Ilona Jaspers

List of Publications by Year
in descending order

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107 papers	5,937 citations	76196 40 h-index	82410 72 g-index
109 all docs	109 docs citations	109 times ranked	9737 citing authors

#	Article	IF	Citations
1	SARS-CoV-2 Reverse Genetics Reveals a Variable Infection Gradient in the Respiratory Tract. Cell, 2020, 182, 429-446.e14.	13.5	1,257
2	Air Pollution and Respiratory Viral Infection. Inhalation Toxicology, 2007, 19, 1135-1146.	0.8	353
3	E-Cigarette Use Causes a Unique Innate Immune Response in the Lung, Involving Increased Neutrophilic Activation and Altered Mucin Secretion. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 492-501.	2.5	263
4	E-cigarette use results in suppression of immune and inflammatory-response genes in nasal epithelial cells similar to cigarette smoke. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L135-L144.	1.3	187
5	Flavored e-cigarette liquids and cinnamaldehyde impair respiratory innate immune cell function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L278-L292.	1.3	172
6	Disruption of MicroRNA Expression in Human Airway Cells by Diesel Exhaust Particles Is Linked to Tumorigenesis-Associated Pathways. Environmental Health Perspectives, 2009, 117, 1745-1751.	2.8	156
7	Diesel Exhaust Enhances Influenza Virus Infections in Respiratory Epithelial Cells. Toxicological Sciences, 2005, 85, 990-1002.	1.4	148
8	Nrf2 expression modifies influenza A entry and replication in nasal epithelial cells. Free Radical Biology and Medicine, 2011, 51, 444-453.	1.3	142
9	Electronic Cigarettes: Their Constituents and Potential Links to Asthma. Current Allergy and Asthma Reports, 2017, 17, 79.	2.4	139
10	Cinnamaldehyde in flavored e-cigarette liquids temporarily suppresses bronchial epithelial cell ciliary motility by dysregulation of mitochondrial function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L470-L486.	1.3	128
11	E-cigarette use and respiratory disorders: an integrative review of converging evidence from epidemiological and laboratory studies. European Respiratory Journal, 2021, 57, 1901815.	3.1	106
12	Culturing of Human Nasal Epithelial Cells at the Air Liquid Interface. Journal of Visualized Experiments, 2013, , .	0.2	100
13	Hydrogen Peroxide Has Opposing Effects on IKK Activity and I Î° B Î± Breakdown in Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2001, 24, 769-777.	1.4	92
14	Exposure to Ozone Modulates Human Airway Protease/Antiprotease Balance Contributing to Increased Influenza A Infection. PLoS ONE, 2012, 7, e35108.	1.1	84
15	Effects of 1,3-Butadiene, Isoprene, and Their Photochemical Degradation Products on Human Lung Cells. Environmental Health Perspectives, 2004, 112, 1488-1495.	2.8	80
16	Air toxics and epigenetic effects: ozone altered microRNAs in the sputum of human subjects. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L1129-L1137.	1.3	75
17	Photochemical Products in Urban Mixtures Enhance Inflammatory Responses in Lung Cells. Inhalation Toxicology, 2004, 16, 107-114.	0.8	68
18	Reduced Expression of IRF7 in Nasal Epithelial Cells from Smokers after Infection with Influenza. American Journal of Respiratory Cell and Molecular Biology, 2010, 43, 368-375.	1.4	61

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19	Ultrafine carbon particles induce interleukin-8 gene transcription and p38 MAPK activation in normal human bronchial epithelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 288, L432-L441.	1.3	60
20	Isoprene-Derived Secondary Organic Aerosol Induces the Expression of Oxidative Stress Response Genes in Human Lung Cells. Environmental Science and Technology Letters, 2016, 3, 250-254.	3.9	60
21	Vanadium-Induced Îº B-Dependent Transcription Depends upon Peroxide-Induced Activation of the p38 Mitogen-Activated Protein Kinase. American Journal of Respiratory Cell and Molecular Biology, 2000, 23, 95-102.	1.4	57
22	In Vitro Exposures in Diesel Exhaust Atmospheres: Resuspension of PM from Filters versus Direct Deposition of PM from Air. Environmental Science & Technology, 2012, 46, 9062-9070.	4.6	57
23	Arsenite Exposure of Cultured Airway Epithelial Cells Activates ÎºB-dependent Interleukin-8 Gene Expression in the Absence of Nuclear Factor-ÎºB Nuclear Translocation. Journal of Biological Chemistry, 1999, 274, 31025-31033.	1.6	56
24	Increased nasal epithelial ciliary beat frequency associated with lifestyle tobacco smoke exposure. Inhalation Toxicology, 2009, 21, 875-881.	0.8	56
25	Role of Ras in metal-induced EGF receptor signaling and NF-ÎºB activation in human airway epithelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 282, L1040-L1048.	1.3	55
26	Respiratory protease/antiprotease balance determines susceptibility to viral infection and can be modified by nutritional antioxidants. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L1189-L1201.	1.3	55
27	Modulation of pulmonary inflammatory responses and antimicrobial defenses in mice exposed to diesel exhaust. Toxicology and Applied Pharmacology, 2008, 229, 310-319.	1.3	54
28	Tobacco Smoke Exposure and Altered Nasal Responses to Live Attenuated Influenza Virus. Environmental Health Perspectives, 2011, 119, 78-83.	2.8	54
29	E-Cigarette Toxicology. Annual Review of Pharmacology and Toxicology, 2022, 62, 301-322.	4.2	54
30	Gene Expression Profiling in Human Lung Cells Exposed to Isoprene-Derived Secondary Organic Aerosol. Environmental Science & Technology, 2017, 51, 8166-8175.	4.6	53
31	New Approach Methods to Evaluate Health Risks of Air Pollutants: Critical Design Considerations for In Vitro Exposure Testing. International Journal of Environmental Research and Public Health, 2020, 17, 2124.	1.2	51
32	Common E-Cigarette Flavoring Chemicals Impair Neutrophil Phagocytosis and Oxidative Burst. Chemical Research in Toxicology, 2019, 32, 982-985.	1.7	50
33	Influenza enhances caspase-1 in bronchial epithelial cells from asthmatic volunteers and is associated with pathogenesis. Journal of Allergy and Clinical Immunology, 2012, 130, 958-967.e14.	1.5	46
34	Cigarette Smoke Effects on Innate Immune Mechanisms in the Nasal Mucosa. Potential Effects on the Microbiome. Annals of the American Thoracic Society, 2014, 11, S38-S42.	1.5	46
35	Effect of Broccoli Sprouts and Live Attenuated Influenza Virus on Peripheral Blood Natural Killer Cells: A Randomized, Double-Blind Study. PLoS ONE, 2016, 11, e0147742.	1.1	46
36	Wood Smoke Exposure Alters Human Inflammatory Responses to Viral Infection in a Sex-Specific Manner. A Randomized, Placebo-controlled Study. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 996-1007.	2.5	46

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37	Diesel Exhaust Exposure and Nasal Response to Attenuated Influenza in Normal and Allergic Volunteers. American Journal of Respiratory and Critical Care Medicine, 2012, 185, 179-185.	2.5	45
38	Danger in the vapor? ECMO for adolescents with status asthmaticus after vaping. Journal of Asthma, 2020, 57, 1168-1172.	0.9	44
39	Assessment of biological responses of EpiAirway 3-D cell constructs versus A549 cells for determining toxicity of ambient air pollution. Inhalation Toxicology, 2016, 28, 251-259.	0.8	43
40	Diesel exhaust enhances virus- and poly(I:C)-induced Toll-like receptor 3 expression and signaling in respiratory epithelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 290, L1154-L1163.	1.3	42
41	Novel applications for a noninvasive sampling method of the nasal mucosa. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 312, L288-L296.	1.3	42
42	Electronic-Cigarette Use Alters Nasal Mucosal Immune Response to Live-attenuated Influenza Virus. A Clinical Trial. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 126-137.	1.4	41
43	Nasal lavage natural killer cell function is suppressed in smokers after live attenuated influenza virus. Respiratory Research, 2011, 12, 102.	1.4	39
44	Epithelial Cells from Smokers Modify Dendritic Cell Responses in the Context of Influenza Infection. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 237-245.	1.4	39
45	In Vitro Toxicity and Chemical Characterization of Aerosol Derived from Electronic Cigarette Humectants Using a Newly Developed Exposure System. Chemical Research in Toxicology, 2020, 33, 1677-1688.	1.7	39
46	Mixtures modeling identifies chemical inducers versus repressors of toxicity associated with wildfire smoke. Science of the Total Environment, 2021, 775, 145759.	3.9	37
47	Transcription factor activation following exposure of an intact lung preparation to metallic particulate matter.. Environmental Health Perspectives, 2002, 110, 985-990.	2.8	36
48	Effect of Broccoli Sprouts on Nasal Response to Live Attenuated Influenza Virus in Smokers: A Randomized, Double-Blind Study. PLoS ONE, 2014, 9, e98671.	1.1	36
49	Diesel Exhaust Enhanced Susceptibility to Influenza Infection is Associated with Decreased Surfactant Protein Expression. Inhalation Toxicology, 2007, 19, 1121-1133.	0.8	35
50	Role of oxidative stress on diesel-enhanced influenza infection in mice. Particle and Fibre Toxicology, 2010, 7, 34.	2.8	34
51	GSTM1 modulation of IL-8 expression in human bronchial epithelial cells exposed to ozone. Free Radical Biology and Medicine, 2011, 51, 522-529.	1.3	34
52	Temporal structure/function variation in cultured differentiated human nasal epithelium associated with acute single exposure to tobacco smoke or E-cigarette vapor. Inhalation Toxicology, 2017, 29, 137-144.	0.8	34
53	Interaction with Epithelial Cells Modifies Airway Macrophage Response to Ozone. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 285-294.	1.4	33
54	An Allergic Lung Microenvironment Suppresses Carbon Nanotube-Induced Inflammasome Activation via STAT6-Dependent Inhibition of Caspase-1. PLoS ONE, 2015, 10, e0128888.	1.1	32

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55	Association between early airway damage-associated molecular patterns and subsequent bacterial infection in patients with inhalational and burn injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L855-L860.	1.3	31
56	Diesel exhaust particles modify natural killer cell function and cytokine release. Particle and Fibre Toxicology, 2013, 10, 16.	2.8	30
57	Live attenuated influenza vaccine strains elicit a greater innate immune response than antigenically-matched seasonal influenza viruses during infection of human nasal epithelial cell cultures. Vaccine, 2014, 32, 1761-1767.	1.7	28
58	Zn2+-induced NF-Î²B-dependent transcriptional activity involves site-specific p65/RelA phosphorylation. Cellular Signalling, 2007, 19, 538-546.	1.7	27
59	Live Attenuated Influenza Virus (LAIV) induces different mucosal T cell function in nonsmokers and smokers. Clinical Immunology, 2012, 142, 232-236.	1.4	27
60	Superoxide-Dependent Iron Uptake. American Journal of Respiratory Cell and Molecular Biology, 2003, 29, 653-660.	1.4	26
61	DNA methylation in nasal epithelial cells from smokers: identification of ULBP3-related effects. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L432-L438.	1.3	26
62	Exacerbation of allergic inflammation in mice exposed to diesel exhaust particles prior to viral infection. Particle and Fibre Toxicology, 2009, 6, 22.	2.8	24
63	The Gillings Sampler â€“ An electrostatic air sampler as an alternative method for aerosol in vitro exposure studies. Chemico-Biological Interactions, 2014, 220, 158-168.	1.7	23
64	Ozone-derived Oxysterols Affect Liver X Receptor (LXR) Signaling. Journal of Biological Chemistry, 2016, 291, 25192-25206.	1.6	23
65	Epithelial cells, the "switchboard" of respiratory immune defense responses: effects of air pollutants. Swiss Medical Weekly, 2012, 142, w13653.	0.8	23
66	Ozone exposed epithelial cells modify cocultured natural killer cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L332-L341.	1.3	22
67	Impact of inhaled pollutants on response to viral infection in controlled exposures. Journal of Allergy and Clinical Immunology, 2021, 148, 1420-1429.	1.5	22
68	Localization of Type I Interferon Receptor Limits Interferon-Induced TLR3 in Epithelial Cells. Journal of Interferon and Cytokine Research, 2009, 29, 289-297.	0.5	21
69	Alteration of the nasal responses to influenza virus by tobacco smoke. Current Opinion in Allergy and Clinical Immunology, 2012, 12, 24-31.	1.1	21
70	Sulforaphane induces SLPI secretion in the nasal mucosa. Respiratory Medicine, 2013, 107, 472-475.	1.3	21
71	Current E-Cigarette Research in the Context of Asthma. Current Allergy and Asthma Reports, 2020, 20, 62.	2.4	21
72	Differential responses to e-cig generated aerosols from humectants and different forms of nicotine in epithelial cells from nonsmokers and smokers. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L1064-L1073.	1.3	19

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73	Associations of short-term PM2.5 exposures with nasal oxidative stress, inflammation and lung function impairment and modification by GSTT1-null genotype: A panel study of the retired adults. Environmental Pollution, 2021, 285, 117215.	3.7	19
74	E-Cigarette Flavoring Chemicals Induce Cytotoxicity in HepG2 Cells. ACS Omega, 2021, 6, 6708-6713.	1.6	17
75	Distinguishing Human Peripheral Blood NK Cells from CD56dimCD16dimCD69+CD103+ Resident Nasal Mucosal Lavage Fluid Cells. Scientific Reports, 2018, 8, 3394.	1.6	16
76	Phenotypic and physiologic variability in nasal epithelium cultured from smokers and non-smokers exposed to secondhand tobacco smoke. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 606-612.	0.7	15
77	Diesel exposure suppresses natural killer cell function and resolution of eosinophil inflammation: a randomized controlled trial of exposure in allergic rhinitics. Particle and Fibre Toxicology, 2015, 13, 24.	2.8	15
78	Wildfires and extracellular vesicles: Exosomal MicroRNAs as mediators of cross-tissue cardiopulmonary responses to biomass smoke. Environment International, 2022, 167, 107419.	4.8	14
79	Nanodiamond particles induce I1-8 expression through a transcript stabilization mechanism in human airway epithelial cells. Nanotoxicology, 2009, 3, 152-160.	1.6	13
80	E-cigarettes, vaping-related pulmonary illnesses, and asthma: AÂperspective from inhalation toxicologists. Journal of Allergy and Clinical Immunology, 2020, 145, 97-99.	1.5	13
81	Chemistry, lung toxicity and mutagenicity of burn pit smoke-related particulate matter. Particle and Fibre Toxicology, 2021, 18, 45.	2.8	13
82	Regulation and activity of secretory leukoprotease inhibitor (SLPI) is altered in smokers. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L269-L276.	1.3	11
83	Ozone-derived oxysterols impair lung macrophage phagocytosis via adduction of some phagocytosis receptors. Journal of Biological Chemistry, 2020, 295, 12727-12738.	1.6	11
84	Woodsmoke particle exposure prior to SARS-CoV-2 infection alters antiviral response gene expression in human nasal epithelial cells in a sex-dependent manner. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L479-L494.	1.3	10
85	A comparison of three dispersion media on the physicochemical and toxicological behavior of TiO2 and NiO nanoparticles. Chemico-Biological Interactions, 2015, 236, 74-81.	1.7	9
86	Biomarkers of Airway Immune Homeostasis Differ Significantly with Generation of E-Cigarettes. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 1248-1258.	2.5	9
87	Pilot Study to Detect Genes Involved in DNA Damage and Cancer in Humans: Potential Biomarkers of Exposure to E-Cigarette Aerosols. Genes, 2021, 12, 448.	1.0	8
88	Impact of E-Cigarette Liquid Flavoring Agents on Activity of Microsomal Recombinant CYP2A6, the Primary Nicotine-Metabolizing Enzyme. Chemical Research in Toxicology, 2020, 33, 1689-1697.	1.7	6
89	Electronic Cigarettes and Their Impact on Allergic Respiratory Diseases: A Work Group Report of the AAAAI Environmental Exposures and Respiratory Health Committee. Journal of Allergy and Clinical Immunology: in Practice, 2021, 9, 1142-1151.	2.0	6
90	Oxysterols Modify NLRP2 in Epithelial Cells, Identifying a Mediator of Ozone-induced Inflammation. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 500-512.	1.4	5

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91	Phenotypic Modification of Human Airway Epithelial Cells in Airâ€“Liquid Interface Culture Induced by Exposure to the Tobacco-Specific Nitrosamine 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK). Ultrastructural Pathology, 2015, 39, 104-109.	0.4	4
92	Radiolabeling an Electronic Cigarette Aerosol Using Technetium Carbon Ultrafine Particles. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2019, 32, 47-53.	0.7	4
93	Identification of an ATP/P2X7/mast cell pathway mediating ozone-induced bronchial hyperresponsiveness. JCI Insight, 2021, 6, .	2.3	4
94	Carcinogenic biomarkers of exposure in the urine of heated tobacco product users associated with bladder cancer: A systematic review. Urologic Oncology: Seminars and Original Investigations, 2021, , .	0.8	4
95	Cytokine signature clusters as a tool to compare changes associated with tobacco product use in upper and lower airway samples. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L722-L736.	1.3	4
96	Development of the InTelligence And Machine LEarning (TAME) Toolkit for Introductory Data Science, Chemical-Biological Analyses, Predictive Modeling, and Database Mining for Environmental Health Research. Frontiers in Toxicology, 0, 4, .	1.6	4
97	Interleukin-13 stimulates production of nitric oxide in cultured human nasal epithelium. In Vitro Cellular and Developmental Biology - Animal, 2018, 54, 200-204.	0.7	3
98	Small Molecule Antipsychotic Aripiprazole Potentiates Ozone-Induced Inflammation in Airway Epithelium. Chemical Research in Toxicology, 2019, 32, 1997-2005.	1.7	3
99	Cannabinoid Vaping Products Present Novel Challenges for Assessment of Respiratory Health Effects. Toxicological Sciences, 2022, 188, 1-3.	1.4	3
100	Compliance in Controlled E-cigarette Studies. Nicotine and Tobacco Research, 2021, 23, 614-618.	1.4	2
101	Policy Recommendations to Eliminate Tobacco Use and Improve Health from the American Thoracic Society Tobacco Action Committee. Annals of the American Thoracic Society, 2021, , .	1.5	2
102	Evolving chemical landscape of e-cigarettes, 2021. Tobacco Control, 2021, , tobaccocontrol-2021-056808.	1.8	1
103	The Nose Knows: Sniffing out the Unique Immunological Risk of Alternative Tobacco Products. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 461-464.	1.4	1
104	Response to comments by Emma et al.. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L526-L526.	1.3	0
105	Wildfire exposure {in utero} and use of respiratory medications in early childhood. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
106	Lower natural killer cell cytotoxicity in smokers may be mediated by epithelial cells. FASEB Journal, 2013, 27, 645.1.	0.2	0
107	Siteâ€specific detection and differential levels of immune mediators in the sinonasal mucosa. International Forum of Allergy and Rhinology, 2023, 13, 80-84.	1.5	0