Wolfgang G Junger

List of Publications by Year
in descending order

112	10,894	46918 47	31759 101
papers	citations	h-index	g-index

113	113	113	15947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Circulating mitochondrial DAMPs cause inflammatory responses to injury. Nature, 2010, 464, 104-107.	13.7	2,983
2	ATP Release Guides Neutrophil Chemotaxis via P2Y2 and A3 Receptors. Science, 2006, 314, 1792-1795.	6.0	756
3	Immune cell regulation by autocrine purinergic signalling. Nature Reviews Immunology, 2011, 11, 201-212.	10.6	680
4	Negative feedback control of neuronal activity by microglia. Nature, 2020, 586, 417-423.	13.7	520
5	CD39 Expression Identifies Terminally Exhausted CD8+ T Cells. PLoS Pathogens, 2015, 11, e1005177.	2.1	296
6	Pannexin-1 hemichannelâ€“mediated ATP release together with P2X1 and P2X4 receptors regulate T-cell activation at the immune synapse. Blood, 2010, 116, 3475-3484.	0.6	273
7	Autocrine regulation of Tâ€cell activation by ATP release and P2X₇receptors. FASEB Journal, 2009, 23, 1685-1693.	0.2	251
8	HYPERTONIC SALINE RESUSCITATION DIMINISHES LUNG INJURY BY SUPPRESSING NEUTROPHIL ACTIVATION AFTER HEMORRHAGIC SHOCK. Shock, 1998, 9, 164-170.	1.0	194
9	Purinergic Signaling: A Fundamental Mechanism in Neutrophil Activation. Science Signaling, 2010, 3, ra45.	1.6	181
10	Hypertonic Saline Resuscitation Decreases Susceptibility to Sepsis after Hemorrhagic Shock. Arteriosclerosis, Thrombosis, and Vascular Biology, 1997, 42, 602-607.	1.1	171
11	HYPERTONIC SALINE RESUSCITATION. Shock, 1997, 8, 235-241.	1.0	160
12	Mice lacking P2Y 2 receptors have saltâ€resistant hypertension and facilitated renal Na + and water reabsorption. FASEB Journal, 2007, 21, 3717-3726.	0.2	160
13	Shock Wave Treatment Enhances Cell Proliferation and Improves Wound Healing by ATP Release-coupled Extracellular Signal-regulated Kinase (ERK) Activation. Journal of Biological Chemistry, 2014, 289, 27090-27104.	1.6	134
14	Measurement of Oxidative Burst in Neutrophils. Methods in Molecular Biology, 2012, 844, 115-124.	0.4	132
15	Abandon the Mouse Research Ship? Not Just Yet!. Shock, 2014, 41, 463-475.	1.0	126
16	Hypertonic Saline Resuscitation Restores Hemorrhage-Induced Immunosuppression by Decreasing Prostaglandin E2and Interleukin-4 Production. Journal of Surgical Research, 1996, 64, 203-209.	0.8	125
17	Hypertonic Stress Increases T Cell Interleukin-2 Expression through a Mechanism That Involves ATP Release, P2 Receptor, and p38 MAPK Activation. Journal of Biological Chemistry, 2003, 278, 4590-4596.	1.6	110
18	Purinergic P2X4 receptors and mitochondrial ATP production regulate T cell migration. Journal of Clinical Investigation, 2018, 128, 3583-3594.	3.9	110

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19	Ecto-nucleoside Triphosphate Diphosphohydrolase 1 (E-NTPDase1/CD39) Regulates Neutrophil Chemotaxis by Hydrolyzing Released ATP to Adenosine. Journal of Biological Chemistry, 2008, 283, 28480-28486.	1.6	108
20	Mitochondria Regulate Neutrophil Activation by Generating ATP for Autocrine Purinergic Signaling. Journal of Biological Chemistry, 2014, 289, 26794-26803.	1.6	108
21	mTOR and differential activation of mitochondria orchestrate neutrophil chemotaxis. Journal of Cell Biology, 2015, 210, 1153-1164.	2.3	107
22	Shockwaves Induce Osteogenic Differentiation of Human Mesenchymal Stem Cells Through ATP Release and Activation of P2X7 Receptors. Stem Cells, 2013, 31, 1170-1180.	1.4	106
23	P2X7 Integrates PI3K/AKT and AMPK-PRAS40-mTOR Signaling Pathways to Mediate Tumor Cell Death. PLoS ONE, 2013, 8, e60184.	1.1	102
24	Hypertonic Saline Resuscitation Reduces Neutrophil Margination by Suppressing Neutrophil L Selectin Expression. Arteriosclerosis, Thrombosis, and Vascular Biology, 1998, 45, 7-13.	1.1	94
25	Pannexin 1 Channels Link Chemoattractant Receptor Signaling to Local Excitation and Global Inhibition Responses at the Front and Back of Polarized Neutrophils. Journal of Biological Chemistry, 2013, 288, 22650-22657.	1.6	91
26	A3 AND P2Y2 RECEPTORS CONTROL THE RECRUITMENT OF NEUTROPHILS TO THE LUNGS IN A MOUSE MODEL OF SEPSIS. Shock, 2008, 30, 173-177.	1.0	87
27	Hypertonic stress regulates T cell function via pannexin-1 hemichannels and P2X receptors. Journal of Leukocyte Biology, 2010, 88, 1181-1189.	1.5	86
28	Mitochondria Are Gate-keepers of T Cell Function by Producing the ATP That Drives Purinergic Signaling. Journal of Biological Chemistry, 2014, 289, 25936-25945.	1.6	86
29	EFFECT OF DOSE OF HYPERTONIC SALINE ON ITS POTENTIAL TO PREVENT LUNG TISSUE DAMAGE IN A MOUSE MODEL OF HEMORRHAGIC SHOCK. Shock, 2003, 20, 29-34.	1.0	83
30	HYPERTONIC SALINE RESUSCITATION REDUCES APOPTOSIS AND TISSUE DAMAGE OF THE SMALL INTESTINE IN A MOUSE MODEL OF HEMORRHAGIC SHOCK. Shock, 2003, 20, 23-28.	1.0	80
31	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. Journal of Leukocyte Biology, 2004, 76, 245-253.	1.5	79
32	Airway brush cells generate cysteinyl leukotrienes through the ATP sensor P2Y2. Science Immunology, 2020, 5, .	5.6	76
33	Disordered purinergic signaling and abnormal cellular metabolism are associated with development of liver cancer inCd39/Entpd1null Mice. Hepatology, 2013, 57, 205-216.	3.6	75
34	OSMOTIC REGULATION OF CELL FUNCTION AND POSSIBLE CLINICAL APPLICATIONS. Shock, 2004, 21, 391-400.	1.0	68
35	SMALL-VOLUME FLUID RESUSCITATION WITH HYPERTONIC SALINE PREVENTS INFLAMMATION BUT NOT MORTALITY IN A RAT MODEL OF HEMORRHAGIC SHOCK. Shock, 2006, 25, 283-289.	1.0	68
36	A novel method using fluorescence microscopy for real-time assessment of ATP release from individual cells. American Journal of Physiology - Cell Physiology, 2007, 293, C1420-C1425.	2.1	68

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37	Deletion of CD39 on natural killer cells attenuates hepatic ischemia/reperfusion injury in mice. Hepatology, 2010, 51, 1702-1711.	3.6	66
38	ACUTE LUNG INJURY IN ENDOTOXEMIC RATS IS ASSOCIATED WITH SUSTAINED CIRCULATING IL-6 LEVELS AND INTRAPULMONARY CINC ACTIVITY AND NEUTROPHIL RECRUITMENTâ€"ROLE OF CIRCULATING TNF-Â± AND IL-Â±?. Shock, 1996, 6, 39-45.	1.0	64
39	Hypertonicity rescues T cells from suppression by trauma-induced anti-inflammatory mediators. American Journal of Physiology - Cell Physiology, 2001, 281, C840-C848.	2.1	63
40	Resuscitation of Traumatic Hemorrhagic Shock Patients With Hypertonic Salineâ€"Without Dextranâ€"Inhibits Neutrophil and Endothelial Cell Activation. Shock, 2012, 38, 341-350.	1.0	62
41	HYPERTONIC/HYPERONCOTIC FLUIDS REVERSE PROSTAGLANDIN E2 (PGE2)-INDUCED T-CELL SUPPRESSION. Shock, 1995, 4, 45-49.	1.0	61
42	HYPERTONIC SALINE INFUSION. Shock, 2000, 14, 503-508.	1.0	60
43	Purinergic regulation of neutrophil chemotaxis. Cellular and Molecular Life Sciences, 2008, 65, 2528-2540.	2.4	60
44	Pentoxifylline reduces acute lung injury in chronic endotoxemia. Journal of Surgical Research, 2003, 115, 92-99.	0.8	59
45	NADH oxidase-dependent CD39 expression by CD8+ T cells modulates interferon gamma responses via generation of adenosine. Nature Communications, 2015, 6, 8819.	5.8	59
46	Hypertonic saline up-regulates A3 adenosine receptor expression of activated neutrophils and increases acute lung injury after sepsis*. Critical Care Medicine, 2008, 36, 2569-2575.	0.4	50
47	Hypertonic Saline Activates Protein Tyrosine Kinases and Mitogen-activated Protein Kinase p38 in T-cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 1997, 42, 437-445.	1.1	50
48	Plasma ATP is Required for Neutrophil Activation in a Mouse Sepsis Model. Shock, 2014, 42, 142-147.	1.0	49
49	DOES THE TIMING OF HYPERTONIC SALINE RESUSCITATION AFFECT ITS POTENTIAL TO PREVENT LUNG DAMAGE?. Shock, 2000, 14, 18-23.	1.0	48
50	Hypertonicity increases cAMP in PMN and blocks oxidative burst by PKA-dependent and -independent mechanisms. American Journal of Physiology - Cell Physiology, 2002, 282, C1261-C1269.	2.1	46
51	ATP release and autocrine signaling through P2X4 receptors regulate Î³Î´ T cell activation. Journal of Leukocyte Biology, 2012, 92, 787-794.	1.5	46
52	Shockwaves increase T-cell proliferation and IL-2 expression through ATP release, P2X7 receptors, and FAK activation. American Journal of Physiology - Cell Physiology, 2010, 298, C457-C464.	2.1	45
53	Purinergic Signaling and the Immune Response in Sepsis: A Review. Clinical Therapeutics, 2016, 38, 1054-1065.	1.1	44
54	Prehospital Hypertonic Saline Resuscitation Attenuates the Activation and Promotes Apoptosis of Neutrophils in Patients With Severe Traumatic Brain Injury. Shock, 2013, 40, 366-374.	1.0	43

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55	Hypertonic saline enhances neutrophil elastase release through activation of P2 and A3 receptors. American Journal of Physiology - Cell Physiology, 2006, 290, C1051-C1059.	2.1	42
56	Surface expression of HSP72 by LPS-stimulated neutrophils facilitates Î³ÎT cell-mediated killing. European Journal of Immunology, 2006, 36, 712-721.	1.6	41
57	Hyperthermia and associated changes in membrane fluidity potentiate P2X7 activation to promote tumor cell death. Oncotarget, 2017, 8, 67254-67268.	0.8	40
58	Prehospital Resuscitation of Traumatic Hemorrhagic Shock with Hypertonic Solutions Worsens Hypocoagulation and Hyperfibrinolysis. Shock, 2015, 44, 25-31.	1.0	39
59	Mitochondrial Dysfunction, Depleted Purinergic Signaling, and Defective T Cell Vigilance and Immune Defense. Journal of Infectious Diseases, 2016, 213, 456-464.	1.9	39
60	The purinergic receptor P2Y11 choreographs the polarization, mitochondrial metabolism, and migration of T lymphocytes. Science Signaling, 2020, 13, .	1.6	37
61	Roles of Heat Shock Proteins and Î³ÎT Cells in Inflammation. American Journal of Respiratory Cell and Molecular Biology, 2008, 39, 509-513.	1.4	36
62	EFFECTS OF TRAUMA ON IMMUNE CELL FUNCTION. Shock, 1994, 2, 23-28.	1.0	34
63	Pulmonary Natural Killer T Cells Play an Essential Role in Mediating Hyperoxic Acute Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 601-609.	1.4	33
64	Systemic Adenosine Triphosphate Impairs Neutrophil Chemotaxis and Host Defense in Sepsis. Critical Care Medicine, 2017, 45, e97-e104.	0.4	33
65	Pancreatic enzymes sustain systemic inflammation after an initial endotoxin challenge. Surgery, 2003, 134, 446-456.	1.0	32
66	Cutting off the power: inhibition of leukemia cell growth by pausing basal ATP release and P2X receptor signaling?. Purinergic Signalling, 2016, 12, 439-451.	1.1	32
67	Bacterial DNA Induces Pulmonary Damage Via TLR-9 Through Cross-talk With Neutrophils. Shock, 2011, 36, 548-552.	1.0	31
68	Immunosuppression after Endotoxin Shock. Arteriosclerosis, Thrombosis, and Vascular Biology, 1996, 40, 702-709.	1.1	30
69	Adrenergic receptor activation involves ATP release and feedback through purinergic receptors. American Journal of Physiology - Cell Physiology, 2010, 299, C1118-C1126.	2.1	29
70	Hypertonic Saline Resuscitation: Efficacy May Require Early Treatment in Severely Injured Patients. Journal of Trauma, 2007, 62, 299-306.	2.3	28
71	CD39 Modulates Hematopoietic Stem Cell Recruitment and Promotes Liver Regeneration in Mice and Humans After Partial Hepatectomy. Annals of Surgery, 2013, 257, 693-701.	2.1	28
72	HYPERTONIC STRESS REGULATES T-CELL FUNCTION BY THE OPPOSING ACTIONS OF EXTRACELLULAR ADENOSINE TRIPHOSPHATE AND ADENOSINE. Shock, 2007, 27, 242-250.	1.0	27

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73	Inhibition of Enteral Enzymes by Enteroclysis with Nafamostat Mesilate Reduces Neutrophil Activation and Transfusion Requirements after Hemorrhagic Shock. Journal of Trauma, 2004, 56, 501-511.	2.3	22
74	Novel method for real-time monitoring of ATP release reveals multiple phases of autocrine purinergic signalling during immune cell activation. Acta Physiologica, 2015, 213, 334-345.	1.8	22
75	Lipopolysaccharide suppresses T cells by generating extracellular ATP that impairs their mitochondrial function via P2Y11 receptors. Journal of Biological Chemistry, 2019, 294, 6283-6293.	1.6	22
76	Adenosine arrests breast cancer cell motility by A3 receptor stimulation. Purinergic Signalling, 2016, 12, 673-685.	1.1	21
77	Inhibition of Neutrophils by Hypertonic Saline Involves Pannexin-1, CD39, CD73, and Other Ectonucleotidases. Shock, 2015, 44, 221-227.	1.0	20
78	TUMOR NECROSIS FACTOR ANTIBODY TREATMENT OF SEPTIC BABOONS REDUCES THE PRODUCTION OF SUSTAINED T-CELL SUPPRESSIVE FACTORS. Shock, 1995, 3, 173-178.	1.0	18
79	Adenosine Triphosphate Release is Required for Toll-Like Receptor-Induced Monocyte/Macrophage Activation, Inflammasome Signaling, Interleukin-1Î² Production, and the Host Immune Response to Infection. Critical Care Medicine, 2018, 46, e1183-e1189.	0.4	18
80	Autocrine stimulation of P2Y1 receptors is part of the purinergic signaling mechanism that regulates T cell activation. Purinergic Signalling, 2019, 15, 127-137.	1.1	18
81	Purinergic P2Y2 receptors modulate endothelial sprouting. Cellular and Molecular Life Sciences, 2020, 77, 885-901.	2.4	17
82	Proliferation assays with human, rabbit, rat, and mouse lymphocytes. In Vitro Cellular and Developmental Biology - Animal, 1996, 32, 520-523.	0.7	16
83	Increased Neutrophil Adenosine A3 Receptor Expression Is Associated With Hemorrhagic Shock and Injury Severity in Trauma Patients. Shock, 2011, 36, 435-439.	1.0	16
84	RIG-I and TLR4 responses and adverse outcomes in pediatric influenza-related critical illness. Journal of Allergy and Clinical Immunology, 2020, 145, 1673-1680.e11.	1.5	16
85	Frontline Science: P2Y11 receptors support T cell activation by directing mitochondrial trafficking to the immune synapse. Journal of Leukocyte Biology, 2021, 109, 497-508.	1.5	14
86	A3 Adenosine Receptor Inhibition Improves the Efficacy of Hypertonic Saline Resuscitation. Shock, 2011, 35, 178-183.	1.0	13
87	Shock wave-induced ATP release from osteosarcoma U2OS cells promotes cellular uptake and cytotoxicity of methotrexate. Journal of Experimental and Clinical Cancer Research, 2016, 35, 161.	3.5	13
88	Mitochondria Synergize With P2 Receptors to Regulate Human T Cell Function. Frontiers in Immunology, 2020, 11, 549889.	2.2	12
89	Frontline Science: Escherichia coli use LPS as decoy to impair neutrophil chemotaxis and defeat antimicrobial host defense. Journal of Leukocyte Biology, 2019, 106, 1211-1219.	1.5	11
90	Hypertonicity Promotes Survival of Corticospinal Motoneurons via Mitogen-Activated Protein Kinase p38 Signaling. Journal of Molecular Neuroscience, 2003, 21, 111-120.	1.1	9

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91	Optimized HPLC method to elucidate the complex purinergic signaling dynamics that regulate ATP, ADP, AMP, and adenosine levels in human blood. Purinergic Signalling, 2022, 18, 223-239.	1.1	9
92	Hypertonic saline increases Î³ÎT cell-mediated killing of activated neutrophils. Critical Care Medicine, 2008, 36, 3220-3225.	0.4	8
93	Whole-Blood Assay to Measure Oxidative Burst and Degranulation of Neutrophils for Monitoring Trauma Patients. European Journal of Trauma and Emergency Surgery, 2005, 31, 379-388.	0.3	7
94	Plasma Adenylate Levels are Elevated in Cardiopulmonary Arrest Patients and May Predict Mortality. Shock, 2019, 51, 698-705.	1.0	7
95	Structural and functional characterization of engineered bifunctional fusion proteins of CD39 and CD73 ectonucleotidases. American Journal of Physiology - Cell Physiology, 2021, 320, C15-C29.	2.1	7
96	Hypertonic saline reduces neutrophil-epithelial interactions in vitro and gut tissue damage in a mouse model of colitis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1839-R1845.	0.9	6
97	Monocyte Human Leukocyte Antigenâ€“DR Expressionâ€”A Tool to Distinguish Intestinal Bacterial Infections From Inflammatory Bowel Disease?. Shock, 2013, 40, 89-94.	1.0	6
98	Adenosine 5â€™-Monophosphate Protects from Hypoxia by Lowering Mitochondrial Metabolism and Oxygen Demand. Shock, 2020, 54, 237-244.	1.0	6
99	Extracellular mitochondria drive CD8 T cell dysfunction in trauma by upregulating CD39. Thorax, 2023, 78, 151-159.	2.7	6
100	Alteration in Ca2+ homeostasis by a trauma peptide. Journal of Surgical Research, 1991, 51, 477-483.	0.8	5
101	CELL SURFACE EXPRESSION OF A3 AND A2A ADENOSINE RECEPTORS DEFINES THE RESPONSE OF PMN TO HYPERTONIC SALINE. Shock, 2006, 26, 29.	1.0	5
102	Removal of extracellular ATP improves fMLP-induced neutrophil chemotaxis. , 2016, , .		2
103	HEAT SHOCK PROTEIN 72 MARKS PMN FOR ????T CELL-MEDIATED KILLING. Shock, 2006, 26, 11.	1.0	0
104	MODULATION OF T CELL FUNCTION BY ATP, ADENOSINE, AND P1/P2 RECEPTORS. Shock, 2006, 26, 17.	1.0	0
105	CONTROL OF PMN CHEMOTAXIS BY AUTOCRINE FEEDBACK THROUGH PURINERGIC RECEPTORS. Shock, 2006, 26, 18.	1.0	0
106	Heat Shock Proteins and the Resolution of Inflammation by Lymphocytes. , 2007, , 337-354.		0
107	P2Y2 Is An Epithelial Brush Cell Receptor For ATP-Elicited Cysteinyl Leukotrienes Generation. Journal of Allergy and Clinical Immunology, 2020, 145, AB158.	1.5	0
108	Purinergic signaling integrates local excitation and global inhibition signals that regulate neutrophil chemotaxis. FASEB Journal, 2013, 27, 729.2.	0.2	0

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109	Inflammasome activation: A form of autocrine purinergic signaling in monocytes. FASEB Journal, 2015, 29, 973.5.	0.2	0
110	Systemic ATP Levels Suppress the Function of CD4 + T Cells in Sepsis by Impairing Autocrine Purinergic Signaling. FASEB Journal, 2015, 29, 972.6.	0.2	0
111	Mitochondria Orchestrate Chemotaxis of Neutrophils by Fueling Their Autocrine Purinergic Signaling Systems. FASEB Journal, 2015, 29, 671.2.	0.2	0
112	mTOR and differential activation of mitochondria orchestrate neutrophil chemotaxis. Journal of Experimental Medicine, 2015, 212, 21211OIA93.	4.2	0