

Rail San JosÃ© EstÃ©par

List of Publications by Year in descending order

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Version: 2024-02-01

299
papers

10,471
citations

41323

49
h-index

49868

87
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311
all docs

311
docs citations

311
times ranked

10312
citing authors

#	ARTICLE	IF	CITATIONS
1	Lung Volumes and Emphysema in Smokers with Interstitial Lung Abnormalities. <i>New England Journal of Medicine</i> , 2011, 364, 897-906.	13.9	468
2	The clinical features of the overlap between COPD and asthma. <i>Respiratory Research</i> , 2011, 12, 127.	1.4	362
3	<i>MUC5B</i> Promoter Polymorphism and Interstitial Lung Abnormalities. <i>New England Journal of Medicine</i> , 2013, 368, 2192-2200.	13.9	358
4	Association Between Interstitial Lung Abnormalities and All-Cause Mortality. <i>JAMA - Journal of the American Medical Association</i> , 2016, 315, 672.	3.8	333
5	Interstitial lung abnormalities detected incidentally on CT: a Position Paper from the Fleischner Society. <i>Lancet Respiratory Medicine</i> , 2020, 8, 726-737.	5.2	279
6	Development and Progression of Interstitial Lung Abnormalities in the Framingham Heart Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 1514-1522.	2.5	233
7	Epidemiology, genetics, and subtyping of preserved ratio impaired spirometry (PRISm) in COPD. <i>Respiratory Research</i> , 2014, 15, 89.	1.4	196
8	Disease Staging and Prognosis in Smokers Using Deep Learning in Chest Computed Tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 193-203.	2.5	189
9	Computed Tomographic Measures of Pulmonary Vascular Morphology in Smokers and Their Clinical Implications. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 231-239.	2.5	188
10	Identification of Early Interstitial Lung Disease in Smokers from the COPD Gene Study. <i>Academic Radiology</i> , 2010, 17, 48-53.	1.3	175
11	Quantitative Computed Tomography Measures of Pectoralis Muscle Area and Disease Severity in Chronic Obstructive Pulmonary Disease. A Cross-Sectional Study. <i>Annals of the American Thoracic Society</i> , 2014, 11, 326-334.	1.5	168
12	Pulmonary Hypertension and Computed Tomography Measurement of Small Pulmonary Vessels in Severe Emphysema. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 181, 218-225.	2.5	157
13	Gender Differences in the Severity of CT Emphysema in COPD. <i>Chest</i> , 2007, 132, 464-470.	0.4	155
14	Blood eosinophil count thresholds and exacerbations in patients with chronic obstructive pulmonary disease. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 2037-2047.e10.	1.5	138
15	Statins and Pulmonary Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 185, 547-556.	2.5	133
16	Longitudinal Phenotypes and Mortality in Preserved Ratio Impaired Spirometry in the COPD Gene Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1397-1405.	2.5	132
17	Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study. <i>Medical Image Analysis</i> , 2014, 18, 1217-1232.	7.0	131
18	Pulmonary Artery-Vein Classification in CT Images Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2428-2440.	5.4	129

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19	A Genome-Wide Association Study of Emphysema and Airway Quantitative Imaging Phenotypes. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 559-569.	2.5	128
20	Quantitative CT Measurement of Cross-sectional Area of Small Pulmonary Vessel in COPD. Academic Radiology, 2010, 17, 93-99.	1.3	123
21	Distinct Quantitative Computed Tomography Emphysema Patterns Are Associated with Physiology and Function in Smokers. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 1083-1090.	2.5	118
22	COPDGene® 2019: Redefining the Diagnosis of Chronic Obstructive Pulmonary Disease. Chronic Obstructive Pulmonary Diseases (Miami, Fla), 2019, 6, 384-399.	0.5	112
23	Relationship between quantitative CT metrics and health status and BODE in chronic obstructive pulmonary disease. Thorax, 2012, 67, 399-406.	2.7	108
24	Image Quality Assessment based on Local Variance. , 2006, 2006, 4815-8.		105
25	Imaging Advances in Chronic Obstructive Pulmonary Disease. Insights from the Genetic Epidemiology of Chronic Obstructive Pulmonary Disease (COPDGene) Study. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 286-301.	2.5	100
26	Three-dimensional Printing and 3D Slicer. Chest, 2016, 149, 1136-1142.	0.4	95
27	Paired inspiratory-expiratory chest CT scans to assess for small airways disease in COPD. Respiratory Research, 2013, 14, 42.	1.4	93
28	SlicerDMRI: Open Source Diffusion MRI Software for Brain Cancer Research. Cancer Research, 2017, 77, e101-e103.	0.4	89
29	Interobserver Variability in the Determination of Upper Lobe-Predominant Emphysema. Chest, 2007, 131, 424-431.	0.4	88
30	Common Genetic Polymorphisms Influence Blood Biomarker Measurements in COPD. PLoS Genetics, 2016, 12, e1006011.	1.5	88
31	CT Metrics of Airway Disease and Emphysema in Severe COPD. Chest, 2009, 136, 396-404.	0.4	87
32	Diffusion tractography of the fornix in schizophrenia. Schizophrenia Research, 2009, 107, 39-46.	1.1	86
33	Computer keyboard interaction as an indicator of early Parkinson's disease. Scientific Reports, 2016, 6, 34468.	1.6	78
34	Genome-Wide Association Identifies Regulatory Loci Associated with Distinct Local Histogram Emphysema Patterns. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 399-409.	2.5	77
35	Collapsibility of Lung Volume by Paired Inspiratory and Expiratory CT Scans. Academic Radiology, 2010, 17, 489-495.	1.3	76
36	Arterial Vascular Pruning, Right Ventricular Size, and Clinical Outcomes in Chronic Obstructive Pulmonary Disease. A Longitudinal Observational Study. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 454-461.	2.5	73

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37	Prediction of Acute Respiratory Disease in Current and Former Smokers With and Without COPD. <i>Chest</i> , 2014, 146, 941-950.	0.4	71
38	Densitometric and local histogram based analysis of computed tomography images in patients with idiopathic pulmonary fibrosis. <i>Respiratory Research</i> , 2017, 18, 45.	1.4	70
39	Airway Count and Emphysema Assessed by Chest CT Imaging Predicts Clinical Outcome in Smokers. <i>Chest</i> , 2010, 138, 880-887.	0.4	68
40	Airway wall attenuation: a biomarker of airway disease in subjects with COPD. <i>Journal of Applied Physiology</i> , 2009, 107, 185-191.	1.2	62
41	Respiratory Symptoms in Young Adults and Future Lung Disease. The CARDIA Lung Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 1616-1624.	2.5	62
42	Machine Learning and Prediction of All-Cause Mortality in COPD. <i>Chest</i> , 2020, 158, 952-964.	0.4	62
43	Lower Pectoralis Muscle Area Is Associated with a Worse Overall Survival in Non-“Small Cell Lung Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017, 26, 38-43.	1.1	61
44	Classification of Interstitial Lung Abnormality Patterns with an Ensemble of Deep Convolutional Neural Networks. <i>Scientific Reports</i> , 2020, 10, 338.	1.6	61
45	Sampling and Visualizing Creases with Scale-Space Particles. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1415-1424.	2.9	60
46	Shape of caudate nucleus and its cognitive correlates in neuroleptic-naive schizotypal personality disorder. <i>Biological Psychiatry</i> , 2004, 55, 177-184.	0.7	59
47	Lung Extraction, Lobe Segmentation and Hierarchical Region Assessment for Quantitative Analysis on High Resolution Computed Tomography Images. <i>Lecture Notes in Computer Science</i> , 2009, 12, 690-698.	1.0	59
48	Increasing the impact of medical image computing using community-based open-access hackathons: The NA-MIC and 3D Slicer experience. <i>Medical Image Analysis</i> , 2016, 33, 176-180.	7.0	58
49	Disease Progression Modeling in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 294-302.	2.5	56
50	Non-emphysematous chronic obstructive pulmonary disease is associated with diabetes mellitus. <i>BMC Pulmonary Medicine</i> , 2014, 14, 164.	0.8	55
51	Genetic Association and Risk Scores in a Chronic Obstructive Pulmonary Disease Meta-analysis of 16,707 Subjects. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 35-46.	1.4	55
52	Quantitative CT Measures of Bronchiectasis in Smokers. <i>Chest</i> , 2017, 151, 1255-1262.	0.4	55
53	The <i>MUC5B</i> promoter polymorphism is associated with specific interstitial lung abnormality subtypes. <i>European Respiratory Journal</i> , 2017, 50, 1700537.	3.1	55
54	Chest computed tomography-derived low-fat-free mass index and mortality in COPD. <i>European Respiratory Journal</i> , 2017, 50, 1701134.	3.1	53

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55	SlicerDMRI: Diffusion MRI and Tractography Research Software for Brain Cancer Surgery Planning and Visualization. JCO Clinical Cancer Informatics, 2020, 4, 299-309.	1.0	52
56	Genetic susceptibility for chronic bronchitis in chronic obstructive pulmonary disease. Respiratory Research, 2014, 15, 113.	1.4	51
57	Pruning of the Pulmonary Vasculature in Asthma. The Severe Asthma Research Program (SARP) Cohort. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 39-50.	2.5	51
58	Relationship of emphysema and airway disease assessed by CT to exercise capacity in COPD. Respiratory Medicine, 2010, 104, 1145-1151.	1.3	50
59	Association Between Airway Caliber Changes With Lung Inflation and Emphysema Assessed by Volumetric CT Scan in Subjects With COPD. Chest, 2012, 141, 736-744.	0.4	50
60	Chest CT Measures of Muscle and Adipose Tissue in COPD. Academic Radiology, 2014, 21, 1255-1261.	1.3	50
61	Accurate Airway Wall Estimation Using Phase Congruency. Lecture Notes in Computer Science, 2006, 9, 125-134.	1.0	49
62	Pulmonary Artery Enlargement Is Associated With Right Ventricular Dysfunction and Loss of Blood Volume in Small Pulmonary Vessels in Chronic Obstructive Pulmonary Disease. Circulation: Cardiovascular Imaging, 2015, 8, .	1.3	48
63	A theoretical framework to three-dimensional ultrasound reconstruction from irregularly sampled data. Ultrasound in Medicine and Biology, 2003, 29, 255-269.	0.7	47
64	Geodesic-Loxodromes for Diffusion Tensor Interpolation and Difference Measurement. , 2007, 10, 1-9.		47
65	Pulmonary Vascular Morphology as an Imaging Biomarker in Chronic Thromboembolic Pulmonary Hypertension. Pulmonary Circulation, 2016, 6, 70-81.	0.8	47
66	Pulmonary vascular density: comparison of findings on computed tomography imaging with histology. European Respiratory Journal, 2019, 54, 1900370.	3.1	47
67	The Relationship between Small Pulmonary Vascular Alteration and Aortic Atherosclerosis in Chronic Obstructive Pulmonary Disease. Academic Radiology, 2011, 18, 40-46.	1.3	44
68	Machine Learning Characterization of COPD Subtypes. Chest, 2020, 157, 1147-1157.	0.4	44
69	Position paper on COVID-19 imaging and AI: From the clinical needs and technological challenges to initial AI solutions at the lab and national level towards a new era for AI in healthcare. Medical Image Analysis, 2020, 66, 101800.	7.0	44
70	Emphysema quantification in a multi-scanner HRCT cohort using local intensity distributions. , 2012, , 474-477.		43
71	Physiological and Computed Tomographic Predictors of Outcome from Lung Volume Reduction Surgery. American Journal of Respiratory and Critical Care Medicine, 2010, 181, 494-500.	2.5	42
72	Evaluation of colonoscopy technical skill levels by use of an objective kinematic-based system. Gastrointestinal Endoscopy, 2011, 73, 315-321.e1.	0.5	42

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73	Six-Minute Walk Distance Predictors, Including CT Scan Measures, in the COPDGene Cohort. <i>Chest</i> , 2012, 141, 867-875.	0.4	41
74	Pectoralis muscle area and mortality in smokers without airflow obstruction. <i>Respiratory Research</i> , 2018, 19, 62.	1.4	41
75	Quantitative Assessment of Bronchial Wall Attenuation With Thin-Section CT: An Indicator of Airflow Limitation in Chronic Obstructive Pulmonary Disease. <i>American Journal of Roentgenology</i> , 2010, 195, 363-369.	1.0	40
76	The St. George's Respiratory Questionnaire Definition of Chronic Bronchitis May Be a Better Predictor of COPD Exacerbations Compared With the Classic Definition. <i>Chest</i> , 2019, 156, 685-695.	0.4	40
77	A comparison of visual and quantitative methods to identify interstitial lung abnormalities. <i>BMC Pulmonary Medicine</i> , 2015, 15, 134.	0.8	39
78	A Novel Spirometric Measure Identifies Mild COPD Unidentified by Standard Criteria. <i>Chest</i> , 2016, 150, 1080-1090.	0.4	39
79	Gender Differences of Airway Dimensions in Anatomically Matched Sites on CT in Smokers. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2011, 8, 285-292.	0.7	38
80	Longitudinal Modeling of Lung Function Trajectories in Smokers with and without Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1033-1042.	2.5	38
81	Traction Bronchiectasis/Bronchiolectasis is Associated with Interstitial Lung Abnormality Mortality. <i>European Journal of Radiology</i> , 2020, 129, 109073.	1.2	38
82	Airway fractal dimension predicts respiratory morbidity and mortality in COPD. <i>Journal of Clinical Investigation</i> , 2018, 128, 5374-5382.	3.9	38
83	Clinical and Genetic Associations of Objectively Identified Interstitial Changes in Smokers. <i>Chest</i> , 2017, 152, 780-791.	0.4	37
84	The Objective Identification and Quantification of Interstitial Lung Abnormalities in Smokers. <i>Academic Radiology</i> , 2017, 24, 941-946.	1.3	37
85	Automated Agatston score computation in non-ECG gated CT scans using deep learning. , 2018, 10574, .		37
86	Interstitial Features at Chest CT Enhance the Deleterious Effects of Emphysema in the COPDGene Cohort. <i>Radiology</i> , 2018, 288, 600-609.	3.6	37
87	Lobar Emphysema Distribution Is Associated With 5-Year Radiological Disease Progression. <i>Chest</i> , 2018, 153, 65-76.	0.4	36
88	Application of the 3D slicer chest imaging platform segmentation algorithm for large lung nodule delineation. <i>PLoS ONE</i> , 2017, 12, e0178944.	1.1	35
89	Computational vascular morphometry for the assessment of pulmonary vascular disease based on scale-space particles. , 2012, , 1479-1482.		34
90	Lung deflation and oxygen pulse in COPD: Results from the NETT randomized trial. <i>Respiratory Medicine</i> , 2012, 106, 109-119.	1.3	33

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91	DNAH5 is associated with total lung capacity in chronic obstructive pulmonary disease. <i>Respiratory Research</i> , 2014, 15, 97.	1.4	33
92	Pneumothorax Risk Factors in Smokers with and without Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2014, 11, 1387-1394.	1.5	33
93	Significant Spirometric Transitions and Preserved Ratio Impaired Spirometry Among Ever Smokers. <i>Chest</i> , 2022, 161, 651-661.	0.4	33
94	Invasive adenocarcinoma of the lung is associated with the upper lung regions. <i>Lung Cancer</i> , 2014, 84, 145-150.	0.9	31
95	3D Printing and Personalized Airway Stents. <i>Pulmonary Therapy</i> , 2017, 3, 59-66.	1.1	30
96	Automated quantitative 3D analysis of aorta size, morphology, and mural calcification distributions. <i>Medical Physics</i> , 2015, 42, 5467-5478.	1.6	29
97	Distinct emphysema subtypes defined by quantitative CT analysis are associated with specific pulmonary matrix metalloproteinases. <i>Respiratory Research</i> , 2016, 17, 92.	1.4	29
98	Intrathoracic Tracheal Volume and Collapsibility on Inspiratory and End-expiratory CT Scans. <i>Academic Radiology</i> , 2011, 18, 299-305.	1.3	28
99	Aorta segmentation with a 3D level set approach and quantification of aortic calcifications in non-contrast chest CT. , 2012, 2012, 2343-6.		28
100	Bronchoarterial ratio in never-smokers adults: Implications for bronchial dilation definition. <i>Respirology</i> , 2017, 22, 108-113.	1.3	28
101	Radiographic pulmonary vessel volume, lung function and airways disease in the Framingham Heart Study. <i>European Respiratory Journal</i> , 2019, 54, 1900408.	3.1	28
102	Adult Life-Course Trajectories of Lung Function and the Development of Emphysema: The CARDIA Lung Study. <i>American Journal of Medicine</i> , 2020, 133, 222-230.e11.	0.6	27
103	Luminal Plugging on Chest CT Scan. <i>Chest</i> , 2020, 158, 121-130.	0.4	27
104	Relationship between Emphysema Progression at CT and Mortality in Ever-Smokers: Results from the COPDGene and ECLIPSE Cohorts. <i>Radiology</i> , 2021, 299, 222-231.	3.6	27
105	EUS with CT improves efficiency and structure identification over conventional EUS. <i>Gastrointestinal Endoscopy</i> , 2007, 65, 866-870.	0.5	26
106	Towards real time 2D to 3D registration for ultrasound-guided endoscopic and laparoscopic procedures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2009, 4, 549-560.	1.7	26
107	Effect of Emphysema on CT Scan Measures of Airway Dimensions in Smokers. <i>Chest</i> , 2013, 143, 687-693.	0.4	26
108	Identification of Chronic Obstructive Pulmonary Disease Axes That Predict All-Cause Mortality. <i>American Journal of Epidemiology</i> , 2018, 187, 2109-2116.	1.6	25

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109	Comparison of single-shot echo-planar and line scan protocols for diffusion tensor imaging1. Academic Radiology, 2004, 11, 224-232.	1.3	24
110	Real-time computed tomography-based augmented reality for natural orifice transluminal endoscopic surgery navigation. British Journal of Surgery, 2012, 99, 1246-1253.	0.1	24
111	Optimizing parameters of an open-source airway segmentation algorithm using different CT images. BioMedical Engineering OnLine, 2015, 14, 62.	1.3	24
112	A graph-cut approach for pulmonary artery-vein segmentation in noncontrast CT images. Medical Image Analysis, 2019, 52, 144-159.	7.0	24
113	Automatic Lung Lobe Segmentation Using Particles, Thin Plate Splines, and Maximum a Posteriori Estimation. Lecture Notes in Computer Science, 2010, 13, 163-171.	1.0	24
114	Kurtosis and Skewness of Density Histograms on Inspiratory and Expiratory CT Scans in Smokers. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2011, 8, 13-20.	0.7	22
115	B Cellâ€ Adaptive Immune Profile in Emphysema-Predominant Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 1434-1439.	2.5	22
116	Unsupervised Discovery of Emphysema Subtypes in a Large Clinical Cohort. Lecture Notes in Computer Science, 2016, 10019, 180-187.	1.0	22
117	The role of a computed tomography-based image registered navigation system for natural orifice transluminal endoscopic surgery: a comparative study in a porcine model. Endoscopy, 2010, 42, 1096-1103.	1.0	21
118	Pulmonary lobe segmentation based on ridge surface sampling and shape model fitting. Medical Physics, 2013, 40, 121903.	1.6	21
119	Multiâ€ atlas and label fusion approach for patientâ€ specific MRI based skull estimation. Magnetic Resonance in Medicine, 2016, 75, 1797-1807.	1.9	21
120	Arterial and Venous Pulmonary Vascular Morphology and Their Relationship to Findings in Cardiac Magnetic Resonance Imaging in Smokers. Journal of Computer Assisted Tomography, 2016, 40, 948-952.	0.5	21
121	Clinical, physiologic, and radiographic factors contributing to development of hypoxemia in moderate to severe COPD: a cohort study. BMC Pulmonary Medicine, 2016, 16, 169.	0.8	21
122	Phenotypic characterisation of early COPD: a prospective caseâ€ control study. ERJ Open Research, 2020, 6, 00047-2020.	1.1	21
123	Identification of an emphysema-associated genetic variant near TGFB2 with regulatory effects in lung fibroblasts. ELife, 2019, 8, .	2.8	21
124	Alpha-1 Antitrypsin MZ Heterozygosity Is an Endotype of Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 313-323.	2.5	21
125	Three-Dimensional Airway Measurements and Algorithms. Proceedings of the American Thoracic Society, 2008, 5, 905-909.	3.5	20
126	Understanding the contribution of native tracheobronchial structure to lung function: CT assessment of airway morphology in never smokers. Respiratory Research, 2015, 16, 23.	1.4	20

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127	Increased Airway Wall Thickness in Interstitial Lung Abnormalities and Idiopathic Pulmonary Fibrosis. <i>Annals of the American Thoracic Society</i> , 2019, 16, 447-454.	1.5	20
128	Respiratory exacerbations are associated with muscle loss in current and former smokers. <i>Thorax</i> , 2021, 76, 554-560.	2.7	20
129	Towards scarless surgery: An endoscopic ultrasound navigation system for transgastric access procedures. <i>Computer Aided Surgery</i> , 2007, 12, 311-324.	1.8	20
130	Abdominal Visceral Adipose Tissue is Associated with Myocardial Infarction in Patients with COPD. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2015, 2, 8-16.	0.5	20
131	Towards scarless surgery: An endoscopic ultrasound navigation system for transgastric access procedures. <i>Computer Aided Surgery</i> , 2007, 12, 311-324.	1.8	19
132	Common Genetic Variants Associated with Resting Oxygenation in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 678-687.	1.4	19
133	Automated Agatston score computation in a large dataset of non ECG-gated chest computed tomography. , 2016, 2016, 53-57.		19
134	Ventricular Geometry From Non-contrast Non-ECG-gated CT Scans. <i>Academic Radiology</i> , 2017, 24, 594-602.	1.3	19
135	Pulmonary vascular pruning in smokers with bronchiectasis. <i>ERJ Open Research</i> , 2018, 4, 00044-2018.	1.1	19
136	On Diffusion Tensor Estimation. , 2006, 2006, 2622-5.		18
137	Childhood-Onset Asthma in Smokers. Association between CT Measures of Airway Size, Lung Function, and Chronic Airflow Obstruction. <i>Annals of the American Thoracic Society</i> , 2014, 11, 1371-1378.	1.5	18
138	Longitudinal Association Between Muscle Loss and Mortality in Ever Smokers. <i>Chest</i> , 2022, 161, 960-970.	0.4	18
139	A Bayesian Nonparametric Model for Disease Subtyping: Application to Emphysema Phenotypes. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 343-354.	5.4	17
140	A Highly Phenotyped Open Access Repository of Alpha-1 Antitrypsin Deficiency Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2020, 15, 242-255.	2.3	17
141	Pulmonary Arterial Pruning and Longitudinal Change in Percent Emphysema and Lung Function. <i>Chest</i> , 2021, 160, 470-480.	0.4	17
142	A Feature-Based Approach to Big Data Analysis of Medical Images. <i>Lecture Notes in Computer Science</i> , 2015, 24, 339-350.	1.0	17
143	Quantitative Airway Assessment on Computed Tomography in Patients with $\hat{1}$ -antitrypsin Deficiency. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2009, 6, 468-477.	0.7	16
144	Image Registered Gastroscopic Ultrasound (IRGUS) in human subjects: a pilot study to assess feasibility. <i>Endoscopy</i> , 2011, 43, 394-399.	1.0	16

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145	Regional Emphysema of a Non-Small Cell Tumor Is Associated with Larger Tumors and Decreased Survival. <i>Annals of the American Thoracic Society</i> , 2015, 12, 150603140911000.	1.5	16
146	Magnetic resonance imaging provides sensitive in vivo assessment of experimental ventilator-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L208-L218.	1.3	16
147	Computed Tomographic Airway Morphology in Chronic Obstructive Pulmonary Disease. Remodeling or Innate Anatomy?. <i>Annals of the American Thoracic Society</i> , 2016, 13, 4-9.	1.5	16
148	Cardiac Morphometry on Computed Tomography and Exacerbation Reduction with β -Blocker Therapy in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 196, 1484-1488.	2.5	16
149	Disease Severity Dependence of the Longitudinal Association Between CT Lung Density and Lung Function in Smokers. <i>Chest</i> , 2018, 153, 638-645.	0.4	16
150	Cigarette Smoke Exposure and Radiographic Pulmonary Vascular Morphology in the Framingham Heart Study. <i>Annals of the American Thoracic Society</i> , 2019, 16, 698-706.	1.5	16
151	Biomarker Localization From Deep Learning Regression Networks. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2121-2132.	5.4	16
152	Evidence for Expanding Invasive Mediastinal Staging for Peripheral T1 Lung Tumors. <i>Chest</i> , 2020, 158, 2192-2199.	0.4	16
153	Small Airway Disease and Emphysema Are Associated with Future Exacerbations in Smokers with CT-derived Bronchiectasis and COPD: Results from the COPDGene Cohort. <i>Radiology</i> , 2021, 300, 706-714.	3.6	16
154	Lung Mass in Smokers. <i>Academic Radiology</i> , 2017, 24, 386-392.	1.3	15
155	Visual Assessment of Chest Computed Tomographic Images Is Independently Useful for Genetic Association Analysis in Studies of Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2017, 14, 33-40.	1.5	15
156	Exposure to Traffic Emissions and Fine Particulate Matter and Computed Tomography Measures of the Lung and Airways. <i>Epidemiology</i> , 2018, 29, 333-341.	1.2	15
157	Increased Airway Wall Thickness is Associated with Adverse Longitudinal First and Second Forced Expiratory Volume Trajectories of Former World Trade Center workers. <i>Lung</i> , 2018, 196, 481-489.	1.4	15
158	Integrative Genomics Analysis Identifies ACVR1B as a Candidate Causal Gene of Emphysema Distribution. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 388-398.	1.4	15
159	Pulmonary artery enlargement and mortality risk in moderate to severe COPD: results from COPDGene. <i>European Respiratory Journal</i> , 2020, 55, 1901812.	3.1	15
160	Progression of traction bronchiectasis/bronchiolectasis in interstitial lung abnormalities is associated with increased all-cause mortality: Age Gene/Environment Susceptibility-Reykjavik Study. <i>European Journal of Radiology Open</i> , 2021, 8, 100334.	0.7	15
161	Extended Gabor approach applied to classification of emphysematous patterns in computed tomography. <i>Medical and Biological Engineering and Computing</i> , 2014, 52, 393-403.	1.6	14
162	Statistical characterization of noise for spatial standardization of CT scans: Enabling comparison with multiple kernels and doses. <i>Medical Image Analysis</i> , 2017, 40, 44-59.	7.0	14

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163	Asthma Is a Risk Factor for Respiratory Exacerbations Without Increased Rate of Lung Function Decline. <i>Chest</i> , 2018, 153, 368-377.	0.4	14
164	Left atrial contractile strain predicts recurrence of atrial tachyarrhythmia after catheter ablation. <i>International Journal of Cardiology</i> , 2022, 358, 51-57.	0.8	14
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