

Sam Bayat

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

1,557
citations

304368

22
h-index

329751

37
g-index

91
all docs

91
docs citations

91
times ranked

1500
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of metformin on autoimmune immunoglobins and interferon γ in patients with early diagnosed pemphigus vulgaris: a prospective clinical trial. <i>Clinical and Experimental Dermatology</i> , 2022, 47, 110-113.	0.6	1
2	International consensus on lung function testing during the COVID-19 pandemic and beyond. <i>ERJ Open Research</i> , 2022, 8, 00602-2021.	1.1	27
3	Lung tissue biomechanics imaged with synchrotron phase contrast microtomography in live rats. <i>Scientific Reports</i> , 2022, 12, 5056.	1.6	6
4	Imaging Regional Lung Structure and Function in Small Animals Using Synchrotron Radiation Phase-Contrast and K-Edge Subtraction Computed Tomography. <i>Frontiers in Physiology</i> , 2022, 13, 825433.	1.3	7
5	Micrometer-resolution X-ray tomographic full-volume reconstruction of an intact post-mortem juvenile rat lung. <i>Histochemistry and Cell Biology</i> , 2021, 155, 215-226.	0.8	22
6	Imaging atelectrauma in Ventilator-Induced Lung Injury using 4D X-ray microscopy. <i>Scientific Reports</i> , 2021, 11, 4236.	1.6	14
7	Rôle des accélérateurs de particules dans la lutte contre le SARS-CoV-2. , 2021, , 4-9.	0.1	0
8	Regional lung viscoelastic properties in supine and prone position in a porcine model of acute respiratory distress syndrome. <i>Journal of Applied Physiology</i> , 2021, 131, 15-25.	1.2	3
9	Nasal High Flow at 25 L/min or Expiratory Resistive Load Do Not Improve Regional Lung Function in Patients With COPD: A Functional CT Imaging Study. <i>Frontiers in Physiology</i> , 2021, 12, 683316.	1.3	0
10	A Mouse Model for Microbeam Radiation Therapy of the Lung. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 521-525.	0.4	16
11	Fractal analysis reveals functional unit of ventilation in the lung. <i>Journal of Physiology</i> , 2021, 599, 5121-5132.	1.3	6
12	Functional lung imaging with synchrotron radiation: Methods and preclinical applications. <i>Physica Medica</i> , 2020, 79, 22-35.	0.4	11
13	Effect of nasal airway nonlinearities on oscillometric resistance measurements in infants. <i>Journal of Applied Physiology</i> , 2020, 129, 591-598.	1.2	3
14	Dynamic In Vivo Synchrotron Phase-Contrast X-Ray Lung Microscopy. , 2020, , .		1
15	Physiologically variable ventilation reduces regional lung inflammation in a pediatric model of acute respiratory distress syndrome. <i>Respiratory Research</i> , 2020, 21, 288.	1.4	6
16	X-ray Tomographic In Situ Imaging of an Entire Post Mortem Juvenile Rat Lung at Microscopical Resolution. , 2020, , .		0
17	Multiscale pink-beam microCT imaging at the ESRF-ID17 biomedical beamline. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1347-1357.	1.0	21
18	Comparison of pleural and esophageal pressure in supine and prone positions in a porcine model of acute respiratory distress syndrome. <i>Journal of Applied Physiology</i> , 2020, 128, 1617-1625.	1.2	10

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19	Comparison of low-dose CT image registration-based "Parametric Response Maps" with global lung function and diffusion capacity in COPD patients. , 2020, , .		0
20	Feasibility and reproducibility of oscillometry for measuring respiratory function in young children: the SEPAGES cohort. , 2020, , .		0
21	Within-breath dynamics of atelectrauma during mechanical ventilation studied by in vivo 4D microscopy in injured rabbit lung. , 2020, , .		1
22	Comparison of low-dose CT image registration-based metrics of regional ventilation distribution with global lung function and diffusion capacity in COPD patients. , 2020, , .		0
23	A novel approach for automated alveolar morphometry using synchrotron X-ray microtomography in intact rat lung. , 2020, , .		0
24	Associations between oscillometry parameters and respiratory outcomes in young children: the SEPAGES cohort. , 2020, , .		0
25	Reversing Cholinergic Bronchoconstriction by Common Inotropic Agents. <i>Anesthesia and Analgesia</i> , 2019, 129, 745-752.	1.1	1
26	Variable Ventilation Is Equally Effective as Conventional Pressure Control Ventilation for Optimizing Lung Function in a Rabbit Model of ARDS. <i>Frontiers in Physiology</i> , 2019, 10, 803.	1.3	15
27	The Effect of Positive End-Expiratory Pressure on Lung Micromechanics Assessed by Synchrotron Radiation Computed Tomography in an Animal Model of ARDS. <i>Journal of Clinical Medicine</i> , 2019, 8, 1117.	1.0	7
28	Deciphering the Impact of Early-Life Exposures to Highly Variable Environmental Factors on Foetal and Child Health: Design of SEPAGES Couple-Child Cohort. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3888.	1.2	35
29	Effect of PEEP and I:E ratio on cerebral oxygenation in ARDS: an experimental study in anesthetized rabbit. <i>BMC Anesthesiology</i> , 2019, 19, 110.	0.7	3
30	Regional Behavior of Airspaces During Positive Pressure Reduction Assessed by Synchrotron Radiation Computed Tomography. <i>Frontiers in Physiology</i> , 2019, 10, 719.	1.3	10
31	High inspired oxygen fraction impairs lung volume and ventilation heterogeneity in healthy children: a double-blind randomised controlled trial. <i>British Journal of Anaesthesia</i> , 2019, 122, 682-691.	1.5	27
32	Change in capnogram waveform is associated with bronchodilator response and asthma control in children. <i>Pediatric Pulmonology</i> , 2019, 54, 698-705.	1.0	5
33	Individual Airway Closure Characterized In Vivo by Phase-Contrast CT Imaging in Injured Rabbit Lung*. <i>Critical Care Medicine</i> , 2019, 47, e774-e781.	0.4	41
34	3D histopathology speckle phase contrast imaging: from synchrotron to conventional sources. , 2019, , .		1
35	Regional distribution of lung inflammation in a multiple-hit model of ARDS assessed by micro-PET-CT imaging in juvenile rabbits. , 2019, , .		0
36	Benefits of physiological variable ventilation during asthma exacerbations: a randomised experimental study. , 2019, , .		0

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37	Quantitative Imaging of Regional Aerosol Deposition, Lung Ventilation and Morphology by Synchrotron Radiation CT. <i>Scientific Reports</i> , 2018, 8, 3519.	1.6	33
38	Comparison between neurally-assisted, controlled, and physiologically variable ventilation in healthy rabbits. <i>British Journal of Anaesthesia</i> , 2018, 121, 918-927.	1.5	11
39	Lung responses in murine models of experimental asthma: Value of house dust mite over ovalbumin sensitization. <i>Respiratory Physiology and Neurobiology</i> , 2018, 247, 43-51.	0.7	16
40	Volumetric but Not Time Capnography Detects Ventilation/Perfusion Mismatch in Injured Rabbit Lung. <i>Frontiers in Physiology</i> , 2018, 9, 1805.	1.3	11
41	Synchrotron X-Ray-Based Functional and Anatomical Lung Imaging Techniques. <i>Fundamental Biomedical Technologies</i> , 2018, , 151-167.	0.2	5
42	Synchrotron Imaging Shows Effect of Ventilator Settings on Intra-breath Cyclic Changes in Pulmonary Blood Volume. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 459-467.	1.4	9
43	Dynamic Mechanical Interactions Between Neighboring Airspaces Determine Cyclic Opening and Closure in Injured Lung. <i>Critical Care Medicine</i> , 2017, 45, 687-694.	0.4	33
44	The water consumption behaviors of the students of Inonu University and influencing factors, Turkey. <i>European Journal of Public Health</i> , 2017, 27, .	0.1	2
45	Respiratory Effects of Sarafotoxins from the Venom of Different <i>Atractaspis</i> Genus Snake Species. <i>Toxins</i> , 2016, 8, 215.	1.5	4
46	Zero expiratory pressure and low oxygen concentration promote heterogeneity of regional ventilation and lung densities. <i>Acta Anaesthesiologica Scandinavica</i> , 2016, 60, 958-968.	0.7	5
47	Pressure-regulated volume control vs. volume control ventilation in healthy and injured rabbit lung. <i>European Journal of Anaesthesiology</i> , 2016, 33, 767-775.	0.7	9
48	Fluid replacement and respiratory function. <i>European Journal of Anaesthesiology</i> , 2016, 33, 34-41.	0.7	10
49	Holographic laser Doppler imaging of pulsatile blood flow. <i>Journal of Biomedical Optics</i> , 2015, 20, 1.	1.4	3
50	Alveolar deflation dynamics before and after lung injury assessed by synchrotron radiation computed tomography. <i>Intensive Care Medicine Experimental</i> , 2015, 3, .	0.9	0
51	CT Density Distribution Analysis in Patients with Cystic Fibrosis. <i>Academic Radiology</i> , 2015, 22, 179-185.	1.3	8
52	Validation of airway resistance models for predicting pressure loss through anatomically realistic conducting airway replicas of adults and children. <i>Journal of Biomechanics</i> , 2015, 48, 1988-1996.	0.9	11
53	Effect of surfactant on regional lung function in an experimental model of respiratory distress syndrome in rabbit. <i>Journal of Applied Physiology</i> , 2015, 119, 290-298.	1.2	6
54	0897. Mechanisms of pulmonary inflation during lung injury assessed by synchrotron radiation computed tomography. <i>Intensive Care Medicine Experimental</i> , 2014, 2, .	0.9	0

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55	Radiation dose and image quality in K-edge subtraction computed tomography of lung in vivo. Journal of Synchrotron Radiation, 2014, 21, 1305-1313.	1.0	14
56	Differences in the pattern of bronchoconstriction induced by intravenous and inhaled methacholine in rabbit. Respiratory Physiology and Neurobiology, 2013, 189, 465-472.	0.7	5
57	Role of cellular effectors in the emergence of ventilation defects during allergic bronchoconstriction. Journal of Applied Physiology, 2013, 115, 1057-1064.	1.2	11
58	Effect of Positive End-expiratory Pressure on Regional Ventilation Distribution during Mechanical Ventilation after Surfactant Depletion. Anesthesiology, 2013, 119, 89-100.	1.3	35
59	In-Vivo Synchrotron Imaging Of Regional Ventilation And Blood Volume After Methacholine Provocation In Rabbit. , 2012, , .		0
60	Ventilation heterogeneity: small length scales, big challenges. Journal of Applied Physiology, 2012, 113, 851-852.	1.2	4
61	Feasibility Of K-Edge Subtraction (KES) Synchrotron Imaging For The Measurement Of Regional Aerosol Deposition, Lung Ventilation And Airway Morphology In Rabbit. , 2012, , .		0
62	Correlative Nanoscale 3D Imaging of Structure and Composition in Extended Objects. PLoS ONE, 2012, 7, e50124.	1.1	23
63	Acute hemorrhagic shock decreases airway resistance in anesthetized rat. Journal of Applied Physiology, 2011, 111, 458-464.	1.2	7
64	Effect of positive end-expiratory pressure on regional ventilation distribution during bronchoconstriction in rabbit studied by synchrotron radiation imaging*. Critical Care Medicine, 2011, 39, 1731-1738.	0.4	36
65	LPS-induced Lung Inflammation Is Modulated By Chronic Iron Overload: Role Of Proinflammatory Cytokines. , 2010, , .		0
66	High-resolution In-vivo Synchrotron Imaging Of Lung Structure And Regional Ventilation In Rat Using The K-edge Subtraction Technique. , 2010, , .		0
67	Airway Response To Inhaled Allergen Assessed By High-Resolution Synchrotron Imaging And Forced Oscillation Technique In Sensitized Brown Norway Rat. , 2010, , .		1
68	Acute cigarette smoke inhalation blunts lung responsiveness to methacholine and allergen in rabbit: differentiation of central and peripheral effects. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 299, L242-L251.	1.3	9
69	Paradoxical conducting airway responses and heterogeneous regional ventilation after histamine inhalation in rabbit studied by synchrotron radiation CT. Journal of Applied Physiology, 2009, 106, 1949-1958.	1.2	27
70	Methacholine and Ovalbumin Challenges Assessed by Forced Oscillations and Synchrotron Lung Imaging. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 296-303.	2.5	73
71	QUANTITATIVE FUNCTIONAL IMAGING AND KINETIC STUDIES WITH HIGH-CONTRAST AGENTS USING SYNCHROTRON RADIATION COMPUTED TOMOGRAPHY. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 95-106.	0.9	13
72	Increased cardiac index due to terbutaline treatment aggravates capillary-alveolar macromolecular leakage in oleic acid lung injury in dogs. Critical Care, 2009, 13, R166.	2.5	22

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73	Monitoring the Capillary-Alveolar Leakage in an A.R.D.S. Model Using Broncho-Alveolar Lavage. Microcirculation, 2008, 15, 237-249.	1.0	11
74	Imaging of lung function using synchrotron radiation computed tomography: What's new?. European Journal of Radiology, 2008, 68, S78-S83.	1.2	18
75	Simultaneous <i>in vivo</i> synchrotron radiation computed tomography of regional ventilation and blood volume in rabbit lung using combined K-edge and temporal subtraction. Physics in Medicine and Biology, 2008, 53, 775-791.	1.6	27
76	Synchrotron Radiation Computed Tomography Station at the ESRF Biomedical Beamline. AIP Conference Proceedings, 2007, , .	0.3	1
77	Differences in the time course of proximal and distal airway response to inhaled histamine studied by synchrotron radiation CT. Journal of Applied Physiology, 2006, 100, 1964-1973.	1.2	34
78	In vivo imaging of bone micro-architecture in mice with 3D synchrotron radiation micro-tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 548, 247-252.	0.7	32
79	High-Resolution Blood-Brain Barrier Permeability and Blood Volume Imaging Using Quantitative Synchrotron Radiation Computed Tomography: Study on an F98 Rat Brain Glioma. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 145-153.	2.4	31
80	Quantitative measurement of regional lung gas volume by synchrotron radiation computed tomography. Physics in Medicine and Biology, 2005, 50, 1-11.	1.6	400
81	Effect of tidal volume on distribution of ventilation assessed by synchrotron radiation CT in rabbit. Journal of Applied Physiology, 2004, 96, 1899-1908.	1.2	50
82	Comparison of ^{99m} Tc-DTPA and urea for measuring cefepime concentrations in epithelial lining fluid. European Respiratory Journal, 2004, 24, 150-156.	3.1	39
83	Vascular reactivity to norepinephrine and acetylcholine after chronic intermittent hypoxia in mice. Respiratory Physiology and Neurobiology, 2003, 139, 21-32.	0.7	25
84	Quantitative functional lung imaging with synchrotron radiation using inhaled xenon as contrast agent. Physics in Medicine and Biology, 2001, 46, 3287-3299.	1.6	82
85	In vivo measurement of lung capillary-alveolar macromolecule permeability by saturation bronchoalveolar lavage. Critical Care Medicine, 2000, 28, 2937-2942.	0.4	8
86	In Vivo Quantitation of Epithelial Lining Fluid in Dog Lung. American Journal of Respiratory and Critical Care Medicine, 1998, 158, 1715-1723.	2.5	13
87	Blood flow vs. venous pressure effects on filtration coefficient in oleic acid-injured lung. Journal of Applied Physiology, 1998, 84, 1011-1023.	1.2	25
88	Experimental and clinical measurement of pulmonary edema. , 1998, , 161-229.		1
89	European Respiratory Society International Congress 2021: Highlights from the Respiratory clinical care and physiology assembly. ERJ Open Research, 0, , 00710-2021.	1.1	2