

# Thomas H Shaffer

## List of Publications by Year in descending order

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71  
papers

2,799  
citations

186265

28  
h-index

175258

52  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial Liquid Ventilation with Perflubron in Premature Infants with Severe Respiratory Distress Syndrome. <i>New England Journal of Medicine</i> , 1996, 335, 761-767.	27.0	435
2	Liquid ventilation of human preterm neonates. <i>Journal of Pediatrics</i> , 1990, 117, 106-111.	1.8	242
3	Liquid ventilation. <i>Pediatric Pulmonology</i> , 1992, 14, 102-109.	2.0	200
4	Inadvertent Administration of Positive End-Distending Pressure During Nasal Cannula Flow. <i>Pediatrics</i> , 1993, 91, 135-138.	2.1	181
5	Liquid assisted ventilation: An alternative ventilatory strategy for acute meconium aspiration injury. <i>Pediatric Pulmonology</i> , 1996, 21, 316-322.	2.0	90
6	Perfluorochemical rescue after surfactant treatment: effect of perflubron dose and ventilatory frequency. <i>Journal of Applied Physiology</i> , 1998, 84, 624-640.	2.5	90
7	Interaction between chest wall motion and lung mechanics in normal infants and infants with bronchopulmonary dysplasia. <i>Pediatric Pulmonology</i> , 1991, 11, 37-43.	2.0	89
8	Sequential Effects of Acute Meconium Obstruction on Pulmonary Function. <i>Pediatric Research</i> , 1980, 14, 34-38.	2.3	85
9	Cardiopulmonary Function in Very Preterm Lambs during Liquid Ventilation. <i>Pediatric Research</i> , 1983, 17, 680-684.	2.3	84
10	Liquid-assisted ventilation: An alternative respiratory modality. <i>Pediatric Pulmonology</i> , 1998, 26, 42-63.	2.0	79
11	Pulmonary applications of perfluorochemical liquids: Ventilation and beyond. <i>Paediatric Respiratory Reviews</i> , 2005, 6, 117-127.	1.8	73
12	Maturation Changes in Airway Smooth Muscle Structure-Function Relationships. <i>Pediatric Research</i> , 1992, 31, 151-156.	2.3	59
13	Analysis of perfluorochemical elimination from the respiratory system. <i>Journal of Applied Physiology</i> , 1997, 83, 1033-1033.	2.5	56
14	In Vivo Mechanical Properties of the Developing Airway. <i>Pediatric Research</i> , 1989, 25, 143-146.	2.3	52
15	Developmental Changes in Tracheal Structure. <i>Pediatric Research</i> , 1991, 30, 170-175.	2.3	46
16	Developmental Differences in Tracheal Cartilage Mechanics. <i>Pediatric Research</i> , 1989, 26, 429-433.	2.3	44
17	Enhanced Distribution of Adenovirus-Mediated Gene Transfer to Lung Parenchyma by Perfluorochemical Liquid. <i>Human Gene Therapy</i> , 1997, 8, 919-928.	2.7	44
18	The Role of Tracheal Smooth Muscle Contraction on Neonatal Tracheal Mechanics. <i>Pediatric Research</i> , 1986, 20, 1216-1220.	2.3	41

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19	Effect of Ventilation on Mechanical Properties and Pressure-Flow Relationships of Immature Airways. <i>Pediatric Research</i> , 1988, 23, 519-524.	2.3	37
20	Airway structure, function and development in health and disease. <i>Paediatric Anaesthesia</i> , 2004, 14, 3-14.	1.1	37
21	Structural Changes in the Tracheae of Preterm Lambs Induced by Ventilation. <i>Pediatric Research</i> , 1989, 26, 434-437.	2.3	35
22	Pulmonary Lavage in Preterm Lambs. <i>Pediatric Research</i> , 1978, 12, 695-698.	2.3	34
23	Liquid ventilation: an adjunct for respiratory management. <i>Paediatric Anaesthesia</i> , 2004, 14, 15-23.	1.1	34
24	Respiratory mechanics in an infant with perinatal lethal hypophosphatasia treated with human recombinant enzyme replacement therapy. <i>Pediatric Pulmonology</i> , 2012, 47, 917-922.	2.0	34
25	Multicenter Comparative Study of Conventional Mechanical Gas Ventilation to Tidal Liquid Ventilation in Oleic Acid Injured Sheep. <i>ASAIO Journal</i> , 2008, 54, 256-269.	1.6	33
26	Neonatal noninvasive respiratory support: Physiological implications. <i>Pediatric Pulmonology</i> , 2012, 47, 837-847.	2.0	31
27	Physiologic, Biochemical, and Histologic Correlates Associated with Tidal Liquid Ventilation. <i>Pediatric Research</i> , 1998, 43, 132-138.	2.3	30
28	Time-Dependent Tracheal Deformation in Fetal, Neonatal, and Adult Rabbits. <i>Pediatric Research</i> , 1982, 16, 830-833.	2.3	29
29	Skeletal dysplasias: Evaluation with impulse oscillometry and thoracoabdominal motion analysis. <i>Pediatric Pulmonology</i> , 2010, 45, 679-686.	2.0	29
30	Effect of high-frequency jet ventilation on preterm and rabbit tracheal mechanics. <i>Pediatric Pulmonology</i> , 1986, 2, 327-331.	2.0	22
31	Liquid-assisted Ventilation: Physiology and Clinical Application. <i>Annals of Medicine</i> , 1997, 29, 509-517.	3.8	22
32	Mechanics and energetics of breathing in newly diagnosed infants with cystic fibrosis: Effect of combined bronchodilator and chest physical therapy. <i>Pediatric Pulmonology</i> , 1989, 6, 103-108.	2.0	21
33	pneuRIPTM: A Novel Respiratory Inductance Plethysmography Monitor. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2017, 11, 0110101-110106.	0.7	21
34	Quantitative Bronchoscopic Assessment of Airway Collapsibility in Newborn Lamb Tracheae. <i>Pediatric Research</i> , 1998, 43, 832-839.	2.3	21
35	Effect of single versus multiple dosing on perfluorochemical distribution and elimination during partial liquid ventilation. , 1999, 27, 410-418.		20
36	Intratracheal administration of perfluorochemical-gentamicin suspension: A comparison to intravenous administration in normal and injured lungs. <i>Pediatric Pulmonology</i> , 2001, 32, 142-151.	2.0	20

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37	Pulmonary Function Tests in Emergency Department Pediatric Patients with Acute Wheezing/Asthma Exacerbation. <i>Pulmonary Medicine</i> , 2012, 2012, 1-8.	1.9	20
38	Lucinactant attenuates pulmonary inflammatory response, preserves lung structure, and improves physiologic outcomes in a preterm lamb model of RDS. <i>Pediatric Research</i> , 2012, 72, 375-383.	2.3	20
39	Skeletal dysplasia: Respiratory management during infancy. <i>Respiratory Medicine</i> , 2017, 131, 18-26.	2.9	19
40	Effect of External Inspiratory Loading on Ventilation of Premature Infants. <i>Pediatric Research</i> , 1984, 18, 150-154.	2.3	18
41	Use of a touch sensitive screen and computer assisted image analysis for quantitation of developmental changes in pulmonary structure. <i>Pediatric Pulmonology</i> , 1990, 9, 109-118.	2.0	18
42	An Electromechanical Demand Regulated Liquid Breathing System. <i>IEEE Transactions on Biomedical Engineering</i> , 1975, BME-22, 412-417.	4.2	15
43	Perfluorochemical elimination from the lungs: Effect of initial dose. <i>Pediatric Pulmonology</i> , 2000, 30, 324-329.	2.0	14
44	Influence of smooth muscle tone and longitudinal tension on the collapsibility of immature airways. <i>Pediatric Pulmonology</i> , 1988, 5, 132-138.	2.0	12
45	Differential effects of pancuronium bromide on cardiopulmonary function in the neonatal lamb. <i>Pediatric Pulmonology</i> , 1990, 8, 233-239.	2.0	12
46	Increased Respiratory Drive and Limited Adaptation to Loaded Breathing in Bronchopulmonary Dysplasia. <i>Pediatric Research</i> , 1992, 32, 356-359.	2.3	12
47	Safety and Long Term Outcomes with High Flow Nasal Cannula Therapy in Neonatology: A Large Retrospective Cohort Study. <i>Journal of Pulmonary &amp; Respiratory Medicine</i> , 2014, 04, .	0.1	11
48	Non-invasive pulmonary function test on Morquio patients. <i>Molecular Genetics and Metabolism</i> , 2015, 115, 186-192.	1.1	11
49	Measures of respiratory inductance plethysmography (RIP) in children with neuromuscular disease. <i>Pediatric Pulmonology</i> , 2018, 53, 1260-1268.	2.0	11
50	Comparison of perfluorochemical fluids used for liquid ventilation: Effect of endotracheal tube flow resistance. , 1997, 23, 449-456.		10
51	Surfactant administration prior to one lung ventilation: Physiological and inflammatory correlates in a piglet model. <i>Pediatric Pulmonology</i> , 2011, 46, 1069-1078.	2.0	10
52	Perfluorochemical Liquid-Adenovirus Suspensions Enhance Gene Delivery to the Distal Lung. <i>Pulmonary Medicine</i> , 2011, 2011, 1-10.	1.9	8
53	Age-related ranges of respiratory inductance plethysmography (RIP) reference values for infants and children. <i>Paediatric Respiratory Reviews</i> , 2019, 29, 60-67.	1.8	8
54	Diagnostic differences in respiratory breathing patterns and work of breathing indices in children with Duchenne muscular dystrophy. <i>PLoS ONE</i> , 2020, 15, e0226980.	2.5	8

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55	Brief mechanical ventilation impacts airway cartilage properties in neonatal lambs. <i>Pediatric Pulmonology</i> , 2012, 47, 763-770.	2.0	7
56	Lack of durable protection against cotton smoke-induced acute lung injury in sheep by nebulized single chain urokinase plasminogen activator or tissue plasminogen activator. <i>Clinical and Translational Medicine</i> , 2018, 7, 17.	4.0	6
57	Quantitative Analysis of Thoracoabdominal Asynchrony in Pediatric Polysomnography. <i>Journal of Clinical Sleep Medicine</i> , 2018, 14, 1169-1176.	2.6	5
58	Limitations of Frequency Dependence as a Measure of Airway Obstruction. <i>IEEE Transactions on Biomedical Engineering</i> , 1975, BME-22, 317-321.	4.2	4
59	Machine learning for automatic identification of thoracoabdominal asynchrony in children. <i>Pediatric Research</i> , 2021, 89, 1232-1238.	2.3	4
60	Perfluorochemical (PFC) Combinations for Acute Lung Injury: An In Vitro and In Vivo Study in Juvenile Rabbits. <i>Pediatric Research</i> , 2003, 53, 81-88.	2.3	4
61	The orl rat is more responsive to methacholine challenge than wild type. <i>Pulmonary Pharmacology and Therapeutics</i> , 2014, 29, 199-208.	2.6	3
62	Nebulization of single-chain tissue-type and single-chain urokinase plasminogen activator for treatment of inhalational smoke-induced acute lung injury. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 46, 19-27.	3.0	3
63	Adjustment of high flow nasal cannula rates using real-time work of breathing indices in premature infants with respiratory insufficiency. <i>Journal of Perinatology</i> , 2021, 41, 1711-1717.	2.0	3
64	Caffeine potentiates airway responsiveness in the neonatal lamb. <i>Pediatric Pulmonology</i> , 1992, 12, 17-22.	2.0	2
65	Perfluorochemical-facilitated plasminogen activator delivery to the airways: A novel treatment for inhalational smoke-induced acute lung injury. <i>Clinical and Translational Medicine</i> , 2020, 10, 258-274.	4.0	2
66	Administration of Drugs/Gene Products to the Respiratory System: A Historical Perspective of the Use of Inert Liquids. <i>Frontiers in Physiology</i> , 2022, 13, .	2.8	2
67	Pharmacokinetics of gentamicin by intravenous and intratracheal administrations. , 2014, , .		1
68	Automated Assessment of Thoracic-Abdominal Asynchrony in Patients with Morquio Syndrome. <i>Diagnostics</i> , 2021, 11, 880.	2.6	1
69	Effect of single versus multiple dosing on perfluorochemical distribution and elimination during partial liquid ventilation. <i>Pediatric Pulmonology</i> , 1999, 27, 410-418.	2.0	1
70	A novel noninvasive approach for evaluating work of breathing indices in a developmental rat model using respiratory inductance plethysmography. <i>Scientific Reports</i> , 2020, 10, 20730.	3.3	0
71	Utilising pneuRIP device in determining the adequacy of respiratory support when weaning high-flow nasal cannula in paediatric patients with acute respiratory distress: A pilot study. <i>Journal of Paediatrics and Child Health</i> , 0, , .	0.8	0