

Robert Tarran

List of Publications by Year in descending order

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58
papers

2,189
citations

236925

25
h-index

233421

45
g-index

58
all docs

58
docs citations

58
times ranked

2585
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic E-Cigarette Exposure Alters the Human Bronchial Epithelial Proteome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 67-76.	5.6	176
2	Molecular basis for pH-dependent mucosal dehydration in cystic fibrosis airways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15973-15978.	7.1	160
3	SPLUNC1 regulates airway surface liquid volume by protecting ENaC from proteolytic cleavage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11412-11417.	7.1	149
4	Chronic E-Cigarette Use Increases Neutrophil Elastase and Matrix Metalloprotease Levels in the Lung. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 1392-1401.	5.6	142
5	Regulation of Airway Surface Liquid Volume and Mucus Transport by Active Ion Transport. <i>Proceedings of the American Thoracic Society</i> , 2004, 1, 42-46.	3.5	135
6	Evaluation of e-liquid toxicity using an open-source high-throughput screening assay. <i>PLoS Biology</i> , 2018, 16, e2003904.	5.6	124
7	Will chronic e-cigarette use cause lung disease?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L1398-L1409.	2.9	91
8	Flavored e-cigarette liquids reduce proliferation and viability in the CALU3 airway epithelial cell line. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L52-L66.	2.9	90
9	Cigarette Smoke-induced Ca ²⁺ Release Leads to Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Dysfunction. <i>Journal of Biological Chemistry</i> , 2014, 289, 7671-7681.	3.4	84
10	Regulation of the epithelial Na ⁺ channel and airway surface liquid volume by serine proteases. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 1-17.	2.8	79
11	In Vivo Versus In Vitro Airway Surface Liquid Nicotine Levels Following Cigarette Smoke Exposure. <i>Journal of Analytical Toxicology</i> , 2008, 32, 201-207.	2.8	69
12	Airway hydration and COPD. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 3637-3652.	5.4	67
13	SPX-101 Is a Novel Epithelial Sodium Channel-targeted Therapeutic for Cystic Fibrosis That Restores Mucus Transport. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 196, 734-744.	5.6	47
14	E-Cigarette or Vaping Product Use-associated Lung Injury: Developing a Research Agenda. An NIH Workshop Report. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 795-802.	5.6	42
15	Identification of BPIFA1/SPLUNC1 as an epithelium-derived smooth muscle relaxing factor. <i>Nature Communications</i> , 2017, 8, 14118.	12.8	39
16	Mucin Production and Hydration Responses to Mucopurulent Materials in Normal versus Cystic Fibrosis Airway Epithelia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 481-491.	5.6	38
17	E-Cigarette Exposure Delays Implantation and Causes Reduced Weight Gain in Female Offspring Exposed In Utero. <i>Journal of the Endocrine Society</i> , 2019, 3, 1907-1916.	0.2	38
18	E-Cigarettes and Cardiopulmonary Health. <i>Function</i> , 2021, 2, zqab004.	2.3	36

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19	E-Cigarettes and Cardiopulmonary Health: Review for Clinicians. <i>Circulation</i> , 2022, 145, 219-232.	1.6	36
20	SPLUNC1 is an allosteric modulator of the epithelial sodium channel. <i>FASEB Journal</i> , 2018, 32, 2478-2491.	0.5	33
21	Mammalian short palate lung and nasal epithelial clone 1 (SPLUNC1) in pH-dependent airway hydration. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 52, 130-135.	2.8	30
22	Adrenomedullin improves fertility and promotes pinopodes and cell junctions in the peri-implantation endometrium. <i>Biology of Reproduction</i> , 2017, 97, 466-477.	2.7	30
23	Little Cigars are More Toxic than Cigarettes and Uniquely Change the Airway Gene and Protein Expression. <i>Scientific Reports</i> , 2017, 7, 46239.	3.3	29
24	Evaluation of a SPLUNC1-derived peptide for the treatment of cystic fibrosis lung disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 314, L192-L205.	2.9	28
25	SPLUNC1 degradation by the cystic fibrosis mucosal environment drives airway surface liquid dehydration. <i>European Respiratory Journal</i> , 2018, 52, 1800668.	6.7	28
26	Slippery When Wet. <i>Current Topics in Membranes</i> , 2018, 81, 293-335.	0.9	27
27	Cigarette Smoke Exposure Induces Retrograde Trafficking of CFTR to the Endoplasmic Reticulum. <i>Scientific Reports</i> , 2019, 9, 13655.	3.3	26
28	E-cigarettes, nicotine, the lung and the brain: multi-level cascading pathophysiology. <i>Journal of Physiology</i> , 2020, 598, 5063-5071.	2.9	25
29	Flavored e-liquids increase cytoplasmic Ca ²⁺ levels in airway epithelia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L226-L241.	2.9	24
30	Cardiopulmonary Consequences of Vaping in Adolescents: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2022, 131, .	4.5	24
31	SPLUNC1: a novel marker of cystic fibrosis exacerbations. <i>European Respiratory Journal</i> , 2021, 58, 2000507.	6.7	20
32	Automated acquisition and analysis of airway surface liquid height by confocal microscopy. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L109-L118.	2.9	19
33	Short Palate, Lung, and Nasal Epithelial Clone 1 Has Antimicrobial and Antibiofilm Activities against the Burkholderia cepacia Complex. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 6003-6012.	3.2	19
34	Cellular effects of nicotine salt-containing e-liquids. <i>Journal of Applied Toxicology</i> , 2021, 41, 493-505.	2.8	18
35	E-Liquid Autofluorescence can be used as a Marker of Vaping Deposition and Third-Hand Vape Exposure. <i>Scientific Reports</i> , 2017, 7, 7459.	3.3	16
36	First clinical trials of novel ENaC targeting therapy, SPX-101, in healthy volunteers and adults with cystic fibrosis. <i>Pulmonary Pharmacology and Therapeutics</i> , 2019, 58, 101819.	2.6	16

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37	Lipid-laden Macrophages Are Not Unique to Patients with E-Cigarette or Vaping Product Use-associated Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 1030-1033.	5.6	16
38	Epigenetic reprogramming in periodontal disease: Dynamic crosstalk with potential impact in oncogenesis. <i>Periodontology</i> 2000, 2020, 82, 157-172.	13.4	15
39	JUUL e-liquid exposure elicits cytoplasmic Ca ²⁺ responses and leads to cytotoxicity in cultured airway epithelial cells. <i>Toxicology Letters</i> , 2021, 337, 46-56.	0.8	12
40	Cigarette smoke modifies and inactivates SPLUNC1, leading to airway dehydration. <i>FASEB Journal</i> , 2018, 32, 6559-6574.	0.5	11
41	A SPLUNC1 Peptidomimetic Inhibits Orai1 and Reduces Inflammation in a Murine Allergic Asthma Model. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 271-282.	2.9	11
42	Acute cigarette smoke or extract exposure rapidly activates TRPA1-mediated calcium influx in primary human airway smooth muscle cells. <i>Scientific Reports</i> , 2021, 11, 9643.	3.3	10
43	Chronic E-Cigarette Exposure Alters Human Alveolar Macrophage Morphology and Gene Expression. <i>Nicotine and Tobacco Research</i> , 2022, 24, 395-399.	2.6	9
44	Reactive Oxygen Species, Mitochondrial Membrane Potential, and Cellular Membrane Potential Are Predictors of E-Liquid Induced Cellular Toxicity. <i>Nicotine and Tobacco Research</i> , 2020, 22, S4-S13.	2.6	9
45	Combustible and Electronic Cigarette Exposures Increase ACE2 Activity and SARS-CoV-2 Spike Binding. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 129-133.	5.6	8
46	SPLUNC1 Loses Its Antimicrobial Activity in Acidic Cystic Fibrosis Airway Secretions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 633-636.	5.6	6
47	Gaining the Upper Hand on Pulmonary Drug Delivery. <i>Journal of Pharmacovigilance</i> , 2014, 02, 118.	0.2	5
48	Culture with apically applied healthy or disease sputum alters the airway surface liquid proteome and ion transport across human bronchial epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C954-C963.	4.6	5
49	The role of SPAG1 in the assembly of axonemal dyneins in human airway epithelia. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	5
50	New generation ENaC inhibitors detach cystic fibrosis airway mucus bundles via sodium/hydrogen exchanger inhibition. <i>European Journal of Pharmacology</i> , 2021, 904, 174123.	3.5	4
51	The SPLUNC1-ENaC complex prevents <i>Burkholderia cenocepacia</i> invasion in normal airway epithelia. <i>Respiratory Research</i> , 2020, 21, 190.	3.6	3
52	A modified fluorescent sensor for reporting glucose concentration in the airway lumen. <i>PLoS ONE</i> , 2021, 16, e0254248.	2.5	1
53	Characterizing Exogenous Cell Engraftment for Cystic Fibrosis Cell Therapy. <i>FASEB Journal</i> , 2018, 32, 897.2.	0.5	1
54	Early Studies of Respiratory Disease Associations with Nicotine and Tobacco Use. <i>Nicotine and Tobacco Research</i> , 2020, 22, S1-S3.	2.6	1

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55	Loose ENDS: Electronic Nicotine Delivery Systems and the FDA's Recent Enforcement Policy. European Medical Journal Respiratory, 2020, 8, 93-96.	1.0	1
56	Loose ENDS: Electronic Nicotine Delivery Systems and the FDA's Recent Enforcement Policy. European Medical Journal Respiratory, 0, , 93-96.	1.0	1
57	SPLUNC1 is a negative regulator of the Orai1 Ca ²⁺ channel. Physiological Reports, 2022, 10, e15306.	1.7	1
58	Vaping /E-liquid Exposure Causes Dysregulation of Neutrophil Extracellular Trap formation. FASEB Journal, 2022, 36, .	0.5	0