

Baek-Il Kim

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

1,732
citations

304743

22
h-index

361022

35
g-index

115
all docs

115
docs citations

115
times ranked

1563
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel model to predict tooth bleaching efficacy using autofluorescence of the tooth. <i>Journal of Dentistry</i> , 2022, 116, 103892.	4.1	2
2	Teaching Cariology in Asia and Arabia. <i>Caries Research</i> , 2022, 56, 109-115.	2.0	3
3	Red fluorescence for assessing longitudinal tooth fractures. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022, , 102845.	2.6	2
4	Anti-biofilm activity of chlorhexidine-releasing elastomers against dental microcosm biofilms. <i>Journal of Dentistry</i> , 2022, 122, 104153.	4.1	5
5	Masticatory Performance and the Related Factors in Korean Children and Adolescents. <i>The Journal of the Korean Academy of Pediatric Dentistry</i> , 2022, 49, 170-179.	0.4	0
6	Optical detection of oral biofilm in hospitalized geriatric patients using quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022, 39, 102962.	2.6	3
7	Lesion activity assessment of early caries using dye-enhanced quantitative light-induced fluorescence. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
8	Simple oral exercise with chewing gum for improving oral function in older adults. <i>Aging Clinical and Experimental Research</i> , 2021, 33, 1023-1031.	2.9	19
9	Age, period and cohort trends in oral health status in South Korean adults. <i>Community Dentistry and Oral Epidemiology</i> , 2021, 49, 136-143.	1.9	9
10	Dental and Dental Hygiene Students's Knowledge and Perception on Fluoride Use in Dentistry. <i>Journal of Contemporary Dental Practice</i> , 2021, 22, 4-8.	0.5	0
11	Optical detection of the potential for tooth discoloration from children's beverages by quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 34, 102240.	2.6	4
12	Effect of nicotine on orthodontic tooth movement and bone remodeling in rats. <i>Korean Journal of Orthodontics</i> , 2021, 51, 282-292.	2.3	3
13	Effect of antimicrobial photodynamic therapy with Chlorella and Curcuma extract on <i>Streptococcus mutans</i> biofilms. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 35, 102411.	2.6	7
14	Evaluation of wound dehiscence after vertical bone graft by using quantitative light-induced fluorescence. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 36, 102470.	2.6	0
15	Fluorescence fingerprints of oral bacteria. <i>Journal of Biophotonics</i> , 2020, 13, e201900190.	2.3	12
16	Red fluorescence of Interdental plaque for screening of gingival health. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 29, 101636.	2.6	6
17	Detection of dentin-exposed occlusal/incisal tooth wear using quantitative light-induced fluorescence technology. <i>Journal of Dentistry</i> , 2020, 103, 103505.	4.1	7
18	Quantitative light-induced fluorescence as a potential tool for detection of enamel chemical composition. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 32, 102054.	2.6	7

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19	Clinical assessment of an automated fluorescent plaque index scoring with quantitative light-induced fluorescence. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 32, 102011.	2.6	8
20	Antimicrobial activity of <i>Curcuma xanthorrhiza</i> nanoemulsions on <i>Streptococcus mutans</i> biofilms. <i>Biofouling</i> , 2020, 36, 825-833.	2.2	11
21	Noninvasive detection of microleakage in all-ceramic crowns using quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020, 30, 101672.	2.6	2
22	Effects of short-time exposure of surface pre-reacted glass-ionomer eluate on dental microcosm biofilm. <i>Scientific Reports</i> , 2020, 10, 14425.	3.3	6
23	The Association Between Masticatory Function Assessment and Masseter Muscle Thickness in the Elderly. <i>Journal of Oral Medicine and Pain</i> , 2020, 45, 49-55.	0.2	0
24	Susceptibility of oral bacteria to antibacterial photodynamic therapy. <i>Journal of Oral Microbiology</i> , 2019, 11, 1644111.	2.7	18
25	Does the national dental scaling policy reduce inequalities in dental scaling usage? A population-based quasi-experimental study. <i>BMC Oral Health</i> , 2019, 19, 185.	2.3	8
26	Using autofluorescence to detect bacterial contamination in root fractures. <i>Journal of Dentistry</i> , 2019, 86, 27-32.	4.1	7
27	<p>Improvements in oral functions of elderly after simple oral exercise</p>. <i>Clinical Interventions in Aging</i> , 2019, Volume 14, 915-924.	2.9	28
28	Diagnosis and management of cracked tooth by quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 26, 324-326.	2.6	14
29	Detection of dental plaque and its potential pathogenicity using quantitative light-induced fluorescence. <i>Journal of Biophotonics</i> , 2019, 12, e201800414.	2.3	24
30	Can red fluorescence be useful in diagnostic decision making of residual dentin caries?. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 26, 43-44.	2.6	5
31	Application of quantitative light-induced fluorescence technology for tooth bleaching treatment and its assessment: An in vitro study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 208-213.	2.6	6
32	In Vitro Red Fluorescence as an Indicator of Caries Lesion Activity. <i>Operative Dentistry</i> , 2019, 44, 405-413.	1.2	6
33	Assessment of tooth wear based on autofluorescence properties measured using the QLF technology in vitro. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 265-270.	2.6	5
34	Evaluation of tooth wear by estimating enamel thickness with quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 319-324.	2.6	7
35	Unilateral Mastication Evaluated Using Asymmetric Functional Tooth Units as a Risk Indicator for Hearing Loss. <i>Journal of Epidemiology</i> , 2019, 29, 302-307.	2.4	5
36	Comparison of fluorescence parameters between three generations of QLF devices for detecting enamel caries in vitro and on smooth surfaces. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 142-147.	2.6	24

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37	The susceptibility of oral bacteria to antibacterial photodynamic therapy. , 2019, , .		2
38	Effect of an oral health education program based on the use of quantitative light-induced fluorescence technology in Uzbekistan adolescents. Photodiagnosis and Photodynamic Therapy, 2018, 21, 379-384.	2.6	18
39	Development of a fluorescence-image scoring system for assessing noncavitated occlusal caries. Photodiagnosis and Photodynamic Therapy, 2018, 21, 36-42.	2.6	32
40	Factors affecting objective and subjective masticatory ability assessment of Korean elderly people. Journal of Korean Academy of Oral Health, 2018, 42, 216.	0.4	3
41	Detection of residual resin-based orthodontic adhesive based on light-induced fluorescence. Photodiagnosis and Photodynamic Therapy, 2018, 24, 69-74.	2.6	6
42	Optical diagnosis of dentin caries lesions using quantitative light-induced fluorescence technology. Photodiagnosis and Photodynamic Therapy, 2018, 23, 68-70.	2.6	8
43	Prediction of early caries prognosis after fluoride application based on the severity of lesions: An in situ study. Photodiagnosis and Photodynamic Therapy, 2018, 23, 45-49.	2.6	12
44	Cutoff fluorescence loss for the recovery of incipient carious lesions after fluoride application in primary teeth: A clinical study. Photodiagnosis and Photodynamic Therapy, 2018, 23, 367-372.	2.6	8
45	Early caries detection methods according to the depth of the lesion: An in vitro comparison. Photodiagnosis and Photodynamic Therapy, 2018, 23, 176-180.	2.6	11
46	Red fluorescence of dental biofilm as an indicator for assessing the efficacy of antimicrobials. Journal of Biomedical Optics, 2018, 23, 1.	2.6	8
47	Caries detection and quantification around stained pits and fissures in occlusal tooth surfaces with fluorescence. Journal of Biomedical Optics, 2018, 23, 1.	2.6	10
48	Evaluation of the bristle endâ€œrounding patterns of children's toothbrushes using scanning electron microscopy and stereomicroscopy. International Journal of Dental Hygiene, 2017, 15, 120-127.	1.9	6
49	Improving the competency of dental hygiene students in detecting dental restorations using quantitative light-induced fluorescence technology. Photodiagnosis and Photodynamic Therapy, 2017, 17, 245-249.	2.6	10
50	Analysis of Orange/Red Fluorescence for Bacterial Activity in Initial Carious Lesions May Provide Accurate Lesion Activity Assessment for Caries Progression. Journal of Evidence-based Dental Practice, 2017, 17, 125-128.	1.5	15
51	Bactericidal effect of the photocatalytic reaction of titanium dioxide using visible wavelengths on Streptococcus mutans biofilm. Photodiagnosis and Photodynamic Therapy, 2017, 18, 279-283.	2.6	15
52	Antibacterial photodynamic therapy with curcumin and Curcuma xanthorrhiza extract against Streptococcus mutans. Photodiagnosis and Photodynamic Therapy, 2017, 20, 116-119.	2.6	72
53	Measures of Dynamic Chewing Function, Rather than the Number of Teeth, are a Better Predictors of the Elderlyâ€™s Ability to Intake Food and Nutrients. Journal of Evidence-based Dental Practice, 2017, 17, 274-277.	1.5	4
54	The New Marginal Plaque Index May Allow a More Valid Assessment of Gingival Plaque Level Than the Turesky Modification of the Quigley and Hein Index. Journal of Evidence-based Dental Practice, 2017, 17, 416-419.	1.5	2

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55	A new screening method to detect proximal dental caries using fluorescence imaging. Photodiagnosis and Photodynamic Therapy, 2017, 20, 257-262.	2.6	27
56	Improving the efficacy of chlorhexidine-releasing elastomers using a layer-by-layer coating technique. Dental Materials Journal, 2017, 36, 476-481.	1.8	5
57	Quantitative light-induced fluorescence technology for quantitative evaluation of tooth wear. Journal of Biomedical Optics, 2017, 22, 1.	2.6	9
58	Photodiagnosis of White Spot Lesions after Orthodontic Treatment with a Quantitative Light-induced Fluorescence-Digital System: A Pilot Study. Oral Health & Preventive Dentistry, 2017, 15, 483-488.	0.5	2
59	Diagnostic accuracy of a combination of salivary hemoglobin levels, self-report questionnaires, and age in periodontitis screening. Journal of Periodontal and Implant Science, 2016, 46, 10.	2.0	17
60	Explaining the Red Fluorescence Evident on the Surface of Failed Dental Implants. Implant Dentistry, 2016, 25, 445-449.	1.3	6
61	Comparison of the oral microbiome of siblings using next-generation sequencing: a pilot study. Oral Diseases, 2016, 22, 549-556.	3.0	8
62	Assessing the use of Quantitative Light-induced Fluorescence-Digital as a clinical plaque assessment. Photodiagnosis and Photodynamic Therapy, 2016, 13, 34-39.	2.6	47
63	Plaque autofluorescence as potential diagnostic targets for oral malodor. Journal of Biomedical Optics, 2016, 21, 085005.	2.6	7
64	Clinical Assessment of a New Caries Activity Test Using Dental Plaque Acidogenicity in Children under Three Years of Age. Journal of Clinical Pediatric Dentistry, 2016, 40, 388-392.	1.0	9
65	Evaluation of resin infiltration using quantitative light-induced fluorescence technology. Photodiagnosis and Photodynamic Therapy, 2016, 15, 6-10.	2.6	6
66	Detection and Analysis of Enamel Cracks by Quantitative Light-induced Fluorescence Technology. Journal of Endodontics, 2016, 42, 500-504.	3.1	30
67	Differences in the intensity of light-induced fluorescence emitted by resin composites. Photodiagnosis and Photodynamic Therapy, 2016, 13, 114-119.	2.6	26
68	Ecological changes in oral microcosm biofilm during maturation. Journal of Biomedical Optics, 2016, 21, 101409.	2.6	13
69	Clinical assessment of oral malodor using autofluorescence of tongue coating. Photodiagnosis and Photodynamic Therapy, 2016, 13, 323-329.	2.6	12
70	Endothelin Regulates Porphyromonas gingivalis-Induced Production of Inflammatory Cytokines. PLoS ONE, 2016, 11, e0167713.	2.5	7
71	Can the Application of Fluoride Iontophoresis Improve Remineralisation of Early Caries Lesions?. Oral Health & Preventive Dentistry, 2016, 14, 177-82.	0.5	6
72	Chlorhexidine-releasing orthodontic elastomers. Dental Materials Journal, 2015, 34, 321-326.	1.8	8

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73	Short-term improvement of masticatory function after implant restoration. Journal of Periodontal and Implant Science, 2015, 45, 205.	2.0	14
74	A comparison of tooth brushing methods recommended in different countries. Journal of Korean Academy of Oral Health, 2015, 39, 195.	0.4	6
75	Assessment of the erosive potential of carbonated waters. Journal of Korean Academy of Oral Health, 2015, 39, 273.	0.4	3
76	Evaluation of fluoride bioavailability in toothpastes. Journal of Korean Academy of Oral Health, 2015, 39, 81.	0.4	5
77	Efficacy of dentifrices containing policresulen in controlling dental plaque and gingivitis formation. Journal of Korean Academy of Oral Health, 2015, 39, 267.	0.4	1
78	Estimation of Fluoride Intake From Milk-Based Infant Formulas and Baby Foods. Asia-Pacific Journal of Public Health, 2015, 27, NP1300-NP1309.	1.0	8
79	Validity of Screening Methods for Periodontitis Using Salivary Hemoglobin Level and Self-Report Questionnaires in People with Disabilities. Journal of Periodontology, 2015, 86, 536-545.	3.4	21
80	Assessment of masticatory function in patients with non-sagittal occlusal discrepancies. Journal of Oral Rehabilitation, 2015, 42, 2-9.	3.0	19
81	Impact of malocclusion and common oral diseases on oral health-related quality of life in young adults. American Journal of Orthodontics and Dentofacial Orthopedics, 2015, 147, 587-595.	1.7	59
82	Evaluation of penetration effect of resin infiltrant using optical coherence tomography. Journal of Dentistry, 2015, 43, 720-725.	4.1	19
83	Validation of quantitative light-induced fluorescence-digital (QLF-D) for the detection of approximal caries in vitro. Journal of Dentistry, 2015, 43, 568-575.	4.1	55
84	Desensitizing Efficacy of Nano-Carbonate Apatite Dentifrice and Er,Cr:YSGG Laser: A Randomized Clinical Trial. Photomedicine and Laser Surgery, 2015, 33, 9-14.	2.0	14
85	Prevention of dental erosion of a sports drink by nano-sized hydroxyapatite <i>in situ</i> study. International Journal of Paediatric Dentistry, 2015, 25, 61-69.	1.8	22
86	An in vitro comparison of quantitative light-induced fluorescence-digital and spectrophotometer on monitoring artificial white spot lesions. Photodiagnosis and Photodynamic Therapy, 2015, 12, 378-384.	2.6	20
87	Validity and reliability of autofluorescence-based quantification method of dental plaque. Photodiagnosis and Photodynamic Therapy, 2015, 12, 587-591.	2.6	29
88	Assessment of Acidogenic Potential for Dental Biofilms by Periodontal Health Condition. Journal of Dental Hygiene Science, 2015, 15, 202-208.	0.3	5
89	Modification of surface pretreatment of white spot lesions to improve the safety and efficacy of resin infiltration. Korean Journal of Orthodontics, 2014, 44, 195.	2.3	21
90	Assessing the clinical validity of a new caries activity test using dental plaque acidogenicity. Journal of Korean Academy of Oral Health, 2014, 38, 77.	0.4	8

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91	In vitro quantification of occlusal caries lesion using QLF-D, ICDAS, and DIAGNOdent. Journal of Korean Academy of Oral Health, 2014, 38, 105.	0.4	2
92	Detection of early changes in caries lesion using QLF-D and OCT. Journal of Korean Academy of Oral Health, 2014, 38, 10.	0.4	5
93	Monitoring the maturation process of a dental microcosm biofilm using the Quantitative Light-induced Fluorescence-Digital (QLF-D). Journal of Dentistry, 2014, 42, 691-696.	4.1	89
94	Modification of surface pre-treatment for resin infiltration to mask natural white spot lesions. Journal of Dentistry, 2014, 42, 588-594.	4.1	13
95	Effect of a New Combined Therapy with Nano-Carbonate Apatite and CO ₂ Laser on Dentin Hypersensitivity in an <i>In Situ</i> Model. Photomedicine and Laser Surgery, 2014, 32, 394-400.	2.0	4
96	Influence of TiO ₂ Concentrations and Irradiation Lights on the Photocatalytic Reaction for Inhibiting Growth of Streptococcus mutans. Journal of Dental Hygiene Science, 2014, 14, 319-324.	0.3	3
97	The Effects of the Q-Ray View on Reliability of Assessing a Tooth Status for Dental Hygiene Process. Journal of Dental Hygiene Science, 2014, 14, 461-467.	0.3	3
98	Synergistic Effect of Dentinal Tubule Occlusion by Nano-Carbonate Apatite and CO ₂ Laser <i>In Vitro</i> . Photomedicine and Laser Surgery, 2013, 31, 392-397.	2.0	10
99	Combined Effects of Er:YAG Laser and Nano-Carbonate Apatite Dentifrice on Dentinal Tubule Occlusion: <i>In Vitro</i> Study. Photomedicine and Laser Surgery, 2013, 31, 342-348.	2.0	13
100	Association between the cariogenicity of a dental microcosm biofilm and its red fluorescence detected by Quantitative Light-induced Fluorescence-Digital (QLF-D). Journal of Dentistry, 2013, 41, 1264-1270.	4.1	82
101	Changes in masticatory function after injection of botulinum toxin type A to masticatory muscles. Journal of Oral Rehabilitation, 2013, 40, 916-922.	3.0	25
102	Comparison between the National Oral Health Survey Systems of the United States and South Korea. Journal of Korean Academy of Oral Health, 2013, 37, 167.	0.4	5
103	Analysis of the erosive effects of children's beverages using a pH-cycling model. Journal of Korean Academy of Oral Health, 2013, 37, 141.	0.4	5
104	Recovery percentage of remineralization according to severity of early caries. American Journal of Dentistry, 2013, 26, 132-6.	0.1	29
105	The addition of nano-sized hydroxyapatite to a sports drink to inhibit dental erosion— <i>In vitro</i> study using bovine enamel. Journal of Dentistry, 2011, 39, 629-635.	4.1	63
106	Effect of nano-carbonate apatite to prevent re-stain after dental bleaching <i>in vitro</i> . Journal of Dentistry, 2011, 39, 636-642.	4.1	49
107	Objective and subjective assessment of masticatory function for patients with temporomandibular disorder in Korea. Journal of Oral Rehabilitation, 2011, 38, 475-481.	3.0	24
108	Global self-rating of oral health, concerns about oral health, and history of jaw injury related to temporomandibular joint symptoms in Korean adults. Journal of Orofacial Pain, 2011, 25, 308-16.	1.7	3

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109	Subjective food intake ability in relation to the Mixing Ability Index in Korean adults. <i>Journal of Oral Rehabilitation</i> , 2010, 37, 242-247.	3.0	22
110	Subjective food intake ability in relation to maximal bite force among Korean adults. <i>Journal of Oral Rehabilitation</i> , 2009, 36, 168-175.	3.0	45
111	Application of fluoride iontophoresis to improve remineralization. <i>Journal of Oral Rehabilitation</i> , 2009, 36, 770-775.	3.0	19
112	Antibacterial characteristics of <i>Curcuma xanthorrhiza</i> extract on <i>Streptococcus mutans</i> biofilm. <i>Journal of Microbiology</i> , 2008, 46, 228-232.	2.8	56
113	Effect of dentinal tubule occlusion by dentifrice containing nano- CaCO_3 carbonate apatite. <i>Journal of Oral Rehabilitation</i> , 2008, 35, 847-853.	3.0	72