

Baek-Il Kim

List of Publications by Year in descending order

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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	Monitoring the maturation process of a dental microcosm biofilm using the Quantitative Light-induced Fluorescence-Digital (QLF-D). <i>Journal of Dentistry</i> , 2014, 42, 691-696.	4.1	89
2	Association between the cariogenicity of a dental microcosm biofilm and its red fluorescence detected by Quantitative Light-induced Fluorescence-Digital (QLF-D). <i>Journal of Dentistry</i> , 2013, 41, 1264-1270.	4.1	82
3	Effect of dentinal tubule occlusion by dentifrice containing nano-carbonate apatite. <i>Journal of Oral Rehabilitation</i> , 2008, 35, 847-853.	3.0	72
4	Antibacterial photodynamic therapy with curcumin and <i>Curcuma xanthorrhiza</i> extract against <i>Streptococcus mutans</i> . <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 20, 116-119.	2.6	72
5	The addition of nano-sized hydroxyapatite to a sports drink to inhibit dental erosion—In vitro study using bovine enamel. <i>Journal of Dentistry</i> , 2011, 39, 629-635.	4.1	63
6	Impact of malocclusion and common oral diseases on oral health-related quality of life in young adults. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2015, 147, 587-595.	1.7	59
7	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
8	Validation of quantitative light-induced fluorescence-digital (QLF-D) for the detection of approximal caries in vitro. <i>Journal of Dentistry</i> , 2015, 43, 568-575.	4.1	55
9	Effect of nano-carbonate apatite to prevent re-stain after dental bleaching in vitro. <i>Journal of Dentistry</i> , 2011, 39, 636-642.	4.1	49
10	Assessing the use of Quantitative Light-induced Fluorescence-Digital as a clinical plaque assessment. <i>Photodiagnosis and Photodynamic Therapy</i> , 2016, 13, 34-39.	2.6	47
11	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
12	Development of a fluorescence-image scoring system for assessing noncavitated occlusal caries. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 21, 36-42.	2.6	32
13	Detection and Analysis of Enamel Cracks by Quantitative Light-induced Fluorescence Technology. <i>Journal of Endodontics</i> , 2016, 42, 500-504.	3.1	30
14	Validity and reliability of autofluorescence-based quantification method of dental plaque. <i>Photodiagnosis and Photodynamic Therapy</i> , 2015, 12, 587-591.	2.6	29
15	Recovery percentage of remineralization according to severity of early caries. <i>American Journal of Dentistry</i> , 2013, 26, 132-6.	0.1	29
16	Improvements in oral functions of elderly after simple oral exercise. <i>Clinical Interventions in Aging</i> , 2019, Volume 14, 915-924.	2.9	28
17	A new screening method to detect proximal dental caries using fluorescence imaging. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 20, 257-262.	2.6	27
18	Differences in the intensity of light-induced fluorescence emitted by resin composites. <i>Photodiagnosis and Photodynamic Therapy</i> , 2016, 13, 114-119.	2.6	26

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19	Changes in masticatory function after injection of botulinum toxin type A to masticatory muscles. <i>Journal of Oral Rehabilitation</i> , 2013, 40, 916-922.	3.0	25
20	Objective and subjective assessment of masticatory function for patients with temporomandibular disorder in Korea. <i>Journal of Oral Rehabilitation</i> , 2011, 38, 475-481.	3.0	24
21	Detection of dental plaque and its potential pathogenicity using quantitative light-induced fluorescence. <i>Journal of Biophotonics</i> , 2019, 12, e201800414.	2.3	24
22	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
23	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
24	Prevention of dental erosion of a sports drink by nano-sized hydroxyapatite <i>in situ</i> study. <i>International Journal of Paediatric Dentistry</i> , 2015, 25, 61-69.	1.8	22
25	Modification of surface pretreatment of white spot lesions to improve the safety and efficacy of resin infiltration. <i>Korean Journal of Orthodontics</i> , 2014, 44, 195.	2.3	21
26	Validity of Screening Methods for Periodontitis Using Salivary Hemoglobin Level and Self-Report Questionnaires in People with Disabilities. <i>Journal of Periodontology</i> , 2015, 86, 536-545.	3.4	21
27	An in vitro comparison of quantitative light-induced fluorescence-digital and spectrophotometer on monitoring artificial white spot lesions. <i>Photodiagnosis and Photodynamic Therapy</i> , 2015, 12, 378-384.	2.6	20
28	Application of fluoride iontophoresis to improve remineralization. <i>Journal of Oral Rehabilitation</i> , 2009, 36, 770-775.	3.0	19
29	Assessment of masticatory function in patients with non-sagittal occlusal discrepancies. <i>Journal of Oral Rehabilitation</i> , 2015, 42, 2-9.	3.0	19
30	Evaluation of penetration effect of resin infiltrant using optical coherence tomography. <i>Journal of Dentistry</i> , 2015, 43, 720-725.	4.1	19
31	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
32	Effect of an oral health education program based on the use of quantitative light-induced fluorescence technology in Uzbekistan adolescents. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 21, 379-384.	2.6	18
33	Susceptibility of oral bacteria to antibacterial photodynamic therapy. <i>Journal of Oral Microbiology</i> , 2019, 11, 1644111.	2.7	18
34	Diagnostic accuracy of a combination of salivary hemoglobin levels, self-report questionnaires, and age in periodontitis screening. <i>Journal of Periodontal and Implant Science</i> , 2016, 46, 10.	2.0	17
35	Analysis of Orange/Red Fluorescence for Bacterial Activity in Initial Carious Lesions May Provide Accurate Lesion Activity Assessment for Caries Progression. <i>Journal of Evidence-based Dental Practice</i> , 2017, 17, 125-128.	1.5	15
36	Bactericidal effect of the photocatalytic reaction of titanium dioxide using visible wavelengths on <i>Streptococcus mutans</i> biofilm. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 18, 279-283.	2.6	15

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37	Short-term improvement of masticatory function after implant restoration. <i>Journal of Periodontal and Implant Science</i> , 2015, 45, 205.	2.0	14
38	Desensitizing Efficacy of Nano-Carbonate Apatite Dentifrice and Er,Cr:YSGG Laser: A Randomized Clinical Trial. <i>Photomedicine and Laser Surgery</i> , 2015, 33, 9-14.	2.0	14
39	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
40	Combined Effects of Er:YAG Laser and Nano-Carbonate Apatite Dentifrice on Dentinal Tubule Occlusion: <i>In Vitro</i> Study. <i>Photomedicine and Laser Surgery</i> , 2013, 31, 342-348.	2.0	13
41	Modification of surface pre-treatment for resin infiltration to mask natural white spot lesions. <i>Journal of Dentistry</i> , 2014, 42, 588-594.	4.1	13
42	Ecological changes in oral microcosm biofilm during maturation. <i>Journal of Biomedical Optics</i> , 2016, 21, 101409.	2.6	13
43	Clinical assessment of oral malodor using autofluorescence of tongue coating. <i>Photodiagnosis and Photodynamic Therapy</i> , 2016, 13, 323-329.	2.6	12
44	Prediction of early caries prognosis after fluoride application based on the severity of lesions: An in situ study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 23, 45-49.	2.6	12
45	Fluorescence fingerprints of oral bacteria. <i>Journal of Biophotonics</i> , 2020, 13, e201900190.	2.3	12
46	Early caries detection methods according to the depth of the lesion: An in vitro comparison. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 23, 176-180.	2.6	11
47	Antimicrobial activity of <i>Curcuma xanthorrhiza</i> nanoemulsions on <i>Streptococcus mutans</i> biofilms. <i>Biofouling</i> , 2020, 36, 825-833.	2.2	11
48	Synergistic Effect of Dentinal Tubule Occlusion by Nano-Carbonate Apatite and CO ₂ Laser <i>In Vitro</i> . <i>Photomedicine and Laser Surgery</i> , 2013, 31, 392-397.	2.0	10
49	Improving the competency of dental hygiene students in detecting dental restorations using quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 17, 245-249.	2.6	10
50	Caries detection and quantification around stained pits and fissures in occlusal tooth surfaces with fluorescence. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	10
51	Clinical Assessment of a New Caries Activity Test Using Dental Plaque Acidogenicity in Children under Three Years of Age. <i>Journal of Clinical Pediatric Dentistry</i> , 2016, 40, 388-392.	1.0	9
52	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
53	Quantitative light-induced fluorescence technology for quantitative evaluation of tooth wear. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	9
54	Assessing the clinical validity of a new caries activity test using dental plaque acidogenicity. <i>Journal of Korean Academy of Oral Health</i> , 2014, 38, 77.	0.4	8

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55	Chlorhexidine-releasing orthodontic elastomerics. <i>Dental Materials Journal</i> , 2015, 34, 321-326.	1.8	8
56	Estimation of Fluoride Intake From Milk-Based Infant Formulas and Baby Foods. <i>Asia-Pacific Journal of Public Health</i> , 2015, 27, NP1300-NP1309.	1.0	8
57	Comparison of the oral microbiome of siblings using next-generation sequencing: a pilot study. <i>Oral Diseases</i> , 2016, 22, 549-556.	3.0	8
58	Optical diagnosis of dentin caries lesions using quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 23, 68-70.	2.6	8
59	Cutoff fluorescence loss for the recovery of incipient carious lesions after fluoride application in primary teeth: A clinical study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 23, 367-372.	2.6	8
60	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
61	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
62	Red fluorescence of dental biofilm as an indicator for assessing the efficacy of antimicrobials. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	8
63	Plaque autofluorescence as potential diagnostic targets for oral malodor. <i>Journal of Biomedical Optics</i> , 2016, 21, 085005.	2.6	7
64	Using autofluorescence to detect bacterial contamination in root fractures. <i>Journal of Dentistry</i> , 2019, 86, 27-32.	4.1	7
65	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
66	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
67	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
68	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
69	Endothelin Regulates <i>Porphyromonas gingivalis</i> -Induced Production of Inflammatory Cytokines. <i>PLoS ONE</i> , 2016, 11, e0167713.	2.5	7
70	A comparison of tooth brushing methods recommended in different countries. <i>Journal of Korean Academy of Oral Health</i> , 2015, 39, 195.	0.4	6
71	Explaining the Red Fluorescence Evident on the Surface of Failed Dental Implants. <i>Implant Dentistry</i> , 2016, 25, 445-449.	1.3	6
72	Evaluation of resin infiltration using quantitative light-induced fluorescence technology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2016, 15, 6-10.	2.6	6

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73	Evaluation of the bristle endâ€rounding patterns of children's toothbrushes using scanning electron microscopy and stereomicroscopy. International Journal of Dental Hygiene, 2017, 15, 120-127.	1.9	6
74	Detection of residual resin-based orthodontic adhesive based on light-induced fluorescence. Photodiagnosis and Photodynamic Therapy, 2018, 24, 69-74.	2.6	6
75	Application of quantitative light-induced fluorescence technology for tooth bleaching treatment and its assessment: An in vitro study. Photodiagnosis and Photodynamic Therapy, 2019, 25, 208-213.	2.6	6
76	In Vitro Red Fluorescence as an Indicator of Caries Lesion Activity. Operative Dentistry, 2019, 44, 405-413.	1.2	6
77	Red fluorescence of Interdental plaque for screening of gingival health. Photodiagnosis and Photodynamic Therapy, 2020, 29, 101636.	2.6	6
78	Effects of short-time exposure of surface pre-reacted glass-ionomer eluate on dental microcosm biofilm. Scientific Reports, 2020, 10, 14425.	3.3	6
79	Can the Application of Fluoride Iontophoresis Improve Remineralisation of Early Caries Lesions?. Oral Health & Preventive Dentistry, 2016, 14, 177-82.	0.5	6
80	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
81	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
82	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
83	Evaluation of fluoride bioavailability in toothpastes. Journal of Korean Academy of Oral Health, 2015, 39, 81.	0.4	5
84	Improving the efficacy of chlorhexidine-releasing elastomers using a layer-by-layer coating technique. Dental Materials Journal, 2017, 36, 476-481.	1.8	5
85	Can red fluorescence be useful in diagnostic decision making of residual dentin caries?. Photodiagnosis and Photodynamic Therapy, 2019, 26, 43-44.	2.6	5
86	Assessment of tooth wear based on autofluorescence properties measured using the QLF technology in vitro. Photodiagnosis and Photodynamic Therapy, 2019, 25, 265-270.	2.6	5
87	Unilateral Mastication Evaluated Using Asymmetric Functional Tooth Units as a Risk Indicator for Hearing Loss. Journal of Epidemiology, 2019, 29, 302-307.	2.4	5
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	Anti-biofilm activity of chlorhexidine-releasing elastomers against dental microcosm biofilms. Journal of Dentistry, 2022, 122, 104153.	4.1	5
90	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

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91	Measures of Dynamic Chewing Function, Rather than the Number of Teeth, are a Better Predictors of the Elderly's Ability to Intake Food and Nutrients. <i>Journal of Evidence-based Dental Practice</i> , 2017, 17, 274-277.	1.5	4
92	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
93	Assessment of the erosive potential of carbonated waters. <i>Journal of Korean Academy of Oral Health</i> , 2015, 39, 273.	0.4	3
94	Factors affecting objective and subjective masticatory ability assessment of Korean elderly people. <i>Journal of Korean Academy of Oral Health</i> , 2018, 42, 216.	0.4	3
95	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
96	Influence of TiO ₂ Concentrations and Irradiation Lights on the Photocatalytic Reaction for Inhibiting Growth of <i>Streptococcus mutans</i> . <i>Journal of Dental Hygiene Science</i> , 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. <i>Journal of Dental Hygiene Science</i> , 2014, 14, 461-467.	0.3	3
98	Global self-rating of oral health, concerns about oral health, and history of jaw injury related to temporomandibular joint symptoms in Korean adults. <i>Journal of Orofacial Pain</i> , 2011, 25, 308-16.	1.7	3
99	Teaching Cariology in Asia and Arabia. <i>Caries Research</i> , 2022, 56, 109-115.	2.0	3
100	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
101	In vitro quantification of occlusal caries lesion using QLF-D, ICDAS, and DIAGNOdent. <i>Journal of Korean Academy of Oral Health</i> , 2014, 38, 105.	0.4	2
102	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. <i>Journal of Evidence-based Dental Practice</i> , 2017, 17, 416-419.	1.5	2
103	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
104	The susceptibility of oral bacteria to antibacterial photodynamic therapy. , 2019, , .		2
105	A novel model to predict tooth bleaching efficacy using autofluorescence of the tooth. <i>Journal of Dentistry</i> , 2022, 116, 103892.	4.1	2
106	Red fluorescence for assessing longitudinal tooth fractures. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022, , 102845.	2.6	2
107	Photodiagnosis of White Spot Lesions after Orthodontic Treatment with a Quantitative Light-induced Fluorescence-Digital System: A Pilot Study. <i>Oral Health & Preventive Dentistry</i> , 2017, 15, 483-488.	0.5	2
108	Lesion activity assessment of early caries using dye-enhanced quantitative light-induced fluorescence. <i>Scientific Reports</i> , 2022, 12, .	3.3	2

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109	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
110	Dental and Dental Hygiene Students's Knowledge and Perception on Fluoride Use in Dentistry. Journal of Contemporary Dental Practice, 2021, 22, 4-8.	0.5	0
111	Evaluation of wound dehiscence after vertical bone graft by using quantitative light-induced fluorescence. Photodiagnosis and Photodynamic Therapy, 2021, 36, 102470.	2.6	0
112	The Association Between Masticatory Function Assessment and Masseter Muscle Thickness in the Elderly. Journal of Oral Medicine and Pain, 2020, 45, 49-55.	0.2	0
113	Masticatory Performance and the Related Factors in Korean Children and Adolescents. The Journal of the Korean Academy of Pedtatric Dentistry, 2022, 49, 170-179.	0.4	0