

Namkug Kim

List of Publications by Year in descending order

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312
papers

10,166
citations

31976

53
h-index

53230

85
g-index

340
all docs

340
docs citations

340
times ranked

13182
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning in Medical Imaging: General Overview. Korean Journal of Radiology, 2017, 18, 570.	3.4	834
2	Regional cerebral cortical thinning in bipolar disorder. Bipolar Disorders, 2006, 8, 65-74.	1.9	266
3	Analysis of errors in medical rapid prototyping models. International Journal of Oral and Maxillofacial Surgery, 2002, 31, 23-32.	1.5	229
4	Quantitative Assessment of Emphysema, Air Trapping, and Airway Thickening on Computed Tomography. Lung, 2008, 186, 157-165.	3.3	194
5	Deep Learning in Medical Imaging. Neurospine, 2019, 16, 657-668.	2.9	186
6	Functional MR Imaging of Prostate Cancer. Radiographics, 2007, 27, 63-75.	3.3	185
7	Three-Dimensional Printing: Basic Principles and Applications in Medicine and Radiology. Korean Journal of Radiology, 2016, 17, 182.	3.4	183
8	Quantitative analysis of diffusion-weighted magnetic resonance imaging of the pancreas: Usefulness in characterizing solid pancreatic masses. Journal of Magnetic Resonance Imaging, 2008, 28, 928-936.	3.4	181
9	Deep into the Brain: Artificial Intelligence in Stroke Imaging. Journal of Stroke, 2017, 19, 277-285.	3.2	179
10	Feasibility of diffusion-weighted imaging in the differentiation of metastatic from nonmetastatic lymph nodes: Early experience. Journal of Magnetic Resonance Imaging, 2008, 28, 714-719.	3.4	162
11	Xenon Ventilation CT with a Dual-Energy Technique of Dual-Source CT: Initial Experience. Radiology, 2008, 248, 615-624.	7.3	155
12	Clinical Application of Three-Dimensional Printing Technology in Craniofacial Plastic Surgery. Archives of Plastic Surgery, 2015, 42, 267-277.	0.9	143
13	Percent Change of Perfusion Skewness and Kurtosis: A Potential Imaging Biomarker for Early Treatment Response in Patients with Newly Diagnosed Glioblastomas. Radiology, 2012, 264, 834-843.	7.3	142
14	Malignant Hepatic Tumors: Short-term Reproducibility of Apparent Diffusion Coefficients with Breath-hold and Respiratory-triggered Diffusion-weighted MR Imaging. Radiology, 2010, 255, 815-823.	7.3	134
15	Machine Learning Approach to Identify Stroke Within 4.5 Hours. Stroke, 2020, 51, 860-866.	2.0	116
16	Computer-aided diagnosis for classifying benign versus malignant thyroid nodules based on ultrasound images: A comparison with radiologist-based assessments. Medical Physics, 2016, 43, 554-567.	3.0	103
17	Altitude, Gun Ownership, Rural Areas, and Suicide. American Journal of Psychiatry, 2011, 168, 49-54.	7.2	101
18	Efficient liver segmentation using a level-set method with optimal detection of the initial liver boundary from level-set speed images. Computer Methods and Programs in Biomedicine, 2007, 88, 26-38.	4.7	100

#	ARTICLE	IF	CITATIONS
19	Hepatic Fat Quantification. <i>Investigative Radiology</i> , 2012, 47, 368-375.	6.2	98
20	Which Combination of MR Imaging Modalities Is Best for Predicting Recurrent Glioblastoma? Study of Diagnostic Accuracy and Reproducibility. <i>Radiology</i> , 2014, 273, 831-843.	7.3	98
21	Texture-Based Quantification of Pulmonary Emphysema on High-Resolution Computed Tomography: Comparison With Density-Based Quantification and Correlation With Pulmonary Function Test. <i>Investigative Radiology</i> , 2008, 43, 395-402.	6.2	93
22	Intravoxel Incoherent Motion Diffusion-weighted MR Imaging of the Liver: Effect of Triggering Methods on Regional Variability and Measurement Repeatability of Quantitative Parameters. <i>Radiology</i> , 2015, 274, 405-415.	7.3	93
23	CT Histogram Analysis: Differentiation of Angiomyolipoma without Visible Fat from Renal Cell Carcinoma at CT Imaging. <i>Radiology</i> , 2008, 246, 472-479.	7.3	92
24	Increasing burden of liver cancer despite extensive use of antiviral agents in a hepatitis B virus endemic population. <i>Hepatology</i> , 2017, 66, 1454-1463.	7.3	92
25	Relationship between N-acetyl-aspartate in gray and white matter of abstinent methamphetamine abusers and their history of drug abuse: A proton magnetic resonance spectroscopy study. <i>Drug and Alcohol Dependence</i> , 2007, 88, 28-35.	3.2	90
26	Apparent diffusion coefficient: Prostate cancer versus noncancerous tissue according to anatomical region. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 1173-1179.	3.4	90
27	Deep Learning Applications in Chest Radiography and Computed Tomography. <i>Journal of Thoracic Imaging</i> , 2019, 34, 75-85.	1.5	90
28	Responses to inhaled long-acting beta-agonist and corticosteroid according to COPD subtype. <i>Respiratory Medicine</i> , 2010, 104, 542-549.	2.9	89
29	Alterations of mean diffusivity in brain white matter and deep gray matter in Parkinson's disease. <i>Neuroscience Letters</i> , 2013, 550, 64-68.	2.1	87
30	Relative apparent diffusion coefficient: Determination of reference site and validation of benefit for detecting metastatic lymph nodes in uterine cervical cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 29, 383-390.	3.4	86
31	Xenon Ventilation Imaging Using Dual-Energy Computed Tomography in Asthmatics. <i>Investigative Radiology</i> , 2010, 45, 354-361.	6.2	84
32	Prediction of Pseudoprogression in Patients with Glioblastomas Using the Initial and Final Area Under the Curves Ratio Derived from Dynamic Contrast-Enhanced T1-Weighted Perfusion MR Imaging. <i>American Journal of Neuroradiology</i> , 2013, 34, 2278-2286.	2.4	80
33	Volumetric, planar, and linear analyses of pharyngeal airway change on computed tomography and cephalometry after mandibular setback surgery. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2010, 138, 292-299.	1.7	79
34	Lung Segmentation on HRCT and Volumetric CT for Diffuse Interstitial Lung Disease Using Deep Convolutional Neural Networks. <i>Journal of Digital Imaging</i> , 2019, 32, 1019-1026.	2.9	79
35	Comparison of Shallow and Deep Learning Methods on Classifying the Regional Pattern of Diffuse Lung Disease. <i>Journal of Digital Imaging</i> , 2018, 31, 415-424.	2.9	78
36	Evaluation of computer-aided detection and dual energy software in detection of peripheral pulmonary embolism on dual-energy pulmonary CT angiography. <i>European Radiology</i> , 2011, 21, 54-62.	4.5	77

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37	Recurrent Glioblastoma: Optimum Area under the Curve Method Derived from Dynamic Contrast-enhanced T1-weighted Perfusion MR Imaging. <i>Radiology</i> , 2013, 269, 561-568.	7.3	76
38	Improvement of fully automated airway segmentation on volumetric computed tomographic images using a 2.5 dimensional convolutional neural net. <i>Medical Image Analysis</i> , 2019, 51, 13-20.	11.6	75
39	Radiomic features and multilayer perceptron network classifier: a robust MRI classification strategy for distinguishing glioblastoma from primary central nervous system lymphoma. <i>Scientific Reports</i> , 2019, 9, 5746.	3.3	73
40	Histogram Analysis of Intravoxel Incoherent Motion for Differentiating Recurrent Tumor from Treatment Effect in Patients with Glioblastoma: Initial Clinical Experience. <i>American Journal of Neuroradiology</i> , 2014, 35, 490-497.	2.4	72
41	Myocardial 3-Dimensional Printing for Septal Myectomy Guidance in a Patient With Obstructive Hypertrophic Cardiomyopathy. <i>Circulation</i> , 2015, 132, 300-301.	1.6	72
42	Endoscopic diagnosis and treatment planning for colorectal polyps using a deep-learning model. <i>Scientific Reports</i> , 2020, 10, 30.	3.3	68
43	Atypical Imaging Features of Primary Central Nervous System Lymphoma That Mimics Glioblastoma: Utility of Intravoxel Incoherent Motion MR Imaging. <i>Radiology</i> , 2014, 272, 504-513.	7.3	67
44	A multifunctional mesoporous nanocontainer with an iron oxide core and a cyclodextrin gatekeeper for an efficient theranostic platform. <i>Journal of Materials Chemistry</i> , 2012, 22, 14061.	6.7	66
45	Disrupted white matter tract integrity of anterior cingulate in trauma survivors. <i>NeuroReport</i> , 2005, 16, 1049-1053.	1.2	64
46	Reproducibility of measurement of apparent diffusion coefficients of malignant hepatic tumors: Effect of DWI techniques and calculation methods. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 1131-1138.	3.4	62
47	Fully Automated Lung Lobe Segmentation in Volumetric Chest CT with 3D U-Net: Validation with Intra- and Extra-Datasets. <i>Journal of Digital Imaging</i> , 2020, 33, 221-230.	2.9	61
48	Accuracy of a simplified 3D-printed implant surgical guide. <i>Journal of Prosthetic Dentistry</i> , 2020, 124, 195-201.e2.	2.8	61
49	Node-by-node correlation between MR and PET/CT in patients with uterine cervical cancer: diffusion-weighted imaging versus size-based criteria on T2WI. <i>European Radiology</i> , 2009, 19, 2024-2032.	4.5	60
50	Texture-Based Automated Quantitative Assessment of Regional Patterns on Initial CT in Patients With Idiopathic Pulmonary Fibrosis: Relationship to Decline in Forced Vital Capacity. <i>American Journal of Roentgenology</i> , 2016, 207, 976-983.	2.2	59
51	Application of deep learning-based computer-aided detection system: detecting pneumothorax on chest radiograph after biopsy. <i>European Radiology</i> , 2019, 29, 5341-5348.	4.5	58
52	Quantitatively Assessed Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Patients With Chronic Obstructive Pulmonary Disease: Correlation of Perfusion Parameters With Pulmonary Function Test and Quantitative Computed Tomography. <i>Investigative Radiology</i> , 2008, 43, 403-410.	6.2	57
53	Real-time detection of colon polyps during colonoscopy using deep learning: systematic validation with four independent datasets. <i>Scientific Reports</i> , 2020, 10, 8379.	3.3	57
54	Decreased GABA levels in anterior cingulate and basal ganglia in medicated subjects with panic disorder: A proton magnetic resonance spectroscopy (1H-MRS) study. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2007, 31, 403-411.	4.8	56

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55	Stress Myocardial Perfusion CT in Patients Suspected of Having Coronary Artery Disease: Visual and Quantitative Analysis—Validation by Using Fractional Flow Reserve. <i>Radiology</i> , 2015, 276, 715-723.	7.3	56
56	Content-based Image Retrieval by Using Deep Learning for Interstitial Lung Disease Diagnosis with Chest CT. <i>Radiology</i> , 2022, 302, 187-197.	7.3	56
57	Hepatic fat quantification using chemical shift MR imaging and MR spectroscopy in the presence of hepatic iron deposition: Validation in phantoms and in patients with chronic liver disease. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1390-1398.	3.4	55
58	Incidence of major depressive episode correlates with elevation of substate region of residence. <i>Journal of Affective Disorders</i> , 2011, 129, 376-379.	4.1	49
59	Multi-VENC acquisition of four-dimensional phase-contrast MRI to improve precision of velocity field measurement. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1909-1919.	3.0	49
60	Intravoxel incoherent motion MRI for liver fibrosis assessment: a pilot study. <i>Acta Radiologica</i> , 2015, 56, 1428-1436.	1.1	47
61	Generation of customized orbital implant templates using 3-dimensional printing for orbital wall reconstruction. <i>Eye</i> , 2018, 32, 1864-1870.	2.1	47
62	Artificial Intelligence in Health Care: Current Applications and Issues. <i>Journal of Korean Medical Science</i> , 2020, 35, e379.	2.5	46
63	Quantitative assessment of change in regional disease patterns on serial HRCT of fibrotic interstitial pneumonia with texture-based automated quantification system. <i>European Radiology</i> , 2012, 23, 692-701.	4.5	44
64	Preoperative portal vein embolization using an amplatzer vascular plug. <i>European Radiology</i> , 2009, 19, 1054-1061.	4.5	43
65	A Perlin Noise-Based Augmentation Strategy for Deep Learning with Small Data Samples of HRCT Images. <i>Scientific Reports</i> , 2018, 8, 17687.	3.3	43
66	Effectiveness of transfer learning for enhancing tumor classification with a convolutional neural network on frozen sections. <i>Scientific Reports</i> , 2020, 10, 21899.	3.3	42
67	Histogram Analysis of Apparent Diffusion Coefficient Maps for Differentiating Primary CNS Lymphomas From Tumefactive Demyelinating Lesions. <i>American Journal of Roentgenology</i> , 2015, 204, 827-834.	2.2	41
68	Detailed analysis of the density change on chest CT of COPD using non-rigid registration of inspiration/expiration CT scans. <i>European Radiology</i> , 2015, 25, 541-549.	4.5	40
69	Fully Automatic Segmentation of Acute Ischemic Lesions on Diffusion-Weighted Imaging Using Convolutional Neural Networks: Comparison with Conventional Algorithms. <i>Korean Journal of Radiology</i> , 2019, 20, 1275.	3.4	40
70	Review: Magnetic Resonance Spectroscopy Studies of Pediatric Major Depressive Disorder. <i>Depression Research and Treatment</i> , 2011, 2011, 1-13.	1.3	39
71	Prediction of Postoperative Lung Function in Patients Undergoing Lung Resection. <i>Investigative Radiology</i> , 2013, 48, 622-627.	6.2	38
72	Impact of air pollution on breast cancer incidence and mortality: a nationwide analysis in South Korea. <i>Scientific Reports</i> , 2020, 10, 5392.	3.3	38

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73	Development of an Automatic Classification System for Differentiation of Obstructive Lung Disease using HRCT. <i>Journal of Digital Imaging</i> , 2009, 22, 136-148.	2.9	36
74	Sex differences in amygdala subregions: Evidence from subregional shape analysis. <i>NeuroImage</i> , 2012, 60, 2054-2061.	4.2	36
75	Oropharyngeal squamous cell carcinoma: radiomic machine-learning classifiers from multiparametric MR images for determination of HPV infection status. <i>Scientific Reports</i> , 2020, 10, 17525.	3.3	36
76	Hemodynamic Measurement Using Four-Dimensional Phase-Contrast MRI: Quantification of Hemodynamic Parameters and Clinical Applications. <i>Korean Journal of Radiology</i> , 2016, 17, 445.	3.4	35
77	Prediction of survival by texture-based automated quantitative assessment of regional disease patterns on CT in idiopathic pulmonary fibrosis. <i>European Radiology</i> , 2018, 28, 1293-1300.	4.5	35
78	A Pilot Trial on Pulmonary Emphysema Quantification and Perfusion Mapping in a Single-Step Using Contrast-Enhanced Dual-Energy Computed Tomography. <i>Investigative Radiology</i> , 2012, 47, 92-97.	6.2	34
79	Turbulent Kinetic Energy Measurement Using Phase Contrast MRI for Estimating the Post-Stenotic Pressure Drop: In Vitro Validation and Clinical Application. <i>PLoS ONE</i> , 2016, 11, e0151540.	2.5	34
80	Computer-aided detection system for masses in automated whole breast ultrasonography: development and evaluation of the effectiveness. <i>Ultrasonography</i> , 2014, 33, 105-115.	2.3	34
81	The Value of CT for Disease Detection and Prognosis Determination in Combined Pulmonary Fibrosis and Emphysema (CPFE). <i>PLoS ONE</i> , 2014, 9, e107476.	2.5	33
82	Slope of Emphysema Index: An Objective Descriptor of Regional Heterogeneity of Emphysema and an Independent Determinant of Pulmonary Function. <i>American Journal of Roentgenology</i> , 2010, 194, W248-W255.	2.2	32
83	Assessment of Regional Xenon Ventilation, Perfusion, and Ventilation-Perfusion Mismatch Using Dual-Energy Computed Tomography in Chronic Obstructive Pulmonary Disease Patients. <i>Investigative Radiology</i> , 2016, 51, 306-315.	6.2	32
84	Distributed Concurrent Engineering: Internet-Based Interactive 3-D Dynamic Browsing and Markup of STEP Data. <i>Concurrent Engineering Research and Applications</i> , 1998, 6, 53-70.	3.2	31
85	Feasibility of Automated Quantification of Regional Disease Patterns Depicted on High-Resolution Computed Tomography in Patients with Various Diffuse Lung Diseases. <i>Korean Journal of Radiology</i> , 2009, 10, 455.	3.4	31
86	Airway Measurement for Airway Remodeling Defined by Post-Bronchodilator FEV1/FVC in Asthma: Investigation Using Inspiration-Expiration Computed Tomography. <i>Allergy, Asthma and Immunology Research</i> , 2011, 3, 111.	2.9	31
87	Semi-Automatic Measurement of the Airway Dimension by Computed Tomography Using the Full-Width-Half-Maximum Method: a Study on the Measurement Accuracy according to the CT Parameters and Size of the Airway. <i>Korean Journal of Radiology</i> , 2008, 9, 226.	3.4	30
88	Panoramic endoluminal display with minimal image distortion using circumferential radial ray-casting for primary three-dimensional interpretation of CT colonography. <i>European Radiology</i> , 2009, 19, 1951-1959.	4.5	30
89	CT Image Conversion among Different Reconstruction Kernels without a Sinogram by Using a Convolutional Neural Network. <i>Korean Journal of Radiology</i> , 2019, 20, 295.	3.4	30
90	Deep-learning-based image quality enhancement of compressed sensing magnetic resonance imaging of vessel wall: comparison of self-supervised and unsupervised approaches. <i>Scientific Reports</i> , 2020, 10, 13950.	3.3	30

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91	Evaluation of Tumor Angiogenesis with a Second-Generation US Contrast Medium in a Rat Breast Tumor Model. Korean Journal of Radiology, 2008, 9, 243.	3.4	29
92	CT scanning-based phenotypes vary with ADRB2 polymorphisms in chronic obstructive pulmonary disease. Respiratory Medicine, 2009, 103, 98-103.	2.9	29
93	The influence of the aortic valve angle on the hemodynamic features of the thoracic aorta. Scientific Reports, 2016, 6, 32316.	3.3	29
94	Prediction of Pulmonary Function in Patients with Chronic Obstructive Pulmonary Disease: Correlation with Quantitative CT Parameters. Korean Journal of Radiology, 2019, 20, 683.	3.4	29
95	Collateral Ventilation to Congenital Hyperlucent Lung Lesions Assessed on Xenon-Enhanced Dynamic Dual-Energy CT: an Initial Experience. Korean Journal of Radiology, 2011, 12, 25.	3.4	28
96	Subprosthetic Pannus after Aortic Valve Replacement Surgery: Cardiac CT Findings and Clinical Features. Radiology, 2015, 276, 724-731.	7.3	28
97	Histogram Analysis of Apparent Diffusion Coefficients for Occult Tonsil Cancer in Patients with Cervical Nodal Metastasis from an Unknown Primary Site at Presentation. Radiology, 2016, 278, 146-155.	7.3	28
98	Validation of a CT-guided intervention robot for biopsy and radiofrequency ablation: experimental study with an abdominal phantom. Diagnostic and Interventional Radiology, 2017, 23, 233-237.	1.5	28
99	A three-dimensional analysis of soft and hard tissue changes after a mandibular setback surgery. Computer Methods and Programs in Biomedicine, 2006, 83, 178-187.	4.7	27
100	Performance testing of several classifiers for differentiating obstructive lung diseases based on texture analysis at high-resolution computerized tomography (HRCT). Computer Methods and Programs in Biomedicine, 2009, 93, 206-215.	4.7	27
101	Perfusion- and pattern-based quantitative CT indexes using contrast-enhanced dual-energy computed tomography in diffuse interstitial lung disease: relationships with physiologic impairment and prediction of prognosis. European Radiology, 2016, 26, 1368-1377.	4.5	27
102	Fully automated 3D segmentation and separation of multiple cervical vertebrae in CT images using a 2D convolutional neural network. Computer Methods and Programs in Biomedicine, 2020, 184, 105119.	4.7	27
103	Active learning for accuracy enhancement of semantic segmentation with CNN-corrected label curations: Evaluation on kidney segmentation in abdominal CT. Scientific Reports, 2020, 10, 366.	3.3	27
104	Is Diffusion-Weighted MRI Useful for Differentiation of Small Non-Necrotic Cervical Lymph Nodes in Patients with Head and Neck Malignancies?. Korean Journal of Radiology, 2014, 15, 810.	3.4	26
105	Altitude is a risk factor for completed suicide in bipolar disorder. Medical Hypotheses, 2014, 82, 377-381.	1.5	26
106	Incremental Value of Subtended Myocardial Mass for Identifying FFR-Verified Ischemia Using Quantitative CT Angiography. JACC: Cardiovascular Imaging, 2019, 12, 707-717.	5.3	26
107	Enhancement of surgical hand gesture recognition using a capsule network for a contactless interface in the operating room. Computer Methods and Programs in Biomedicine, 2020, 190, 105385.	4.7	26
108	Diffusion and perfusion MRI radiomics obtained from deep learning segmentation provides reproducible and comparable diagnostic model to human in post-treatment glioblastoma. European Radiology, 2021, 31, 3127-3137.	4.5	26

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109	Neurochemical Alterations in Methamphetamine-Dependent Patients Treated with Cytidine-5â€²-Diphosphate Choline: A Longitudinal Proton Magnetic Resonance Spectroscopy Study. <i>Neuropsychopharmacology</i> , 2010, 35, 1165-1173.	5.4	25
110	Comparison of Usual Interstitial Pneumonia and Nonspecific Interstitial Pneumonia: Quantification of Disease Severity and Discrimination between Two Diseases on HRCT Using a Texture-Based Automated System. <i>Korean Journal of Radiology</i> , 2011, 12, 297.	3.4	25
111	Doubling time of thymic epithelial tumours on CT: correlation with histological subtype. <i>European Radiology</i> , 2017, 27, 4030-4036.	4.5	25
112	Application of 3-D Printed Kidney Model in Partial Nephrectomy for Predicting Surgical Outcomes: A Feasibility Study. <i>Clinical Genitourinary Cancer</i> , 2019, 17, e878-e884.	1.9	25
113	Automatic reconstruction of the arterial and venous trees on volumetric chest CT. <i>Medical Physics</i> , 2013, 40, 071906.	3.0	24
114	Effects of emphysema on physiological and prognostic characteristics of lung function in idiopathic pulmonary fibrosis. <i>Respirology</i> , 2019, 24, 55-62.	2.3	24
115	Development of a CT imaging phantom of anthropomorphic lung using fused deposition modeling 3D printing. <i>Medicine (United States)</i> , 2020, 99, e18617.	1.0	24
116	Development of machine learning-based clinical decision support system for hepatocellular carcinoma. <i>Scientific Reports</i> , 2020, 10, 14855.	3.3	24
117	Opportunistic Osteoporosis Screening Using Chest Radiographs With Deep Learning: Development and External Validation With a Cohort Dataset. <i>Journal of Bone and Mineral Research</i> , 2020, 37, 369-377.	2.8	24
118	Semi-Automatic Measurement of the Airway Dimension by Computed Tomography Using the Full-With-Half-Maximum Method: a Study of the Measurement Accuracy according to the Orientation of an Artificial Airway. <i>Korean Journal of Radiology</i> , 2008, 9, 236.	3.4	23
119	Optimal threshold of subtraction method for quantification of air-trapping on coregistered CT in COPD patients. <i>European Radiology</i> , 2016, 26, 2184-2192.	4.5	23
120	Prediction of osteoporosis from simple hip radiography using deep learning algorithm. <i>Scientific Reports</i> , 2021, 11, 19997.	3.3	23
121	Assessment of regional emphysema, air-trapping and Xenon-ventilation using dual-energy computed tomography in chronic obstructive pulmonary disease patients. <i>European Radiology</i> , 2017, 27, 2818-2827.	4.5	22
122	Accuracy of automated identification of lateral cephalometric landmarks using cascade convolutional neural networks on lateral cephalograms from nationwide multi-centres. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 59-67.	2.8	22
123	Development of a personalized and realistic educational thyroid cancer phantom based on CT images: An evaluation of accuracy between three different 3D printers. <i>Computers in Biology and Medicine</i> , 2019, 113, 103393.	7.0	21
124	Improved correlation between CT emphysema quantification and pulmonary function test by density correction of volumetric CT data based on air and aortic density. <i>European Journal of Radiology</i> , 2014, 83, 57-63.	2.6	20
125	Four-dimensional flow MRI for evaluation of post-stenotic turbulent flow in a phantom: comparison with flowmeter and computational fluid dynamics. <i>European Radiology</i> , 2016, 26, 3588-3597.	4.5	20
126	Enhancement of gesture recognition for contactless interface using a personalized classifier in the operating room. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 161, 39-44.	4.7	20

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127	Quantitative assessment of pulmonary vascular alterations in chronic obstructive lung disease: Associations with pulmonary function test and survival in the KOLD cohort. <i>European Journal of Radiology</i> , 2018, 108, 276-282.	2.6	20
128	Collateral Ventilation in a Canine Model with Bronchial Obstruction: Assessment with Xenon-enhanced Dual-Energy CT. <i>Radiology</i> , 2010, 255, 790-798.	7.3	19
129	A support vector machine classifier reduces interscanner variation in the HRCT classification of regional disease pattern in diffuse lung disease: Comparison to a Bayesian classifier. <i>Medical Physics</i> , 2013, 40, 051912.	3.0	19
130	Improvement in Ventilation-Perfusion Mismatch after Bronchoscopic Lung Volume Reduction: Quantitative Image Analysis. <i>Radiology</i> , 2017, 285, 250-260.	7.3	19
131	Deep learning-based algorithm to detect primary hepatic malignancy in multiphase CT of patients at high risk for HCC. <i>European Radiology</i> , 2021, 31, 7047-7057.	4.5	19
132	High Altitude Remains Associated with Elevated Suicide Rates after Adjusting for Socioeconomic Status: A Study from South Korea. <i>Psychiatry Investigation</i> , 2014, 11, 492.	1.6	19
133	Relationship between altitude and lithium in groundwater in the United States of America: results of a 1992-2003 study. <i>Geospatial Health</i> , 2014, 9, 231.	0.8	18
134	Short-term Reproducibility of Pulmonary Nodule and Mass Detection in Chest Radiographs: Comparison among Radiologists and Four Different Computer-Aided Detections with Convolutional Neural Net. <i>Scientific Reports</i> , 2019, 9, 18738.	3.3	18
135	Content-Based Image Retrieval of Chest CT with Convolutional Neural Network for Diffuse Interstitial Lung Disease: Performance Assessment in Three Major Idiopathic Interstitial Pneumonias. <i>Korean Journal of Radiology</i> , 2021, 22, 281.	3.4	18
136	Quantitative exponential modelling of copycat suicides: association with mass media effect in South Korea. <i>Epidemiology and Psychiatric Sciences</i> , 2015, 24, 150-157.	3.9	17
137	Better Diagnosis of Functionally Significant Intermediate Sized Narrowings Using Intravascular Ultrasound-Minimal Lumen Area and Coronary Computed Tomographic Angiography-Based Myocardial Segmentation. <i>American Journal of Cardiology</i> , 2016, 117, 1282-1288.	1.6	17
138	Association Between Altitude and Regional Variation of ADHD in Youth. <i>Journal of Attention Disorders</i> , 2018, 22, 1299-1306.	2.6	17
139	Development of a Computer-Aided Differential Diagnosis System to Distinguish Between Usual Interstitial Pneumonia and Non-specific Interstitial Pneumonia Using Texture- and Shape-Based Hierarchical Classifiers on HRCT Images. <i>Journal of Digital Imaging</i> , 2018, 31, 235-244.	2.9	17
140	MRI-based 3D-printed surgical guides for breast cancer patients who received neoadjuvant chemotherapy. <i>Scientific Reports</i> , 2019, 9, 11991.	3.3	17
141	Association between long-term exposure to air pollutants and cardiopulmonary mortality rates in South Korea. <i>BMC Public Health</i> , 2020, 20, 1402.	2.9	17
142	Optimal matrix size of chest radiographs for computer-aided detection on lung nodule or mass with deep learning. <i>European Radiology</i> , 2020, 30, 4943-4951.	4.5	17
143	Automatic tip detection of surgical instruments in biportal endoscopic spine surgery. <i>Computers in Biology and Medicine</i> , 2021, 133, 104384.	7.0	17
144	Tracheal morphology and collapse in COPD: Correlation with CT indices and pulmonary function test. <i>European Journal of Radiology</i> , 2011, 80, e531-e535.	2.6	16

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145	Open-Label Uridine for Treatment of Depressed Adolescents with Bipolar Disorder. <i>Journal of Child and Adolescent Psychopharmacology</i> , 2011, 21, 171-175.	1.3	16
146	Cocaine Use in the Past Year Is Associated With Altitude of Residence. <i>Journal of Addiction Medicine</i> , 2012, 6, 166-171.	2.6	16
147	Mathematically Derived Criteria for Detecting Functionally Significant Stenoses Using Coronary Computed Tomographic Angiography-Based Myocardial Segmentation and Intravascular Ultrasound-Measured Minimal Lumen Area. <i>American Journal of Cardiology</i> , 2016, 118, 170-176.	1.6	16
148	Usefulness of a 3D-Printed Thyroid Cancer Phantom for Clinician to Patient Communication. <i>World Journal of Surgery</i> , 2020, 44, 788-794.	1.6	16
149	Patient-specific and hyper-realistic phantom for an intubation simulator with a replaceable difficult airway of a toddler using 3D printing. <i>Scientific Reports</i> , 2020, 10, 10631.	3.3	16
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