

Rail San Jos Estpar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

272 papers	7,057 citations	43 h-index	73 g-index
311 ext. papers	8,844 ext. citations	5.1 avg, IF	5.53 L-index

#	Paper	IF	Citations
272	Lung volumes and emphysema in smokers with interstitial lung abnormalities. <i>New England Journal of Medicine</i> , 2011 , 364, 897-906	59.2	350
271	The clinical features of the overlap between COPD and asthma. <i>Respiratory Research</i> , 2011 , 12, 127	7.3	308
270	MUC5B promoter polymorphism and interstitial lung abnormalities. <i>New England Journal of Medicine</i> , 2013 , 368, 2192-200	59.2	265
269	Association Between Interstitial Lung Abnormalities and All-Cause Mortality. <i>JAMA - Journal of the American Medical Association</i> , 2016 , 315, 672-81	27.4	209
268	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	10.2	147
267	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, 231-9	10.2	142
266	Identification of early interstitial lung disease in smokers from the COPDGene Study. <i>Academic Radiology</i> , 2010 , 17, 48-53	4.3	134
265	Gender differences in the severity of CT emphysema in COPD. <i>Chest</i> , 2007 , 132, 464-70	5.3	130
264	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, 218-25	10.2	123
263	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	10.2	118
262	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, 326-34	4.7	116
261	Epidemiology, genetics, and subtyping of preserved ratio impaired spirometry (PRISm) in COPDGene. <i>Respiratory Research</i> , 2014 , 15, 89	7.3	109
260	A Genome-Wide Association Study of Emphysema and Airway Quantitative Imaging Phenotypes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 192, 559-69	10.2	103
259	Statins and pulmonary fibrosis: the potential role of NLRP3 inflammasome activation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 185, 547-56	10.2	103
258	Relationship between quantitative CT metrics and health status and BODE in chronic obstructive pulmonary disease. <i>Thorax</i> , 2012 , 67, 399-406	7.3	97
257	Quantitative CT measurement of cross-sectional area of small pulmonary vessel in COPD: correlations with emphysema and airflow limitation. <i>Academic Radiology</i> , 2010 , 17, 93-9	4.3	96
256	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	11.5	95

255	Distinct quantitative computed tomography emphysema patterns are associated with physiology and function in smokers. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 188, 1083-90	10.2	95
254	Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study. <i>Medical Image Analysis</i> , 2014 , 18, 1217-32	15.4	88
253	Interobserver variability in the determination of upper lobe-predominant emphysema. <i>Chest</i> , 2007 , 131, 424-31	5.3	80
252	CT metrics of airway disease and emphysema in severe COPD. <i>Chest</i> , 2009 , 136, 396-404	5.3	78
251	Interstitial lung abnormalities detected incidentally on CT: a Position Paper from the Fleischner Society. <i>Lancet Respiratory Medicine</i> , 2020 , 8, 726-737	35.1	77
250	Diffusion tractography of the fornix in schizophrenia. <i>Schizophrenia Research</i> , 2009 , 107, 39-46	3.6	74
249	Paired inspiratory-expiratory chest CT scans to assess for small airways disease in COPD. <i>Respiratory Research</i> , 2013 , 14, 42	7.3	73
248	Collapsibility of lung volume by paired inspiratory and expiratory CT scans: correlations with lung function and mean lung density. <i>Academic Radiology</i> , 2010 , 17, 489-95	4.3	68
247	Image quality assessment based on local variance. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4815-8		68
246	Three-dimensional Printing and 3D Slicer: Powerful Tools in Understanding and Treating Structural Lung Disease. <i>Chest</i> , 2016 , 149, 1136-42	5.3	67
245	Pulmonary Artery-Vein Classification in CT Images Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2428-2440	11.7	66
244	Common Genetic Polymorphisms Influence Blood Biomarker Measurements in COPD. <i>PLoS Genetics</i> , 2016 , 12, e1006011	6	64
243	Genome-wide association identifies regulatory Loci associated with distinct local histogram emphysema patterns. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 190, 399-409	10.2	62
242	Prediction of acute respiratory disease in current and former smokers with and without COPD. <i>Chest</i> , 2014 , 146, 941-950	5.3	61
241	COPDGene 2019: Redefining the Diagnosis of Chronic Obstructive Pulmonary Disease. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2019 , 6, 384-399	2.7	61
240	Airway count and emphysema assessed by chest CT imaging predicts clinical outcome in smokers. <i>Chest</i> , 2010 , 138, 880-7	5.3	60
239	Longitudinal Phenotypes and Mortality in Preserved Ratio Impaired Spirometry in the COPDGene Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 1397-1405	10.2	59
238	Computer keyboard interaction as an indicator of early Parkinson's disease. <i>Scientific Reports</i> , 2016 , 6, 34468	4.9	56

237	SlicerDMRI: Open Source Diffusion MRI Software for Brain Cancer Research. <i>Cancer Research</i> , 2017 , 77, e101-e103	10.1	56
236	Airway wall attenuation: a biomarker of airway disease in subjects with COPD. <i>Journal of Applied Physiology</i> , 2009 , 107, 185-91	3.7	56
235	Sampling and visualizing creases with scale-space particles. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009 , 15, 1415-24	4	55
234	Shape of caudate nucleus and its cognitive correlates in neuroleptic-naïve schizotypal personality disorder. <i>Biological Psychiatry</i> , 2004 , 55, 177-84	7.9	52
233	Imaging Advances in Chronic Obstructive Pulmonary Disease. Insights from the Genetic Epidemiology of Chronic Obstructive Pulmonary Disease (COPDGene) Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 286-301	10.2	52
232	Relationship of emphysema and airway disease assessed by CT to exercise capacity in COPD. <i>Respiratory Medicine</i> , 2010 , 104, 1145-51	4.6	46
231	Association between airway caliber changes with lung inflation and emphysema assessed by volumetric CT scan in subjects with COPD. <i>Chest</i> , 2012 , 141, 736-744	5.3	43
230	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, 690-8	0.9	43
229	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	4	42
228	Densitometric and local histogram based analysis of computed tomography images in patients with idiopathic pulmonary fibrosis. <i>Respiratory Research</i> , 2017 , 18, 45	7.3	42
227	Pulmonary artery enlargement is associated with right ventricular dysfunction and loss of blood volume in small pulmonary vessels in chronic obstructive pulmonary disease. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8,	3.9	42
226	Quantitative CT Measures of Bronchiectasis in Smokers. <i>Chest</i> , 2017 , 151, 1255-1262	5.3	41
225	Geodesic-loxodromes for diffusion tensor interpolation and difference measurement 2007 , 10, 1-9		40
224	Genetic susceptibility for chronic bronchitis in chronic obstructive pulmonary disease. <i>Respiratory Research</i> , 2014 , 15, 113	7.3	39
223	Non-emphysematous chronic obstructive pulmonary disease is associated with diabetes mellitus. <i>BMC Pulmonary Medicine</i> , 2014 , 14, 164	3.5	39
222	EMPHYSEMA QUANTIFICATION IN A MULTI-SCANNER HRCT COHORT USING LOCAL INTENSITY DISTRIBUTIONS 2012 , 474-477	1.5	38
221	Physiological and computed tomographic predictors of outcome from lung volume reduction surgery. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010 , 181, 494-500	10.2	38
220	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	5.7	37

219	Arterial Vascular Pruning, Right Ventricular Size, and Clinical Outcomes in Chronic Obstructive Pulmonary Disease. A Longitudinal Observational Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 200, 454-461	10.2	37
218	The relationship between small pulmonary vascular alteration and aortic atherosclerosis in chronic obstructive pulmonary disease: quantitative CT analysis. <i>Academic Radiology</i> , 2011 , 18, 40-6	4.3	37
217	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, 363-9	5.4	36
216	Accurate airway wall estimation using phase congruency. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 125-34	0.9	36
215	A theoretical framework to three-dimensional ultrasound reconstruction from irregularly sampled data. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 255-69	3.5	35
214	Chest CT measures of muscle and adipose tissue in COPD: gender-based differences in content and in relationships with blood biomarkers. <i>Academic Radiology</i> , 2014 , 21, 1255-61	4.3	34
213	The promoter polymorphism is associated with specific interstitial lung abnormality subtypes. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	34
212	Six-minute walk distance predictors, including CT scan measures, in the COPDGene cohort. <i>Chest</i> , 2012 , 141, 867-875	5.3	34
211	Evaluation of colonoscopy technical skill levels by use of an objective kinematic-based system. <i>Gastrointestinal Endoscopy</i> , 2011 , 73, 315-21, 321.e1	5.2	33
210	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	10.2	32
209	Classification of Interstitial Lung Abnormality Patterns with an Ensemble of Deep Convolutional Neural Networks. <i>Scientific Reports</i> , 2020 , 10, 338	4.9	30
208	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. <i>Medical Image Analysis</i> , 2020 , 66, 101800	15.4	30
207	A Novel Spirometric Measure Identifies Mild COPD Unidentified by Standard Criteria. <i>Chest</i> , 2016 , 150, 1080-1090	5.3	30
206	Pulmonary vascular morphology as an imaging biomarker in chronic thromboembolic pulmonary hypertension. <i>Pulmonary Circulation</i> , 2016 , 6, 70-81	2.7	29
205	Chest computed tomography-derived low-fat-free mass index and mortality in COPD. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	29
204	Pruning of the Pulmonary Vasculature in Asthma. The Severe Asthma Research Program (SARP) Cohort. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 39-50	10.2	28
203	A comparison of visual and quantitative methods to identify interstitial lung abnormalities. <i>BMC Pulmonary Medicine</i> , 2015 , 15, 134	3.5	27
202	Gender differences of airway dimensions in anatomically matched sites on CT in smokers. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2011 , 8, 285-92	2	27

201	Application of the 3D slicer chest imaging platform segmentation algorithm for large lung nodule delineation. <i>PLoS ONE</i> , 2017 , 12, e0178944	3.7	26
200	Lung deflation and oxygen pulse in COPD: results from the NETT randomized trial. <i>Respiratory Medicine</i> , 2012 , 106, 109-19	4.6	26
199	COMPUTATIONAL VASCULAR MORPHOMETRY FOR THE ASSESSMENT OF PULMONARY VASCULAR DISEASE BASED ON SCALE-SPACE PARTICLES 2012 , 1479-1482	1.5	26
198	Pulmonary vascular density: comparison of findings on computed tomography imaging with histology. <i>European Respiratory Journal</i> , 2019 , 54,	13.6	25
197	EUS with CT improves efficiency and structure identification over conventional EUS. <i>Gastrointestinal Endoscopy</i> , 2007 , 65, 866-70	5.2	25
196	Distinct emphysema subtypes defined by quantitative CT analysis are associated with specific pulmonary matrix metalloproteinases. <i>Respiratory Research</i> , 2016 , 17, 92	7.3	25
195	Pectoralis muscle area and mortality in smokers without airflow obstruction. <i>Respiratory Research</i> , 2018 , 19, 62	7.3	24
194	Intrathoracic tracheal volume and collapsibility on inspiratory and end-expiratory ct scans correlations with lung volume and pulmonary function in 85 smokers. <i>Academic Radiology</i> , 2011 , 18, 299-305	4.3	24
193	Lobar Emphysema Distribution Is Associated With 5-Year Radiological Disease Progression. <i>Chest</i> , 2018 , 153, 65-76	5.3	23
192	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, 549-60	3.9	23
191	Comparison of single-shot echo-planar and line scan protocols for diffusion tensor imaging. <i>Academic Radiology</i> , 2004 , 11, 224-32	4.3	23
190	The Objective Identification and Quantification of Interstitial Lung Abnormalities in Smokers. <i>Academic Radiology</i> , 2017 , 24, 941-946	4.3	22
189	Interstitial Features at Chest CT Enhance the Deleterious Effects of Emphysema in the COPD Gene Cohort. <i>Radiology</i> , 2018 , 288, 600-609	20.5	22
188	Pneumothorax risk factors in smokers with and without chronic obstructive pulmonary disease. <i>Annals of the American Thoracic Society</i> , 2014 , 11, 1387-94	4.7	22
187	Real-time computed tomography-based augmented reality for natural orifice transluminal endoscopic surgery navigation. <i>British Journal of Surgery</i> , 2012 , 99, 1246-53	5.3	22
186	Automated Agatston Score Computation in non-ECG Gated CT Scans Using Deep Learning. <i>Proceedings of SPIE</i> , 2018 , 10574,	1.7	22
185	Invasive adenocarcinoma of the lung is associated with the upper lung regions. <i>Lung Cancer</i> , 2014 , 84, 145-50	5.9	21
184	Bronchoarterial ratio in never-smokers adults: Implications for bronchial dilation definition. <i>Respirology</i> , 2017 , 22, 108-113	3.6	21

183	Automated quantitative 3D analysis of aorta size, morphology, and mural calcification distributions. <i>Medical Physics</i> , 2015 , 42, 5467-78	4.4	21
182	Effect of emphysema on CT scan measures of airway dimensions in smokers. <i>Chest</i> , 2013 , 143, 687-693	5.3	21
181	Pulmonary lobe segmentation based on ridge surface sampling and shape model fitting. <i>Medical Physics</i> , 2013 , 40, 121903	4.4	21
180	Robust Generalized Total Least Squares Iterative Closest Point Registration. <i>Lecture Notes in Computer Science</i> , 2004 , 234-241	0.9	21
179	Clinical and Genetic Associations of Objectively Identified Interstitial Changes in Smokers. <i>Chest</i> , 2017 , 152, 780-791	5.3	20
178	The role of a computed tomography-based image registered navigation system for natural orifice transluminal endoscopic surgery: a comparative study in a porcine model. <i>Endoscopy</i> , 2010 , 42, 1096-103	3.4	20
177	Aorta segmentation with a 3D level set approach and quantification of aortic calcifications in non-contrast chest CT. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2343-6	0.9	20
176	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	2.7	20
175	Towards scarless surgery: An endoscopic ultrasound navigation system for transgastric access procedures. <i>Computer Aided Surgery</i> , 2007 , 12, 311-324		20
174	Disease Progression Modeling in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, 294-302	10.2	20
173	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	5.3	19
172	SlicerDMRI: Diffusion MRI and Tractography Research Software for Brain Cancer Surgery Planning and Visualization. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 299-309	5.2	19
171	Airway fractal dimension predicts respiratory morbidity and mortality in COPD. <i>Journal of Clinical Investigation</i> , 2018 , 128, 5374-5382	15.9	19
170	3D Printing and Personalized Airway Stents. <i>Pulmonary Therapy</i> , 2017 , 3, 59-66	3	18
169	Ventricular Geometry From Non-contrast Non-ECG-gated CT Scans: An Imaging Marker of Cardiopulmonary Disease in Smokers. <i>Academic Radiology</i> , 2017 , 24, 594-602	4.3	18
168	Understanding the contribution of native tracheobronchial structure to lung function: CT assessment of airway morphology in never smokers. <i>Respiratory Research</i> , 2015 , 16, 23	7.3	18
167	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	10.2	18
166	Three-dimensional airway measurements and algorithms. <i>Proceedings of the American Thoracic Society</i> , 2008 , 5, 905-9		18

165	Towards scarless surgery: an endoscopic ultrasound navigation system for transgastric access procedures. <i>Computer Aided Surgery</i> , 2007 , 12, 311-24		18
164	Machine Learning Characterization of COPD Subtypes: Insights From the COPDGene Study. <i>Chest</i> , 2020 , 157, 1147-1157	5.3	18
163	AUTOMATED AGATSTON SCORE COMPUTATION IN A LARGE DATASET OF NON ECG-GATED CHEST COMPUTED TOMOGRAPHY 2016 , 2016, 53-57	1.5	18
162	Optimizing parameters of an open-source airway segmentation algorithm using different CT images. <i>BioMedical Engineering OnLine</i> , 2015 , 14, 62	4.1	17
161	DNAH5 is associated with total lung capacity in chronic obstructive pulmonary disease. <i>Respiratory Research</i> , 2014 , 15, 97	7.3	17
160	Common genetic variants associated with resting oxygenation in chronic obstructive pulmonary disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014 , 51, 678-87	5.7	17
159	Automatic lung lobe segmentation using particles, thin plate splines, and maximum a posteriori estimation. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 163-71	0.9	17
158	Kurtosis and skewness of density histograms on inspiratory and expiratory CT scans in smokers. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2011 , 8, 13-20	2	16
157	Unsupervised Discovery of Emphysema Subtypes in a Large Clinical Cohort. <i>Lecture Notes in Computer Science</i> , 2016 , 10019, 180-187	0.9	16
156	Machine Learning and Prediction of All-Cause Mortality in COPD. <i>Chest</i> , 2020 , 158, 952-964	5.3	15
155	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, 1371-8	4.7	15
154	Multi-atlas and label fusion approach for patient-specific MRI based skull estimation. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1797-807	4.4	15
153	Increased Airway Wall Thickness in Interstitial Lung Abnormalities and Idiopathic Pulmonary Fibrosis. <i>Annals of the American Thoracic Society</i> , 2019 , 16, 447-454	4.7	15
152	Quantitative airway assessment on computed tomography in patients with alpha1-antitrypsin deficiency. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2009 , 6, 468-77	2	14
151	A Feature-Based Approach to Big Data Analysis of Medical Images. <i>Lecture Notes in Computer Science</i> , 2015 , 24, 339-50	0.9	14
150	Identification of Chronic Obstructive Pulmonary Disease Axes That Predict All-Cause Mortality: The COPDGene Study. <i>American Journal of Epidemiology</i> , 2018 , 187, 2109-2116	3.8	14
149	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	10.2	13
148	Regional Emphysema of a Non-Small Cell Tumor Is Associated with Larger Tumors and Decreased Survival Rates. <i>Annals of the American Thoracic Society</i> , 2015 , 12, 1197-205	4.7	13

147	Exposure to Traffic Emissions and Fine Particulate Matter and Computed Tomography Measures of the Lung and Airways. <i>Epidemiology</i> , 2018 , 29, 333-341	3.1	13
146	Clinical, physiologic, and radiographic factors contributing to development of hypoxemia in moderate to severe COPD: a cohort study. <i>BMC Pulmonary Medicine</i> , 2016 , 16, 169	3.5	13
145	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	4.7	13
144	A Bayesian Nonparametric Model for Disease Subtyping: Application to Emphysema Phenotypes. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 343-354	11.7	13
143	Image Registered Gastroscopic Ultrasound (IRGUS) in human subjects: a pilot study to assess feasibility. <i>Endoscopy</i> , 2011 , 43, 394-9	3.4	13
142	Image Quality Assessment based on Local Variance		13
141	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, L208-18	5.8	13
140	Disease Severity Dependence of the Longitudinal Association Between CT Lung Density and Lung Function in Smokers. <i>Chest</i> , 2018 , 153, 638-645	5.3	12
139	Radiographic pulmonary vessel volume, lung function and airways disease in the Framingham Heart Study. <i>European Respiratory Journal</i> , 2019 , 54,	13.6	12
138	Identification of an emphysema-associated genetic variant near with regulatory effects in lung fibroblasts. <i>ELife</i> , 2019 , 8,	8.9	12
137	Asthma Is a Risk Factor for Respiratory Exacerbations Without Increased Rate of Lung Function Decline: Five-Year Follow-up in Adult Smokers From the COPDGene Study. <i>Chest</i> , 2018 , 153, 368-377	5.3	11
136	B Cell-Adaptive Immune Profile in Emphysema-Predominant Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 200, 1434-1439	10.2	11
135	Extended Gabor approach applied to classification of emphysematous patterns in computed tomography. <i>Medical and Biological Engineering and Computing</i> , 2014 , 52, 393-403	3.1	11
134	Traction Bronchiectasis/Bronchiolectasis is Associated with Interstitial Lung Abnormality Mortality. <i>European Journal of Radiology</i> , 2020 , 129, 109073	4.7	11
133	Arterial and Venous Pulmonary Vascular Morphology and Their Relationship to Findings in Cardiac Magnetic Resonance Imaging in Smokers. <i>Journal of Computer Assisted Tomography</i> , 2016 , 40, 948-952	2.2	11
132	Deep learning for biomarker regression: application to osteoporosis and emphysema on chest CT scans. <i>Proceedings of SPIE</i> , 2018 , 10574,	1.7	11
131	Increased Airway Wall Thickness is Associated with Adverse Longitudinal First-Second Forced Expiratory Volume Trajectories of Former World Trade Center workers. <i>Lung</i> , 2018 , 196, 481-489	2.9	11
130	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	15.4	10

129	Lung Mass in Smokers. <i>Academic Radiology</i> , 2017 , 24, 386-392	4.3	10
128	Smart stylist: the development and use of a bedside external ventricular drain image-guidance system. <i>Stereotactic and Functional Neurosurgery</i> , 2015 , 93, 50-8	1.6	10
127	A Highly Phenotyped Open Access Repository of Alpha-1 Antitrypsin Deficiency Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2020 , 15, 242-255	8	10
126	Luminal Plugging on Chest CT Scan: Association With Lung Function, Quality of Life, and COPD Clinical Phenotypes. <i>Chest</i> , 2020 , 158, 121-130	5.3	10
125	On diffusion tensor estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 2622-5		10
124	A graph-cut approach for pulmonary artery-vein segmentation in noncontrast CT images. <i>Medical Image Analysis</i> , 2019 , 52, 144-159	15.4	10
123	Quantification of the Pulmonary Vascular Response to Inhaled Nitric Oxide Using Noncontrast Computed Tomography Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e008338	3.9	10
122	Pulmonary vascular pruning in smokers with bronchiectasis. <i>ERJ Open Research</i> , 2018 , 4,	3.5	10
121	Pulmonary artery enlargement and mortality risk in moderate to severe COPD: results from COPDGene. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	9
120	Quantitative CT Evidence of Airway Inflammation in WTC Workers and Volunteers with Low FVC Spirometric Pattern. <i>Lung</i> , 2020 , 198, 555-563	2.9	9
119	EMPHYSEMA CLASSIFICATION USING A MULTI-VIEW CONVOLUTIONAL NETWORK 2018 , 2018, 519-522	1.5	9
118	Comparative study of NOTES alone versus NOTES guided by a new image registration system for navigation in the mediastinum: a study in a porcine model. <i>Gastrointestinal Endoscopy</i> , 2013 , 77, 102-7	5.2	9
117	Complementary aspects of diffusion imaging and fMRI; I: structure and function. <i>Magnetic Resonance Imaging</i> , 2006 , 24, 463-74	3.3	9
116	Morphologic Response of the Pulmonary Vasculature to Endoscopic Lung Volume Reduction. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2015 , 2, 214-222	2.7	9
115	Biomarker Localization From Deep Learning Regression Networks. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2121-2132	11.7	9
114	Phenotypic characterisation of early COPD: a prospective case-control study. <i>ERJ Open Research</i> , 2020 , 6,	3.5	9
113	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	4.7	9
112	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	5.7	9

111	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	4.7	8
110	Semi-quantitative visual assessment of chest radiography is associated with clinical outcomes in critically ill patients. <i>Respiratory Research</i> , 2019 , 20, 218	7.3	8
109	Implementation and Performance of Automated Software for Computing Right-to-Left Ventricular Diameter Ratio From Computed Tomography Pulmonary Angiography Images. <i>Journal of Computer Assisted Tomography</i> , 2016 , 40, 387-92	2.2	8
108	Association between acute respiratory disease events and the promoter polymorphism in smokers. <i>Thorax</i> , 2018 , 73, 1071-1074	7.3	7
107	NOVIFAST: A Fast Algorithm for Accurate and Precise VFA MRI Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2414-2427	11.7	7
106	Automated axial right ventricle to left ventricle diameter ratio computation in computed tomography pulmonary angiography. <i>PLoS ONE</i> , 2015 , 10, e0127797	3.7	7
105	Quantification and Significance of Pulmonary Vascular Volume in Predicting Response to Ultrasound-Facilitated, Catheter-Directed Fibrinolysis in Acute Pulmonary Embolism (SEATTLE-3D). <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e009903	3.9	7
104	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	2.4	7
103	EMPHYSEMA QUANTIFICATION ON SIMULATED X-RAYS THROUGH DEEP LEARNING TECHNIQUES 2018 , 2018, 273-276	1.5	7
102	Quantitative computed tomography assessment of bronchiolitis obliterans syndrome after lung transplantation. <i>Clinical Transplantation</i> , 2017 , 31, e12943	3.8	6
101	Deep-learning strategy for pulmonary artery-vein classification of non-contrast CT images 2017 ,		6
100	Generative Method to Discover Genetically Driven Image Biomarkers. <i>Lecture Notes in Computer Science</i> , 2015 , 24, 30-42	0.9	6
99	Evidence for Expanding Invasive Mediastinal Staging for Peripheral T1 Lung Tumors. <i>Chest</i> , 2020 , 158, 2192-2199	5.3	6
98	AUTOMATIC AIRWAY ANALYSIS FOR GENOME-WIDE ASSOCIATION STUDIES IN COPD 2012 , 1467-1470	1.5	6
97	Multi-structure Segmentation from Partially Labeled Datasets. Application to Body Composition Measurements on CT Scans. <i>Lecture Notes in Computer Science</i> , 2018 , 11040, 215-224	0.9	6
96	3D Pulmonary Artery Segmentation from CTA Scans Using Deep Learning with Realistic Data Augmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 11040, 225-237	0.9	6
95	Autocalibration method for non-stationary CT bias correction. <i>Medical Image Analysis</i> , 2018 , 44, 115-125	15.4	5
94	A Robust Emphysema Severity Measure Based on Disease Subtypes. <i>Academic Radiology</i> , 2016 , 23, 421-431	4.3	5

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91	Diffeomorphic Lung Registration Using Deep CNNs and Reinforced Learning. <i>Lecture Notes in Computer Science</i> , 2018 , 11040, 284-294	0.9	5
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88	Respiratory exacerbations are associated with muscle loss in current and former smokers. <i>Thorax</i> , 2021 , 76, 554-560	7.3	5
87	Accurate Measurement of Airway Morphology on Chest CT Images. <i>Lecture Notes in Computer Science</i> , 2018 , 11040, 335-347	0.9	5
86	QIBA guidance: Computed tomography imaging for COVID-19 quantitative imaging applications. <i>Clinical Imaging</i> , 2021 , 77, 151-157	2.7	5
85	Towards scarless surgery: an endoscopic-ultrasound navigation system for transgastric access procedures. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 445-53	0.9	5
84	Semiautomated biventricular segmentation in three-dimensional echocardiography by coupled deformable surfaces. <i>Journal of Medical Imaging</i> , 2017 , 4, 024005	2.6	4
83	Smaller Left Ventricle Size at Noncontrast CT Is Associated with Lower Mortality in COPD Gene Participants. <i>Radiology</i> , 2020 , 296, 208-215	20.5	4
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81	On diffusion tensor estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , Suppl, 6707-10		4
80	Advances in Texture Analysis for Emphysema Classification. <i>Lecture Notes in Computer Science</i> , 2013 , 214-221	0.9	4
79	Quantitative Pectoralis Muscle Area is Associated with the Development of Lung Cancer in a Large Lung Cancer Screening Cohort. <i>Lung</i> , 2020 , 198, 847-853	2.9	4
78	Generative-based airway and vessel morphology quantification on chest CT images. <i>Medical Image Analysis</i> , 2020 , 63, 101691	15.4	4
77	Paired CT Measures of Emphysema and Small Airways Disease and Lung Function and Exercise Capacity in Smokers with Radiographic Bronchiectasis. <i>Academic Radiology</i> , 2021 , 28, 370-378	4.3	4
76	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	2.6	4

75	Quantification of Arterial and Venous Morphologic Markers in Pulmonary Arterial Hypertension Using CT Imaging. <i>Chest</i> , 2021 , 160, 2220-2231	5.3	4
74	Harmonization of chest CT scans for different doses and reconstruction methods. <i>Medical Physics</i> , 2019 , 46, 3117-3132	4.4	3
73	Increased pulmonary artery diameter is associated with reduced FEV in former World Trade Center workers. <i>Clinical Respiratory Journal</i> , 2019 , 13, 614-623	1.7	3
72	Automatic ventricle detection in Computed Tomography Pulmonary Angiography 2015 ,		3
71	Pectoralis Muscle Segmentation on CT Images Based on Bayesian Graph Cuts with a Subject-Tailored Atlas. <i>Lecture Notes in Computer Science</i> , 2014 , 34-44	0.9	3
70	A kernel-based approach for user-guided fiber bundling using diffusion tensor data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 2626-9		3
69	Freehand Ultrasound Reconstruction Based on ROI Prior Modeling and Normalized Convolution. <i>Lecture Notes in Computer Science</i> , 2003 , 382-390	0.9	3
68	On the Relevance of the Loss Function in the Agatston Score Regression from Non-ECG Gated CT Scans. <i>Lecture Notes in Computer Science</i> , 2018 , 11040, 326-334	0.9	3
67	CT Image Enhancement for Feature Detection and Localization. <i>Lecture Notes in Computer Science</i> , 2017 , 224-232	0.9	3
66	Differences in Respiratory Symptoms and Lung Structure Between Hispanic and Non-Hispanic White Smokers: A Comparative Study. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2017 , 4, 297-304	2.7	3
65	New Kinematic Metric for Quantifying Surgical Skill for Flexible Instrument Manipulation. <i>Lecture Notes in Computer Science</i> , 2010 , 81-90	0.9	3
64	Relationship between Emphysema Progression at CT and Mortality in Ever-Smokers: Results from the COPD Gene and ECLIPSE Cohorts. <i>Radiology</i> , 2021 , 299, 222-231	20.5	3
63	Objectively Measured Chronic Lung Injury on Chest CT. <i>Chest</i> , 2019 , 156, 1149-1159	5.3	3
62	Vascular Pruning on CT and Interstitial Lung Abnormalities in the Framingham Heart Study. <i>Chest</i> , 2021 , 159, 663-672	5.3	3
61	Association of quantitative CT lung density measurements and lung function decline in World Trade Center workers. <i>Clinical Respiratory Journal</i> , 2021 , 15, 613-621	1.7	2
60	Association of Obesity with Quantitative Chest CT Measured Airway Wall Thickness in WTC Workers with Lower Airway Disease. <i>Lung</i> , 2019 , 197, 517-522	2.9	2
59	Optimal real-time estimation in diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 506-17	3.3	2
58	MODELING AIRWAY PROBABILITY 2013 ,	1.5	2

57	DIFFEOMORPHIC POINT SET REGISTRATION USING NON-STATIONARY MIXTURE MODELS 2013 ,	1.5	2
56	Application of high-resolution CT imaging data to lung cancer drug development: measuring progress: workshop IX. <i>Journal of Thoracic Oncology</i> , 2013 , 8, 1352-5	8.9	2
55	Reshaping polygonal meshes with smoothed normals extracted from ultrasound volume data: an optimization approach 2001 ,		2
54	Multiorgan structures detection using deep convolutional neural networks. <i>Proceedings of SPIE</i> , 2018 , 10574,	1.7	2
53	Riemannian Mean Curvature Flow. <i>Lecture Notes in Computer Science</i> , 2005 , 613-620	0.9	2
52	Open-Source Environment for Interactive Finite Element Modeling of Optimal ICD Electrode Placement. <i>Lecture Notes in Computer Science</i> , 2007 , 373-382	0.9	2
51	Qualitative emphysema and risk of COPD hospitalization in a multicenter CT lung cancer screening cohort study. <i>Respiratory Medicine</i> , 2021 , 176, 106245	4.6	2
50	Pulmonary Arterial Pruning and Longitudinal Change in Percent Emphysema and Lung Function: The Genetic Epidemiology of COPD Study. <i>Chest</i> , 2021 , 160, 470-480	5.3	2
49	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	20.5	2
48	Significant Spirometric Transitions and Preserved Ratio Impaired Spirometry Among Ever Smokers. <i>Chest</i> , 2021 ,	5.3	2
47	Evolution of Obstructive Lung Function in Advanced Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 ,	10.2	2
46	Tumor density is associated with response to endobronchial ultrasound-guided transbronchial needle injection of cisplatin. <i>Journal of Thoracic Disease</i> , 2020 , 12, 4825-4832	2.6	1
45	Reply to Mummadi et al.: Overfitting and Use of Mismatched Cohorts in Deep Learning Models: Preventable Design Limitations. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 545	10.2	1
44	DERIVATION OF A TEST STATISTIC FOR EMPHYSEMA QUANTIFICATION 2016 , 2016, 1269-1273	1.5	1
43	A SR-NET 3D-TO-2D ARCHITECTURE FOR PARASEPTAL EMPHYSEMA SEGMENTATION 2019 , 2019, 303-306	10.5	1
42	RANKING AND CLASSIFICATION OF MONOTONIC EMPHYSEMA PATTERNS WITH A MULTI-CLASS HIERARCHICAL APPROACH 2014 , 2014, 1031-1034	1.5	1
41	AIRWAY LABELING USING A HIDDEN MARKOV TREE MODEL 2014 , 2014, 554-558	1.5	1
40	Pull-push level sets: a new term to encode prior knowledge for the segmentation of teeth images 2005 ,		1

39	Maximum likelihood contour estimation using beta-statistics in ultrasound images		1
38	Vascular remodeling of the small pulmonary arteries and measures of vascular pruning on computed tomography. <i>Pulmonary Circulation</i> , 2021 , 11, 20458940211061284	2.7	1
37	Longitudinal association between muscle loss and mortality in ever-smokers. <i>Chest</i> , 2021 ,	5.3	1
36	Bronchial Cartilage Assessment with Model-Based GAN Regressor. <i>Lecture Notes in Computer Science</i> , 2019 , 11769, 357-365	0.9	1
35	Abdominal Aortic Aneurysm Segmentation Using Convolutional Neural Networks Trained with Images Generated with a Synthetic Shape Model. <i>Lecture Notes in Computer Science</i> , 2019 , 11794, 167-174	0.9	1
34	Functional-Consistent CycleGAN for CT to Iodine Perfusion Map Translation. <i>Lecture Notes in Computer Science</i> , 2020 , 109-117	0.9	1
33	Hidden Markov Model for Quantifying Clinician Expertise in Flexible Instrument Manipulation. <i>Lecture Notes in Computer Science</i> , 2010 , 363-372	0.9	1
32	Statistical characterization of the linear attenuation coefficient in polychromatic CT scans. <i>Medical Physics</i> , 2020 , 47, 5568-5581	4.4	1
31	Ambient air pollution exposure and radiographic pulmonary vascular volumes. <i>Environmental Epidemiology</i> , 2021 , 5, e143	0.2	1
30	Relative Predictive Value of Circulating Immune Markers in US Adults Without Cardiovascular Disease: Implications for Risk Reclassification. <i>Mayo Clinic Proceedings</i> , 2021 , 96, 1812-1821	6.4	1
29	Using a spatial point process framework to characterize lung computed tomography scans. <i>Spatial Statistics</i> , 2019 , 29, 243-267	2.2	1
28	Estimated Ventricular Size, Asthma Severity, and Exacerbations: The Severe Asthma Research Program III Cohort. <i>Chest</i> , 2020 , 157, 258-267	5.3	1
27	Distinguishing Smoking-Related Lung Disease Phenotypes Via Imaging and Molecular Features. <i>Chest</i> , 2021 , 159, 549-563	5.3	1
26	A CT Scan Harmonization Technique to Detect Emphysema and Small Airway Diseases. <i>Lecture Notes in Computer Science</i> , 2018 , 11040, 180-190	0.9	1
25	Loss of Pulmonary Vascular Volume as a Predictor of Right Ventricular Dysfunction and Mortality in Acute Pulmonary Embolism. <i>Circulation: Cardiovascular Imaging</i> , 2021 , 14, e012347	3.9	1
24	Multimodality Guidance in Endoscopic and Laparoscopic Abdominal Procedures 2014 , 767-778		1
23	Artificial intelligence in functional imaging of the lung. <i>British Journal of Radiology</i> , 2021 , 20210527	3.4	1
22	An open-source framework for pulmonary fissure completeness assessment. <i>Computerized Medical Imaging and Graphics</i> , 2020 , 83, 101712	7.6	0

21	Artificial Intelligence in COPD: New Venues to Study a Complex Disease 2020 , 6, 144-160		o
20	Multi-cavity Heart Segmentation in Non-contrast Non-ECG Gated CT Scans with F-CNN. <i>Lecture Notes in Computer Science</i> , 2020 , 14-23	0.9	o
19	Emphysema Progression and Lung Function Decline Among Angiotensin Converting Enzyme Inhibitors and Angiotensin-Receptor Blockade Users in the COPD Gene Cohort. <i>Chest</i> , 2021 , 160, 1245-1254	5.3	o
18	Arterial vascular volume changes with haemodynamics in schistosomiasis-associated pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2021 , 57,	13.6	o
17	Study protocol for a national cohort of adults focused on respiratory health: the American Lung Association Lung Health Cohort (ALA-LHC) Study. <i>BMJ Open</i> , 2021 , 11, e053342	3	o
16	The Association Between Lung Hyperinflation and Coronary Artery Disease in Smokers. <i>Chest</i> , 2021 , 160, 858-871	5.3	o
15	REGRESSION OF THE NAVIER-STOKES EQUATION SOLUTIONS FOR PULMONARY AIRWAY FLOW USING NEURAL NETWORKS 2019 , 2019, 1229-1233	1.5	
14	LOCALIZING IMAGE-BASED BIOMARKER REGRESSION WITHOUT TRAINING MASKS: A NEW APPROACH TO BIOMARKER DISCOVERY 2019 , 2019, 679-682	1.5	
13	Preoperative pulmonary vascular morphology and its relationship to postpneumonectomy hemodynamics. <i>Academic Radiology</i> , 2014 , 21, 704-10	4.3	
12	Kalman filter technique applied to surface reconstruction and visualization from noisy volume data 2000 , 3982, 396		
11	MRI to CTA Translation for Pulmonary Artery Evaluation Using CycleGANs Trained with Unpaired Data. <i>Lecture Notes in Computer Science</i> , 2020 , 118-129	0.9	
10	Statistical Framework for the Definition of Emphysema in CT Scans: Beyond Density Mask. <i>Lecture Notes in Computer Science</i> , 2018 , 11071, 821-829	0.9	
9	Targeting Precision with Data Augmented Samples in Deep Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 11769, 284-292	0.9	
8	Chest Imaging for Precision Medicine. <i>Respiratory Medicine</i> , 2020 , 107-115	0.2	
7	Inferring Disease Status by Non-parametric Probabilistic Embedding. <i>Lecture Notes in Computer Science</i> , 2017 , 49-57	0.9	
6	Surgical Workflow Analysis, Design and Development of an Image-Based Navigation System for Endoscopic Interventions. <i>Lecture Notes in Computer Science</i> , 2014 , 91-98	0.9	
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