Sam-Sun Lee

List of Publications by Year
in descending order

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98 papers	1,744 citations	304743 22 h-index	361022 35 g-index
101 all docs	101 docs citations	101 times ranked	1771 citing authors

#	Article	IF	Citations
1	Deep Learning Hybrid Method to Automatically Diagnose Periodontal Bone Loss and Stage Periodontitis. Scientific Reports, 2020, 10, 7531.	3.3	111
2	Ameloblastic carcinoma: an analysis of 6 cases with review of the literature. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2009, 108, 904-913.	1.4	109
3	Effects of Botulinum Toxin Type A on Bilateral Masseteric Hypertrophy Evaluated With Computed Tomographic Measurement. Dermatologic Surgery, 2003, 29, 484-489.	0.8	107
4	Automatic diagnosis for cysts and tumors of both jaws on panoramic radiographs using a deep convolution neural network. Dentomaxillofacial Radiology, 2020, 49, 20200185.	2.7	83
5	Texture analysis of mandibular cortical bone on digital dental panoramic radiographs for the diagnosis of osteoporosis in Korean women. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2015, 119, 346-356.	0.4	80
6	Fractal analysis of mandibular bony healing after orthognathic surgery. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2002, 94, 763-767.	1.4	61
7	Benign fibrous histiocytoma in the mandible. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2004, 97, 276-280.	1.4	39
8	The three-dimensional microstructure of trabecular bone: Analysis of site-specific variation in the human jaw bone. Imaging Science in Dentistry, 2013, 43, 227.	1.8	36
9	Granulocytic sarcoma occurring in the maxillary gingiva demonstrated by magnetic resonance imaging. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2001, 92, 689-693.	1.4	35
10	Quantitative analysis of normal major salivary glands using computed tomography. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2001, 92, 240-244.	1.4	32
11	Effect of ambient light and bit depth of digital radiograph on observer performance in determination of endodontic file positioning. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2008, 105, 239-244.	1.4	32
12	Direct measurement of trabecular bone anisotropy using directional fractal dimension and principal axes of inertia. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2007, 104, 110-116.	1.4	30
13	Quantitative analysis of apical root resorption by means of digital subtraction radiography. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2001, 91, 369-373.	1.4	29
14	Use of advanced imaging modalities for the differential diagnosis of pathoses mimicking temporomandibular disorders. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2003, 96, 630-638.	1.4	28
15	Comparison of effective dose for imaging of mandible between multi-detector CT and cone-beam CT. Imaging Science in Dentistry, 2012, 42, 65.	1.8	28
16	Comparative radiologic study of bone density and cortical thickness of donor bone used in mandibular reconstruction. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2001, 92, 23-29.	1.4	27
17	Clinical image quality evaluation for panoramic radiography in Korean dental clinics. Imaging Science in Dentistry, 2012, 42, 183.	1.8	27
18	The relationship between dental implant stability and trabecular bone structure using cone-beam computed tomography. Journal of Periodontal and Implant Science, 2016, 46, 116.	2.0	26

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19	Relationship between physical factors and subjective image quality of cone-beam computed tomography images according to diagnostic task. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2015, 119, 357-365.	0.4	25
20	Three new cases of salivary duct carcinoma in the palate: A radiologic investigation and review of the literature. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2003, 95, 752-760.	1.4	24
21	Hard and soft tissue changes of osteomyelitis of the jaws on CT images. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2012, 114, 118-126.	0.4	24
22	Autonomous bone reposition around anatomical landmark for robot-assisted orthognathic surgery. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1980-1988.	1.7	24
23	Three-dimensional natural head position reproduction using a single facial photograph based on the POSIT method. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 1315-1321.	1.7	23
24	Comparison of dental implant stabilities by impact response and resonance frequencies using artificial bone. Medical Engineering and Physics, 2014, 36, 715-720.	1.7	22
25	Predicting the configuration of a C-shaped canal system from panoramic radiographs. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2010, 109, e37-e41.	1.4	21
26	Effect of Scaling and Root Planing on Alveolar Bone as Measured by Subtraction Radiography. Journal of Periodontology, 2008, 79, 1663-1669.	3.4	19
27	Development of 3D statistical mandible models for cephalometric measurements. Imaging Science in Dentistry, 2012, 42, 175.	1.8	19
28	An integrated orthognathic surgery system for virtual planning and image-guided transfer without intermediate splint. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 2010-2017.	1.7	19
29	Effect of bit depth and kVp of digital radiography for detection of subtle differences. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2009, 108, 278-283.	1.4	18
30	Three-dimensional evaluation of human jaw bone microarchitecture: correlation between the microarchitectural parameters of cone beam computed tomography and micro-computer tomography. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2015, 120, 762-770.	0.4	18
31	QCBCT-NET for direct measurement of bone mineral density from quantitative cone-beam CT: a human skull phantom study. Scientific Reports, 2021, 11, 15083.	3.3	18
32	Correlation between 3-dimensional facial morphology and mandibular movement during maximum mouth opening and closing. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2010, 110, 648-656.	1.4	17
33	The relationship between the changes in three-dimensional facial morphology and mandibular movement after orthognathic surgery. Journal of Cranio-Maxillo-Facial Surgery, 2013, 41, 686-693.	1.7	17
34	Virtual skeletal complex model- and landmark-guided orthognathic surgery system. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 557-568.	1.7	17
35	Real-time augmented model guidance for mandibular proximal segment repositioning in orthognathic surgery, using electromagnetic tracking. Journal of Cranio-Maxillo-Facial Surgery, 2019, 47, 127-137.	1.7	17
36	Fractal analysis of mandibular trabecular bone: optimal tile sizes for the tile counting method. Imaging Science in Dentistry, 2011, 41, 71.	1.8	16

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37	An advanced navigational surgery system for dental implants completed in a single visit: An inÂvitro study. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 117-125.	1.7	16
38	Comparison of dosimetry methods for panoramic radiography: thermoluminescent dosimeter measurement versus personal computerâ€“based Monte Carlo method calculation. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2016, 121, 322-329.	0.4	16
39	Therapeutic effect of intraductal irrigation of the salivary gland: A technical report. Imaging Science in Dentistry, 2017, 47, 123.	1.8	16
40	Comparison of trabecular bone anisotropies based on fractal dimensions and mean intercept length determined by principal axes of inertia. Medical and Biological Engineering and Computing, 2007, 45, 357-364.	2.8	15
41	Is the panoramic mandibular index useful for bone quality evaluation?. Imaging Science in Dentistry, 2017, 47, 87.	1.8	15
42	Relationship between two-dimensional and three-dimensional bone architecture in predicting the mechanical strength of the pig mandible. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2006, 101, 363-373.	1.4	14
43	The relationship between three-dimensional principal rotations and mandibular deviation. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2010, 110, e52-e60.	1.4	14
44	ROI-based image registration for digital subtraction radiography. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2006, 101, 523-529.	1.4	13
45	Follow-up CT findings of recurrent familial gigantiform cementoma of a female child. Skeletal Radiology, 2012, 41, 341-346.	2.0	13
46	Quantitative analysis of errors in alveolar crest level caused by discrepant projection geometry in digital subtraction radiography: An in vivo study. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2005, 100, 750-755.	1.4	12
47	Langerhans cell histiocytosis of the jaw, a mimicker of osteomyelitis on CT and MR images. Medicine (United States), 2019, 98, e16331.	1.0	12
48	Automatic Detection of Teeth and Dental Treatment Patterns on Dental Panoramic Radiographs Using Deep Neural Networks. Forensic Sciences Research, 2022, 7, 456-466.	1.6	12
49	Bilateral postoperative maxillary cysts after orthognathic surgery: A case report. Imaging Science in Dentistry, 2014, 44, 321.	1.8	11
50	Haemophilic pseudotumour in two parts of the maxilla: case report. Dentomaxillofacial Radiology, 2016, 45, 20150440.	2.7	11
51	Direct and continuous localization of anatomical landmarks for image-guided orthognathic surgery. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2013, 116, 402-410.	0.4	10
52	A dose monitoring system for dental radiography. Imaging Science in Dentistry, 2016, 46, 103.	1.8	10
53	Multidetector computed tomography imaging characteristics of asymptomatic palatine tonsilloliths: a retrospective study on 3886 examinations. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2018, 125, 693-698.	0.4	10
54	Clinico-radiologic features of molar-incisor malformation in a case series of 38 patients. Medicine (United States), 2019, 98, e17356.	1.0	10

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55	A new method for the evaluation of dental implant stability using an inductive sensor. Medical Engineering and Physics, 2012, 34, 1247-1252.	1.7	9
56	The development of a learning management system for dental radiology education: A technical report. Imaging Science in Dentistry, 2017, 47, 51.	1.8	9
57	Performance of dental pattern analysis system with treatment chronology on panoramic radiography. Forensic Science International, 2019, 299, 229-234.	2.2	9
58	Clinical and panoramic radiographic features of osteomyelitis of the jaw: A comparison between antiresorptive medication-related and medication-unrelated conditions. Imaging Science in Dentistry, 2019, 49, 287.	1.8	9
59	The relationship between sialographic images and clinical symptoms of inflammatory parotid gland diseases. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2009, 107, e49-e56.	1.4	8
60	Principal direction of inertia for 3D trajectories from patient-specific TMJ movement. Computers in Biology and Medicine, 2013, 43, 169-175.	7.0	8
61	Volumetric quantification of bone-implant contact using micro-computed tomography analysis based on region-based segmentation. Imaging Science in Dentistry, 2015, 45, 7.	1.8	8
62	Radiographic features of cleidocranial dysplasia on panoramic radiographs. Imaging Science in Dentistry, 2021, 51, 271.	1.8	8
63	Quantitative Augmented Reality-Assisted Free-Hand Orthognathic Surgery Using Electromagnetic Tracking and Skin-Attached Dynamic Reference. Journal of Craniofacial Surgery, 2020, 31, 2175-2181.	0.7	8
64	Automatic noise robust registration of radiographs for subtraction using strategic local correlation: an application to radiographs of dental implants. Computers in Biology and Medicine, 2005, 35, 247-258.	7.0	7
65	Effect of LCD monitor type and observer experience on diagnostic performance in soft-copy interpretations of the maxillary sinus on panoramic radiographs. Imaging Science in Dentistry, 2011, 41, 11.	1.8	7
66	Reference line-pair values of panoramic radiographs using an arch-form phantom stand to assess clinical image quality. Imaging Science in Dentistry, 2013, 43, 7.	1.8	7
67	The relationship between radiological features and clinical manifestation and dental expenses of keratocystic odontogenic tumor. Imaging Science in Dentistry, 2013, 43, 91.	1.8	7
68	The effect of radiographic imaging modalities and the observer's experience on postoperative maxillary cyst assessment. Imaging Science in Dentistry, 2014, 44, 301.	1.8	7
69	Three-dimensional assessment of condylar surface changes and remodeling after orthognathic surgery. Imaging Science in Dentistry, 2016, 46, 25.	1.8	7
70	Development of a new ball-type phantom for evaluation of the image layer of panoramic radiography. Imaging Science in Dentistry, 2018, 48, 255.	1.8	7
71	Efficacy of the Monte Carlo method and dose reduction strategies in paediatric panoramic radiography. Scientific Reports, 2019, 9, 9691.	3.3	7
72	Correlation between spatial resolution and ball distortion rate of panoramic radiography. BMC Medical Imaging, 2020, 20, 68.	2.7	7

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73	Therapeutic effect of intraductal saline irrigation in chronic obstructive sialadenitis. BMC Oral Health, 2020, 20, 86.	2.3	7
74	Development and evaluation of digital subtraction radiography computer program. Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics, 2004, 98, 471-475.	1.4	6
75	Quantitative Evaluation of Patient Movement during Simulated Acquisition of Cephalometric Radiographs. Journal of Digital Imaging, 2011, 24, 552-559.	2.9	6
76	The effects of location of alveolar crest on the vertical bone heights on panoramic radiographs. Dentomaxillofacial Radiology, 2012, 41, 117-121.	2.7	6
77	Primitive neuroectodermal tumor of the maxillary sinus in an elderly male: A case report and literature review. Imaging Science in Dentistry, 2014, 44, 307.	1.8	6
78	Keratoameloblastoma: a case report and a review of the literature on its radiologic features. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2015, 120, e219-e225.	0.4	6
79	Radiopacity of contemporary luting cements using conventional and digital radiography. Imaging Science in Dentistry, 2018, 48, 97.	1.8	6
80	A Complete Digital Workflow for Planning, Simulation, and Evaluation in Orthognathic Surgery. Journal of Clinical Medicine, 2021, 10, 4000.	2.4	6
81	Accidental overextension of endodontic filling material in patients with neurologic complications: a retrospective case series. Dentomaxillofacial Radiology, 2016, 45, 20150394.	2.7	5
82	Computed tomography imaging features of osteomyelitis of the jaw: comparison between antiresorptive medication-related conditions and medication-unrelated conditions. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2020, 129, 629-634.	0.4	5
83	In-vitro study on the accuracy of a simple-design CT-guided stent for dental implants. Imaging Science in Dentistry, 2012, 42, 139.	1.8	4
84	Development of panorama resolution phantom for comprehensive evaluation of the horizontal and vertical resolution of panoramic radiography. Scientific Reports, 2020, 10, 16529.	3.3	4
85	Developing evidence-based clinical imaging guidelines of justification for radiographic examination after dental implant installation. BMC Medical Imaging, 2020, 20, 102.	2.7	4
86	Effects of energy level, reconstruction kernel, and tube rotation time on Hounsfield units of hydroxyapatite in virtual monochromatic images obtained with dual-energy CT. Imaging Science in Dentistry, 2019, 49, 273.	1.8	4
87	Comparison of the reproducibility of panoramic radiographs between dentulous and edentulous patients. Imaging Science in Dentistry, 2014, 44, 95.	1.8	3
88	Contrast reference values in panoramic radiographic images using an arch-form phantom stand. Imaging Science in Dentistry, 2016, 46, 203.	1.8	3
89	Automatic Reproduction of Natural Head Position Using a Portable 3D Scanner Based on Immediate Calibration. Applied Sciences (Switzerland), 2020, 10, 174.	2.5	3
90	Development of an evidence-based clinical imaging diagnostic guideline for implant planning: Joint recommendations of the Korean Academy of Oral and Maxillofacial Radiology and National Evidence-based Healthcare Collaborating Agency. Imaging Science in Dentistry, 2020, 50, 45.	1.8	3

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91	Development of a dental implant mobility measurement system using an inductive sensor. , 2011, 2011, 361-4.		2
92	Material decomposition with the multi-energy attenuation coefficient ratio by using a multiple discriminant analysis. Journal of the Korean Physical Society, 2016, 69, 231-240.	0.7	2
93	CT evaluation of underlying bone sclerosis in patients with oral squamous cell carcinoma: A preliminary retrospective study. Imaging Science in Dentistry, 2017, 47, 255.	1.8	2
94	Correlation analysis between radiation exposure and the image quality of cone-beam computed tomography in the dental clinical environment. Imaging Science in Dentistry, 2022, 52, 283.	1.8	2
95	Steatocystoma multiplex: A case report of a rare entity. Imaging Science in Dentistry, 2019, 49, 317.	1.8	1
96	Automatic noise robust registration of dental radiographs for implants using strategic local correlation. International Congress Series, 2004, 1268, 1157-1161.	0.2	0
97	A new bite block for panoramic radiographs of anterior edentulous patients: A technical report. Imaging Science in Dentistry, 2015, 45, 117.	1.8	0
98	Acquired facial lipoatrophy: A report of 3 cases with imaging features. Imaging Science in Dentistry, 2020, 50, 255.	1.8	0