

Wolfgang G Junger

List of Publications by Citations

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107
papers

8,471
citations

44
h-index

91
g-index

113
ext. papers

9,774
ext. citations

6.4
avg, IF

5.95
L-index

#	Paper	IF	Citations
107	Circulating mitochondrial DAMPs cause inflammatory responses to injury. <i>Nature</i> , 2010 , 464, 104-7	50.4	2358
106	ATP release guides neutrophil chemotaxis via P2Y2 and A3 receptors. <i>Science</i> , 2006 , 314, 1792-5	33.3	639
105	Immune cell regulation by autocrine purinergic signalling. <i>Nature Reviews Immunology</i> , 2011 , 11, 201-12	36.5	546
104	Pannexin-1 hemichannel-mediated ATP release together with P2X1 and P2X4 receptors regulate T-cell activation at the immune synapse. <i>Blood</i> , 2010 , 116, 3475-84	2.2	219
103	Autocrine regulation of T-cell activation by ATP release and P2X7 receptors. <i>FASEB Journal</i> , 2009 , 23, 1685-93	0.9	213
102	CD39 Expression Identifies Terminally Exhausted CD8+ T Cells. <i>PLoS Pathogens</i> , 2015 , 11, e1005177	7.6	183
101	Negative feedback control of neuronal activity by microglia. <i>Nature</i> , 2020 , 586, 417-423	50.4	179
100	Hypertonic saline resuscitation diminishes lung injury by suppressing neutrophil activation after hemorrhagic shock. <i>Shock</i> , 1998 , 9, 164-70	3.4	169
99	Hypertonic saline resuscitation decreases susceptibility to sepsis after hemorrhagic shock. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997 , 42, 602-6; discussion 606-7	9.4	154
98	HYPERTONIC SALINE RESUSCITATION. <i>Shock</i> , 1997 , 8, 235-241	3.4	152
97	Mice lacking P2Y2 receptors have salt-resistant hypertension and facilitated renal Na ⁺ and water reabsorption. <i>FASEB Journal</i> , 2007 , 21, 3717-26	0.9	147
96	Purinergic signaling: a fundamental mechanism in neutrophil activation. <i>Science Signaling</i> , 2010 , 3, ra45	8.8	142
95	Abandon the mouse research ship? Not just yet!. <i>Shock</i> , 2014 , 41, 463-75	3.4	111
94	Hypertonic saline resuscitation restores hemorrhage-induced immunosuppression by decreasing prostaglandin E2 and interleukin-4 production. <i>Journal of Surgical Research</i> , 1996 , 64, 203-9	2.5	111
93	Shock wave treatment enhances cell proliferation and improves wound healing by ATP release-coupled extracellular signal-regulated kinase (ERK) activation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 27090-27104	5.4	103
92	Shockwaves induce osteogenic differentiation of human mesenchymal stem cells through ATP release and activation of P2X7 receptors. <i>Stem Cells</i> , 2013 , 31, 1170-80	5.8	93
91	Ecto-nucleoside triphosphate diphosphohydrolase 1 (E-NTPDase1/CD39) regulates neutrophil chemotaxis by hydrolyzing released ATP to adenosine. <i>Journal of Biological Chemistry</i> , 2008 , 283, 28480-6	5.4	91

90	Hypertonic stress increases T cell interleukin-2 expression through a mechanism that involves ATP release, P2 receptor, and p38 MAPK activation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 4590-6	5.4	91
89	Hypertonic saline resuscitation reduces neutrophil margination by suppressing neutrophil L selectin expression. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1998 , 45, 7-12; discussion 12-3	9.4	85
88	Measurement of oxidative burst in neutrophils. <i>Methods in Molecular Biology</i> , 2012 , 844, 115-24	1.4	78
87	A3 and P2Y2 receptors control the recruitment of neutrophils to the lungs in a mouse model of sepsis. <i>Shock</i> , 2008 , 30, 173-7	3.4	77
86	P2X7 integrates PI3K/AKT and AMPK-PRAS40-mTOR signaling pathways to mediate tumor cell death. <i>PLoS ONE</i> , 2013 , 8, e60184	3.7	73
85	Mitochondria regulate neutrophil activation by generating ATP for autocrine purinergic signaling. <i>Journal of Biological Chemistry</i> , 2014 , 289, 26794-26803	5.4	72
84	Hypertonic saline resuscitation reduces apoptosis and tissue damage of the small intestine in a mouse model of hemorrhagic shock. <i>Shock</i> , 2003 , 20, 23-8	3.4	72
83	A putative osmoreceptor system that controls neutrophil function through the release of ATP, its conversion to adenosine, and activation of A2 adenosine and P2 receptors. <i>Journal of Leukocyte Biology</i> , 2004 , 76, 245-53	6.5	72
82	Effect of dose of hypertonic saline on its potential to prevent lung tissue damage in a mouse model of hemorrhagic shock. <i>Shock</i> , 2003 , 20, 29-34	3.4	71
81	Purinergic P2X4 receptors and mitochondrial ATP production regulate T cell migration. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3583-3594	15.9	71
80	Pannexin 1 channels link chemoattractant receptor signaling to local excitation and global inhibition responses at the front and back of polarized neutrophils. <i>Journal of Biological Chemistry</i> , 2013 , 288, 22650-7	5.4	70
79	Hypertonic stress regulates T cell function via pannexin-1 hemichannels and P2X receptors. <i>Journal of Leukocyte Biology</i> , 2010 , 88, 1181-9	6.5	70
78	mTOR and differential activation of mitochondria orchestrate neutrophil chemotaxis. <i>Journal of Cell Biology</i> , 2015 , 210, 1153-64	7.3	68
77	A novel method using fluorescence microscopy for real-time assessment of ATP release from individual cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C1420-5	5.4	67
76	Osmotic regulation of cell function and possible clinical applications. <i>Shock</i> , 2004 , 21, 391-400	3.4	65
75	Mitochondria are gate-keepers of T cell function by producing the ATP that drives purinergic signaling. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25936-45	5.4	64
74	Disordered purinergic signaling and abnormal cellular metabolism are associated with development of liver cancer in Cd39/ENTPD1 null mice. <i>Hepatology</i> , 2013 , 57, 205-16	11.2	63
73	Deletion of CD39 on natural killer cells attenuates hepatic ischemia/reperfusion injury in mice. <i>Hepatology</i> , 2010 , 51, 1702-11	11.2	59

72	Hypertonicity rescues T cells from suppression by trauma-induced anti-inflammatory mediators. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 281, C840-8	5-4	57
71	Small-volume fluid resuscitation with hypertonic saline prevents inflammation but not mortality in a rat model of hemorrhagic shock. <i>Shock</i> , 2006 , 25, 283-9	3-4	56
70	Acute lung injury in endotoxemic rats is associated with sustained circulating IL-6 levels and intrapulmonary CINC activity and neutrophil recruitment--role of circulating TNF-alpha and IL-beta?. <i>Shock</i> , 1996 , 6, 39-45	3-4	55
69	Resuscitation of traumatic hemorrhagic shock patients with hypertonic saline-without dextran-inhibits neutrophil and endothelial cell activation. <i>Shock</i> , 2012 , 38, 341-50	3-4	53
68	Hypertonic/hyperoncotic fluids reverse prostaglandin E2 (PGE2)-induced T-cell suppression. <i>Shock</i> , 1995 , 4, 45-9	3-4	53
67	Pentoxifylline reduces acute lung injury in chronic endotoxemia. <i>Journal of Surgical Research</i> , 2003 , 115, 92-9	2-5	51
66	Purinergic regulation of neutrophil chemotaxis. <i>Cellular and Molecular Life Sciences</i> , 2008 , 65, 2528-40	10-3	48
65	HYPERTONIC SALINE INFUSION. <i>Shock</i> , 2000 , 14, 503-508	3-4	47
64	NADH oxidase-dependent CD39 expression by CD8(+) T cells modulates interferon gamma responses via generation of adenosine. <i>Nature Communications</i> , 2015 , 6, 8819	17-4	46
63	Hypertonicity increases cAMP in PMN and blocks oxidative burst by PKA-dependent and -independent mechanisms. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C1261-9	5-4	43
62	Does the timing of hypertonic saline resuscitation affect its potential to prevent lung damage?. <i>Shock</i> , 2000 , 14, 18-23	3-4	43
61	Hypertonic saline activates protein tyrosine kinases and mitogen-activated protein kinase p38 in T-cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997 , 42, 437-43; discussion 443-5	9-4	42
60	Shockwaves increase T-cell proliferation and IL-2 expression through ATP release, P2X7 receptors, and FAK activation. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 298, C457-64	5-4	40
59	Surface expression of HSP72 by LPS-stimulated neutrophils facilitates gammadeltaT cell-mediated killing. <i>European Journal of Immunology</i> , 2006 , 36, 712-21	6-1	39
58	Hypertonic saline enhances neutrophil elastase release through activation of P2 and A3 receptors. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C1051-9	5-4	39
57	Prehospital hypertonic saline resuscitation attenuates the activation and promotes apoptosis of neutrophils in patients with severe traumatic brain injury. <i>Shock</i> , 2013 , 40, 366-74	3-4	37
56	ATP release and autocrine signaling through P2X4 receptors regulate T cell activation. <i>Journal of Leukocyte Biology</i> , 2012 , 92, 787-94	6-5	36
55	Airway brush cells generate cysteinyl leukotrienes through the ATP sensor P2Y2. <i>Science Immunology</i> , 2020 , 5,	28	35

54	Plasma ATP is required for neutrophil activation in a mouse sepsis model. <i>Shock</i> , 2014 , 42, 142-7	3-4	35
53	Prehospital Resuscitation of Traumatic Hemorrhagic Shock with Hypertonic Solutions Worsens Hypocoagulation and Hyperfibrinolysis. <i>Shock</i> , 2015 , 44, 25-31	3-4	34
52	Mitochondrial Dysfunction, Depleted Purinergic Signaling, and Defective T Cell Vigilance and Immune Defense. <i>Journal of Infectious Diseases</i> , 2016 , 213, 456-64	7	32
51	Effects of trauma on immune cell function: impairment of intracellular calcium signaling. <i>Shock</i> , 1994 , 2, 23-8	3-4	31
50	Roles of heat shock proteins and gamma delta T cells in inflammation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008 , 39, 509-13	5-7	30
49	Bacterial DNA induces pulmonary damage via TLR-9 through cross-talk with neutrophils. <i>Shock</i> , 2011 , 36, 548-52	3-4	28
48	Pancreatic enzymes sustain systemic inflammation after an initial endotoxin challenge. <i>Surgery</i> , 2003 , 134, 446-56	3-6	28
47	CD39 modulates hematopoietic stem cell recruitment and promotes liver regeneration in mice and humans after partial hepatectomy. <i>Annals of Surgery</i> , 2013 , 257, 693-701	7-8	25
46	Hypertonic saline up-regulates A3 adenosine receptor expression of activated neutrophils and increases acute lung injury after sepsis. <i>Critical Care Medicine</i> , 2008 , 36, 2569-75	1-4	25
45	Hypertonic stress regulates T-cell function by the opposing actions of extracellular adenosine triphosphate and adenosine. <i>Shock</i> , 2007 , 27, 242-50	3-4	25
44	Hyperthermia and associated changes in membrane fluidity potentiate P2X7 activation to promote tumor cell death. <i>Oncotarget</i> , 2017 , 8, 67254-67268	3-3	25
43	Immunosuppression after endotoxin shock: the result of multiple anti-inflammatory factors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996 , 40, 702-9	9-4	25
42	Purinergic Signaling and the Immune Response in Sepsis: A Review. <i>Clinical Therapeutics</i> , 2016 , 38, 1054-65	9-5	25
41	Pulmonary natural killer T cells play an essential role in mediating hyperoxic acute lung injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 48, 601-9	5-7	24
40	Adrenergic receptor activation involves ATP release and feedback through purinergic receptors. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 299, C1118-26	5-4	24
39	Systemic Adenosine Triphosphate Impairs Neutrophil Chemotaxis and Host Defense in Sepsis. <i>Critical Care Medicine</i> , 2017 , 45, e97-e104	1-4	23
38	Hypertonic saline resuscitation: efficacy may require early treatment in severely injured patients. <i>Journal of Trauma</i> , 2007 , 62, 299-306		23
37	Inhibition of enteral enzymes by enteroclysis with nafamostat mesilate reduces neutrophil activation and transfusion requirements after hemorrhagic shock. <i>Journal of Trauma</i> , 2004 , 56, 501-10; discussion 510-1		22

36	Cutting off the power: inhibition of leukemia cell growth by pausing basal ATP release and P2X receptor signaling?. <i>Purinergic Signalling</i> , 2016 , 12, 439-51	3.8	22
35	Novel method for real-time monitoring of ATP release reveals multiple phases of autocrine purinergic signalling during immune cell activation. <i>Acta Physiologica</i> , 2015 , 213, 334-45	5.6	19
34	Tumor necrosis factor antibody treatment of septic baboons reduces the production of sustained T-cell suppressive factors. <i>Shock</i> , 1995 , 3, 173-8	3.4	18
33	The purinergic receptor P2Y11 choreographs the polarization, mitochondrial metabolism, and migration of T lymphocytes. <i>Science Signaling</i> , 2020 , 13,	8.8	17
32	Adenosine arrests breast cancer cell motility by A3 receptor stimulation. <i>Purinergic Signalling</i> , 2016 , 12, 673-685	3.8	15
31	Lipopolysaccharide suppresses T cells by generating extracellular ATP that impairs their mitochondrial function via P2Y11 receptors. <i>Journal of Biological Chemistry</i> , 2019 , 294, 6283-6293	5.4	14
30	Inhibition of Neutrophils by Hypertonic Saline Involves Pannexin-1, CD39, CD73, and Other Ectonucleotidases. <i>Shock</i> , 2015 , 44, 221-7	3.4	14
29	Increased neutrophil adenosine a3 receptor expression is associated with hemorrhagic shock and injury severity in trauma patients. <i>Shock</i> , 2011 , 36, 435-9	3.4	14
28	Adenosine Triphosphate Release is Required for Toll-Like Receptor-Induced Monocyte/Macrophage Activation, Inflammasome Signaling, Interleukin-1 β Production, and the Host Immune Response to Infection. <i>Critical Care Medicine</i> , 2018 , 46, e1183-e1189	1.4	14
27	A3 adenosine receptor inhibition improves the efficacy of hypertonic saline resuscitation. <i>Shock</i> , 2011 , 35, 178-83	3.4	13
26	Purinergic P2Y receptors modulate endothelial sprouting. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 885-901	10.3	13
25	Proliferation assays with human, rabbit, rat, and mouse lymphocytes. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1996 , 32, 520-3	2.6	12
24	Hypertonicity promotes survival of corticospinal motoneurons via mitogen-activated protein kinase p38 signaling. <i>Journal of Molecular Neuroscience</i> , 2003 , 21, 111-20	3.3	9
23	Autocrine stimulation of P2Y1 receptors is part of the purinergic signaling mechanism that regulates T cell activation. <i>Purinergic Signalling</i> , 2019 , 15, 127-137	3.8	8
22	Hypertonic saline increases gammadeltaT cell-mediated killing of activated neutrophils. <i>Critical Care Medicine</i> , 2008 , 36, 3220-5	1.4	8
21	Shock wave-induced ATP release from osteosarcoma U2OS cells promotes cellular uptake and cytotoxicity of methotrexate. <i>Journal of Experimental and Clinical Cancer Research</i> , 2016 , 35, 161	12.8	7
20	Whole-Blood Assay to Measure Oxidative Burst and Degranulation of Neutrophils for Monitoring Trauma Patients. <i>European Journal of Trauma and Emergency Surgery</i> , 2005 , 31, 379-388		6
19	Frontline Science: Escherichia coli use LPS as decoy to impair neutrophil chemotaxis and defeat antimicrobial host defense. <i>Journal of Leukocyte Biology</i> , 2019 , 106, 1211-1219	6.5	5

18	Alteration in Ca ²⁺ homeostasis by a trauma peptide. <i>Journal of Surgical Research</i> , 1991 , 51, 477-83	2.5	5
17	Adenosine 5RMonophosphate Protects from Hypoxia by Lowering Mitochondrial Metabolism and Oxygen Demand. <i>Shock</i> , 2020 , 54, 237-244	3.4	5
16	Structural and functional characterization of engineered bifunctional fusion proteins of CD39 and CD73 ectonucleotidases. <i>American Journal of Physiology - Cell Physiology</i> , 2021 , 320, C15-C29	5.4	5
15	Hypertonic saline reduces neutrophil-epithelial interactions in vitro and gut tissue damage in a mouse model of colitis. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 295, R1839-45	3.2	4
14	Frontline Science: P2Y ₁₁ receptors support T cell activation by directing mitochondrial trafficking to the immune synapse. <i>Journal of Leukocyte Biology</i> , 2021 , 109, 497-508	6.5	4
13	RIG-I and TLR4 responses and adverse outcomes in pediatric influenza-related critical illness. <i>Journal of Allergy and Clinical Immunology</i> , 2020 , 145, 1673-1680.e11	11.5	3
12	Monocyte human leukocyte antigen-DR expression-a tool to distinguish intestinal bacterial infections from inflammatory bowel disease?. <i>Shock</i> , 2013 , 40, 89-94	3.4	3
11	CELL SURFACE EXPRESSION OF A ₃ AND A _{2A} ADENOSINE RECEPTORS DEFINES THE RESPONSE OF PMN TO HYPERTONIC SALINE. <i>Shock</i> , 2006 , 26, 29	3.4	3
10	Plasma Adenylate Levels are Elevated in Cardiopulmonary Arrest Patients and May Predict Mortality. <i>Shock</i> , 2019 , 51, 698-705	3.4	3
9	Mitochondria Synergize With P ₂ Receptors to Regulate Human T Cell Function. <i>Frontiers in Immunology</i> , 2020 , 11, 549889	8.4	2
8	Optimized HPLC method to elucidate the complex purinergic signaling dynamics that regulate ATP, ADP, AMP, and adenosine levels in human blood.. <i>Purinergic Signalling</i> , 2022 , 1	3.8	2
7	Removal of extracellular ATP improves fMLP-induced neutrophil chemotaxis 2016 ,		2
6	Heat Shock Proteins and the Resolution of Inflammation by Lymphocytes 2007 , 337-354		
5	Inflammasome activation: A form of autocrine purinergic signaling in monocytes. <i>FASEB Journal</i> , 2015 , 29, 973.5	0.9	
4	Systemic ATP Levels Suppress the Function of CD4 ⁺ T Cells in Sepsis by Impairing Autocrine Purinergic Signaling. <i>FASEB Journal</i> , 2015 , 29, 972.6	0.9	
3	Mitochondria Orchestrate Chemotaxis of Neutrophils by Fueling Their Autocrine Purinergic Signaling Systems. <i>FASEB Journal</i> , 2015 , 29, 671.2	0.9	
2	mTOR and differential activation of mitochondria orchestrate neutrophil chemotaxis. <i>Journal of Experimental Medicine</i> , 2015 , 212, 212110IA93	16.6	
1	Purinergic signaling integrates local excitation and global inhibition signals that regulate neutrophil chemotaxis. <i>FASEB Journal</i> , 2013 , 27, 729.2	0.9	

