthodontic brackets using organoselenium-containing antimicrobial enamel surface sealant. <i>Heliyon</i> , 2021, 7, e06490.	3.2	5
72	Influence of childhood asthma on dental caries: A longitudinal study. <i>Clinical and Experimental Dental Research</i> , 2021, 7, 957-967.	1.9	5

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73	Prevention and Control of Dental Erosion: Professional Clinic Care. , 2015, , 151-168.		4
74	Caries Increment and Oral Hygiene Changes in 6- and 12-Year-Old Children in Riga, Latvia: A 3-Year Follow-Up Report Using ICDAS II and RADKE Criteria. European Journal of Dentistry, 2019, 13, 413-419.	1.7	4
75	In-vitro detection of artificial caries on vertical dental cavity walls using infrared photothermal radiometry and modulated luminescence. Journal of Biomedical Optics, 2012, 17, 127001.	2.6	3
76	Erosive potential of soy-based beverages on dental enamel. Acta Odontologica Scandinavica, 2019, 77, 340-346.	1.6	3
77	Do Products Preventing Demineralization Around Orthodontic Brackets Affect Adhesive Bond Strength?. Open Dentistry Journal, 2018, 12, 1029-1035.	0.5	3
78	Factors influencing the caries experience of 6 and 12 year old children in Riga, Latvia. Stomatologija, 2016, 18, 14-20.	0.3	3
79	Clinical Trial of the Canary System for Proximal Caries Detection: A Comparative Study. Current Journal of Applied Science and Technology, 0, , 38-50.	0.3	3
80	The effectiveness of an NaF rinse containing fTCP on eroded enamel remineralization. Zeitschrift Fur Gesundheitswissenschaften, 2016, 24, 147-152.	1.6	2
81	Prevention and control of dental erosion by professionally applied treatment. Clinical Dentistry Reviewed, 2018, 2, 1.	0.4	2
82	In vitro evaluation of the effects of Ultrasound Tongue Scraper on bacteria and biofilm formation. Journal of Investigative and Clinical Dentistry, 2019, 10, e12471.	1.8	2
83	Phytochemicals. Advances in Medical Technologies and Clinical Practice Book Series, 2019, , 238-275.	0.3	2
84	Influence of desensitizing agents in management of noncarious cervical lesion and bonded restorations: A preliminary 12-week report. Journal of Conservative Dentistry, 2020, 23, 341.	0.9	1
85	Influences of desensitizing agents on bond strength of etch-and-rinse and self-etch adhesive system to dentin. Journal of Conservative Dentistry, 2020, 23, 522.	0.9	1
86	Protocol for a Case Control Study to Evaluate Oral Health as a Biomarker of Child Exposure to Adverse Psychosocial Experiences. International Journal of Environmental Research and Public Health, 2022, 19, 3403.	2.6	1
87	The Effect of MI Varnish on Caries Increment and Dietary Habits among 6- and 12-Year-Old Children in Riga, Latvia: A 3-Year Randomized Controlled Trial. Dentistry Journal, 2022, 10, 96.	2.3	1
88	Comparison of composite resin and porcelain inlays for restoration of noncarious cervical lesions: An study. Dental Research Journal, 2018, 15, 215-219.	0.6	0
89	Monitoring erosive tooth wear with intraoral 3D scanner: A feasibility study.. American Journal of Dentistry, 2022, 35, 49-54.	0.1	0