Eva M Van Rikxoort

List of Publications by Year
in descending order

61	4,195	147726	138417
papers	citations	31 h-index	58 g-index

63	63	63	4820
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison and Evaluation of Methods for Liver Segmentation From CT Datasets. IEEE Transactions on Medical Imaging, 2009, 28, 1251-1265.	5.4	848
2	Endobronchial Valves for Emphysema without Interlobar Collateral Ventilation. New England Journal of Medicine, 2015, 373, 2325-2335.	13.9	376
3	Automatic detection of subsolid pulmonary nodules in thoracic computed tomography images. Medical Image Analysis, 2014, 18, 374-384.	7.0	214
4	Automatic lung segmentation from thoracic computed tomography scans using a hybrid approach with error detection. Medical Physics, 2009, 36, 2934-2947.	1.6	191
5	Extraction of Airways From CT (EXACT'09). IEEE Transactions on Medical Imaging, 2012, 31, 2093-2107.	5.4	173
6	Observer Variability for Classification of Pulmonary Nodules on Low-Dose CT Images and Its Effect on Nodule Management. Radiology, 2015, 277, 863-871.	3.6	145
7	Adaptive local multi-atlas segmentation: Application to the heart and the caudate nucleus. Medical Image Analysis, 2010, 14, 39-49.	7.0	139
8	Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study. Medical Image Analysis, 2014, 18, 1217-1232.	7.0	131
9	Lung volume reduction coil treatment for patients with severe emphysema: a European multicentre trial. Thorax, 2014, 69, 980-986.	2.7	120
10	Automated Assessment of COVID-19 Reporting and Data System and Chest CT Severity Scores in Patients Suspected of Having COVID-19 Using Artificial Intelligence. Radiology, 2021, 298, E18-E28.	3.6	116
11	Automated segmentation of pulmonary structures in thoracic computed tomography scans: a review. Physics in Medicine and Biology, 2013, 58, R187-R220.	1.6	110
12	Computer-aided detection of pulmonary nodules: a comparative study using the public LIDC/IDRI database. European Radiology, 2016, 26, 2139-2147.	2.3	87
13	Predicting Lung Volume Reduction after Endobronchial Valve Therapy Is Maximized Using a Combination of Diagnostic Tools. Respiration, 2016, 92, 150-157.	1.2	85
14	Automatic Segmentation of the Pulmonary Lobes From Chest CT Scans Based on Fissures, Vessels, and Bronchi. IEEE Transactions on Medical Imaging, 2013, 32, 210-222.	5.4	84
15	Automatic Segmentation of Pulmonary Lobes Robust Against Incomplete Fissures. IEEE Transactions on Medical Imaging, 2010, 29, 1286-1296.	5.4	83
16	Improving airway segmentation in computed tomography using leak detection with convolutional networks. Medical Image Analysis, 2017, 36, 52-60.	7.0	78
17	Automatic Segmentation of Pulmonary Segments From Volumetric Chest CT Scans. IEEE Transactions on Medical Imaging, 2009, 28, 621-630.	5.4	75
18	Lung Volume Reduction Coil Treatment in Chronic Obstructive Pulmonary Disease Patients with Homogeneous Emphysema: A Prospective Feasibility Trial. Respiration, 2014, 88, 116-125.	1.2	74

#	Article	IF	Citations
19	Computed tomography-quantified emphysema distribution is associated with lung function decline. European Respiratory Journal, 2012, 40, 844-850.	3.1	70
20	Supervised Enhancement Filters: Application to Fissure Detection in Chest CT Scans. IEEE Transactions on Medical Imaging, 2008, 27, 1-10.	5.4	65
21	Diagnosis of chronic obstructive pulmonary disease in lung cancer screening Computed Tomography scans: independent contribution of emphysema, air trapping and bronchial wall thickening. Respiratory Research, 2013, 14, 59.	1.4	63
22	Normalizing computed tomography data reconstructed with different filter kernels: effect on emphysema quantification. European Radiology, 2016, 26, 478-486.	2.3	52
23	Five-year Progression of Emphysema and Air Trapping at CT in Smokers with and Those without Chronic Obstructive Pulmonary Disease: Results from the COPDGene Study. Radiology, 2020, 295, 218-226.	3.6	52
24	A method for the automatic quantification of the completeness of pulmonary fissures: evaluation in a database of subjects with severe emphysema. European Radiology, 2012, 22, 302-309.	2.3	50
25	Airway wall thickness associated with forced expiratory volume in 1 second decline and development of airflow limitation. European Respiratory Journal, 2015, 45, 644-651.	3.1	50
26	Airway wall thickening on CT: Relation to smoking status and severity of COPD. Respiratory Medicine, 2019, 146, 36-41.	1.3	47
27	Toward automatic regional analysis of pulmonary function using inspiration and expiration thoracic CT. Medical Physics, 2012, 39, 1650-1662.	1.6	43
28	Robust Segmentation and Anatomical Labeling of the Airway Tree from Thoracic CT Scans. Lecture Notes in Computer Science, 2008, 11, 219-226.	1.0	43
29	Solid, Part-Solid, or Non-Solid?. Investigative Radiology, 2015, 50, 168-173.	3.5	42
30	Contribution of CT Quantified Emphysema, Air Trapping and Airway Wall Thickness on Pulmonary Function in Male Smokers With and Without COPD. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2014, 11, 503-509.	0.7	39
31	Endobronchial valves for severe emphysema. European Respiratory Review, 2019, 28, 180121.	3.0	39
32	Lobar Emphysema Distribution Is Associated With 5-Year Radiological Disease Progression. Chest, 2018, 153, 65-76.	0.4	36
33	Minimal important difference of target lobar volume reduction after endobronchial valve treatment for emphysema. Respirology, 2018, 23, 306-310.	1.3	30
34	Parametric Response Mapping Adds Value to Current Computed Tomography Biomarkers in Diagnosing Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 1084-1086.	2.5	28
35	Discriminating dominant computed tomography phenotypes in smokers without or with mild COPD. Respiratory Medicine, 2014, 108, 136-143.	1.3	26
36	Safety and Immunogenicity of Adenovirus 35 Tuberculosis Vaccine Candidate in Adults with Active or Previous Tuberculosis. A Randomized Trial. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1171-1180.	2.5	26

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37	Reproducibility of volume and densitometric measures of emphysema on repeat computed tomography with an interval of 1Âweek. European Radiology, 2012, 22, 287-294.	2.3	25
38	Fleischner Society Visual Emphysema CT Patterns Help Predict Progression of Emphysema in Current and Former Smokers: Results from the COPDGene Study. Radiology, 2021, 298, 441-449.	3.6	23
39	Automated estimation of progression of interstitial lung disease in CT images. Medical Physics, 2010, 37, 63-73.	1.6	18
40	Disease Severity Dependence of the Longitudinal Association Between CT Lung Density and Lung Function in Smokers. Chest, 2018, 153, 638-645.	0.4	16
41	Interactive lung segmentation in CT scans with severe abnormalities. , 2010, , .		15
42	Smokers with emphysema and small airway disease on computed tomography have lower bone density. International Journal of COPD, 2016, 11, 1207.	0.9	15
43	Computed Tomography Structural Lung Changes in Discordant Airflow Limitation. PLoS ONE, 2013, 8, e65177.	1.1	14
44	Normalized emphysema scores on low dose CT: Validation as an imaging biomarker for mortality. PLoS ONE, 2017, 12, e0188902.	1.1	14
45	Automatic segmentation of the solid core and enclosed vessels in subsolid pulmonary nodules. Scientific Reports, 2018, 8, 646.	1.6	14
46	Automatic Segmentation of the Pulmonary Lobes from Fissures, Airways, and Lung Borders: Evaluation of Robustness against Missing Data. Lecture Notes in Computer Science, 2009, 12, 263-271.	1.0	14
47	Ensemble segmentation for GBM brain tumors on MR images using confidenceâ€based averaging. Medical Physics, 2013, 40, 093502.	1.6	12
48	Chartis Measurement of Collateral Ventilation: Conscious Sedation versus General Anesthesia â€“ A Retrospective Comparison. Respiration, 2018, 96, 480-487.	1.2	12
49	Pulmonary function and CT biomarkers as risk factors for cardiovascular events in male lung cancer screening participants: the NELSON study. European Radiology, 2015, 25, 65-71.	2.3	9
50	Follow-up of CT-derived airway wall thickness: Correcting for changes in inspiration level improves reliability. European Journal of Radiology, 2016, 85, 2008-2013.	1.2	8
51	Interactive lung segmentation in abnormal human and animal chest CT scans. Medical Physics, 2014, 41, 081915.	1.6	7
52	Progression of Emphysema and Small Airways Disease in Cigarette Smokers. Chronic Obstructive Pulmonary Diseases (Miami, Fla), 2021, 8, 198-212.	0.5	7
53	Plasma sRAGE levels strongly associate with centrilobular emphysema assessed by HRCT scans. Respiratory Research, 2022, 23, 15.	1.4	7
54	Interactive lung lobe segmentation and correction in tomographic images. Proceedings of SPIE, 2011, , .	0.8	6

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55	Bronchoscopic Lung Volume Reduction Treatment Using Endobronchial Valves for Emphysema: Emerging Questions. Respiration, 2018, 96, 588-589.	1.2	5
56	HRCT characteristics of severe emphysema patients: Interobserver variability among expert readers and comparison with quantitative software. European Journal of Radiology, 2021, 136, 109561.	1.2	5
57	Computer-aided detection of lung cancer: combining pulmonary nodule detection systems with a tumor risk prediction model. Proceedings of SPIE, 2015, , .	0.8	2
58	Air Trapping in Emphysema. American Journal of Respiratory and Critical Care Medicine, 2015, 192, e45-e45.	2.5	1
59	Quantifying Emphysema From Chest Computed Tomography Scans Using Integral Geometry Descriptors: Improved Performance Over Density Measures In Low Dose Scans. , 2011, , .		0
60	Automatic Fissural Integrity Quantification From Chest CT Predicts Lobar Atelectasis In Endobronchial Treatment. , 2011, , .		0
61	Pulmonary Fissure Integrity Assessment In Subjects With Severe Emphysema: Evaluation Of A Fully Automatic Method. , 2011, , .		0