Jaroslaw W Zmijewski

List of Publications by Year
in descending order

67	4,928	81900	102487
papers	citations	39 h-index	66 g-index

69	69	69	8022
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metformin reverses established lung fibrosis in a bleomycin model. Nature Medicine, 2018, 24, 1121-1127.	30.7	411
2	HMGB1 Develops Enhanced Proinflammatory Activity by Binding to Cytokines. Journal of Immunology, 2008, 180, 2531-2537.	0.8	353
3	Exposure to Hydrogen Peroxide Induces Oxidation and Activation of AMP-activated Protein Kinase*. Journal of Biological Chemistry, 2010, 285, 33154-33164.	3.4	333
4	Activation of AMPK attenuates neutrophil proinflammatory activity and decreases the severity of acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L497-L504.	2.9	281
5	HMGB1 promotes neutrophil extracellular trap formation through interactions with Toll-like receptor 4. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L342-L349.	2.9	269
6	Novel Mechanisms for the Antifibrotic Action of Nintedanib. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 51-59.	2.9	163
7	Mitochondrial Respiratory Complex I Regulates Neutrophil Activation and Severity of Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2008, 178, 168-179.	5.6	150
8	Metabolic Reprogramming Is Required for Myofibroblast Contractility and Differentiation. Journal of Biological Chemistry, 2015, 290, 25427-25438.	3.4	140
9	Impaired efferocytosis and neutrophil extracellular trap clearance by macrophages in ARDS. European Respiratory Journal, 2018, 52, 1702590.	6.7	132
10	Melatonin, mitochondria, and the skin. Cellular and Molecular Life Sciences, 2017, 74, 3913-3925.	5.4	131
11	PAI-1 inhibits neutrophil efferocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11784-11789.	7.1	127
12	Oxidized LDL induces mitochondrially associated reactive oxygen/nitrogen species formation in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H852-H861.	3.2	122
13	AMPâ€activated protein kinase enhances the phagocytic ability of macrophages and neutrophils. FASEB Journal, 2011, 25, 4358-4368.	0.5	113
14	Photoprotective Properties of Vitamin D and Lumisterol Hydroxyderivatives. Cell Biochemistry and Biophysics, 2020, 78, 165-180.	1.8	113
15	Participation of Mammalian Target of Rapamycin Complex 1 in Toll-Like Receptor 2â€“ and 4â€“Induced Neutrophil Activation and Acute Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2009, 41, 237-245.	2.9	108
16	SIRT3 diminishes inflammation and mitigates endotoxin-induced acute lung injury. JCI Insight, 2019, 4, .	5.0	105
17	Antiinflammatory Effects of Hydrogen Peroxide in Neutrophil Activation and Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 694-704.	5.6	89
18	Activation of AMPK Enhances Neutrophil Chemotaxis and Bacterial Killing. Molecular Medicine, 2013, 19, 387-398.	4.4	87

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19	Human Resistin Promotes Neutrophil Proinflammatory Activation and Neutrophil Extracellular Trap Formation and Increases Severity of Acute Lung Injury. Journal of Immunology, 2014, 192, 4795-4803.	0.8	87
20	Activation of Mitogen-Activated Protein Kinases by Lysophosphatidylcholine-Induced Mitochondrial Reactive Oxygen Species Generation in Endothelial Cells. American Journal of Pathology, 2006, 168, 1737-1748.	3.8	86
21	Enhancement of Antitumor Immunity in Lung Cancer by Targeting Myeloid-Derived Suppressor Cell Pathways. Cancer Research, 2013, 73, 6609-6620.	0.9	75
22	Metformin-stimulated AMPK-Î±1 promotes microvascular repair in acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L844-L855.	2.9	72
23	Role of extracellular superoxide in neutrophil activation: interactions between xanthine oxidase and TLR4 induce proinflammatory cytokine production. American Journal of Physiology - Cell Physiology, 2008, 294, C985-C993.	4.6	71
24	GSK3Î²-dependent inhibition of AMPK potentiates activation of neutrophils and macrophages and enhances severity of acute lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L735-L745.	2.9	67
25	Indoleamine 2,3-dioxygenase regulates anti-tumor immunity in lung cancer by metabolic reprogramming of immune cells in the tumor microenvironment. Oncotarget, 2016, 7, 75407-75424.	1.8	66
26	Toll-Like Receptor 4 Engagement Inhibits Adenosine 5â€²-Monophosphate-Activated Protein Kinase Activation through a High Mobility Group Box 1 Protein-Dependent Mechanism. Molecular Medicine, 2012, 18, 659-668.	4.4	61
27	Intracellular HMGB1 Negatively Regulates Efferocytosis. Journal of Immunology, 2011, 187, 4686-4694.	0.8	60
28	The matricellular protein CCN1 enhances TGFâ€Î²1/SMAD3â€dependent profibrotic signaling in fibroblasts and contributes to fibrogenic responses to lung injury. FASEB Journal, 2016, 30, 2135-2150.	0.5	60
29	Exposure to hydrogen peroxide diminishes NF-ÎºB activation, IÎºB-Î± degradation, and proteasome activity in neutrophils. American Journal of Physiology - Cell Physiology, 2007, 293, C255-C266.	4.6	59
30	Differential activation of RAGE by HMGB1 modulates neutrophil-associated NADPH oxidase activity and bacterial killing. American Journal of Physiology - Cell Physiology, 2012, 302, C249-C256.	4.6	56
31	S-Glutathionylation of the Rpn2 Regulatory Subunit Inhibits 26 S Proteasomal Function. Journal of Biological Chemistry, 2009, 284, 22213-22221.	3.4	55
32	Mitochondria and AMP-activated Protein Kinase-dependent Mechanism of Efferocytosis. Journal of Biological Chemistry, 2013, 288, 26013-26026.	3.4	55
33	Frontline Science: HMGB1 induces neutrophil dysfunction in experimental sepsis and in patients who survive septic shock. Journal of Leukocyte Biology, 2017, 101, 1281-1287.	3.3	55
34	Participation of mitochondrial respiratory complex III in neutrophil activation and lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L624-L634.	2.9	53
35	AMP-Activated Protein Kinase and Glycogen Synthase Kinase 3Î² Modulate the Severity of Sepsis-induced Lung injury. Molecular Medicine, 2015, 21, 937-950.	4.4	50
36	Metformin: Experimental and Clinical Evidence for a Potential Role in Emphysema Treatment. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 651-666.	5.6	49

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37	Frontline Science: D1 dopaminergic receptor signaling activates the AMPK-bioenergetic pathway in macrophages and alveolar epithelial cells and reduces endotoxin-induced ALI. Journal of Leukocyte Biology, 2017, 101, 357-365.	3.3	47
38	Interaction of the Cell Adhesion Molecule CHL1 with Vitronectin, Integrins, and the Plasminogen Activator Inhibitor-2 Promotes CHL1-Induced Neurite Outgrowth and Neuronal Migration. Journal of Neuroscience, 2014, 34, 14606-14623.	3.6	45
39	HMGB1 Accelerates Alveolar Epithelial Repair via an IL-1Î²- and Î±vÎ²6 Integrin-dependent Activation of TGF-Î²1. PLoS ONE, 2013, 8, e63907.	2.5	43
40	Mitochondrial Dysfunction and Immune Cell Metabolism in Sepsis. Infection and Chemotherapy, 2017, 49, 10.	2.3	40
41	Inhibition of neutrophil apoptosis by PAI-1. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L247-L254.	2.9	35
42	Participation of proteasome-ubiquitin protein degradation in autophagy and the activation of AMP-activated protein kinase. Cellular Signalling, 2015, 27, 1186-1197.	3.6	33
43	Restoration of SIRT3 gene expression by airway delivery resolves age-associated persistent lung fibrosis in mice. Nature Aging, 2021, 1, 205-217.	11.6	32
44	Vitronectin Inhibits Neutrophil Apoptosis through Activation of Integrin-Associated Signaling Pathways. American Journal of Respiratory Cell and Molecular Biology, 2012, 46, 790-796.	2.9	31
45	Vitronectin Inhibits Efferocytosis through Interactions with Apoptotic Cells as well as with Macrophages. Journal of Immunology, 2013, 190, 2273-2281.	0.8	27
46	Subsets of airway myeloid-derived regulatory cells distinguish mild asthma from chronic obstructive pulmonary disease. Journal of Allergy and Clinical Immunology, 2015, 135, 413-424.e15.	2.9	25
47	Modulation of SCFÎ²-TrCP-dependent IÎºBÎ± Ubiquitination by Hydrogen Peroxide. Journal of Biological Chemistry, 2010, 285, 2665-2675.	3.4	24
48	NETosis in the pathogenesis of acute lung injury following cutaneous chemical burns. JCI Insight, 2021, 6, .	5.0	24
49	Elevated levels of NO are localized to distal airways in asthma. Free Radical Biology and Medicine, 2011, 50, 1679-1688.	2.9	20
50	N-cadherin coordinates AMP kinase-mediated lung vascular repair. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L71-L85.	2.9	14
51	Heat-shock Response Increases Lung Injury Caused byPseudomonas aeruginosa viaan Interleukin-10-dependent Mechanism in Mice. Anesthesiology, 2014, 120, 1450-1462.	2.5	13
52	Beneficial effects of citrulline enteral administration on sepsis-induced T cell mitochondrial dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	13
53	Generation of Reactive Oxygen Species Mediated by 1-Hydroxyphenazine, a Virulence Factor of Pseudomonas aeruginosa. Chemical Research in Toxicology, 2015, 28, 175-181.	3.3	12
54	AMPK activates Parkin independent autophagy and improves post sepsis immune defense against secondary bacterial lung infections. Scientific Reports, 2021, 11, 12387.	3.3	12

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55	Oxidative cross-linking of fibronectin confers protease resistance and inhibits cellular migration. Science Signaling, 2020, 13, .	3.6	8
56	Protective role of HOâ€1 against acute kidney injury caused by cutaneous exposure to arsenicals. Annals of the New York Academy of Sciences, 2020, 1480, 155-169.	3.8	8
57	ZKSCAN3 in severe bacterial lung infection and sepsis-induced immunosuppression. Laboratory Investigation, 2021, 101, 1467-1474.	3.7	8
58	Modification of lipids by reactive oxygen and nitrogen species: the oxyâ€“nitroxyâ€“lipidome and its role in redox cell signaling. Future Lipidology, 2006, 1, 203-211.	0.5	7
59	Exposure to cigarette smoke impacts myeloid-derived regulatory cell function and exacerbates airway hyper-responsiveness. Laboratory Investigation, 2014, 94, 1312-1325.	3.7	6
60	Human Leukocyte Antigen-DR Deficiency and Immunosuppression-Related End-Organ Failure in SARS-CoV2 Infection. Anesthesia and Analgesia, 2020, 131, 989-992.	2.2	6
61	Bioenergetic maladaptation and release of HMGB1 in calcineurin inhibitor-mediated nephrotoxicity. American Journal of Transplantation, 2021, 21, 2964-2977.	4.7	6
62	NOX2 decoy peptides disrupt trauma-mediated neutrophil immunosuppression and protect against lethal peritonitis. Redox Biology, 2020, 36, 101651.	9.0	5
63	Differential and Overlapping Effects of Melatonin and Its Metabolites on Keratinocyte Function: Bioinformatics and Metabolic Analyses. Antioxidants, 2021, 10, 618.	5.1	5
64	Lysophosphatidylcholineâ€induced mitochondrial ROS formation and activation of AMPK promote macrophage chemotaxis and efferocytosis. FASEB Journal, 2013, 27, 254.10.	0.5	1
65	Mitochondrial Uncoupling Proteinâ€2 Drives Fibroblast Senescence in Ageâ€Related Lung Fibrosis by Altering Bioenergetics and Reactive Oxygen Species. FASEB Journal, 2020, 34, 1-1.	0.5	1
66	Exposure to Cigarette Smoke Impacts Myeloid-Derived Regulatory Cell Function and Exacerbates Airway Hyper-Responsiveness. Journal of Allergy and Clinical Immunology, 2013, 131, AB61.	2.9	0
67	Mitochondrial Uncoupling Proteinâ€2 and Fibroblast Senescence in Ageâ€Related Lung Fibrosis. FASEB Journal, 2019, 33, 543.6.	0.5	0