# Chang Hyun Lee

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Quantitative computed tomography imaging-based classification of cement dust-exposed subjects with an artificial neural network technique. Computers in Biology and Medicine, 2022, 141, 105162. | 3.9 | 2 |
| 2 | Polyhexamethylene guanidine phosphate increases stress granule formation in human 3D lung organoids under respiratory syncytial virus infection. Ecotoxicology and Environmental Safety, 2022, 229, 113094. | 2.9 | 12 |
| 3 | Artificial intelligence system for identification of false-negative interpretations in chest radiographs. European Radiology, 2022, 32, 4468-4478. | 2.3 | 8 |
| 4 | Mechanical Failure After Total En Bloc Spondylectomy and Salvage Surgery. Neurospine, 2022, 19, 146-154. | 1.1 | 2 |
| 5 | Pulmonary fibrosis model using micro-CT analyzable human PSCâ€“derived alveolar organoids containing alveolar macrophage-like cells. Cell Biology and Toxicology, 2022, 38, 557-575. | 2.4 | 9 |
| 6 | Structural and functional alterations of subjects with cement dust exposure: A longitudinal quantitative computed tomography-based study. Science of the Total Environment, 2022, 837, 155812. | 3.9 | 2 |
| 7 | A 3D-CNN model with CT-based parametric response mapping for classifying COPD subjects. Scientific Reports, 2021, 11, 34. | 1.6 | 40 |
| 8 | Evaluation of polyhexamethylene guanidine-induced lung injuries by chest CT, pathologic examination, and RNA sequencing in a rat model. Scientific Reports, 2021, 11, 6318. | 1.6 | 11 |
| 9 | Latent traits of lung tissue patterns in former smokers derived by dual channel deep learning in computed tomography images. Scientific Reports, 2021, 11, 4916. | 1.6 | 12 |
| 10 | 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 |
| 11 | 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). International Journal of COPD, 2021, Volume 16, 1477-1496. | 0.9 | 8 |
| 12 | Generation-based study of airway remodeling in smokers with normal-looking CT with normalization to control inter-subject variability. European Journal of Radiology, 2021, 138, 109657. | 1.2 | 6 |
| 13 | C7 Fracture as a Complication of C7 Dome-Like Laminectomy : Impact on Clinical and Radiological Outcomes and Evaluation of the Risk Factors. Journal of Korean Neurosurgical Society, 2021, 64, 575-584. | 0.5 | 0 |
| 14 | Evaluation of the long-term effect of polyhexamethylene guanidine phosphate in a rat lung model using conventional chest computed tomography with histopathologic analysis. PLoS ONE, 2021, 16, e0256756. | 1.1 | 8 |
| 15 | Ultra-high-resolution computed tomography shows changes in the lungs related with airway hyperresponsiveness in a murine asthma model. Scientific Reports, 2021, 11, 17584. | 1.6 | 0 |
| 16 | Quantitative CT image-based structural and functional changes during asthma acute exacerbations. Journal of Applied Physiology, 2021, 131, 1056-1066. | 1.2 | 6 |
| 17 | Direct medical costs after surgical or nonsurgical treatment for degenerative lumbar spinal disease: A nationwide matched cohort study with a 10-year follow-up. PLoS ONE, 2021, 16, e0260460. | 1.1 | 6 |
| 18 | CT Examinations for COVID-19: A Systematic Review of Protocols, Radiation Dose, and Numbers Needed to Diagnose and Predict. Journal of the Korean Society of Radiology, 2021, 82, 1505. | 0.1 | 2 |

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|---|---|---|---|
| 19 | 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. Scientific Reports, 2021, 11, 22672. | 1.6 | 5 |
| 20 | Quantitative CT-based image registration metrics provide different ventilation and lung motion patterns in prone and supine positions in healthy subjects. Respiratory Research, 2020, 21, 254. | 1.4 | 6 |
| 21 | Imaging of COVID-19 pneumonia: Patterns, pathogenesis, and advances. British Journal of Radiology, 2020, 93, 20200538. | 1.0 | 31 |
| 22 | Quantitative CT-based structural alterations of segmental airways in cement dust-exposed subjects. Respiratory Research, 2020, 21, 133. | 1.4 | 7 |
| 23 | Relative Regional Air Volume Change Maps at the Acinar Scale Reflect Variable Ventilation in Low Lung Attenuation of COPD patients. Academic Radiology, 2020, 27, 1540-1548. | 1.3 | 10 |
| 24 | Extension of Coronavirus Disease 2019 on Chest CT and Implications for Chest Radiographic Interpretation. Radiology: Cardiothoracic Imaging, 2020, 2, e200107. | 0.9 | 59 |
| 25 | Short-term exposure to fine particulate matter and pneumonia-related hospitalizations: a systematic review and meta-analysis. Environmental Research Letters, 2020, 15, 123012. | 2.2 | 2 |
| 26 | Imaging-based clusters in former smokers of the COPD cohort associate with clinical characteristics: the SubPopulations and intermediate outcome measures in COPD study (SPIROMICS). Respiratory Research, 2019, 20, 153. | 1.4 | 25 |
| 27 | Ageâ€•and genderâ€specific disease distribution and the diagnostic accuracy of CT for resected anterior mediastinal lesions. Thoracic Cancer, 2019, 10, 1378-1387. | 0.8 | 14 |
| 28 | The Long-term Reoperation Rate Following Surgery for Lumbar Herniated Intervertebral Disc Disease. Spine, 2019, 44, 1382-1389. | 1.0 | 30 |
| 29 | Structural and Functional Features on Quantitative Chest Computed Tomography in the Korean Asian versus the White American Healthy Non-Smokers. Korean Journal of Radiology, 2019, 20, 1236. | 1.5 | 13 |
| 30 | Correlation between Pneumonia Severity and Pulmonary Complications in Middle East Respiratory Syndrome. Journal of Korean Medical Science, 2018, 33, e169. | 1.1 | 89 |
| 31 | Comparison of the effects of model-based iterative reconstruction and filtered back projection algorithms on software measurements in pulmonary subsolid nodules. European Radiology, 2017, 27, 3266-3274. | 2.3 | 17 |
| 32 | Detection of smoothly distributed spatial outliers, with applications to identifying the distribution of parenchymal hyperinflation following an airway challenge in asthmatics. Statistics in Medicine, 2017, 36, 1638-1654. | 0.8 | 1 |
| 33 | The role of dual-energy computed tomography in the assessment of pulmonary function. European Journal of Radiology, 2017, 86, 320-334. | 1.2 | 22 |
| 34 | Korean Society of Thoracic Radiology Weekly Chest Cases Website. Journal of Thoracic Imaging, 2017, 32, W8-W10. | 0.8 | 0 |
| 35 | Securing safe and informative thoracic CT examinationsâ€"Progress of radiation dose reduction techniques. European Journal of Radiology, 2017, 86, 313-319. | 1.2 | 14 |
| 36 | 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?. European Radiology, 2017, 27, 1369-1376. | 2.3 | 27 |

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|---|---|---|---|
| 37 | Software performance in segmenting ground-glass and solid components of subsolid nodules in pulmonary adenocarcinomas. European Radiology, 2016, 26, 4465-4474. | 2.3 | 42 |
| 38 | The effect of late-phase contrast enhancement on semi-automatic software measurements of CT attenuation and volume of part-solid nodules in lung adenocarcinomas. European Journal of Radiology, 2016, 85, 1174-1180. | 1.2 | 15 |
| 39 | Novel Logistic Regression Model of Chest CT Attenuation Coefficient Distributions for the Automated Detection of Abnormal (Emphysema or ILD) Versus Normal Lung. Academic Radiology, 2016, 23, 304-314. | 1.3 | 5 |
| 40 | Non-tuberculous mycobacterial lung disease: diagnosis based on computed tomography of the chest. European Radiology, 2016, 26, 4449-4456. | 2.3 | 27 |
| 41 | Collateral Ventilation Quantification Using Xenon-Enhanced Dynamic Dual-Energy CT: Differences between Canine and Swine Models of Bronchial Occlusion. Korean Journal of Radiology, 2015, 16, 648. | 1.5 | 3 |
| 42 | Computer-Aided Classification of Visual Ventilation Patterns in Patients with Chronic Obstructive Pulmonary Disease at Two-Phase Xenon-Enhanced CT. Korean Journal of Radiology, 2014, 15, 386. | 1.5 | 8 |
| 43 | Xenon ventilation computed tomography and the management of asthma in the elderly. Respirology, 2014, 19, 389-395. | 1.3 | 11 |
| 44 | 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 |
| 45 | Sequential morphological changes in follow-up CT of pulmonary mucormycosis. Diagnostic and Interventional Radiology, 2013, 20, 42-6. | 0.7 | 20 |
| 46 | 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 |
| 47 | 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 |
| 48 | Quantitative analysis of dynamic airway changes after methacholine and salbutamol inhalation on xenon-enhanced chest CT. European Radiology, 2012, 22, 2441-2450. | 2.3 | 20 |
| 49 | Inter-scan repeatability of CT-based lung densitometry in the surveillance of emphysema in a lung cancer screening setting. European Journal of Radiology, 2012, 81, e554-e560. | 1.2 | 15 |
| 50 | Feasibility ofIn vivoProton Magnetic Resonance Spectroscopy for Lung Cancer. Journal of the Korean Society of Magnetic Resonance in Medicine, 2012, 16, 40. | 0.1 | 1 |
| 51 | 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. Journal of Thoracic Oncology, 2010, 5, 497-503. | 0.5 | 33 |
| 52 | The Clinical Feasibility of Using Non-Breath-Hold Real-Time MR-Echo Imaging for the Evaluation of Mediastinal and Chest Wall Tumor Invasion. Korean Journal of Radiology, 2010, 11, 37. | 1.5 | 11 |
| 53 | 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 |
| 54 | Transient Part-Solid Nodules Detected at Screening Thin-Section CT for Lung Cancer: Comparison with Persistent Part-Solid Nodules<sup />. Radiology, 2010, 255, 242-251. | 3.6 | 121 |

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|---|---|---|---|
| 55 | 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 |
| 56 | FN13762 Murine Breast Cancer: Region-by-Region Correlation of First-Pass Perfusion CT Indexes with Histologic Vascular Parameters. Radiology, 2009, 251, 721-730. | 3.6 | 20 |
| 57 | Tumors in the Tracheobronchial Tree: CT and FDG PET Features. Radiographics, 2009, 29, 55-71. | 1.4 | 146 |
| 58 | 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 |
| 59 | EGFR gene copy number in adenocarcinoma of the lung by FISH analysis: Investigation of significantly related factors on CT, FDG-PET, and histopathology. Lung Cancer, 2009, 64, 179-186. | 0.9 | 31 |
| 60 | 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 |
| 61 | Efficacy of Computer-Aided Detection System and Thin-Slab Maximum Intensity Projection Technique in the Detection of Pulmonary Nodules in Patients With Resected Metastases. Investigative Radiology, 2009, 44, 105-113. | 3.5 | 40 |
| 62 | Comparison of observer performance on soft-copy reading of digital chest radiographs: High resolution liquid-crystal display monitors versus cathode-ray tube monitors. European Journal of Radiology, 2008, 66, 13-18. | 1.2 | 20 |
| 63 | Adult sail sign: radiographic and computed tomographic features. Acta Radiologica, 2008, 49, 37-40. | 0.5 | 1 |
| 64 | Radiation Dose Modulation Techniques in the Multidetector CT Era: From Basics to Practice. Radiographics, 2008, 28, 1451-1459. | 1.4 | 279 |
| 65 | Pulmonary Nodular Ground-Glass Opacities in Patients With Extrapulmonary Cancers. Chest, 2008, 133, 1402-1409. | 0.4 | 69 |
| 66 | Semiquantitative Measurement of Murine Bleomycin-Induced Lung Fibrosis in In Vivo and Postmortem Conditions Using Microcomputed Tomography: Correlation With Pathologic Scores???Initial Results. Investigative Radiology, 2008, 43, 453-460. | 3.5 | 25 |
| 67 | Is the Computer-Aided Detection Scheme for Lung Nodule Also Useful in Detecting Lung Cancer?. Journal of Computer Assisted Tomography, 2008, 32, 570-575. | 0.5 | 21 |
| 68 | 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 |
| 69 | Determination of Optimal Timing Window for Pulmonary Artery MDCT Angiography. American Journal of Roentgenology, 2007, 188, 313-317. | 1.0 | 35 |
| 70 | The Crazy-paving Sign<sup>1</sup>. Radiology, 2007, 243, 905-906. | 3.6 | 38 |
| 71 | CTA Contrast Enhancement of the Aorta and Pulmonary Artery. Investigative Radiology, 2007, 42, 486-490. | 3.5 | 36 |
| 72 | Smoking-related Emphysema and Interstitial Lung Diseases. Journal of Thoracic Imaging, 2007, 22, 286-291. | 0.8 | 14 |

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| 73 | Extralobar Pulmonary Sequestration With Hemorrhagic Infarction in an Adult. Journal of Thoracic Imaging, 2007, 22, 166-168. | 0.8 | 8 |
| 74 | Chest Computed Tomographic Findings and Clinical Features of Legionella Pneumonia. Journal of Computer Assisted Tomography, 2007, 31, 950-955. | 0.5 | 33 |
| 75 | 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 |
| 76 | Serial CT Findings of Paragonimus Infested Dogs and the Micro-CT Findings of the Worm Cysts. Korean Journal of Radiology, 2007, 8, 372. | 1.5 | 7 |
| 77 | Focal interstitial fibrosis manifesting as nodular ground-glass opacity: thin-section CT findings. European Radiology, 2007, 17, 2325-2331. | 2.3 | 43 |
| 78 | CT Analysis of the Anterior Mediastinum in Idiopathic Pulmonary Fibrosis and Nonspecific Interstitial Pneumonia. Korean Journal of Radiology, 2006, 7, 173. | 1.5 | 5 |
| 79 | The Value of Computed Tomography for Predicting Empyema-Associated Malignancy. Journal of Computer Assisted Tomography, 2006, 30, 453-459. | 0.5 | 12 |