

Patrick Berger

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.

110
papers

3,560
citations

36
h-index

57
g-index

132
ext. papers

4,217
ext. citations

8.3
avg, IF

4.83
L-index

#	Paper	IF	Citations
110	Bronchial smooth muscle remodeling involves calcium-dependent enhanced mitochondrial biogenesis in asthma. <i>Journal of Experimental Medicine</i> , 2007 , 204, 3173-81	16.6	201
109	Tryptase and agonists of PAR-2 induce the proliferation of human airway smooth muscle cells. <i>Journal of Applied Physiology</i> , 2001 , 91, 1372-9	3.7	155
108	A proof-of-concept, randomized, controlled trial of omalizumab in patients with severe, difficult-to-control, nonatopic asthma. <i>Chest</i> , 2013 , 144, 411-419	5.3	140
107	Fraktalkine produced by airway smooth muscle cells contributes to mast cell recruitment in asthma. <i>Journal of Immunology</i> , 2006 , 176, 1860-8	5.3	128
106	Airway smooth muscle and mast cell-derived CC chemokine ligand 19 mediate airway smooth muscle migration in asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006 , 174, 1179-88	10.2	124
105	Tryptase-stimulated human airway smooth muscle cells induce cytokine synthesis and mast cell chemotaxis. <i>FASEB Journal</i> , 2003 , 17, 2139-41	0.9	122
104	Airway wall thickness in cigarette smokers: quantitative thin-section CT assessment. <i>Radiology</i> , 2005 , 235, 1055-64	20.5	120
103	Airway remodeling in asthma: new mechanisms and potential for pharmacological intervention. <i>Pharmacology & Therapeutics</i> , 2011 , 130, 325-37	13.9	97
102	The K ⁺ channel iKCA1 potentiates Ca ²⁺ influx and degranulation in human lung mast cells. <i>Journal of Allergy and Clinical Immunology</i> , 2004 , 114, 66-72	11.5	94
101	Role of YKL-40 in bronchial smooth muscle remodeling in asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 185, 715-22	10.2	91
100	Quiet Submillimeter MR Imaging of the Lung Is Feasible with a PETRA Sequence at 1.5 T. <i>Radiology</i> , 2015 , 276, 258-65	20.5	88
99	Human airway smooth muscle promotes human lung mast cell survival, proliferation, and constitutive activation: cooperative roles for CADM1, stem cell factor, and IL-6. <i>Journal of Immunology</i> , 2008 , 181, 2772-80	5.3	88
98	Bronchial measurements in patients with asthma: comparison of quantitative thin-section CT findings with those in healthy subjects and correlation with pathologic findings. <i>Radiology</i> , 2009 , 253, 844-53	20.5	87
97	Inhibition of matrix metalloproteinases by lung TIMP-1 gene transfer or doxycycline aggravates pulmonary hypertension in rats. <i>Circulation Research</i> , 2000 , 87, 418-25	15.7	79
96	Lung morphology assessment of cystic fibrosis using MRI with ultra-short echo time at submillimeter spatial resolution. <i>European Radiology</i> , 2016 , 26, 3811-3820	8	76
95	Selected contribution: tryptase-induced PAR-2-mediated Ca(2+) signaling in human airway smooth muscle cells. <i>Journal of Applied Physiology</i> , 2001 , 91, 995-1003	3.7	73
94	β-Agonist induced cAMP is decreased in asthmatic airway smooth muscle due to increased PDE4D. <i>PLoS ONE</i> , 2011 , 6, e20000	3.7	72

93	Differential expression of CCR3 and CXCR3 by human lung and bone marrow-derived mast cells: implications for tissue mast cell migration. <i>Journal of Leukocyte Biology</i> , 2005 , 77, 759-66	6.5	70
92	Assessment of airways with three-dimensional quantitative thin-section CT: in vitro and in vivo validation. <i>Radiology</i> , 2007 , 242, 563-72	20.5	66
91	Prolonged moderate hyperoxia induces hyperresponsiveness and airway inflammation in newborn rats. <i>Pediatric Research</i> , 2001 , 50, 515-9	3.2	61
90	Heme oxygenase inhibits human airway smooth muscle proliferation via a bilirubin-dependent modulation of ERK1/2 phosphorylation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 27160-8	5.4	55
89	Assessment of bronchial wall thickness and lumen diameter in human adults using multi-detector computed tomography: comparison with theoretical models. <i>Journal of Anatomy</i> , 2007 , 211, 579-88	2.9	54
88	Structure and function of small airways in smokers: relationship between air trapping at CT and airway inflammation. <i>Radiology</i> , 2003 , 228, 85-94	20.5	51
87	Estradiol decreases the acetylcholine-elicited airway reactivity in ovariectomized rats through an increase in epithelial acetylcholinesterase activity. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001 , 164, 1849-54	10.2	51
86	Calcium channel blocker reduces airway remodeling in severe asthma. A proof-of-concept study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 191, 876-83	10.2	50
85	Immunoglobulin E-induced passive sensitization of human airways: an immunohistochemical study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1998 , 157, 610-6	10.2	49
84	The Mycobiome: A Neglected Component in the Microbiota-Gut-Brain Axis. <i>Microorganisms</i> , 2018 , 6,	4.9	48
83	Airway smooth muscle in asthma: just a target for bronchodilation?. <i>Clinics in Chest Medicine</i> , 2012 , 33, 543-58	5.3	47
82	The pivotal role of airway smooth muscle in asthma pathophysiology. <i>Journal of Allergy</i> , 2011 , 2011, 742710		43
81	Asthma characteristics and biomarkers from the Airways Disease Endotyping for Personalized Therapeutics (ADEPT) longitudinal profiling study. <i>Respiratory Research</i> , 2015 , 16, 142	7.3	42
80	Identification of airway mucosal type 2 inflammation by using clinical biomarkers in asthmatic patients. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 140, 710-719	11.5	40
79	Respiratory mycobiome and suggestion of inter-kingdom network during acute pulmonary exacerbation in cystic fibrosis. <i>Scientific Reports</i> , 2020 , 10, 3589	4.9	40
78	Bronchial measurement with three-dimensional quantitative thin-section CT in patients with cystic fibrosis. <i>Radiology</i> , 2007 , 242, 573-81	20.5	39
77	Chemokines in COPD: From Implication to Therapeutic Use. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	38
76	Computed tomographic measurement of airway remodeling and emphysema in advanced chronic obstructive pulmonary disease. Correlation with pulmonary hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 191, 63-70	10.2	37

75	House dust mites induce proliferation of severe asthmatic smooth muscle cells via an epithelium-dependent pathway. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 191, 538-46	10.2	36
74	Prevalence and risk factors for COPD in farmers: a cross-sectional controlled study. <i>European Respiratory Journal</i> , 2016 , 47, 95-103	13.6	35
73	Bronchial Smooth Muscle Remodeling in Nonsevere Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 193, 627-33	10.2	31
72	Effectiveness and safety of dupilumab for the treatment of severe asthma in a real-life French multi-centre adult cohort. <i>Clinical and Experimental Allergy</i> , 2020 , 50, 789-798	4.1	30
71	Proteolytic susceptibility of the serine protease inhibitor trappin-2 (pre-elafin): evidence for tryptase-mediated generation of elafin. <i>Biological Chemistry</i> , 2005 , 386, 391-9	4.5	30
70	Allergic Bronchopulmonary Aspergillosis in Cystic Fibrosis: MR Imaging of Airway Mucus Contrasts as a Tool for Diagnosis. <i>Radiology</i> , 2017 , 285, 261-269	20.5	29
69	Intestinal Inflammation in Children with Cystic Fibrosis Is Associated with Crohn's-Like Microbiota Disturbances. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	29
68	Microfibrillar-associated protein 4 modulates airway smooth muscle cell phenotype in experimental asthma. <i>Thorax</i> , 2015 , 70, 862-72	7.3	29
67	Blood fibrocytes are recruited during acute exacerbations of chronic obstructive pulmonary disease through a CXCR4-dependent pathway. <i>Journal of Allergy and Clinical Immunology</i> , 2016 , 137, 1036-1042.e11.5	11.5	29
66	Thin-section CT of the lung: influence of 0.5-s gantry rotation and ECG triggering on image quality. <i>European Radiology</i> , 2001 , 11, 1681-7	8	29
65	RNA interference decreases PAR-2 expression and function in human airway smooth muscle cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006 , 34, 49-55	5.7	28
64	Ca(2+)-activated K(+) channel-3.1 blocker TRAM-34 attenuates airway remodeling and eosinophilia in a murine asthma model. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 48, 212-9	5.7	26
63	Breathing variability and brainstem serotonergic loss in a genetic model of multiple system atrophy. <i>Movement Disorders</i> , 2014 , 29, 388-95	7	25
62	Airway remodeling in a mouse asthma model assessed by in-vivo respiratory-gated micro-computed tomography. <i>European Radiology</i> , 2010 , 20, 128-37	8	23
61	Assessment of bronchial inflammation using an automated cell recognition system based on colour analysis. <i>European Respiratory Journal</i> , 1999 , 14, 1394-402	13.6	22
60	CT evaluation of small pulmonary vessels area in patients with COPD with severe pulmonary hypertension. <i>Thorax</i> , 2016 , 71, 830-7	7.3	22
59	3D ultrashort echo time MRI of the lung using stack-of-spirals and spherical k-Space coverages: Evaluation in healthy volunteers and parenchymal diseases. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 1489-1497	5.6	22
58	Type 2-high asthma is associated with a specific indoor mycobiome and microbiome. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 147, 1296-1305.e6	11.5	18

57	Control maintenance can be predicted by exhaled NO monitoring in asthmatic patients. <i>Respiratory Medicine</i> , 2011 , 105, 989-96	4.6	16
56	Bronchial morphometry in smokers: comparison with healthy subjects by using 3D CT. <i>European Radiology</i> , 2009 , 19, 1328-34	8	16
55	How can we minimise the use of regular oral corticosteroids in asthma?. <i>European Respiratory Review</i> , 2020 , 29,	9.8	15
54	Selective dysfunction of p53 for mitochondrial biogenesis induces cellular proliferation in bronchial smooth muscle from asthmatic patients. <i>Journal of Allergy and Clinical Immunology</i> , 2016 , 137, 1717-1726.e13	11.5	15
53	In vivo micro-CT assessment of airway remodeling in a flexible OVA-sensitized murine model of asthma. <i>PLoS ONE</i> , 2012 , 7, e48493	3.7	15
52	Adaptative capacity of mitochondrial biogenesis and of mitochondrial dynamics in response to pathogenic respiratory chain dysfunction. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 350-65	8.4	15
51	Increased secretion of leukemia inhibitory factor by immature airway smooth muscle cells enhances intracellular signaling and airway contractility. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006 , 291, L244-51	5.8	14
50	Fibrocytes in Asthma and Chronic Obstructive Pulmonary Disease: Variations on the Same Theme. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 58, 288-298	5.7	13
49	CT attenuation of the bronchial wall in patients with asthma: comparison with geometric parameters and correlation with function and histologic characteristics. <i>American Journal of Roentgenology</i> , 2012 , 199, 1226-33	5.4	13
48	Determination of reliable lung function parameters in intubated mice. <i>Respiratory Research</i> , 2019 , 20, 211	7.3	12
47	Increased relaxation of immature airways to beta2-adrenoceptor agonists is related to attenuated expression of postjunctional smooth muscle muscarinic M2 receptors. <i>Journal of Applied Physiology</i> , 2005 , 98, 1526-33	3.7	12
46	Protease activated receptor-2 expression and function in asthmatic bronchial smooth muscle. <i>PLoS ONE</i> , 2014 , 9, e86945	3.7	12
45	An age-wise comparison of human airway smooth muscle proliferative capacity. <i>PLoS ONE</i> , 2015 , 10, e0122446	3.7	11
44	Automated Volumetric Quantification of Emphysema Severity by Using Ultrashort Echo Time MRI: Validation in Participants with Chronic Obstructive Pulmonary Disease. <i>Radiology</i> , 2019 , 292, 216-225	20.5	10
43	Combined measurement of carbon monoxide and nitric oxide lung transfer does not improve the identification of pulmonary hypertension in systemic sclerosis. <i>European Respiratory Journal</i> , 2017 , 50,	13.6	9
42	Mean bronchial wall attenuation value in chronic obstructive pulmonary disease: comparison with standard bronchial parameters and correlation with function. <i>American Journal of Roentgenology</i> , 2012 , 198, 800-8	5.4	9
41	Measurement of cardiac ventricular volumes using multidetector row computed tomography: comparison of two- and three-dimensional methods. <i>European Radiology</i> , 2006 , 16, 2341-9	8	9
40	Connexin-43 is a promising target for pulmonary hypertension due to hypoxaemic lung disease. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	9

39	Assessing pulmonary hypertension in COPD. Is there a role for computed tomography?. <i>International Journal of COPD</i> , 2019 , 14, 2065-2079	3	8
38	Mast cells in airway smooth muscle. <i>New England Journal of Medicine</i> , 2002 , 347, 1040-1; author reply 1040-1	59.2	8
37	Quantitative CT assessment of bronchial and vascular alterations in severe precapillary pulmonary hypertension. <i>International Journal of COPD</i> , 2019 , 14, 381-389	3	7
36	Quantification of MRI T2-weighted High Signal Volume in Cystic Fibrosis: A Pilot Study. <i>Radiology</i> , 2020 , 294, 186-196	20.5	7
35	CT evaluation of hyperattenuating mucus to diagnose allergic bronchopulmonary aspergillosis in the special condition of cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2019 , 18, e31-e36	4.1	7
34	Asthmatic Bronchial Smooth Muscle Increases CCL5-Dependent Monocyte Migration in Response to Rhinovirus-Infected Epithelium. <i>Frontiers in Immunology</i> , 2019 , 10, 2998	8.4	6
33	Fibrocyte accumulation in the airway walls of COPD patients. <i>European Respiratory Journal</i> , 2019 , 54,	13.6	6
32	Excess Risk of Cancer from Computed Tomography Scan Is Small but Not So Low as to Be Incalculable. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015 , 192, 1396-7	10.2	6
31	Volumetric quantification of lung MR signal intensities using ultrashort TE as an automated score in cystic fibrosis. <i>European Radiology</i> , 2020 , 30, 5479-5488	8	5
30	Montelukast reverses airway remodeling in actively sensitized young mice. <i>Pediatric Pulmonology</i> , 2018 , 53, 701-709	3.5	5
29	Case-Finding for Persistent Airway Obstruction in Farmers: A Questionnaire With Optimal Diagnosis Criteria. <i>American Journal of Preventive Medicine</i> , 2017 , 53, 837-844	6.1	5
28	Crucial role of fatty acid oxidation in asthmatic bronchial smooth muscle remodelling. <i>European Respiratory Journal</i> , 2021 , 58,	13.6	5
27	Nasal airway epithelial cell IL-6 and FKBP51 gene expression and steroid sensitivity in asthmatic children. <i>PLoS ONE</i> , 2017 , 12, e0177051	3.7	4
26	In Vivo Computed Tomography as a Research Tool to Investigate Asthma and COPD: Where Do We Stand?. <i>Journal of Allergy</i> , 2012 , 2012, 972479		4
25	Pharmacologically induced relaxation of tracheal smooth muscle is increased in hyperoxia-exposed 15-day-old rats. <i>Pediatric Pulmonology</i> , 2002 , 33, 124-9	3.5	3
24	SARS-CoV-2 transmission via apical syncytia release from primary bronchial epithelia and infectivity restriction in children epithelia		3
23	Gut microbiota and mycobiota are both associated with Day-28 mortality among critically ill patients.. <i>Critical Care</i> , 2022 , 26, 105	10.8	3
22	Comments on Point:Counterpoint: Alterations in airway smooth muscle phenotype do/do not cause airway hyperresponsiveness in asthma. <i>Journal of Applied Physiology</i> , 2012 , 113, 844-6	3.7	2

21	Airway compliance studied by lumen area changes alone cannot discriminate between collapsibility and elasticity. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 107-8	10.2	2
20	Chymase-positive Mast Cells. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005 , 172, 647-648	13.2	2
19	Factors Associated with Asthma Severity in Children: Data from the French COBRAPed Cohort. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021 , 9, 1969-1979	5.4	2
18	Prioritising outcomes for evaluating eosinophil-guided corticosteroid therapy among patients with acute COPD exacerbations requiring hospitalisation: a Delphi consensus study. <i>BMJ Open</i> , 2020 , 10, e035811	3.11	1
17	Bronchi wall and lumen volumes to assess airway remodeling in asthma by using CT: an innovative method?. <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 133, 1777	11.5	1
16	Reply: YKL-40-mediated Interleukin 8 Production May Be Closely Associated with Remodeling of Bronchial Smooth Muscle Cells. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012 , 186, 386-387	10.2	1
15	3D human airway segmentation from high resolution MR imaging 2019 ,		1
14	Bronchial smooth muscle remodeling involves calcium-dependent enhanced mitochondrial biogenesis in asthma. <i>Journal of Cell Biology</i> , 2007 , 179, i16-i16	7.3	1
13	Bnip3 as a potential target to treat airway smooth muscle remodeling in asthma?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020 , 318, L212	5.8	1
12	Evaluation of bronchial wall thickness in asthma using magnetic resonance imaging. <i>European Respiratory Journal</i> , 2021 ,	13.6	1
11	Quantification of MRI T2 Interstitial Lung Disease Signal-Intensity Volume in Idiopathic Pulmonary Fibrosis: A Pilot Study. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 1500-1507	5.6	1
10	Contractile cell apoptosis regulates airway smooth muscle remodeling in asthma		1
9	Circulating fibrocytes as a new tool to predict lung cancer progression after surgery?. <i>European Respiratory Journal</i> , 2021 , 58,	13.6	1
8	Is CCL18 a potential biomarker of type-2 asthma endotypes?. <i>Journal of Asthma</i> , 2020 , 1-12	1.9	0
7	Mitochondria are involved in bronchial smooth muscle remodeling in severe preschool wheezers. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 148, 645-651.e11	11.5	0
6	Asthmatic bronchial smooth muscle increases rhinovirus replication within the bronchial epithelium.. <i>Cell Reports</i> , 2022 , 38, 110571	10.6	0
5	Arterialization of central pulmonary vein. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 2031	15.1	
4	Airway Smooth Muscle Interaction with Mast Cells127-139		

- 3 Apport de l'imagerie dans l'évaluation des voies aériennes. *Revue Française d'Allergologie Et Immunologie Clinique*, **2006**, 46, 267-273
- 2 Reply. *Journal of Allergy and Clinical Immunology*, **2016**, 137, 1626 11.5
- 1 Reply. *Journal of Allergy and Clinical Immunology*, **2021**, 147, 779-780 11.5