

Eric A Hoffman

List of Publications by Year in Descending Order

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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.

558
papers

24,583
citations

82
h-index

137
g-index

615
ext. papers

29,345
ext. citations

6.5
avg, IF

6.66
L-index

#	Paper	IF	Citations
558	Elastic mucus strands impair mucociliary clearance in cystic fibrosis pigs.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2121731119	11.5	1
557	Quantitative Chest CT Assessment of Small Airways Disease in Post-Acute SARS-CoV-2 Infection.. <i>Radiology</i> , 2022 , 212170	20.5	5
556	Origins of and lessons from quantitative functional X-ray computed tomography of the lung.. <i>British Journal of Radiology</i> , 2022 , 20211364	3.4	1
555	PLOSL: Population learning followed by one shot learning pulmonary image registration using tissue volume preserving and vesselness constraints.. <i>Medical Image Analysis</i> , 2022 , 79, 102434	15.4	0
554	Ambient ozone effects on respiratory outcomes among smokers modified by neighborhood poverty: An analysis of SPIROMICS AIR.. <i>Science of the Total Environment</i> , 2022 , 829, 154694	10.2	1
553	Quantitative CT Characteristics of Cluster Phenotypes in the Severe Asthma Research Program Cohorts.. <i>Radiology</i> , 2022 , 210363	20.5	0
552	Reconsidering the Utility of Race-Specific Lung Function Prediction Equations.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 ,	10.2	3
551	The relationship of smoking to cg05575921 methylation in blood and saliva DNA samples from several studies. <i>Scientific Reports</i> , 2021 , 11, 21627	4.9	1
550	Identification of Sputum Biomarkers Predictive of Pulmonary Exacerbations in Chronic Obstructive Pulmonary Disease. <i>Chest</i> , 2021 ,	5.3	5
549	The Precision Interventions for Severe and/or Exacerbation-Prone (PreCISE) Asthma Network: an overview of Network organization, procedures and interventions. <i>Journal of Allergy and Clinical Immunology</i> , 2021 ,	11.5	3
548	A computational model of contributors to pulmonary hypertensive disease: impacts of whole lung and focal disease distributions. <i>Pulmonary Circulation</i> , 2021 , 11, 20458940211056527	2.7	0
547	Quantitative CT-Based Methods for Bone Microstructural Measures and Their Relationships With Vertebral Fractures in a Pilot Study on Smokers. <i>JBMR Plus</i> , 2021 , 5, e10484	3.9	1
546	Latent traits of lung tissue patterns in former smokers derived by dual channel deep learning in computed tomography images. <i>Scientific Reports</i> , 2021 , 11, 4916	4.9	2
545	Soluble receptor for advanced glycation end products (sRAGE) as a biomarker of COPD. <i>Respiratory Research</i> , 2021 , 22, 127	7.3	7
544	Disparities in access to food and chronic obstructive pulmonary disease (COPD)-related outcomes: a cross-sectional analysis. <i>BMC Pulmonary Medicine</i> , 2021 , 21, 139	3.5	0
543	The Reversion of DNA Methylation at Coronary Heart Disease Risk Loci in Response to Prevention Therapy. <i>Processes</i> , 2021 , 9, 699	2.9	2
542	Pulmonary Hypertension in Association with Lung Disease: Quantitative CT and Artificial Intelligence to the Rescue? State-of-the-Art Review. <i>Diagnostics</i> , 2021 , 11,	3.8	2

541	Pulmonary fibrosis 4 months after COVID-19 is associated with severity of illness and blood leucocyte telomere length. <i>Thorax</i> , 2021 , 76, 1242-1245	7.3	38
540	Associations of D-Dimer with Computed Tomographic Lung Abnormalities, Serum Biomarkers of Lung Injury, and Forced Vital Capacity: MESA Lung Study. <i>Annals of the American Thoracic Society</i> , 2021 , 18, 1839-1848	4.7	1
539	Genetic and non-genetic factors affecting the expression of COVID-19-relevant genes in the large airway epithelium. <i>Genome Medicine</i> , 2021 , 13, 66	14.4	6
538	Longitudinal Imaging-Based Clusters in Former Smokers of the COPD Cohort Associate with Clinical Characteristics: The SubPopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). <i>International Journal of COPD</i> , 2021 , 16, 1477-1496	3	1
537	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	0
536	Aortic enlargement in chronic obstructive pulmonary disease (COPD) and emphysema: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD study. <i>International Journal of Cardiology</i> , 2021 , 331, 214-220	3.2	4
535	Airway mucin MUC5AC and MUC5B concentrations and the initiation and progression of chronic obstructive pulmonary disease: an analysis of the SPIROMICS cohort. <i>Lancet Respiratory Medicine</i> , 2021 , 9, 1241-1254	35.1	20
534	Generation-based study of airway remodeling in smokers with normal-looking CT with normalization to control inter-subject variability. <i>European Journal of Radiology</i> , 2021 , 138, 109657	4.7	3
533	Regional Gas Transport During Conventional and Oscillatory Ventilation Assessed by Xenon-Enhanced Computed Tomography. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 2377-2388	4.7	3
532	PreciSE: Precision Medicine in Severe Asthma: An adaptive platform trial with biomarker ascertainment. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 147, 1594-1601	11.5	10
531	Radiomics side experiments and DAFIT approach in identifying pulmonary hypertension using Cardiac MRI derived radiomics based machine learning models. <i>Scientific Reports</i> , 2021 , 11, 12686	4.9	4
530	CT-derived 3D-diaphragm motion in emphysema and IPF compared to normal subjects. <i>Scientific Reports</i> , 2021 , 11, 14923	4.9	1
529	Regional Lung Perfusion Analysis in Experimental ARDS by Electrical Impedance and Computed Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 251-261	11.7	9
528	Contribution of Individual and Neighborhood Factors to Racial Disparities in Respiratory Outcomes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 203, 987-997	10.2	10
527	A CT-Based Automated Algorithm for Airway Segmentation Using Freeze-and-Grow Propagation and Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 405-418	11.7	7
526	Mucus Plugs and Emphysema in the Pathophysiology of Airflow Obstruction and Hypoxemia in Smokers. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 203, 957-968	10.2	13
525	Associations of β Fatty Acids With Interstitial Lung Disease and Lung Imaging Abnormalities Among Adults. <i>American Journal of Epidemiology</i> , 2021 , 190, 95-108	3.8	8
524	CT image segmentation for inflamed and fibrotic lungs using a multi-resolution convolutional neural network. <i>Scientific Reports</i> , 2021 , 11, 1455	4.9	11

523	Machine learning and in silico methods 2021 , 375-390		0
522	Polycythemia is Associated with Lower Incidence of Severe COPD Exacerbations in the SPIROMICS Study. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2021 , 8, 326-335	2.7	
521	Defining Resilience to Smoking-related Lung Disease: A Modified Delphi Approach from SPIROMICS. <i>Annals of the American Thoracic Society</i> , 2021 , 18, 1822-1831	4.7	0
520	Lung microbiota associations with clinical features of COPD in the SPIROMICS cohort. <i>Npj Biofilms and Microbiomes</i> , 2021 , 7, 14	8.2	9
519	Effects of Lung Injury on Regional Aeration and Expiratory Time Constants: Insights From Four-Dimensional Computed Tomography Image Registration. <i>Frontiers in Physiology</i> , 2021 , 12, 707119	4.6	2
518	Ratio of FEV/Slow Vital Capacity of Chest, 2021 , 160, 94-103	5.3	0
517	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
516	Adiposity and Interstitial Lung Abnormalities in Community-Dwelling Adults: The MESA Cohort Study. <i>Chest</i> , 2021 , 160, 582-594	5.3	4
515	Clinically Significant and Comorbid Anxiety and Depressive Symptoms Predict Severe Respiratory Exacerbations in Smokers: A Post-Hoc Analysis of the COPD Gene and SPIROMICS Cohorts. <i>Annals of the American Thoracic Society</i> , 2021 ,	4.7	1
514	Case Studies in Physiology: Temporal variations of the lung parenchyma and vasculature in asymptomatic COVID-19 pneumonia: a multispectral CT assessment. <i>Journal of Applied Physiology</i> , 2021 , 131, 454-463	3.7	2
513	The Association Between Lung Hyperinflation and Coronary Artery Disease in Smokers. <i>Chest</i> , 2021 , 160, 858-871	5.3	0
512	Quantitative CT metrics are associated with longitudinal lung function decline and future asthma exacerbations: Results from SARP-3. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 148, 752-762	11.5	7
511	Early Lung Disease Exhibits Bacteria-Dependent and -Independent Abnormalities in Cystic Fibrosis Pigs. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 204, 692-702	10.2	2
510	Associations of sleep duration and sleep-wake rhythm with lung parenchymal abnormalities on computed tomography: The MESA study. <i>Journal of Sleep Research</i> , 2021 , e13475	5.8	0
509	QIBA guidance: Computed tomography imaging for COVID-19 quantitative imaging applications. <i>Clinical Imaging</i> , 2021 , 77, 151-157	2.7	5
508	Racial Segregation and Respiratory Outcomes among Urban Black Residents with and at Risk of Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021 , 204, 536-545	10.2	4
507	Quantitative CT imaging and advanced visualization methods: potential application in novel coronavirus disease 2019 (COVID-19) pneumonia. <i>BJR/Open</i> , 2021 , 3, 20200043	1.4	9
506	Novel Subtypes of Pulmonary Emphysema Based on Spatially-Informed Lung Texture Learning: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3652-3662	11.7	1

505	Menstrual cycle impacts lung structure measures derived from quantitative computed tomography.. <i>European Radiology</i> , 2021 , 1	8	0
504	Quantitative CT-based structural alterations of segmental airways in cement dust-exposed subjects. <i>Respiratory Research</i> , 2020 , 21, 133	7.3	6
503	Association of Dysanapsis With Chronic Obstructive Pulmonary Disease Among Older Adults. <i>JAMA - Journal of the American Medical Association</i> , 2020 , 323, 2268-2280	27.4	34
502	Quantifying Regional Lung Deformation Using Four-Dimensional Computed Tomography: A Comparison of Conventional and Oscillatory Ventilation. <i>Frontiers in Physiology</i> , 2020 , 11, 14	4.6	4
501	Relative Regional Air Volume Change Maps at the Acinar Scale Reflect Variable Ventilation in Low Lung Attenuation of COPD patients. <i>Academic Radiology</i> , 2020 , 27, 1540-1548	4.3	5
500	Reference values for high attenuation areas on chest CT in a healthy, never-smoker, multi-ethnic sample: The MESA study. <i>Respirology</i> , 2020 , 25, 855-862	3.6	6
499	Associations Among 25-Hydroxyvitamin D Levels, Lung Function, and Exacerbation Outcomes in COPD: An Analysis of the SPIROMICS Cohort. <i>Chest</i> , 2020 , 157, 856-865	5.3	14
498	Antinuclear antibodies and subclinical interstitial lung disease in community-dwelling adults: the MESA study. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	
497	Transport and deposition of hygroscopic particles in asthmatic subjects with and without airway narrowing. <i>Journal of Aerosol Science</i> , 2020 , 146, 105581	4.3	7
496	Five-year Progression of Emphysema and Air Trapping at CT in Smokers with and Those without Chronic Obstructive Pulmonary Disease: Results from the COPD Gene Study. <i>Radiology</i> , 2020 , 295, 218-226	20.5	24
495	Biomarkers Predictive of Exacerbations in the SPIROMICS and COPD Gene Cohorts. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, 473-481	10.2	1
494	2020,		1
493	Lack of airway submucosal glands impairs respiratory host defenses. <i>ELife</i> , 2020 , 9,	8.9	13
492	Cluster-Guided Multiscale Lung Modeling via Machine Learning 2020 , 2699-2718		
491	Registration-Invariant Biomechanical Features for Disease Staging of COPD in SPIROMICS. <i>Lecture Notes in Computer Science</i> , 2020 , 143-154	0.9	0
490	Clinical Phenotypes of Atopy and Asthma in COPD: A Meta-analysis of SPIROMICS and COPD Gene. <i>Chest</i> , 2020 , 158, 2333-2345	5.3	8
489	Associations of Serum Adipokines With Subclinical Interstitial Lung Disease Among Community-Dwelling Adults: The Multi-Ethnic Study of Atherosclerosis (MESA). <i>Chest</i> , 2020 , 157, 580-589	5.3	9
488	The Effects of Rare Variants on Lung Function and Emphysema in SPIROMICS. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, 540-554	10.2	17

487	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
486	Machine Learning Characterization of COPD Subtypes: Insights From the COPDGene Study. <i>Chest</i> , 2020 , 157, 1147-1157	5.3	18
485	Association of Long-term Ambient Ozone Exposure With Respiratory Morbidity in Smokers. <i>JAMA Internal Medicine</i> , 2020 , 180, 106-115	11.5	24
484	Quantitative CT-based image registration metrics provide different ventilation and lung motion patterns in prone and supine positions in healthy subjects. <i>Respiratory Research</i> , 2020 , 21, 254	7.3	1
483	Lung function of primary cooks using LPG or biomass and the effect of particulate matter on airway epithelial barrier integrity. <i>Environmental Research</i> , 2020 , 189, 109888	7.9	2
482	Imaging of COVID-19 pneumonia: Patterns, pathogenesis, and advances. <i>British Journal of Radiology</i> , 2020 , 93, 20200538	3.4	18
481	Regional distribution of high-attenuation areas on chest computed tomography in the Multi-Ethnic Study of Atherosclerosis. <i>ERJ Open Research</i> , 2020 , 6,	3.5	3
480	Lung-Specific Risk Factors Associated With Incident Hip Fracture in Current and Former Smokers. <i>Journal of Bone and Mineral Research</i> , 2020 , 35, 1952-1961	6.3	2
479	Dysanapsis and COPD-Reply. <i>JAMA - Journal of the American Medical Association</i> , 2020 , 324, 1572	27.4	
478	Lung and fissure shape is associated with age in healthy never-smoking adults aged 20-90 years. <i>Scientific Reports</i> , 2020 , 10, 16135	4.9	4
477	Novel Respiratory Disability Score Predicts COPD Exacerbations and Mortality in the SPIROMICS Cohort. <i>International Journal of COPD</i> , 2020 , 15, 1887-1898	3	1
476	An integrated 1D breathing lung simulation with relative hysteresis of airway structure and regional pressure for healthy and asthmatic human lungs. <i>Journal of Applied Physiology</i> , 2020 , 129, 732-747	2.7	4
475	The Reversion of cg05575921 Methylation in Smoking Cessation: A Potential Tool for Incentivizing Healthy Aging. <i>Genes</i> , 2020 , 11,	4.2	4
474	Estimated Ventricular Size, Asthma Severity, and Exacerbations: The Severe Asthma Research Program III Cohort. <i>Chest</i> , 2020 , 157, 258-267	5.3	1
473	CT Super-Resolution GAN Constrained by the Identical, Residual, and Cycle Learning Ensemble (GAN-CIRCLE). <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 188-203	11.7	140
472	Aspirin Use and Respiratory Morbidity in COPD: A Propensity Score-Matched Analysis in Subpopulations and Intermediate Outcome Measures in COPD Study. <i>Chest</i> , 2019 , 155, 519-527	5.3	11
471	Ambient air pollution and pulmonary vascular volume on computed tomography: the MESA Air Pollution and Lung cohort studies. <i>European Respiratory Journal</i> , 2019 , 53,	13.6	9
470	1D network simulations for evaluating regional flow and pressure distributions in healthy and asthmatic human lungs. <i>Journal of Applied Physiology</i> , 2019 , 127, 122-133	3.7	14

469	Machine learning approach for distinguishing malignant and benign lung nodules utilizing standardized perinodular parenchymal features from CT. <i>Medical Physics</i> , 2019 , 46, 3207-3216	4.4	35
468	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
467	Differences in Particle Deposition Between Members of Imaging-Based Asthma Clusters. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2019 , 32, 213-223	3.8	13
466	Combined Forced Expiratory Volume in 1 Second and Forced Vital Capacity Bronchodilator Response, Exacerbations, and Mortality in Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2019 , 16, 826-835	4.7	18
465	A Genetic Risk Score Associated with Chronic Obstructive Pulmonary Disease Susceptibility and Lung Structure on Computed Tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 200, 721-731	10.2	22
464	Reprint of: Voxel-Wise Longitudinal Parametric Response Mapping Analysis of Chest Computed Tomography in Smokers. <i>Academic Radiology</i> , 2019 , 26, 306-312	4.3	8
463	Voxel-Wise Longitudinal Parametric Response Mapping Analysis of Chest Computed Tomography in Smokers. <i>Academic Radiology</i> , 2019 , 26, 217-223	4.3	29
462	Association Between Long-term Exposure to Ambient Air Pollution and Change in Quantitatively Assessed Emphysema and Lung Function. <i>JAMA - Journal of the American Medical Association</i> , 2019 , 322, 546-556	27.4	130
461	Imaging-based clusters in former smokers of the COPD cohort associate with clinical characteristics: the SubPopulations and intermediate outcome measures in COPD study (SPIROMICS). <i>Respiratory Research</i> , 2019 , 20, 153	7.3	12
460	Reproducibility and Changes in Vena Caval Blood Flow by Using 4D Flow MRI in Pulmonary Emphysema and Chronic Obstructive Pulmonary Disease (COPD): The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Substudy. <i>Radiology</i> , 2019 , 292, 585-594	20.5	9
459	Radiographic lung volumes predict progression to COPD in smokers with preserved spirometry in SPIROMICS. <i>European Respiratory Journal</i> , 2019 , 54,	13.6	13
458	Do pulmonary cavity shapes influence lung function?. <i>Journal of Biomechanical Engineering</i> , 2019 ,	2.1	3
457	A fully automated CT-based airway segmentation algorithm using deep learning and topological leakage detection and branch augmentation approaches 2019 ,		2
456	Mucus strands from submucosal glands initiate mucociliary transport of large particles. <i>JCI Insight</i> , 2019 , 4,	9.9	19
455	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
454	Structural and Functional Features on Quantitative Chest Computed Tomography in the Korean Asian versus the White American Healthy Non-Smokers. <i>Korean Journal of Radiology</i> , 2019 , 20, 1236-1245	6.9	8
453	Pulmonary lobar segmentation from computed tomography scans based on a statistical finite element analysis of lobe shape 2019 ,		2
452	The matrikine acetyl-proline-glycine-proline and clinical features of COPD: findings from SPIROMICS. <i>Respiratory Research</i> , 2019 , 20, 254	7.3	4

451	Effect of Reconstruction Parameters on the Quantitative Analysis of Chest Computed Tomography. <i>Journal of Thoracic Imaging</i> , 2019 , 34, 92-102	5.6	9
450	Clinical Significance of Bronchodilator Responsiveness Evaluated by Forced Vital Capacity in COPD: SPIROMICS Cohort Analysis. <i>International Journal of COPD</i> , 2019 , 14, 2927-2938	3	3
449	Alignment of Inhaled Chronic Obstructive Pulmonary Disease Therapies with Published Strategies. Analysis of the Global Initiative for Chronic Obstructive Lung Disease Recommendations in SPIROMICS. <i>Annals of the American Thoracic Society</i> , 2019 , 16, 200-208	4.7	19
448	Ultrasound measurement of knee synovial fluid during external pneumatic compression. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 601-608	3.8	3
447	Safety and Tolerability of Comprehensive Research Bronchoscopy in Chronic Obstructive Pulmonary Disease. Results from the SPIROMICS Bronchoscopy Substudy. <i>Annals of the American Thoracic Society</i> , 2019 , 16, 439-446	4.7	8
446	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
445	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
444	Aerosol deposition predictions in computed tomography-derived skeletons from severe asthmatics: A feasibility study. <i>Clinical Biomechanics</i> , 2019 , 66, 81-87	2.2	6
443	Association between Emphysema and Chronic Obstructive Pulmonary Disease Outcomes in the COPDGene and SPIROMICS Cohorts: A Post Hoc Analysis of Two Clinical Trials. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 265-267	10.2	15
442	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
441	Lumen area change (Delta Lumen) between inspiratory and expiratory multidetector computed tomography as a measure of severe outcomes in asthmatic patients. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 142, 1773-1780.e9	11.5	11
440	Dependence of subject-specific parameters for a fast helical CT respiratory motion model on breathing rate: an animal study. <i>Physics in Medicine and Biology</i> , 2018 , 63, 04NT04	3.8	
439	Human airway branch variation and chronic obstructive pulmonary disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E974-E981	11.5	53
438	At the Root: Defining and Halting Progression of Early Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 1540-1551	10.2	94
437	A Longitudinal Cohort Study of Aspirin Use and Progression of Emphysema-like Lung Characteristics on CT Imaging: The MESA Lung Study. <i>Chest</i> , 2018 , 154, 41-50	5.3	16
436	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
435	Infection Is Not Required for Mucoinflammatory Lung Disease in CFTR-Knockout Ferrets. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 1308-1318	10.2	73
434	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

433	Rural Residence and Chronic Obstructive Pulmonary Disease Exacerbations. Analysis of the SPIROMICS Cohort. <i>Annals of the American Thoracic Society</i> , 2018 , 15, 808-816	4.7	16
432	Prognostic Significance of Large Airway Dimensions on Computed Tomography in the General Population. The Multi-Ethnic Study of Atherosclerosis (MESA) Lung Study. <i>Annals of the American Thoracic Society</i> , 2018 , 15, 718-727	4.7	14
431	Pulmonary artery stiffness in chronic obstructive pulmonary disease (COPD) and emphysema: The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 262-271	5.6	5
430	Associations between emphysema-like lung on CT and incident airflow limitation: a general population-based cohort study. <i>Thorax</i> , 2018 , 73, 486-488	7.3	11
429	Quantitative imaging of peripheral trabecular bone microarchitecture using MDCT. <i>Medical Physics</i> , 2018 , 45, 236-249	4.4	23
428	Alveolar eosinophilia in current smokers with chronic obstructive pulmonary disease in the SPIROMICS cohort. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 141, 429-432	11.5	5
427	Lobar Emphysema Distribution Is Associated With 5-Year Radiological Disease Progression. <i>Chest</i> , 2018 , 153, 65-76	5.3	23
426	Recent Advances in Computed Tomography Imaging in Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2018 , 15, 281-289	4.7	24
425	Metrics of lung tissue heterogeneity depend on BMI but not age. <i>Journal of Applied Physiology</i> , 2018 , 125, 328-339	3.7	5
424	Genome-wide association study of lung function and clinical implication in heavy smokers. <i>BMC Medical Genetics</i> , 2018 , 19, 134	2.1	19
423	Mucin Concentrations and Peripheral Airway Obstruction in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 1453-1456	10.2	9
422	Anemia and Adverse Outcomes in a Chronic Obstructive Pulmonary Disease Population with a High Burden of Comorbidities. An Analysis from SPIROMICS. <i>Annals of the American Thoracic Society</i> , 2018 , 15, 710-717	4.7	16
421	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	10.2	59
420	NT-proBNP in stable COPD and future exacerbation risk: Analysis of the SPIROMICS cohort. <i>Respiratory Medicine</i> , 2018 , 140, 87-93	4.6	9
419	Airway fractal dimension predicts respiratory morbidity and mortality in COPD. <i>Journal of Clinical Investigation</i> , 2018 , 128, 5374-5382	15.9	19
418	Mucus plugs in patients with asthma linked to eosinophilia and airflow obstruction. <i>Journal of Clinical Investigation</i> , 2018 , 128, 997-1009	15.9	176
417	Path-Gradient A Theory of Computing Full Intensity-Transition Between Two Points. <i>Lecture Notes in Computer Science</i> , 2018 , 399-407	0.9	
416	Topological leakage detection and freeze-and-grow propagation for improved CT-based airway segmentation 2018 ,		3

415	A GPU-based symmetric non-rigid image registration method in human lung. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 355-371	3.1	12
414	Marijuana Use Associations with Pulmonary Symptoms and Function in Tobacco Smokers Enrolled in the Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2018 , 5, 46-56	2.7	13
413	An automated airway segmentation algorithm for CT images using topological leakage detection and volume freezing 2018 ,		3
412	Heterogeneous burden of lung disease in smokers with borderline airflow obstruction. <i>Respiratory Research</i> , 2018 , 19, 223	7.3	11
411	Imaging-based clusters in current smokers of the COPD cohort associate with clinical characteristics: the SubPopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). <i>Respiratory Research</i> , 2018 , 19, 178	7.3	12
410	CT-Measured Lung Air-Trapping is Associated with Higher Carotid Artery Stiffness in Individuals with Chronic Obstructive Pulmonary Disease. <i>Journal of Applied Physiology</i> , 2018 ,	3.7	2
409	Occupational Exposures and Computed Tomographic Imaging Characteristics in the SPIROMICS Cohort. <i>Annals of the American Thoracic Society</i> , 2018 , 15, 1411-1419	4.7	13
408	Cluster-Guided Multiscale Lung Modeling via Machine Learning 2018 , 1-20		2
407	Impact of advanced detector technology and iterative reconstruction on low-dose quantitative assessment of lung computed tomography density in a biological lung model. <i>Medical Physics</i> , 2018 , 45, 3657	4.4	7
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1 Pulmonary Fibrosis after COVID-19 is Associated with Severity of Illness and Blood Leukocyte Telomere Length