

Chang Hyun Lee

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,710
citations

201385

27
h-index

189595

50
g-index

84
all docs

84
docs citations

84
times ranked

3107
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation Dose Modulation Techniques in the Multidetector CT Era: From Basics to Practice. Radiographics, 2008, 28, 1451-1459.	1.4	279
2	Nodular Ground-Glass Opacity at Thin-Section CT: Histologic Correlation and Evaluation of Change at Follow-up. Radiographics, 2007, 27, 391-408.	1.4	258
3	Tumors in the Tracheobronchial Tree: CT and FDG PET Features. Radiographics, 2009, 29, 55-71.	1.4	146
4	Predictive CT findings of malignancy in ground-glass nodules on thin-section chest CT: the effects on radiologist performance. European Radiology, 2009, 19, 552-560.	2.3	121
5	Transient Part-Solid Nodules Detected at Screening Thin-Section CT for Lung Cancer: Comparison with Persistent Part-Solid Nodules. Radiology, 2010, 255, 242-251.	3.6	121
6	Nodular Ground-Glass Opacities on Thin-section CT: Size Change during Follow-up and Pathological Results. Korean Journal of Radiology, 2007, 8, 22.	1.5	103
7	Chronic Obstructive Pulmonary Disease: Quantitative and Visual Ventilation Pattern Analysis at Xenon Ventilation CT Performed by Using a Dual-Energy Technique. Radiology, 2010, 256, 985-997.	3.6	101
8	Sagittal Abdominal Diameter Is a Strong Anthropometric Measure of Visceral Adipose Tissue in the Asian General Population. Diabetes Care, 2010, 33, 2665-2670.	4.3	89
9	Correlation between Pneumonia Severity and Pulmonary Complications in Middle East Respiratory Syndrome. Journal of Korean Medical Science, 2018, 33, e169.	1.1	89
10	Differentiation between malignancy and inflammation in pulmonary ground-glass nodules: The feasibility of integrated 18F-FDG PET/CT. Lung Cancer, 2009, 65, 180-186.	0.9	85
11	Pulmonary Nodular Ground-Glass Opacities in Patients With Extrapulmonary Cancers. Chest, 2008, 133, 1402-1409.	0.4	69
12	Impact of long-term exposure to ambient air pollution on the incidence of chronic obstructive pulmonary disease: A systematic review and meta-analysis. Environmental Research, 2021, 194, 110703.	3.7	69
13	Computer-Aided Nodule Detection and Volumetry to Reduce Variability Between Radiologists in the Interpretation of Lung Nodules at Low-Dose Screening Computed Tomography. Investigative Radiology, 2012, 47, 457-461.	3.5	64
14	Extension of Coronavirus Disease 2019 on Chest CT and Implications for Chest Radiographic Interpretation. Radiology: Cardiothoracic Imaging, 2020, 2, e200107.	0.9	59
15	Quantitative analysis of emphysema and airway measurements according to iterative reconstruction algorithms: comparison of filtered back projection, adaptive statistical iterative reconstruction and model-based iterative reconstruction. European Radiology, 2014, 24, 799-806.	2.3	50
16	Xenon-Enhanced Dual-Energy CT of Patients With Asthma: Dynamic Ventilation Changes After Methacholine and Salbutamol Inhalation. American Journal of Roentgenology, 2012, 199, 975-981.	1.0	49
17	Focal interstitial fibrosis manifesting as nodular ground-glass opacity: thin-section CT findings. European Radiology, 2007, 17, 2325-2331.	2.3	43
18	Software performance in segmenting ground-glass and solid components of subsolid nodules in pulmonary adenocarcinomas. European Radiology, 2016, 26, 4465-4474.	2.3	42

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19	Efficacy of Computer-Aided Detection System and Thin-Slab Maximum Intensity Projection Technique in the Detection of Pulmonary Nodules in Patients With Resected Metastases. <i>Investigative Radiology</i> , 2009, 44, 105-113.	3.5	40
20	A 3D-CNN model with CT-based parametric response mapping for classifying COPD subjects. <i>Scientific Reports</i> , 2021, 11, 34.	1.6	40
21	The Crazy-paving Sign. <i>Radiology</i> , 2007, 243, 905-906.	3.6	38
22	CTA Contrast Enhancement of the Aorta and Pulmonary Artery. <i>Investigative Radiology</i> , 2007, 42, 486-490.	3.5	36
23	Determination of Optimal Timing Window for Pulmonary Artery MDCT Angiography. <i>American Journal of Roentgenology</i> , 2007, 188, 313-317.	1.0	35
24	Chest Computed Tomographic Findings and Clinical Features of Legionella Pneumonia. <i>Journal of Computer Assisted Tomography</i> , 2007, 31, 950-955.	0.5	33
25	Value of Combined Interpretation of Computed Tomography Response and Positron Emission Tomography Response for Prediction of Prognosis After Neoadjuvant Chemotherapy in Non-small Cell Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2010, 5, 497-503.	0.5	33
26	EGFR gene copy number in adenocarcinoma of the lung by FISH analysis: Investigation of significantly related factors on CT, FDG-PET, and histopathology. <i>Lung Cancer</i> , 2009, 64, 179-186.	0.9	31
27	Imaging of COVID-19 pneumonia: Patterns, pathogenesis, and advances. <i>British Journal of Radiology</i> , 2020, 93, 20200538.	1.0	31
28	The Long-term Reoperation Rate Following Surgery for Lumbar Herniated Intervertebral Disc Disease. <i>Spine</i> , 2019, 44, 1382-1389.	1.0	30
29	Non-tuberculous mycobacterial lung disease: diagnosis based on computed tomography of the chest. <i>European Radiology</i> , 2016, 26, 4449-4456.	2.3	27
30	Retrospective assessment of interobserver agreement and accuracy in classifications and measurements in subsolid nodules with solid components less than 8mm: which window setting is better?. <i>European Radiology</i> , 2017, 27, 1369-1376.	2.3	27
31	Semiquantitative Measurement of Murine Bleomycin-Induced Lung Fibrosis in In Vivo and Postmortem Conditions Using Microcomputed Tomography: Correlation With Pathologic Scores. Initial Results. <i>Investigative Radiology</i> , 2008, 43, 453-460.	3.5	25
32	Imaging-based clusters in former smokers of the COPD cohort associate with clinical characteristics: the SubPopulations and intermediate outcome measures in COPD study (SPIROMICS). <i>Respiratory Research</i> , 2019, 20, 153.	1.4	25
33	The role of dual-energy computed tomography in the assessment of pulmonary function. <i>European Journal of Radiology</i> , 2017, 86, 320-334.	1.2	22
34	Is the Computer-Aided Detection Scheme for Lung Nodule Also Useful in Detecting Lung Cancer?. <i>Journal of Computer Assisted Tomography</i> , 2008, 32, 570-575.	0.5	21
35	Comparison of observer performance on soft-copy reading of digital chest radiographs: High resolution liquid-crystal display monitors versus cathode-ray tube monitors. <i>European Journal of Radiology</i> , 2008, 66, 13-18.	1.2	20
36	FN13762 Murine Breast Cancer: Region-by-Region Correlation of First-Pass Perfusion CT Indexes with Histologic Vascular Parameters. <i>Radiology</i> , 2009, 251, 721-730.	3.6	20

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37	Quantitative analysis of dynamic airway changes after methacholine and salbutamol inhalation on xenon-enhanced chest CT. <i>European Radiology</i> , 2012, 22, 2441-2450.	2.3	20
38	Sequential morphological changes in follow-up CT of pulmonary mucormycosis. <i>Diagnostic and Interventional Radiology</i> , 2013, 20, 42-6.	0.7	20
39	Comparison of the effects of model-based iterative reconstruction and filtered back projection algorithms on software measurements in pulmonary subsolid nodules. <i>European Radiology</i> , 2017, 27, 3266-3274.	2.3	17
40	Inter-scan repeatability of CT-based lung densitometry in the surveillance of emphysema in a lung cancer screening setting. <i>European Journal of Radiology</i> , 2012, 81, e554-e560.	1.2	15
41	The effect of late-phase contrast enhancement on semi-automatic software measurements of CT attenuation and volume of part-solid nodules in lung adenocarcinomas. <i>European Journal of Radiology</i> , 2016, 85, 1174-1180.	1.2	15
42	Smoking-related Emphysema and Interstitial Lung Diseases. <i>Journal of Thoracic Imaging</i> , 2007, 22, 286-291.	0.8	14
43	Securing safe and informative thoracic CT examinations—Progress of radiation dose reduction techniques. <i>European Journal of Radiology</i> , 2017, 86, 313-319.	1.2	14
44	Age- and gender-specific disease distribution and the diagnostic accuracy of CT for resected anterior mediastinal lesions. <i>Thoracic Cancer</i> , 2019, 10, 1378-1387.	0.8	14
45	Structural and Functional Features on Quantitative Chest Computed Tomography in the Korean Asian versus the White American Healthy Non-Smokers. <i>Korean Journal of Radiology</i> , 2019, 20, 1236.	1.5	13
46	The Value of Computed Tomography for Predicting Emphysema-Associated Malignancy. <i>Journal of Computer Assisted Tomography</i> , 2006, 30, 453-459.	0.5	12
47	Latent traits of lung tissue patterns in former smokers derived by dual channel deep learning in computed tomography images. <i>Scientific Reports</i> , 2021, 11, 4916.	1.6	12
48	Polyhexamethylene guanidine phosphate increases stress granule formation in human 3D lung organoids under respiratory syncytial virus infection. <i>Ecotoxicology and Environmental Safety</i> , 2022, 229, 113094.	2.9	12
49	The Clinical Feasibility of Using Non-Breath-Hold Real-Time MR-Echo Imaging for the Evaluation of Mediastinal and Chest Wall Tumor Invasion. <i>Korean Journal of Radiology</i> , 2010, 11, 37.	1.5	11
50	Xenon ventilation computed tomography and the management of asthma in the elderly. <i>Respirology</i> , 2014, 19, 389-395.	1.3	11
51	Evaluation of polyhexamethylene guanidine-induced lung injuries by chest CT, pathologic examination, and RNA sequencing in a rat model. <i>Scientific Reports</i> , 2021, 11, 6318.	1.6	11
52	Relative Regional Air Volume Change Maps at the Acinar Scale Reflect Variable Ventilation in Low Lung Attenuation of COPD patients. <i>Academic Radiology</i> , 2020, 27, 1540-1548.	1.3	10
53	Pulmonary fibrosis model using micro-CT analyzable human PSC-derived alveolar organoids containing alveolar macrophage-like cells. <i>Cell Biology and Toxicology</i> , 2022, 38, 557-575.	2.4	9
54	Extralobar Pulmonary Sequestration With Hemorrhagic Infarction in an Adult. <i>Journal of Thoracic Imaging</i> , 2007, 22, 166-168.	0.8	8

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55	Computer-Aided Classification of Visual Ventilation Patterns in Patients with Chronic Obstructive Pulmonary Disease at Two-Phase Xenon-Enhanced CT. <i>Korean Journal of Radiology</i> , 2014, 15, 386.	1.5	8
56	Longitudinal Imaging-Based Clusters in Former Smokers of the COPD Cohort Associate with Clinical Characteristics: The SubPopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). <i>International Journal of COPD</i> , 2021, Volume 16, 1477-1496.	0.9	8
57	Evaluation of the long-term effect of polyhexamethylene guanidine phosphate in a rat lung model using conventional chest computed tomography with histopathologic analysis. <i>PLoS ONE</i> , 2021, 16, e0256756.	1.1	8
58	Artificial intelligence system for identification of false-negative interpretations in chest radiographs. <i>European Radiology</i> , 2022, 32, 4468-4478.	2.3	8
59	Serial CT Findings of Paragonimus Infested Dogs and the Micro-CT Findings of the Worm Cysts. <i>Korean Journal of Radiology</i> , 2007, 8, 372.	1.5	7
60	Quantitative CT-based structural alterations of segmental airways in cement dust-exposed subjects. <i>Respiratory Research</i> , 2020, 21, 133.	1.4	7
61	Quantitative CT-based image registration metrics provide different ventilation and lung motion patterns in prone and supine positions in healthy subjects. <i>Respiratory Research</i> , 2020, 21, 254.	1.4	6
62	Generation-based study of airway remodeling in smokers with normal-looking CT with normalization to control inter-subject variability. <i>European Journal of Radiology</i> , 2021, 138, 109657.	1.2	6
63	Quantitative CT image-based structural and functional changes during asthma acute exacerbations. <i>Journal of Applied Physiology</i> , 2021, 131, 1056-1066.	1.2	6
64	Direct medical costs after surgical or nonsurgical treatment for degenerative lumbar spinal disease: A nationwide matched cohort study with a 10-year follow-up. <i>PLoS ONE</i> , 2021, 16, e0260460.	1.1	6
65	CT Analysis of the Anterior Mediastinum in Idiopathic Pulmonary Fibrosis and Nonspecific Interstitial Pneumonia. <i>Korean Journal of Radiology</i> , 2006, 7, 173.	1.5	5
66	Novel Logistic Regression Model of Chest CT Attenuation Coefficient Distributions for the Automated Detection of Abnormal (Emphysema or ILD) Versus Normal Lung. <i>Academic Radiology</i> , 2016, 23, 304-314.	1.3	5
67	Evaluation of the effect of filtered ultrafine particulate matter on bleomycin-induced lung fibrosis in a rat model using computed tomography, histopathologic analysis, and RNA sequencing. <i>Scientific Reports</i> , 2021, 11, 22672.	1.6	5
68	Collateral Ventilation Quantification Using Xenon-Enhanced Dynamic Dual-Energy CT: Differences between Canine and Swine Models of Bronchial Occlusion. <i>Korean Journal of Radiology</i> , 2015, 16, 648.	1.5	3
69	Short-term exposure to fine particulate matter and pneumonia-related hospitalizations: a systematic review and meta-analysis. <i>Environmental Research Letters</i> , 2020, 15, 123012.	2.2	2
70	CT Examinations for COVID-19: A Systematic Review of Protocols, Radiation Dose, and Numbers Needed to Diagnose and Predict. <i>Journal of the Korean Society of Radiology</i> , 2021, 82, 1505.	0.1	2
71	Quantitative computed tomography imaging-based classification of cement dust-exposed subjects with an artificial neural network technique. <i>Computers in Biology and Medicine</i> , 2022, 141, 105162.	3.9	2
72	Mechanical Failure After Total En Bloc Spondylectomy and Salvage Surgery. <i>Neurospine</i> , 2022, 19, 146-154.	1.1	2

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73	Structural and functional alterations of subjects with cement dust exposure: A longitudinal quantitative computed tomography-based study. <i>Science of the Total Environment</i> , 2022, 837, 155812.	3.9	2
74	Adult sail sign: radiographic and computed tomographic features. <i>Acta Radiologica</i> , 2008, 49, 37-40.	0.5	1
75	Detection of smoothly distributed spatial outliers, with applications to identifying the distribution of parenchymal hyperinflation following an airway challenge in asthmatics. <i>Statistics in Medicine</i> , 2017, 36, 1638-1654.	0.8	1
76	Feasibility of In vivo Proton Magnetic Resonance Spectroscopy for Lung Cancer. <i>Journal of the Korean Society of Magnetic Resonance in Medicine</i> , 2012, 16, 40.	0.1	1
77	Korean Society of Thoracic Radiology Weekly Chest Cases Website. <i>Journal of Thoracic Imaging</i> , 2017, 32, W8-W10.	0.8	0
78	C7 Fracture as a Complication of C7 Dome-Like Laminectomy : Impact on Clinical and Radiological Outcomes and Evaluation of the Risk Factors. <i>Journal of Korean Neurosurgical Society</i> , 2021, 64, 575-584.	0.5	0
79	Ultra-high-resolution computed tomography shows changes in the lungs related with airway hyperresponsiveness in a murine asthma model. <i>Scientific Reports</i> , 2021, 11, 17584.	1.6	0