

# David G McCormack

## List of Publications by Year in descending order

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91  
papers

5,516  
citations

94433

37  
h-index

79698

73  
g-index

91  
all docs

91  
docs citations

91  
times ranked

3581  
citing authors

#	ARTICLE	IF	CITATIONS
1	CT Pulmonary Vessels and MRI Ventilation in Chronic Obstructive Pulmonary Disease: Relationship with worsening FEV1 in the TINCan cohort study. <i>Academic Radiology</i> , 2021, 28, 495-506.	2.5	9
2	Ultra-short echo-time magnetic resonance imaging lung segmentation with under-Annotations and domain shift. <i>Medical Image Analysis</i> , 2021, 72, 102107.	11.6	4
3	Accelerated <sup>129</sup> Xe MRI morphometry of terminal airspace enlargement: Feasibility in volunteers and those with alpha $\alpha$ 1 antitrypsin deficiency. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 416-426.	3.0	8
4	Is Computed Tomography Airway Count Related to Asthma Severity and Airway Structure and Function?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 923-933.	5.6	46
5	Pulmonary Imaging Phenotypes of Chronic Obstructive Pulmonary Disease Using Multiparametric Response Maps. <i>Radiology</i> , 2020, 295, 227-236.	7.3	20
6	FEV <sub>1</sub> and MRI ventilation defect reversibility in asthma and COPD. <i>European Respiratory Journal</i> , 2020, 55, 1901947.	6.7	6
7	Reproducibility of Hyperpolarized <sup>129</sup> Xe MRI Ventilation Defect Percent in Severe Asthma to Evaluate Clinical Trial Feasibility. <i>Academic Radiology</i> , 2020, 28, 817-826.	2.5	21
8	Hyperpolarized Helium 3 MRI in Mild-to-Moderate Asthma: Prediction of Postbronchodilator Reversibility. <i>Radiology</i> , 2019, 293, 212-220.	7.3	23
9	Chronic Obstructive Pulmonary Disease: Thoracic CT Texture Analysis and Machine Learning to Predict Pulmonary Ventilation. <i>Radiology</i> , 2019, 293, 676-684.	7.3	26
10	Nonidentical Twins With Asthma. <i>Chest</i> , 2019, 156, e111-e116.	0.8	6
11	Advanced pulmonary MRI to quantify alveolar and acinar duct abnormalities: Current status and future clinical applications. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 28-40.	3.4	6
12	A framework for Fourier decomposition free-breathing pulmonary <sup>1</sup> H MRI ventilation measurements. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2135-2146.	3.0	12
13	Free-breathing Pulmonary MR Imaging to Quantify Regional Ventilation. <i>Radiology</i> , 2018, 287, 693-704.	7.3	32
14	What is the minimal clinically important difference for helium-3 magnetic resonance imaging ventilation defects?. <i>European Respiratory Journal</i> , 2018, 51, 1800324.	6.7	29
15	On the Potential Role of MRI Biomarkers of COPD to Guide Bronchoscopic Lung Volume Reduction. <i>Academic Radiology</i> , 2018, 25, 159-168.	2.5	8
16	MRI ventilation abnormalities predict quality-of-life and lung function changes in mild-to-moderate COPD: longitudinal TINCan study. <i>Thorax</i> , 2017, 72, 475-477.	5.6	20
17	Pulmonary <sup>3</sup> He Magnetic Resonance Imaging Biomarkers of Regional Airspace Enlargement in Alpha-1 Antitrypsin Deficiency. <i>Academic Radiology</i> , 2017, 24, 1402-1411.	2.5	2
18	Noncystic Fibrosis Bronchiectasis. <i>Academic Radiology</i> , 2017, 24, 4-12.	2.5	13

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19	Free-breathing Functional Pulmonary MRI. <i>Academic Radiology</i> , 2017, 24, 1268-1276.	2.5	27
20	Is ventilation heterogeneity related to asthma control?. <i>European Respiratory Journal</i> , 2016, 48, 370-379.	6.7	62
21	Pulmonary Imaging Biomarkers of Gas Trapping and Emphysema in COPD: <sup>3</sup> He MR Imaging and CT Parametric Response Maps. <i>Radiology</i> , 2016, 279, 597-608.	7.3	52
22	Second-order Texture Measurements of <sup>3</sup> He Ventilation MRI:. <i>Academic Radiology</i> , 2016, 23, 176-185.	2.5	10
23	Regional Heterogeneity of Chronic Obstructive Pulmonary Disease Phenotypes: Pulmonary <sup>3</sup> He Magnetic Resonance Imaging and Computed Tomography. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2016, 13, 601-609.	1.6	12
24	Ventilation Heterogeneity in Never-smokers and COPD:. <i>Academic Radiology</i> , 2016, 23, 398-405.	2.5	21
25	Oscillatory Positive Expiratory Pressure in Chronic Obstructive Pulmonary Disease. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2016, 13, 66-74.	1.6	31
26	Noninvasive quantification of alveolar morphometry in elderly never- and ex-smokers. <i>Physiological Reports</i> , 2015, 3, e12583.	1.7	22
27	Ultra-short echo-time pulmonary MRI: Evaluation and reproducibility in COPD subjects with and without bronchiectasis. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1465-1474.	3.4	61
28	Ventilation Heterogeneity in Ex-smokers without Airflow Limitation. <i>Academic Radiology</i> , 2015, 22, 1068-1078.	2.5	19
29	Free-breathing Pulmonary <sup>1</sup> H and Hyperpolarized <sup>3</sup> He MRI. <i>Academic Radiology</i> , 2015, 22, 320-329.	2.5	50
30	COPD: Do Imaging Measurements of Emphysema and Airway Disease Explain Symptoms and Exercise Capacity?. <i>Radiology</i> , 2015, 277, 872-880.	7.3	36
31	Pulmonary Abnormalities and Carotid Atherosclerosis in Ex-Smokers without Airflow Limitation. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2015, 12, 62-70.	1.6	5
32	Pulmonary ventilation defects in older never-smokers. <i>Journal of Applied Physiology</i> , 2014, 117, 297-306.	2.5	16
33	Hyperpolarized <sup>3</sup> He Ventilation Defects Used to Predict Pulmonary Exacerbations in Mild to Moderate Chronic Obstructive Pulmonary Disease. <i>Radiology</i> , 2014, 273, 887-896.	7.3	84
34	Hyperpolarized <sup>3</sup> He and <sup>129</sup> Xe magnetic resonance imaging apparent diffusion coefficients: physiological relevance in older never- and ex-smokers. <i>Physiological Reports</i> , 2014, 2, e12068.	1.7	35
35	What are ventilation defects in asthma?. <i>Thorax</i> , 2014, 69, 63-71.	5.6	94
36	Pulmonary Functional Magnetic Resonance Imaging. <i>Academic Radiology</i> , 2014, 21, 1402-1410.	2.5	25

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37	Quantitative <sup>1</sup> H and hyperpolarized <sup>3</sup> He magnetic resonance imaging: Comparison in chronic obstructive pulmonary disease and healthy never-smokers. <i>European Journal of Radiology</i> , 2014, 83, 64-72.	2.6	8
38	Longitudinal Computed Tomography and Magnetic Resonance Imaging of COPD: Thoracic Imaging Network of Canada (TINCan) Study Objectives. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla)</i> , 2014, 1, 200-211.	0.7	21
39	Computed Tomography Density Histogram Analysis to Evaluate Pulmonary Emphysema in Ex-smokers. <i>Academic Radiology</i> , 2013, 20, 537-545.	2.5	14
40	Hyperpolarized <sup>3</sup> He and <sup>129</sup> Xe MRI: Differences in asthma before bronchodilation. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 1521-1530.	3.4	134
41	Hyperpolarized helium-3 magnetic resonance imaging of chronic obstructive pulmonary disease exacerbation. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 37, 1223-1227.	3.4	26
42	On the role of abnormal DL <sub>CO</sub> in ex-smokers without airflow limitation: symptoms, exercise capacity and hyperpolarised helium-3 MRI. <i>Thorax</i> , 2013, 68, 752-759.	5.6	78
43	Oscillatory Positive Expiratory Pressure (oPEP) Treatment in Chronic Obstructive Pulmonary Disease. <i>Chest</i> , 2013, 144, 741A.	0.8	4
44	Lung morphometry using hyperpolarized <sup>129</sup> Xe apparent diffusion coefficient anisotropy in chronic obstructive pulmonary disease. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1699-1706.	3.0	62
45	Pulmonary ventilation visualized using hyperpolarized helium-3 and xenon-129 magnetic resonance imaging: differences in COPD and relationship to emphysema. <i>Journal of Applied Physiology</i> , 2013, 114, 707-715.	2.5	81
46	Hyperpolarized <sup>3</sup> He and <sup>129</sup> Xe MR Imaging in Healthy Volunteers and Patients with Chronic Obstructive Pulmonary Disease. <i>Radiology</i> , 2012, 265, 600-610.	7.3	198
47	Evaluating bronchodilator effects in chronic obstructive pulmonary disease using diffusion-weighted hyperpolarized helium-3 magnetic resonance imaging. <i>Journal of Applied Physiology</i> , 2012, 112, 651-657.	2.5	38
48	Regional pulmonary response to a methacholine challenge using hyperpolarized <sup>3</sup> He magnetic resonance imaging. <i>Respirology</i> , 2012, 17, 1237-1246.	2.3	56
49	Hyperpolarized <sup>3</sup> He Magnetic Resonance Functional Imaging Semiautomated Segmentation. <i>Academic Radiology</i> , 2012, 19, 141-152.	2.5	170
50	Hyperpolarized <sup>129</sup> Xe Magnetic Resonance Imaging. <i>Academic Radiology</i> , 2012, 19, 941-951.	2.5	67
51	Hyperpolarized <sup>3</sup> He Functional Magnetic Resonance Imaging of Bronchoscopic Airway Bypass in Chronic Obstructive Pulmonary Disease. <i>Canadian Respiratory Journal</i> , 2012, 19, 41-43.	1.6	14
52	Hyperpolarized <sup>3</sup> He magnetic resonance imaging: Preliminary evaluation of phenotyping potential in chronic obstructive pulmonary disease. <i>European Journal of Radiology</i> , 2011, 79, 140-146.	2.6	61
53	Comparison of hyperpolarized <sup>3</sup> He MRI with Xe-enhanced computed tomography imaging for ventilation mapping of rat lung. <i>NMR in Biomedicine</i> , 2011, 24, 1073-1080.	2.8	11
54	Chronic Obstructive Pulmonary Disease: Quantification of Bronchodilator Effects by Using Hyperpolarized He MR Imaging. <i>Radiology</i> , 2011, 261, 283-292.	7.3	75

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55	Imaging of lung function using hyperpolarized helium-3 magnetic resonance imaging: Review of current and emerging translational methods and applications. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 1398-1408.	3.4	185
56	Hyperpolarized <sup>3</sup> He magnetic resonance imaging-derived pulmonary pressure-volume curves. <i>Journal of Applied Physiology</i> , 2010, 109, 574-585.	2.5	14
57	Chronic Obstructive Pulmonary Disease: Longitudinal Hyperpolarized <sup>3</sup> He MR Imaging. <i>Radiology</i> , 2010, 256, 280-289.	7.3	102
58	Predicting Postoperative FEV1 Using Spiral Computed Tomography. <i>Academic Radiology</i> , 2010, 17, 607-613.	2.5	3
59	Hyperpolarized <sup>3</sup> He Magnetic Resonance Imaging of Ventilation Defects in Healthy Elderly Volunteers. <i>Academic Radiology</i> , 2008, 15, 776-785.	2.5	67
60	Hyperpolarized <sup>3</sup> He Magnetic Resonance Imaging of Chronic Obstructive Pulmonary Disease. <i>Academic Radiology</i> , 2008, 15, 1298-1311.	2.5	79
61	Mapping and quantifying hyperpolarized <sup>3</sup> He magnetic resonance imaging apparent diffusion coefficient gradients. <i>Journal of Applied Physiology</i> , 2008, 105, 693-699.	2.5	24
62	Asthma Control during the Year after Bronchial Thermoplasty. <i>New England Journal of Medicine</i> , 2007, 356, 1327-1337.	27.0	544
63	Micro-CT imaging of rat lung ventilation using continuous image acquisition during xenon gas contrast enhancement. <i>Journal of Applied Physiology</i> , 2007, 103, 1848-1856.	2.5	38
64	Tiotropium in Combination with Placebo, Salmeterol, or Fluticasone+Salmeterol for Treatment of Chronic Obstructive Pulmonary Disease. <i>Annals of Internal Medicine</i> , 2007, 146, 545.	3.9	590
65	Hyperpolarized <sup>3</sup> He Ventilation Defects and Apparent Diffusion Coefficients in Chronic Obstructive Pulmonary Disease. <i>Investigative Radiology</i> , 2007, 42, 384-391.	6.2	137
66	Albumin leak across human pulmonary microvascular vs. umbilical vein endothelial cells under septic conditions. <i>Microvascular Research</i> , 2006, 71, 40-47.	2.5	32
67	Pulmonary oxidant stress in murine sepsis is due to inflammatory cell nitric oxide*. <i>Critical Care Medicine</i> , 2005, 33, 1333-1339.	0.9	88
68	Diagnosis and management of pergolide-induced fibrosis. <i>Movement Disorders</i> , 2005, 20, 512-513.	3.9	6
69	Differential inducible nitric oxide synthase activity in circulating neutrophils vs. mononuclears of septic shock patients. <i>Intensive Care Medicine</i> , 2005, 31, 1132-1135.	8.2	14
70	Noninvasive positive-pressure ventilation in patients with milder chronic obstructive pulmonary disease exacerbations: a randomized controlled trial. <i>Respiratory Care</i> , 2005, 50, 610-6.	1.6	58
71	Pulmonary Neutrophil Infiltration in Murine Sepsis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 170, 227-233.	5.6	151
72	Role of Inducible Nitric Oxide Synthase in Pulmonary Microvascular Protein Leak in Murine Sepsis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 165, 1634-1639.	5.6	187

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73	Noninvasive Positive-Pressure Ventilation for Postextubation Respiratory Distress. <i>JAMA - Journal of the American Medical Association</i> , 2002, 287, 3238.	7.4	330
74	Effects of inhaled nitric oxide in a mouse model of sepsis-induced acute lung injury*. <i>Critical Care Medicine</i> , 2002, 30, 868-873.	0.9	66
75	Effects of Nebulized Diethylenetetraamine-NONOate in a Mouse Model of Acute Pseudomonas aeruginosa Pneumonia. <i>Chest</i> , 2002, 122, 2127-2136.	0.8	19
76	Functional Inhibition of Constitutive Nitric Oxide Synthase in a Rat Model of Sepsis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 165, 1426-1432.	5.6	83
77	Delayed rectifier potassium channels contribute to the depressed pulmonary artery contractility in pneumonia. <i>Journal of Applied Physiology</i> , 2002, 93, 957-965.	2.5	3
78	Effects of inhaled nitric oxide in a rat model of Pseudomonas aeruginosa pneumonia. <i>Critical Care Medicine</i> , 2000, 28, 2397-2405.	0.9	56
79	Pulmonary Artery Contractility in Pneumonia: Role of Cyclooxygenase Products and Nitric Oxide. <i>Journal of Cardiovascular Pharmacology</i> , 1999, 34, 468-474.	1.9	9
80	Capillary and arteriolar responses to local vasodilators are impaired in a rat model of sepsis. <i>Journal of Applied Physiology</i> , 1998, 84, 837-844.	2.5	68
81	Effect of noninvasive positive pressure ventilation on mortality in patients admitted with acute respiratory failure. <i>Critical Care Medicine</i> , 1997, 25, 1685-1692.	0.9	296
82	Vasodilator Therapy in Acute Respiratory Failure. <i>Chest</i> , 1996, 109, 596-597.	0.8	1
83	Calcitonin Gene-Related Peptide Does Not Mediate the Abnormal Vascular Reactivity Observed in a Rat Model of Acute Pseudomonas Pneumonia. <i>Journal of Cardiovascular Pharmacology</i> , 1996, 27, 901-907.	1.9	6
84	Cyclooxygenase Inhibition and Vascular Reactivity in a Rat Model of Hyperdynamic Sepsis. <i>Journal of Cardiovascular Pharmacology</i> , 1996, 28, 30-35.	1.9	19
85	Reproducibility of Protected Brush Catheter Specimen Cultures in Critically Ill Patients with Suspected Nosocomial Pneumonia. <i>Canadian Respiratory Journal</i> , 1995, 2, 173-178.	1.6	2
86	Accuracy of Portable Chest Radiography in the Critical Care Setting. <i>Chest</i> , 1994, 105, 885-887.	0.8	88
87	A Persistent Pulmonary Lesion following Chemotherapy for Metastatic Choriocarcinoma. <i>Chest</i> , 1993, 103, 269-270.	0.8	10
88	Bleomycin-induced acute lung injury in the rat does not influence pulmonary vascular responsiveness in vitro. <i>Critical Care Medicine</i> , 1992, 20, 641-644.	0.9	3
89	“Sepsis” – Clarity of existing terminology ... or more confusion?. <i>Critical Care Medicine</i> , 1991, 19, 996-998.	0.9	47
90	Effects of dopexamine hydrochloride on hypoxic pulmonary vasoconstriction in isolated rat lung. <i>Critical Care Medicine</i> , 1990, 18, 520-523.	0.9	9

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91	The Contrasting Influence of Two Lipoxygenase Inhibitors on Hypoxic Pulmonary Vasoconstriction in Anesthetized Pigs. <i>The American Review of Respiratory Disease</i> , 1989, 139, 100-105.	2.9	11