Alister Bates

List of Publications by Year
in descending order

37 papers	596 citations	706676 14 h-index	685536 24 g-index
37 all docs	37 docs citations	37 times ranked	531 citing authors

#	Article	IF	Citations
1	Tracheostomy prediction model in neonatal bronchopulmonary dysplasia via lung and airway MRI. Pediatric Pulmonology, 2022, 57, 1042-1050.	1.0	7
2	Bronchopulmonary dysplasia from chest radiographs to magnetic resonance imaging and computed tomography: adding value. Pediatric Radiology, 2022, 52, 643-660.	1.1	16
3	Cover Image, Volume 57, Number 4, April 2022. Pediatric Pulmonology, 2022, 57, .	1.0	0
4	MRI-Based Predictors of Work of Breathing in Neonates with Tracheomalacia. , 2022, , .		0
5	Dramatically Increased Tracheal Resistive Work of Breathing in a Neonatal Subject with Tracheomegaly. , 2022, , .		0
6	Virtual Bronchoscopy of Neonatal Airway Malacia via High-Resolution, Respiratory-gated Magnetic Resonance Imaging. American Journal of Respiratory and Critical Care Medicine, 2022, 206, e42-e43.	2.5	3
7	Subglottic Stenosis Position Affects Work of Breathing. Laryngoscope, 2021, 131, E1220-E1226.	1.1	11
8	Abnormal Breathing Patterns in Neonatal Lung Disease via 4D Dynamic Chest MRI. , 2021, , .		0
9	Neonates with Tracheomalacia Generate Auto-PEEP via Glottis Closure Measured by MRI-Based Computational Fluid Dynamics. , 2021, , .		0
10	In Vivo Validation of Computational Fluid Dynamics Simulations of Upper-Airway Respiratory Airflow with 129Xe Phase Contrast MRI. , 2021, , .		0
11	Neonates With Tracheomalacia Generate Auto-Positive End-Expiratory Pressure via Glottis Closure. Chest, 2021, 160, 2168-2177.	0.4	5
12	The effect of decongestion on nasal airway patency and airflow. Scientific Reports, 2021, 11, 14410.	1.6	5
13	Human upper-airway respiratory airflow: In vivo comparison of computational fluid dynamics simulations and hyperpolarized 129Xe phase contrast MRI velocimetry. PLoS ONE, 2021, 16, e0256460.	1.1	10
14	Quantitative Evaluation of Subglottic Stenosis Using Ultrashort Echo Time <scp>MRI</scp> in a Rabbit Model. Laryngoscope, 2021, 131, E1971-E1979.	1.1	5
15	Oral Positive Expiratory Pressure Device for Excessive Dynamic Airway Collapse Caused by Emphysema. Chest, 2021, 160, e333-e337.	0.4	3
16	Clinical CFD Applications 2. Biological and Medical Physics Series, 2021, , 225-253.	0.3	1
17	Fundamentals of Fluid Dynamics. Biological and Medical Physics Series, 2021, , 117-156.	0.3	0
18	Non-Bronchoscopic Assessment of the Airways. Respiratory Medicine, 2021, , 155-169.	0.1	0

#	Article	IF	Citations
19	Ultrashort Echo-Time MRI for the Assessment of Tracheomalacia in Neonates. Chest, 2020, 157, 595-602.	0.4	39
20	Assessing Changes in Airflow and Energy Loss in a Progressive Tracheal Compression Before and After Surgical Correction. Annals of Biomedical Engineering, 2020, 48, 822-833.	1.3	15
21	Increased Work of Breathing due to Tracheomalacia in Neonates. Annals of the American Thoracic Society, 2020, 17, 1247-1256.	1.5	35
22	The effect of airway motion and breathing phase during imaging on CFD simulations of respiratory airflow. Computers in Biology and Medicine, 2020, 127, 104099.	3.9	16
23	Elevated Work of Breathing in Neonates with Tracheomalacia Using Computational Fluid Dynamics. , 2020, , .		0
24	0759 Quantification of Neuromuscular Effort in Upper Airways of Pediatric Patients with Obstructive Sleep Apnea. Sleep, 2019, 42, A305-A305.	0.6	0
25	Elevated lung volumes in neonates with bronchopulmonary dysplasia measured via MRI. Pediatric Pulmonology, 2019, 54, 1311-1318.	1.0	35
26	Dynamic Tracheal Collapse and Correlation to Later Tracheostomy in Neonates with Bronchopulmonary Dysplasia Via Quantitative Ultrashort Echo-Time MRI. , 2019, , .		2
27	Quantitative Assessment of Regional Dynamic Airway Collapse in Neonates via Retrospectively Respiratory‐Gated ¹H Ultrashort Echo Time MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 659-667.	1.9	37
28	Assessing the relationship between movement and airflow in the upper airway using computational fluid dynamics with motion determined from magnetic resonance imaging. Clinical Biomechanics, 2019, 66, 88-96.	0.5	39
29	Pre- and post-operative visualization of neonatal esophageal atresia/tracheoesophageal fistula via magnetic resonance imaging. Journal of Pediatric Surgery Case Reports, 2018, 29, 5-8.	0.1	19
30	Flow features and micro-particle deposition in a human respiratory system during sniffing. Journal of Aerosol Science, 2018, 123, 171-184.	1.8	36
31	A novel method to generate dynamic boundary conditions for airway CFD by mapping upper airway movement with non‐rigid registration of dynamic and static MRI. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3144.	1.0	30
32	Computational fluid dynamics benchmark dataset of airflow in tracheas. Data in Brief, 2017, 10, 101-107.	0.5	19
33	Power loss mechanisms in pathological tracheas. Journal of Biomechanics, 2016, 49, 2187-2192.	0.9	29
34	The effects of curvature and constriction on airflow and energy loss in pathological tracheas. Respiratory Physiology and Neurobiology, 2016, 234, 69-78.	0.7	40
35	Large-scale CFD simulations of the transitional and turbulent regime for the large human airways during rapid inhalation. Computers in Biology and Medicine, 2016, 69, 166-180.	3.9	89
36	Dynamics of airflow in a short inhalation. Journal of the Royal Society Interface, 2015, 12, 20140880.	1.5	50

#	Article	IF	Citations
37	A Gluing Method for Non-matching Meshes. Procedia Engineering, 2013, 61, 258-263.	1.2	0