

Manfred Frick

List of Publications by Year in descending order

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98
papers

3,236
citations

159585

30
h-index

175258

52
g-index

117
all docs

117
docs citations

117
times ranked

4451
citing authors

#	ARTICLE	IF	CITATIONS
1	The Pore-Forming Subunit C2IIa of the Binary Clostridium botulinum C2 Toxin Reduces the Chemotactic Translocation of Human Polymorphonuclear Leukocytes. <i>Frontiers in Pharmacology</i> , 2022, 13, 810611.	3.5	4
2	Inhibition of calcium-triggered secretion by hydrocarbon-stapled peptides. <i>Nature</i> , 2022, 603, 949-956.	27.8	39
3	Serially passaged, conditionally reprogrammed nasal epithelial cells as a model to study epithelial functions and SARS-CoV-2 infection. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C591-C604.	4.6	2
4	Channels and Transporters of the Pulmonary Lamellar Body in Health and Disease. <i>Cells</i> , 2022, 11, 45.	4.1	5
5	The Idiopathic Pulmonary Fibrosis-Associated SNP rs35705950 Is Transcribed in a MUC5B Promoter Associated Long Non-Coding RNA (AC061979.1). , 2022, , .		0
6	Mucins MUC5AC and MUC5B Are Variably Packaged in the Same and in Separate Secretory Granules. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 1081-1095.	5.6	10
7	TGF- β 1 increases permeability of ciliated airway epithelia via redistribution of claudin 3 from tight junction into cell nuclei. <i>Pflügers Archiv European Journal of Physiology</i> , 2021, 473, 287-311.	2.8	14
8	Ion and Water Transport in Neutrophil Granulocytes and Its Impairment during Sepsis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1699.	4.1	9
9	SARS-CoV-2 infects and replicates in cells of the human endocrine and exocrine pancreas. <i>Nature Metabolism</i> , 2021, 3, 149-165.	11.9	378
10	Pharmacological targeting of host chaperones protects from pertussis toxin in vitro and in vivo. <i>Scientific Reports</i> , 2021, 11, 5429.	3.3	13
11	Alpha-1 antitrypsin inhibits TMPRSS2 protease activity and SARS-CoV-2 infection. <i>Nature Communications</i> , 2021, 12, 1726.	12.8	86
12	Carrageenan-containing over-the-counter nasal and oral sprays inhibit SARS-CoV-2 infection of airway epithelial cultures. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 320, L750-L756.	2.9	41
13	Characterization and Pharmacological Inhibition of the Pore-Forming Clostridioides difficile CDTb Toxin. <i>Toxins</i> , 2021, 13, 390.	3.4	10
14	A PCB-Based 24-Ch. MEA-EIS Allowing Fast Measurement of TEER. <i>IEEE Sensors Journal</i> , 2021, 21, 13048-13059.	4.7	4
15	In Vitro Measurements of Cellular Forces and their Importance in the Lung – From the Sub- to the Multicellular Scale. <i>Life</i> , 2021, 11, 691.	2.4	1
16	Role of the C5a-C5a receptor axis in the inflammatory responses of the lungs after experimental polytrauma and hemorrhagic shock. <i>Scientific Reports</i> , 2021, 11, 2158.	3.3	9
17	Inhibition of Clostridioides difficile Toxins TcdA and TcdB by Ambroxol. <i>Frontiers in Pharmacology</i> , 2021, 12, 809595.	3.5	8
18	Retinoic acid signalling adjusts tight junction permeability in response to air-liquid interface conditions. <i>Cellular Signalling</i> , 2020, 65, 109421.	3.6	14

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19	A Novel Fibroblast Reporter Cell Line for in vitro Studies of Pulmonary Fibrosis. <i>Frontiers in Physiology</i> , 2020, 11, 567675.	2.8	7
20	P2 Purinergic Signaling in the Distal Lung in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4973.	4.1	26
21	Mechanical stretch activates piezo1 in caveolae of alveolar type I cells to trigger ATP release and paracrine stimulation of surfactant secretion from alveolar type II cells. <i>FASEB Journal</i> , 2020, 34, 12785-12804.	0.5	72
22	Actin and Myosin in Non-Neuronal Exocytosis. <i>Cells</i> , 2020, 9, 1455.	4.1	26
23	Super-resolution microscopy unveils transmembrane domain-mediated internalization of cross-reacting material 197 into diphtheria toxin-resistant mouse J774A.1 cells and primary rat fibroblasts in vitro. <i>Archives of Toxicology</i> , 2020, 94, 1753-1761.	4.2	6
24	Inhibition of Airway Epithelial Snare/Synaptotagmin Mediated Membrane Fusion by Hydrocarbon-Stapled Peptides. <i>Biophysical Journal</i> , 2020, 118, 399a-400a.	0.5	0
25	Recapitulating idiopathic pulmonary fibrosis related alveolar epithelial dysfunction in a human iPSC-derived air-liquid interface model. <i>FASEB Journal</i> , 2020, 34, 7825-7846.	0.5	28
26	Insights Into Development and Progression of Idiopathic Pulmonary Fibrosis From Single Cell RNA Studies. <i>Frontiers in Medicine</i> , 2020, 7, 611728.	2.6	7
27	Supramolecular Toxin Complexes for Targeted Pharmacological Modulation of Polymorphonuclear Leukocyte Functions. <i>Advanced Healthcare Materials</i> , 2019, 8, 1900665.	7.6	4
28	IL-13 Impairs Tight Junctions in Airway Epithelia. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3222.	4.1	26
29	Targeted Protein Delivery: Supramolecular Toxin Complexes for Targeted Pharmacological Modulation of Polymorphonuclear Leukocyte Functions (Adv. Healthcare Mater. 17/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970072.	7.6	0
30	Revisiting an old antibiotic: bacitracin neutralizes binary bacterial toxins and protects cells from intoxication. <i>FASEB Journal</i> , 2019, 33, 5755-5771.	0.5	9
31	Sensory contact to the stressor prevents recovery from structural and functional heart damage following psychosocial trauma. <i>Brain, Behavior, and Immunity</i> , 2019, 80, 667-677.	4.1	9
32	Human lung fibroblast-to-myofibroblast transformation is not driven by an LDH5-dependent metabolic shift towards aerobic glycolysis. <i>Respiratory Research</i> , 2019, 20, 87.	3.6	30
33	P2X4 and lysosome fusion. <i>Current Opinion in Pharmacology</i> , 2019, 47, 126-132.	3.5	31
34	Pharmacological cholesterol depletion disturbs ciliogenesis and ciliary function in developing zebrafish. <i>Communications Biology</i> , 2019, 2, 31.	4.4	31
35	Recapitulating Epithelial Dysfunction in the Context of Idiopathic Pulmonary Fibrosis Using an iPSC Derived Air-Liquid Interface Model of Alveolar Epithelial Differentiation. , 2019, , .		0
36	Inflammation-induced upregulation of P2X ₄ expression augments mucin secretion in airway epithelia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 316, L58-L70.	2.9	21

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37	Measuring the Action of Oligonucleotide Therapeutics in the Lung at the Cell Type-Specific Level by Tissue Disruption and Cell Sorting (TDCS). <i>Methods in Molecular Biology</i> , 2019, 2036, 187-203.	0.9	0
38	IPF-relevant cytokine cocktail induced changes in iPSC-derived alveolar epithelial and primary airway basal cell differentiation. , 2019, , .		0
39	ATP is stored in lamellar bodies to activate vesicular P2X4 in an autocrine fashion upon exocytosis. <i>Journal of General Physiology</i> , 2018, 150, 277-291.	1.9	30
40	A Tyrosine-Based Trafficking Motif of the Tegument Protein pUL71 Is Crucial for Human Cytomegalovirus Secondary Envelopment. <i>Journal of Virology</i> , 2018, 92, .	3.4	30
41	Medium throughput breathing human primary cell alveolus-on-chip model. <i>Scientific Reports</i> , 2018, 8, 14359.	3.3	132
42	Complement C5a Alters the Membrane Potential of Neutrophils during Hemorrhagic Shock. <i>Mediators of Inflammation</i> , 2018, 2018, 1-12.	3.0	20
43	Cells respond to deletion of CAV1 by increasing synthesis of extracellular matrix. <i>PLoS ONE</i> , 2018, 13, e0205306.	2.5	5
44	Pulmonary surfactant protein SP-B promotes exocytosis of lamellar bodies in alveolar type II cells. <i>FASEB Journal</i> , 2018, 32, 4600-4611.	0.5	26
45	TRPV4 inhibition attenuates stretch-induced inflammatory cellular responses and lung barrier dysfunction during mechanical ventilation. <i>PLoS ONE</i> , 2018, 13, e0196055.	2.5	46
46	P2X ₄ receptor re-sensitization depends on a protonation/deprotonation cycle mediated by receptor internalization and recycling. <i>Journal of Physiology</i> , 2018, 596, 4893-4907.	2.9	9
47	The Hsp90 machinery facilitates the transport of diphtheria toxin into human cells. <i>Scientific Reports</i> , 2017, 7, 613.	3.3	36
48	Performance Testing of <i>RREB1</i> , <i>MYB</i> , and <i>CCND1</i> Fluorescence In Situ Hybridization in Spindle-Cell and Desmoplastic Melanoma Argues for a Two-Step Test Algorithm. <i>International Journal of Surgical Pathology</i> , 2017, 25, 148-157.	0.8	5
49	Hsp70 facilitates trans-membrane transport of bacterial ADP-ribosylating toxins into the cytosol of mammalian cells. <i>Scientific Reports</i> , 2017, 7, 2724.	3.3	43
50	Role of the Purinergic Receptor P2XR4 After Blunt Chest Trauma in Cigarette Smoke-Exposed Mice. <i>Shock</i> , 2017, 47, 193-199.	2.1	8
51	Water Permeability Adjusts Resorption in Lung Epithelia to Increased Apical Surface Liquid Volumes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 372-382.	2.9	16
52	The breathing lung-on-chip model for routine laboratory application. <i>Toxicology Letters</i> , 2017, 280, S272.	0.8	0
53	A small key unlocks a heavy door: The essential function of the small hydrophobic proteins SP-B and SP-C to trigger adsorption of pulmonary surfactant lamellar bodies. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2124-2134.	4.1	38
54	Different roles of the small GTPases Rac1, Cdc42, and RhoG in CALEB/NGC-induced dendritic tree complexity. <i>Journal of Neurochemistry</i> , 2016, 139, 26-39.	3.9	17

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55	Glucocorticoids Regulate Tight Junction Permeability of Lung Epithelia by Modulating Claudin 8. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 707-717.	2.9	51
56	LATE-BREAKING ABSTRACT: Interfacial sensing a new regulator of pulmonary epithelial barrier function. , 2016, , .		0
57	Physiological and Immune-Biological Characterization of a Long-Term Murine Model of Blunt Chest Trauma. Shock, 2015, 43, 140-147.	2.1	21
58	Vesicular control of fusion pore expansion. Communicative and Integrative Biology, 2015, 8, e1018496.	1.4	1
59	Actin depolymerisation and crosslinking join forces with myosin II to contract actin coats on fused secretory vesicles. Journal of Cell Science, 2015, 128, 1193-203.	2.0	35
60	Surfactant Secretion in LRRK2 Knock-Out Rats: Changes in Lamellar Body Morphology and Rate of Exocytosis. PLoS ONE, 2014, 9, e84926.	2.5	42
61	Amiloride-sensitive fluid resorption in NCI-H441 lung epithelia depends on an apical Cl ⁻ conductance. Physiological Reports, 2014, 2, e00201.	1.7	14
62	Imaging P2X4 receptor subcellular distribution, trafficking, and regulation using P2X4-pHluorin. Journal of General Physiology, 2014, 144, 81-104.	1.9	39
63	Hyperglycemia, oxidative stress, and the diaphragm: a link between chronic co-morbidity and acute stress?. Critical Care, 2014, 18, 149.	5.8	8
64	Synaptotagmin-7 links fusion-activated Ca ²⁺ entry (FACE) and fusion pore dilation. Journal of Cell Science, 2014, 127, 5218-27.	2.0	18
65	Complementary roles for Rock1 and myosin light chain kinase in actin coat compression on fused secretory vesicles (538.4). FASEB Journal, 2014, 28, 538.4.	0.5	0
66	Apical volume expansion results in an immediate ENaC activation but in delayed onset of water resorption (718.1). FASEB Journal, 2014, 28, 718.1.	0.5	0
67	Deuterium Oxide Dilution: A Novel Method to Study Apical Water Layers and Transepithelial Water Transport. Analytical Chemistry, 2013, 85, 4247-4250.	6.5	22
68	Fusion-activated cation entry (FACE) via P2X ₄ couples surfactant secretion and alveolar fluid transport. FASEB Journal, 2013, 27, 1772-1783.	0.5	30
69	A new role for P2X4 receptors as modulators of lung surfactant secretion. Frontiers in Cellular Neuroscience, 2013, 7, 171.	3.7	30
70	Actin coating and compression of fused secretory vesicles are essential for surfactant secretion: a role for Rho, formins and myosin II. Journal of Cell Science, 2012, 125, 2765-74.	2.0	63
71	WS15.1 Volume increase in alveolar type II cells following fusion dependent activation of P2X4 receptors on lamellar bodies â€” linking secretion and fluid transport in the lung?. Journal of Cystic Fibrosis, 2012, 11, S33.	0.7	0
72	An ultra fast detection method reveals strain-induced Ca ²⁺ entry via TRPV2 in alveolar type II cells. Biomechanics and Modeling in Mechanobiology, 2012, 11, 959-971.	2.8	13

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73	Spatio-temporal aspects, pathways and actions of Ca ²⁺ in surfactant secreting pulmonary alveolar type II pneumocytes. <i>Cell Calcium</i> , 2012, 52, 296-302.	2.4	39
74	Combined Atomic Force Microscopy–Fluorescence Microscopy: Analyzing Exocytosis in Alveolar Type II Cells. <i>Analytical Chemistry</i> , 2012, 84, 5716-5722.	6.5	28
75	Molecular basis of early epithelial response to streptococcal exotoxin: role of STIM1 and Orai1 proteins. <i>Cellular Microbiology</i> , 2012, 14, 299-315.	2.1	16
76	Fusion-activated Ca ²⁺ entry via vesicular P2X ₄ receptors promotes fusion pore opening and exocytotic content release in pneumocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14503-14508.	7.1	78
77	Vesicular calcium channels as regulators of the exocytotic post-fusion phase. <i>Communicative and Integrative Biology</i> , 2011, 4, 796-798.	1.4	7
78	Uptake, Efficacy, and Systemic Distribution of Naked, Inhaled Short Interfering RNA (siRNA) and Locked Nucleic Acid (LNA) Antisense. <i>Molecular Therapy</i> , 2011, 19, 2163-2168.	8.2	84
79	Fusion-Activated Ca ²⁺ Entry: An “Active Zone” of Elevated Ca ²⁺ during the Postfusion Stage of Lamellar Body Exocytosis in Rat Type II Pneumocytes. <i>PLoS ONE</i> , 2010, 5, e10982.	2.5	36
80	Endocytosis of flotillin-1 and flotillin-2 is regulated by Fyn kinase. <i>Journal of Cell Science</i> , 2009, 122, 912-918.	2.0	115
81	Modulation of Lateral Diffusion in the Plasma Membrane by Protein Density. <i>Current Biology</i> , 2007, 17, 462-467.	3.9	116
82	Coassembly of Flotillins Induces Formation of Membrane Microdomains, Membrane Curvature, and Vesicle Budding. <i>Current Biology</i> , 2007, 17, 1151-1156.	3.9	226
83	Phagocytosis of Human Retinal Pigment Epithelial Cells: Evidence of a Diurnal Rhythm, Involvement of the Cytoskeleton and Interference of Antiviral Drugs. <i>Ophthalmic Research</i> , 2006, 38, 164-174.	1.9	12
84	A Fluorescent Microplate Assay for Exocytosis in Alveolar Type II Cells. <i>Journal of Biomolecular Screening</i> , 2006, 11, 286-295.	2.6	22
85	Ca ²⁺ Induced Surfactant Secretion in Alveolar Type II Cultures Isolated from the H-2K ^b -tsA58 Transgenic Mouse. <i>Cellular Physiology and Biochemistry</i> , 2005, 15, 159-166.	1.6	10
86	Ca ²⁺ entry is essential for cell strain-induced lamellar body fusion in isolated rat type II pneumocytes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L210-L220.	2.9	48
87	Pulmonary Consequences of a Deep Breath Revisited. <i>Neonatology</i> , 2004, 85, 299-304.	2.0	34
88	Tracing surfactant transformation from cellular release to insertion into an air-liquid interface. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L1009-L1015.	2.9	50
89	Inhibition by cytoplasmic nucleotides of a new cation channel in freshly isolated human and rat type II pneumocytes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L1284-L1292.	2.9	11
90	Self-organized array of regularly spaced microbeads in a fiber-optical trap. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1568.	2.1	171

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91	Mechanical Forces Impeding Exocytotic Surfactant Release Revealed by Optical Tweezers. Biophysical Journal, 2003, 84, 1344-1351.	0.5	43
92	Mechanisms of Surfactant Exocytosis in Alveolar Type II Cells In Vitro and In Vivo. Physiology, 2001, 16, 239-243.	3.1	27
93	Inhibition of ATP-induced surfactant exocytosis by dihydropyridine (DHP) derivatives: a non-stereospecific, photoactivated effect and independent of L-type Ca ²⁺ channels. Biochemical Pharmacology, 2001, 61, 1161-1167.	4.4	8
94	Fusion pore expansion is a slow, discontinuous, and Ca ²⁺ -dependent process regulating secretion from alveolar type II cells. Journal of Cell Biology, 2001, 155, 279-290.	5.2	93
95	<title>Combined optical tweezers and optical stretcher in microscopy</title>. , 2001, , .		5
96	Secretion in Alveolar Type II Cells at the Interface of Constitutive and Regulated Exocytosis. American Journal of Respiratory Cell and Molecular Biology, 2001, 25, 306-315.	2.9	60
97	Threshold calcium levels for lamellar body exocytosis in type II pneumocytes. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 277, L893-L900.	2.9	40
98	Long-term induction of a unique Cl ⁻ current by endothelin-1 in an epithelial cell line from rat lung: evidence for regulation of cytoplasmic calcium. Journal of Physiology, 1998, 511, 55-65.	2.9	5