

Jin-Ah Park

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,475
citations

257450

24
h-index

223800

46
g-index

53
all docs

53
docs citations

53
times ranked

2991
citing authors

#	ARTICLE	IF	CITATIONS
1	Unjamming and cell shape in the asthmatic airway epithelium. <i>Nature Materials</i> , 2015, 14, 1040-1048.	27.5	484
2	Geometric constraints during epithelial jamming. <i>Nature Physics</i> , 2018, 14, 613-620.	16.7	196
3	Propulsion and navigation within the advancing monolayer sheet. <i>Nature Materials</i> , 2013, 12, 856-863.	27.5	161
4	Collective migration and cell jamming in asthma, cancer and development. <i>Journal of Cell Science</i> , 2016, 129, 3375-83.	2.0	126
5	A functional splice variant associated with decreased asthma risk abolishes the ability of gasdermin B to induce epithelial cell pyroptosis. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 1469-1478.e2.	2.9	121
6	In primary airway epithelial cells, the unjamming transition is distinct from the epithelial-to-mesenchymal transition. <i>Nature Communications</i> , 2020, 11, 5053.	12.8	107
7	Human Neutrophil Elastase Induces Hypersecretion of Mucin from Well-Differentiated Human Bronchial Epithelial Cells in Vitro via a Protein Kinase C β -Mediated Mechanism. <i>American Journal of Pathology</i> , 2005, 167, 651-661.	3.8	101
8	Tissue factor-bearing exosome secretion from human mechanically stimulated bronchial epithelial cells in Vitro and in Vivo. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 130, 1375-1383.	2.9	96
9	Chronic Intermittent Mechanical Stress Increases MUC5AC Protein Expression. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 41, 459-466.	2.9	91
10	Transcriptomic response of primary human airway epithelial cells to flavoring chemicals in electronic cigarettes. <i>Scientific Reports</i> , 2019, 9, 1400.	3.3	84
11	The Chitinase-like Protein YKL-40 Is Secreted by Airway Epithelial Cells at Base Line and in Response to Compressive Mechanical Stress. <i>Journal of Biological Chemistry</i> , 2010, 285, 29817-29825.	3.4	69
12	Cellular Biomechanics in Drug Screening and Evaluation: Mechanopharmacology. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 87-100.	8.7	50
13	Pulmonary fibrosis distal airway epithelia are dynamically and structurally dysfunctional. <i>Nature Communications</i> , 2021, 12, 4566.	12.8	50
14	Age-dependent regulation of SARS-CoV-2 cell entry genes and cell death programs correlates with COVID-19 severity. <i>Science Advances</i> , 2021, 7, .	10.3	49
15	Protein Kinase C β Regulates Airway Mucin Secretion via Phosphorylation of MARCKS Protein. <i>American Journal of Pathology</i> , 2007, 171, 1822-1830.	3.8	48
16	Pulmonary Neuroendocrine Cells Secrete β -Aminobutyric Acid to Induce Goblet Cell Hyperplasia in Primate Models. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 687-694.	2.9	47
17	A novel jamming phase diagram links tumor invasion to non-equilibrium phase separation. <i>iScience</i> , 2021, 24, 103252.	4.1	43
18	Unjamming and collective migration in MCF10A breast cancer cell lines. <i>Biochemical and Biophysical Research Communications</i> , 2020, 521, 706-715.	2.1	42

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19	IL-13 Augments Compressive Stress-Induced Tissue Factor Expression in Human Airway Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 54, 524-531.	2.9	35
20	Airway epithelial compression promotes airway smooth muscle proliferation and contraction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L645-L652.	2.9	34
21	Mechanical forces induce an asthma gene signature in healthy airway epithelial cells. <i>Scientific Reports</i> , 2020, 10, 966.	3.3	34
22	Problems in biology with many scales of length: Cell-cell adhesion and cell jamming in collective cellular migration. <i>Experimental Cell Research</i> , 2016, 343, 54-59.	2.6	32
23	Putting the Squeeze on Airway Epithelia. <i>Physiology</i> , 2015, 30, 293-303.	3.1	29
24	Vaping and Lung Inflammation and Injury. <i>Annual Review of Physiology</i> , 2022, 84, 611-629.	13.1	27
25	(R)-Albuterol Elicits Antiinflammatory Effects in Human Airway Epithelial Cells via iNOS. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006, 34, 119-127.	2.9	26
26	The actin regulator zyxin reinforces airway smooth muscle and accumulates in airways of fatal asthmatics. <i>PLoS ONE</i> , 2017, 12, e0171728.	2.5	25
27	TNF- α -Converting Enzyme/A Disintegrin and Metalloprotease-17 Mediates Mechanotransduction in Murine Tracheal Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 45, 376-385.	2.9	24
28	Irradiation Induces Epithelial Cell Unjamming. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 21.	3.7	22
29	An EGFR autocrine loop encodes a slow-reacting but dominant mode of mechanotransduction in a polarized epithelium. <i>FASEB Journal</i> , 2010, 24, 1604-1615.	0.5	21
30	Human neutrophil elastase-mediated goblet cell metaplasia is attenuated in TACE-deficient mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L701-L707.	2.9	20
31	Airway mechanical compression: its role in asthma pathogenesis and progression. <i>European Respiratory Review</i> , 2020, 29, 190123.	7.1	20
32	Genome-Wide Association Study: Functional Variant rs2076295 Regulates Desmoplakin Expression in Airway Epithelial Cells. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 1225-1236.	5.6	20
33	In well-differentiated primary human bronchial epithelial cells, TGF- β 1 and TGF- β 2 induce expression of furin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 320, L246-L253.	2.9	14
34	Genomic signatures of the unjamming transition in compressed human bronchial epithelial cells. <i>Science Advances</i> , 2021, 7, .	10.3	14
35	Cell Jamming in the Airway Epithelium. <i>Annals of the American Thoracic Society</i> , 2016, 13, S64-S67.	3.2	14
36	The tumor suppressor p53 can promote collective cellular migration. <i>PLoS ONE</i> , 2019, 14, e0202065.	2.5	12

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37	Integrative epigenomic analysis in differentiated human primary bronchial epithelial cells exposed to cigarette smoke. <i>Scientific Reports</i> , 2018, 8, 12750.	3.3	11
38	Bronchoconstriction: a potential missing link in airway remodelling. <i>Open Biology</i> , 2020, 10, 200254.	3.6	8
39	Repeated Mouse Lung Exposures to <i>Stachybotrys chartarum</i> Shift Immune Response from Type 1 to Type 2. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 55, 521-531.	2.9	7
40	Electronic cigarette smoke reduces ribosomal protein gene expression to impair protein synthesis in primary human airway epithelial cells. <i>Scientific Reports</i> , 2021, 11, 17517.	3.3	7
41	Inflammatory insights into airway remodelling in asthma. <i>Respirology</i> , 2018, 23, 1084-1085.	2.3	6
42	Increased extracellular maspin levels after mechanical compression in vitro or allergen challenge in vivo. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1116-1118.e4.	2.9	6
43	Mechanical Compression of Human Airway Epithelial Cells Induces Release of Extracellular Vesicles Containing Tenascin C. <i>Cells</i> , 2022, 11, 256.	4.1	6
44	Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Disease 2021. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 0, , .	2.9	5
45	Multipotency of mouse trophoblast stem cells. <i>Stem Cell Research and Therapy</i> , 2020, 11, 55.	5.5	3
46	Potential therapy for mucus hypersecretion in chronic obstructive pulmonary disease. <i>Journal of Organ Dysfunction</i> , 2007, 3, 66-71.	0.3	1
47	Serum Folliculin Is Related to Lower Pulmonary Function in Patients With Asthma. <i>Allergy, Asthma and Immunology Research</i> , 2021, 13, 822.	2.9	1