

David J Couper

List of Publications by Year in descending order

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87
papers

4,806
citations

136950

32
h-index

102487

66
g-index

89
all docs

89
docs citations

89
times ranked

7701
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Significance of Symptoms in Smokers with Preserved Pulmonary Function. <i>New England Journal of Medicine</i> , 2016, 374, 1811-1821.	27.0	526
2	Diabetes in Midlife and Cognitive Change Over 20 Years. <i>Annals of Internal Medicine</i> , 2014, 161, 785.	3.9	325
3	Design of the Subpopulations and Intermediate Outcomes in COPD Study (SPIROMICS): Table 1. <i>Thorax</i> , 2014, 69, 492-495.	5.6	277
4	Coronary heart disease risk prediction in the Atherosclerosis Risk in Communities (ARIC) study. <i>Journal of Clinical Epidemiology</i> , 2003, 56, 880-890.	5.0	276
5	Genetic evidence of assortative mating in humans. <i>Nature Human Behaviour</i> , 2017, 1, .	12.0	242
6	Frequency of exacerbations in patients with chronic obstructive pulmonary disease: an analysis of the SPIROMICS cohort. <i>Lancet Respiratory Medicine</i> , 2017, 5, 619-626.	10.7	219
7	Association of sputum and blood eosinophil concentrations with clinical measures of COPD severity: an analysis of the SPIROMICS cohort. <i>Lancet Respiratory Medicine</i> , 2017, 5, 956-967.	10.7	211
8	SPIROMICS Protocol for Multicenter Quantitative Computed Tomography to Phenotype the Lungs. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 794-806.	5.6	180
9	B-type natriuretic peptide and C-reactive protein in the prediction of atrial fibrillation risk: the CHARGE-AF Consortium of community-based cohort studies. <i>Europace</i> , 2014, 16, 1426-1433.	1.7	144
10	Discriminative Accuracy of FEV ₁ :FVC Thresholds for COPD-Related Hospitalization and Mortality. <i>JAMA - Journal of the American Medical Association</i> , 2019, 321, 2438.	7.4	135
11	Comparison of spatially matched airways reveals thinner airway walls in COPD. The Multi-Ethnic Study of Atherosclerosis (MESA) COPD Study and the Subpopulations and Intermediate Outcomes in COPD Study (SPIROMICS). <i>Thorax</i> , 2014, 69, 987-996.	5.6	114
12	Association of Dysanapsis With Chronic Obstructive Pulmonary Disease Among Older Adults. <i>JAMA - Journal of the American Medical Association</i> , 2020, 323, 2268.	7.4	104
13	Impact of Differential Attrition on the Association of Education With Cognitive Change Over 20 Years of Follow-up: The ARIC Neurocognitive Study. <i>American Journal of Epidemiology</i> , 2014, 179, 956-966.	3.4	102
14	Results from the Atherosclerosis Risk in Communities study suggest that low serum magnesium is associated with incident kidney disease. <i>Kidney International</i> , 2015, 87, 820-827.	5.2	96
15	Lung function decline in former smokers and low-intensity current smokers: a secondary data analysis of the NHLBI Pooled Cohorts Study. <i>Lancet Respiratory Medicine</i> , 2020, 8, 34-44.	10.7	96
16	Common Genetic Polymorphisms Influence Blood Biomarker Measurements in COPD. <i>PLoS Genetics</i> , 2016, 12, e1006011.	3.5	88
17	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.	7.1	80
18	Hearing treatment for reducing cognitive decline: Design and methods of the Aging and Cognitive Health Evaluation in Elders randomized controlled trial. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2018, 4, 499-507.	3.7	75

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19	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.	5.6	71
20	Reconsidering the Utility of Race-Specific Lung Function Prediction Equations. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 819-829.	5.6	63
21	Reproducibility and Variability of Protein Analytes Measured Using a Multiplexed Modified Aptamer Assay. <i>Journal of Applied Laboratory Medicine</i> , 2019, 4, 30-39.	1.3	61
22	Trans-ethnic Meta-analysis and Functional Annotation Illuminates the Genetic Architecture of Fasting Glucose and Insulin. <i>American Journal of Human Genetics</i> , 2016, 99, 56-75.	6.2	55
23	Meta-analysis of loci associated with age at natural menopause in African-American women. <i>Human Molecular Genetics</i> , 2014, 23, 3327-3342.	2.9	54
24	Comparison of serum, EDTA plasma and P100 plasma for luminex-based biomarker multiplex assays in patients with chronic obstructive pulmonary disease in the SPIROMICS study. <i>Journal of Translational Medicine</i> , 2014, 12, 9.	4.4	46
25	Harmonization of Respiratory Data From 9 US Population-Based Cohorts. <i>American Journal of Epidemiology</i> , 2018, 187, 2265-2278.	3.4	46
26	Design of a multi-center immunophenotyping analysis of peripheral blood, sputum and bronchoalveolar lavage fluid in the Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS). <i>Journal of Translational Medicine</i> , 2015, 13, 19.	4.4	41
27	Age-Related Differences in Health-Related Quality of Life in COPD. <i>Chest</i> , 2016, 149, 927-935.	0.8	41
28	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.	5.6	40
29	The Effects of Rare <i>SERPINA1</i> Variants on Lung Function and Emphysema in SPIROMICS. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 540-554.	5.6	38
30	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.	5.6	38
31	Longitudinal Patterns of Change in Systolic Blood Pressure and Incidence of Cardiovascular Disease. <i>Hypertension</i> , 2016, 67, 1150-1156.	2.7	37
32	Associations Among 25-Hydroxyvitamin D Levels, Lung Function, and Exacerbation Outcomes in COPD. <i>Chest</i> , 2020, 157, 856-865.	0.8	35
33	The Periodontitis and Vascular Events (PAVE) Pilot Study: Recruitment, Retention, and Community Care Controls. <i>Journal of Periodontology</i> , 2008, 79, 80-89.	3.4	34
34	Association of Nonobstructive Chronic Bronchitis With Respiratory Health Outcomes in Adults. <i>JAMA Internal Medicine</i> , 2020, 180, 676.	5.1	33
35	Lung microbiota associations with clinical features of COPD in the SPIROMICS cohort. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 14.	6.4	33
36	Enhancing the Infrastructure of the Atherosclerosis Risk in Communities (ARIC) Study for Cancer Epidemiology Research: ARIC Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018, 27, 295-305.	2.5	32

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37	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.	3.2	32
38	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.	3.2	32
39	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.	3.2	31
40	Respiratory Symptoms Items from the COPD Assessment Test Identify Ever-Smokers with Preserved Lung Function at Higher Risk for Poor Respiratory Outcomes. An Analysis of the Subpopulations and Intermediate Outcome Measures in COPD Study Cohort. <i>Annals of the American Thoracic Society</i> , 2017, 14, 636-642.	3.2	30
41	Differentiation of quantitative CT imaging phenotypes in asthma versus COPD. <i>BMJ Open Respiratory Research</i> , 2017, 4, e000252.	3.0	30
42	Radiographic lung volumes predict progression to COPD in smokers with preserved spirometry in SPIROMICS. <i>European Respiratory Journal</i> , 2019, 54, 1802214.	6.7	29
43	Milk Intake at Midlife and Cognitive Decline over 20 Years. The Atherosclerosis Risk in Communities (ARIC) Study. <i>Nutrients</i> , 2017, 9, 1134.	4.1	28
44	Genome-wide association study of lung function and clinical implication in heavy smokers. <i>BMC Medical Genetics</i> , 2018, 19, 134.	2.1	28
45	Soluble receptor for advanced glycation end products (sRAGE) as a biomarker of COPD. <i>Respiratory Research</i> , 2021, 22, 127.	3.6	26
46	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.	3.6	25
47	Aspirin Use and Respiratory Morbidity in COPD. <i>Chest</i> , 2019, 155, 519-527.	0.8	25
48	Lung function decline over 25 years of follow-up among black and white adults in the ARIC study cohort. <i>Respiratory Medicine</i> , 2016, 113, 57-64.	2.9	23
49	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.	8.2	21
50	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.	3.6	20
51	Variability in objective and subjective measures affects baseline values in studies of patients with COPD. <i>PLoS ONE</i> , 2017, 12, e0184606.	2.5	20
52	Identification of Sputum Biomarkers Predictive of Pulmonary Exacerbations in COPD. <i>Chest</i> , 2022, 161, 1239-1249.	0.8	20
53	NT-proBNP in stable COPD and future exacerbation risk: Analysis of the SPIROMICS cohort. <i>Respiratory Medicine</i> , 2018, 140, 87-93.	2.9	18
54	The Association of Biomarkers of Inflammation and Extracellular Matrix Degradation With the Risk of Abdominal Aortic Aneurysm: The ARIC Study. <i>Angiology</i> , 2019, 70, 130-140.	1.8	18

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55	Systemic Markers of Inflammation in Smokers With Symptoms Despite Preserved Spirometry in SPIROMICS. <i>Chest</i> , 2019, 155, 908-917.	0.8	18
56	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.	3.2	18
57	Clinical Significance of Bronchodilator Responsiveness Evaluated by Forced Vital Capacity in COPD: SPIROMICS Cohort Analysis. <i>International Journal of COPD</i> , 2019, Volume 14, 2927-2938.	2.3	16
58	Biomarkers and degree of atherosclerosis are independently associated with incident atherosclerotic cardiovascular disease in a primary prevention cohort: The ARIC study. <i>Atherosclerosis</i> , 2016, 253, 156-163.	0.8	15
59	Association of plasma mitochondrial DNA with COPD severity and progression in the SPIROMICS cohort. <i>Respiratory Research</i> , 2021, 22, 126.	3.6	14
60	Synergistic and Non-synergistic Associations for Cigarette Smoking and Non-tobacco Risk Factors for Cardiovascular Disease Incidence in the Atherosclerosis Risk In Communities (ARIC) Study. <i>Nicotine and Tobacco Research</i> , 2016, 19, ntw235.	2.6	13
61	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.	2.9	12
62	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.	3.3	12
63	Lung function impairment and risk of incident heart failure: the NHLBI Pooled Cohorts Study. <i>European Heart Journal</i> , 2022, 43, 2196-2208.	2.2	12
64	Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Study: Study Design. <i>American Journal of Epidemiology</i> , 2022, 191, 1153-1173.	3.4	11
65	Prospective study of lung function and abdominal aortic aneurysm risk: The Atherosclerosis Risk in Communities study. <i>Atherosclerosis</i> , 2018, 268, 225-230.	0.8	10
66	Association of monocyte myeloperoxidase with incident cardiovascular disease: The Atherosclerosis Risk in Communities Study. <i>PLoS ONE</i> , 2018, 13, e0205310.	2.5	10
67	A general framework for integrative analysis of incomplete multiomics data. <i>Genetic Epidemiology</i> , 2020, 44, 646-664.	1.3	9
68	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.	8.0	9
69	The matrikine acetyl-proline-glycine-proline and clinical features of COPD: findings from SPIROMICS. <i>Respiratory Research</i> , 2019, 20, 254.	3.6	8
70	The influence of social support on COPD outcomes mediated by depression. <i>PLoS ONE</i> , 2021, 16, e0245478.	2.5	8
71	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, Volume 16, 1477-1496.	2.3	8
72	Ratio of FEV1/Slow Vital Capacity of 0.7 Is Associated With Clinical, Functional, and Radiologic Features of Obstructive Lung Disease in Smokers With Preserved Lung Function. <i>Chest</i> , 2021, 160, 94-103.	0.8	8

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73	Comparative Impact of Depressive Symptoms and FEV ₁ % on Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2022, 19, 171-178.	3.2	7
74	A controlled statistical study to assess measurement variability as a function of test object position and configuration for automated surveillance in a multicenter longitudinal COPD study (SPIROMICS). <i>Medical Physics</i> , 2016, 43, 2598-2610.	3.0	6
75	Longitudinal Associations Between Body Mass Index During Young Adulthood, Subsequent Weight Change, and Incident Diabetes During Mid- and Older-Adulthood in Non-Hispanic White and African American Populations: The Atherosclerosis Risk in Communities Study. <i>Metabolic Syndrome and Related Disorders</i> . 2020, 18, 313-320.	1.3	6
76	Lipid-Lowering Drug Use and Cancer Incidence and Mortality in the ARIC Study. <i>JNCI Cancer Spectrum</i> , 2021, 5, pkab080.	2.9	6
77	Significance of FEV ₃ /FEV ₆ in Recognition of Early Airway Disease in Smokers at Risk of Development of COPD. <i>Chest</i> , 2022, 161, 949-959.	0.8	6
78	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.	2.0	5
79	Plasma Cathelicidin is Independently Associated with Reduced Lung Function in COPD: Analysis of the Subpopulations and Intermediate Outcome Measures in COPD Study Cohort. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2020, 7, 370-381.	0.7	5
80	Gumbel regression models for a monotone increasing continuous biomarker subject to measurement error. <i>Journal of Statistical Planning and Inference</i> , 2019, 203, 160-168.	0.6	4
81	<p>Novel Respiratory Disability Score Predicts COPD Exacerbations and Mortality in the Spiromics Cohort</p>. <i>International Journal of COPD</i> , 2020, Volume 15, 1887-1898.	2.3	2
82	Academic chartered data safety committees versus industry sponsored data safety committees: The need for different recommendations. <i>Clinical Trials</i> , 2018, 15, 212-213.	1.6	1
83	Age-Dependent Associations Between 25-Hydroxy Vitamin D Levels and COPD Symptoms: Analysis of SPIROMICS. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2021, 8, 277-291.	0.7	1
84	Biomarkers Predictive of Exacerbations in the SPIROMICS and COPDGene Cohorts. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 473-481.	5.6	1
85	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.	0.7	0
86	Abstract 10804: Incidence and Prognostic Significance of Silent Versus Clinically Manifest Myocardial Infarction in the Atherosclerosis Risk in Communities (ARIC) Study. <i>Circulation</i> , 2015, 132, .	1.6	0
87	Abstract 18914: Comparison of Statin Eligibility Using the Pooled Cohort Equations, ATP-III Framingham and Reynolds Risk Scores Among Adults Who Experienced ASCVD Events: The Atherosclerosis Risk in Communities Study. <i>Circulation</i> , 2015, 132, .	1.6	0