Holger K Eltzschig

List of Publications by Year
in descending order

126 papers	16,561 citations	25034 57 h-index	17105 122 g-index
128 all docs	128 docs citations	128 times ranked	20674 citing authors

#	Article	IF	Citations
1	Leadership roles and initiatives for diversity and inclusion in academic anesthesiology departments. Journal of the National Medical Association, 2022, 114, 147-155.	0.8	2
2	Diversity and Inclusion in Anesthesiology. Anesthesia and Analgesia, 2022, 134, 1166-1174.	2.2	15
3	Purinergic and Adenosinergic Signaling in Pancreatobiliary Diseases. Frontiers in Physiology, 2022, 13, 849258.	2.8	7
4	SARS-CoV-2 Infection: Host Response, Immunity, and Therapeutic Targets. Inflammation, 2022, 45, 1430-1449.	3.8	16
5	Apoptotic brown adipocytes enhance energy expenditure via extracellular inosine. Nature, 2022, 609, 361-368.	27.8	53
6	Characterization of a Murine Model System to Study MicroRNA-147 During Inflammatory Organ Injury. Inflammation, 2021, 44, 1426-1440.	3.8	6
7	Eosinophils attenuate hepatic ischemia-reperfusion injury in mice through ST2-dependent IL-13 production. Science Translational Medicine, 2021, 13, .	12.4	31
8	Circadian rhythm as a therapeutic target. Nature Reviews Drug Discovery, 2021, 20, 287-307.	46.4	177
9	Enhancing Extracellular Adenosine Levels Restores Barrier Function in Acute Lung Injury Through Expression of Focal Adhesion Proteins. Frontiers in Molecular Biosciences, 2021, 8, 636678.	3.5	17
10	Targeting alveolarâ€specific succinate dehydrogenase A attenuates pulmonary inflammation during acute lung injury. FASEB Journal, 2021, 35, e21468.	0.5	20
11	Hypoxiaâ€inducible factorâ€dependent induction of myeloidâ€derived netrinâ€1 attenuates natural killer cell infiltration during endotoxinâ€induced lung injury. FASEB Journal, 2021, 35, e21334.	0.5	15
12	PMN-derived netrin-1 attenuates cardiac ischemia-reperfusion injury via myeloid ADORA2B signaling. Journal of Experimental Medicine, 2021, 218, .	8.5	30
13	Hypoxia-inducible factorâ€"1Î±â€"dependent induction of miR122 enhances hepatic ischemia tolerance. Journal of Clinical Investigation, 2021, 131, .	8.2	33
14	Incidence and predictive factors of acute kidney injury following off-pump lung transplantation. Journal of Cardiothoracic and Vascular Anesthesia, 2021, , .	1.3	3
15	Patient-derived iPSCs link elevated mitochondrial respiratory complex I function to osteosarcoma in Rothmund-Thomson syndrome. PLoS Genetics, 2021, 17, e1009971.	3.5	9
16	Mst1/2 kinases restrain transformation in a novel transgenic model of Ras driven non-small cell lung cancer. Oncogene, 2020, 39, 1152-1164.	5.9	12
17	Hypoxiaâ€inducible Factorâ€2Î± Reprograms Liver Macrophages to Protect Against Acute Liver Injury Through the Production of Interleukinâ€6. Hepatology, 2020, 71, 2105-2117.	7.3	50
18	Transcription-independent Induction of ERBB1 through Hypoxia-inducible Factor 2A Provides Cardioprotection during Ischemia and Reperfusion. Anesthesiology, 2020, 132, 763-780.	2.5	26

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19	The Role of MicroRNAs in Acute Respiratory Distress Syndrome and Sepsis, From Targets to Therapies: A Narrative Review. Anesthesia and Analgesia, 2020, 131, 1471-1484.	2.2	31
20	Disease Mechanisms of Perioperative Organ Injury. Anesthesia and Analgesia, 2020, 131, 1730-1750.	2.2	16
21	Role of Micro-RNA for Pain After Surgery. Anesthesia and Analgesia, 2020, 130, 1638-1652.	2.2	9
22	Strategies to Modulate MicroRNA Functions for the Treatment of Cancer or Organ Injury. Pharmacological Reviews, 2020, 72, 639-667.	16.0	45
23	Adenosine/A2B Receptor Signaling Ameliorates the Effects of Aging and Counteracts Obesity. Cell Metabolism, 2020, 32, 56-70.e7.	16.2	77
24	Neuronal modulation of hepatic lipid accumulation induced by bingelike drinking. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E655-E666.	3.5	5
25	Adenosine at the Interphase of Hypoxia and Inflammation in Lung Injury. Frontiers in Immunology, 2020, 11, 604944.	4.8	32
26	Purinergic Signaling in Pulmonary Inflammation. Frontiers in Immunology, 2019, 10, 1633.	4.8	81
27	Impact of serratus plane block on pain scores and incentive spirometry volumes after chest trauma . Local and Regional Anesthesia, 2019, Volume 12, 59-66.	1.3	18
28	Hypoxia signaling in human diseases and therapeutic targets. Experimental and Molecular Medicine, 2019, 51, 1-13.	7.7	218
29	Subchondral bone osteoclasts induce sensory innervation and osteoarthritis pain. Journal of Clinical Investigation, 2019, 129, 1076-1093.	8.2	239
30	Characterization of articular cartilage homeostasis and the mechanism of superior cartilage regeneration of MRL/MpJ mice. FASEB Journal, 2019, 33, 8809-8821.	0.5	20
31	Hypoxiaâ€inducible factor 1Î± (HIFâ€1Î±) is a major determinant in the enhanced function of muscleâ€derived progenitors from MRL/MpJ mice. FASEB Journal, 2019, 33, 8321-8334.	0.5	24
32	Assessment of a multimodal analgesia protocol to allow the implementation of enhanced recovery after cardiac surgery: Retrospective analysis of patient outcomes. Journal of Clinical Anesthesia, 2019, 54, 76-80.	1.6	52
33	Markers of Accelerated Skeletal Muscle Regenerative Response in Murphy Roths Large Mice: Characteristics of Muscle Progenitor Cells and Circulating Factors. Stem Cells, 2019, 37, 357-367.	3.2	14
34	Cigarette smokeâ€“induced reduction of C1q promotes emphysema. JCI Insight, 2019, 4, .	5.0	23
35	Hypoxia-inducible factor 2-alpha-dependent induction of amphiregulin dampens myocardial ischemia-reperfusion injury. Nature Communications, 2018, 9, 816.	12.8	100
36	The Hypoxiaâ€“Adenosine Link during Intestinal Inflammation. Journal of Immunology, 2018, 200, 897-907.	0.8	48

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37	Targeting Hypoxia Signaling for Perioperative Organ Injury. Anesthesia and Analgesia, 2018, 126, 308-321.	2.2	64
38	Capturing the multifactorial nature of ARDS - â€œTwo-hitâ€•approach to model murine acute lung injury. Physiological Reports, 2018, 6, e13648.	1.7	24
39	Macrophage-derived netrin-1 promotes abdominal aortic aneurysm formation by activating MMP3 in vascular smooth muscle cells. Nature Communications, 2018, 9, 5022.	12.8	109
40	Elevated ecto-5â€²-nucleotidase: a missing pathogenic factor and new therapeutic target for sickle cell disease. Blood Advances, 2018, 2, 1957-1968.	5.2	14
41	MicroRNA miR-223 as regulator of innate immunity. Journal of Leukocyte Biology, 2018, 104, 515-524.	3.3	127
42	Switching-Off Adora2b in Vascular Smooth Muscle Cells Halts the Development of Pulmonary Hypertension. Frontiers in Physiology, 2018, 9, 555.	2.8	21
43	Short-Term Hypoxia Dampens Inflammation in vivo via Enhanced Adenosine Release and Adenosine 2B Receptor Stimulation. EBioMedicine, 2018, 33, 144-156.	6.1	47
44	Coordination of ENT2-dependent adenosine transport and signaling dampens mucosal inflammation. JCI Insight, 2018, 3, .	5.0	51
45	Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent. Nature Communications, 2017, 8, 14108.	12.8	81
46	Netrin1 Produced by Neural Progenitors, Not Floor Plate Cells, Is Required for Axon Guidance in the Spinal Cord. Neuron, 2017, 94, 790-799.e3.	8.1	146
47	Myeloid-derived miR-223 regulates intestinal inflammation via repression of the NLRP3 inflammasome. Journal of Experimental Medicine, 2017, 214, 1737-1752.	8.5	289
48	A model-specific role of microRNA-223 as a mediator of kidney injury during experimental sepsis. American Journal of Physiology - Renal Physiology, 2017, 313, F553-F559.	2.7	34
49	Erythrocyte purinergic signaling components underlie hypoxia adaptation. Journal of Applied Physiology, 2017, 123, 951-956.	2.5	25
50	Neutrophil transfer of miR-223 to lung epithelial cells dampens acute lung injury in mice. Science Translational Medicine, 2017, 9, .	12.4	162
51	MicroRNAs in mucosal inflammation. Journal of Molecular Medicine, 2017, 95, 935-949.	3.9	45
52	The hypoxia-adenosine link during inflammation. Journal of Applied Physiology, 2017, 123, 1303-1320.	2.5	90
53	Novel therapeutic concepts for inflammatory bowel diseaseâ€”from bench to bedside. Journal of Molecular Medicine, 2017, 95, 899-903.	3.9	7
54	HIF1A upâ€•regulates the ADORA2B receptor on alternatively activated macrophages and contributes to pulmonary fibrosis. FASEB Journal, 2017, 31, 4745-4758.	0.5	63

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55	The Devil Is in the Detail. Anesthesiology, 2017, 126, 763-765.	2.5	8
56	Restoration of Megalin-Mediated Clearance of Alveolar Protein as a Novel Therapeutic Approach for Acute Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 589-602.	2.9	14
57	NK cells regulate CXCR2+ neutrophil recruitment during acute lung injury. Journal of Leukocyte Biology, 2017, 101, 471-480.	3.3	24
58	Detrimental ELAVL-1/HuR-dependent GSK3Î² mRNA stabilization impairs resolution in acute respiratory distress syndrome. PLoS ONE, 2017, 12, e0172116.	2.5	16
59	Hypoxia-inducible factors as molecular targets for liver diseases. Journal of Molecular Medicine, 2016, 94, 613-627.	3.9	104
60	Purinergic Signaling During Immune Cell Trafficking. Trends in Immunology, 2016, 37, 399-411.	6.8	64
61	HIF-2Î± in Resting Macrophages Tempers Mitochondrial Reactive Oxygen Species To Selectively Repress MARCO-Dependent Phagocytosis. Journal of Immunology, 2016, 197, 3639-3649.	0.8	21
62	Sustained Elevated Adenosine via ADORA2B Promotes Chronic Pain through Neuro-immune Interaction. Cell Reports, 2016, 16, 106-119.	6.4	61
63	Beneficial Role of Erythrocyte Adenosine A2B Receptorâ€“Mediated AMP-Activated Protein Kinase Activation in High-Altitude Hypoxia. Circulation, 2016, 134, 405-421.	1.6	115
64	MicroRNAs Modulate the Purinergic Signaling Network. Trends in Molecular Medicine, 2016, 22, 905-918.	6.7	29
65	Hydroxylation-independent HIF-1Î± stabilization through PKA: A new paradigm for hypoxia signaling. Science Signaling, 2016, 9, fs11.	3.6	6
66	C1P Attenuates Lipopolysaccharide-Induced Acute Lung Injury by Preventing NF-ÎºB Activation in Neutrophils. Journal of Immunology, 2016, 196, 2319-2326.	0.8	43
67	Altered Hypoxicâ€“Adenosine Axis and Metabolism in Group III Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 574-583.	2.9	41
68	Extracellular adenosine levels are associated with the progression and exacerbation of pulmonary fibrosis. FASEB Journal, 2016, 30, 874-883.	0.5	38
69	Tissue-Resident NK Cells Mediate Ischemic Kidney Injury and Are Not Depleted by Antiâ€“Asialo-GM1 Antibody. Journal of Immunology, 2015, 195, 4973-4985.	0.8	97
70	Elevated Endothelial Hypoxia-Inducible Factor-1Î± Contributes to Glomerular Injury and Promotes Hypertensive Chronic Kidney Disease. Hypertension, 2015, 66, 75-84.	2.7	59
71	Hypoxia signaling during acute lung injury. Journal of Applied Physiology, 2015, 119, 1157-1163.	2.5	48
72	The polymeric mucin Muc5ac is required for allergic airway hyperreactivity. Nature Communications, 2015, 6, 6281.	12.8	223

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73	Differential Tissue-Specific Function of Adora2b in Cardioprotection. Journal of Immunology, 2015, 195, 1732-1743.	0.8	34
74	Alveolar Epithelial A2B Adenosine Receptors in Pulmonary Protection during Acute Lung Injury. Journal of Immunology, 2015, 195, 1815-1824.	0.8	80
75	Eosinophil-mediated signalling attenuates inflammatory responses in experimental colitis. Gut, 2015, 64, 1236-1247.	12.1	103
76	Deletion of ADORA2B from myeloid cells dampens lung fibrosis and pulmonary hypertension. FASEB Journal, 2015, 29, 50-60.	0.5	66
77	Extracellular nucleotide and nucleoside signaling in vascular and blood disease. Blood, 2014, 124, 1029-1037.	1.4	119
78	Rescue transoesophageal echocardiography for refractory haemodynamic instability during transvenous lead extraction. European Heart Journal Cardiovascular Imaging, 2014, 15, 926-932.	1.2	32
79	Sphingosine-1-phosphate receptor signaling during acute kidney injury: the tissue is the issue. Kidney International, 2014, 85, 733-735.	5.2	10
80	Adventitial Fibroblasts Induce a Distinct Proinflammatory/Profibrotic Macrophage Phenotype in Pulmonary Hypertension. Journal of Immunology, 2014, 193, 597-609.	0.8	162
81	Nucleotide signalling during inflammation. Nature, 2014, 509, 310-317.	27.8	750
82	Targeting hypoxia signalling for the treatment of ischaemic and inflammatory diseases. Nature Reviews Drug Discovery, 2014, 13, 852-869.	46.4	291
83	Identification of Hypoxia-Inducible Factor HIF-1A as Transcriptional Regulator of the A2B Adenosine Receptor during Acute Lung Injury. Journal of Immunology, 2014, 192, 1249-1256.	0.8	101
84	A2B Adenosine Receptor Induces Protective Antihelminth Type 2 Immune Responses. Cell Host and Microbe, 2014, 15, 339-350.	11.0	59
85	Netrin-1 controls sympathetic arterial innervation. Journal of Clinical Investigation, 2014, 124, 3230-3240.	8.2	74
86	Stimulation of A2B adenosine receptors protects against traumaâ€“hemorrhagic shock-induced lung injury. Purinergic Signalling, 2013, 9, 427-432.	2.2	26
87	Transcriptional control of adenosine signaling by hypoxia-inducible transcription factors during ischemic or inflammatory disease. Journal of Molecular Medicine, 2013, 91, 183-193.	3.9	100
88	Attenuating myocardial ischemia by targeting A2B adenosine receptors. Trends in Molecular Medicine, 2013, 19, 345-354.	6.7	100
89	Crosstalk between the equilibrative nucleoside transporter ENT2 and alveolar Adora2b adenosine receptors dampens acute lung injury. FASEB Journal, 2013, 27, 3078-3089.	0.5	95
90	HIF1A Reduces Acute Lung Injury by Optimizing Carbohydrate Metabolism in the Alveolar Epithelium. PLoS Biology, 2013, 11, e1001665.	5.6	138

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91	Hypoxia and inflammation are two sides of the same coin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18351-18352.	7.1	168
92	Netrin-1 guides inflammatory cell migration to control mucosal immune responses during intestinal inflammation. Tissue Barriers, 2013, 1, e24957.	3.2	27
93	CD73 ⁺ regulatory T cells contribute to adenosineâ€mediated resolution of acute lung injury. FASEB Journal, 2013, 27, 2207-2219.	0.5	99
94	Adenosine Is A Common Factor Regulating Erythrocyte 2,3-Bisphosphate Induction In Normal Individuals At High Altitude and In Patients With Sickle Cell Disease. Blood, 2013, 122, 952-952.	1.4	2
95	Neuronal guidance molecule netrin-1 attenuates inflammatory cell trafficking during acute experimental colitis. Gut, 2012, 61, 695-705.	12.1	106
96	Adora2b-elicited Per2 stabilization promotes a HIF-dependent metabolic switch crucial for myocardial adaptation to ischemia. Nature Medicine, 2012, 18, 774-782.	30.7	278
97	Purinergic Signaling during Inflammation. New England Journal of Medicine, 2012, 367, 2322-2333.	27.0	579
98	Adora2b Adenosine Receptor Engagement Enhances Regulatory T Cell Abundance during Endotoxin-Induced Pulmonary Inflammation. PLoS ONE, 2012, 7, e32416.	2.5	95
99	Hypoxia and Inflammation. New England Journal of Medicine, 2011, 364, 656-665.	27.0	1,692
100	Use of a Hanging Weight System for Coronary Artery Occlusion in Mice. Journal of Visualized Experiments, 2011, , .	0.3	21
101	Partial Netrin-1 Deficiency Aggravates Acute Kidney Injury. PLoS ONE, 2011, 6, e14812.	2.5	48
102	A2B adenosine receptor signaling influences epithelial cell-leukocyte crosstalk to induce tissue protection in acute and chronic experimental colitis. Inflammatory Bowel Diseases, 2011, 17, S70.	1.9	1
103	Enhancement of purinergic signaling mediates protection during acute experimental colitis. Inflammatory Bowel Diseases, 2011, 17, S73.	1.9	0
104	Selective induction of endothelial P2Y6 nucleotide receptor promotes vascular inflammation. Blood, 2011, 117, 2548-2555.	1.4	106
105	Extracellular Adenosine: A Safety Signal That Dampens Hypoxia-Induced Inflammation During Ischemia. Antioxidants and Redox Signaling, 2011, 15, 2221-2234.	5.4	83
106	Ischemia and reperfusionâ€"from mechanism to translation. Nature Medicine, 2011, 17, 1391-1401.	30.7	2,524
107	Signaling through the A2B Adenosine Receptor Dampens Endotoxin-Induced Acute Lung Injury. Journal of Immunology, 2010, 184, 5271-5279.	0.8	154
108	Selective Deletion of the A1 Adenosine Receptor Abolishes Heart-Rate Slowing Effects of Intravascular Adenosine In Vivo. PLoS ONE, 2009, 4, e6784.	2.5	89

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109	Targeting the A2B adenosine receptor during gastrointestinal ischemia and inflammation. Expert Opinion on Therapeutic Targets, 2009, 13, 1267-1277.	3.4	51
110	Hypoxia-inducible factorâ€"dependent induction of netrin-1 dampens inflammation caused by hypoxia. Nature Immunology, 2009, 10, 195-202.	14.5	369
111	Central role of Sp1-regulated CD39 in hypoxia/ischemia protection. Blood, 2009, 113, 224-232.	1.4	196
112	Adenosine: An Old Drug Newly Discovered. Anesthesiology, 2009, 111, 904-915.	2.5	214
113	Neutrophils as Sources of Extracellular Nucleotides: Functional Consequences at the Vascular Interface. Trends in Cardiovascular Medicine, 2008, 18, 103-107.	4.9	110
114	Hypoxia-Inducible Factor-1 Is Central to Cardioprotection. Circulation, 2008, 118, 166-175.	1.6	372
115	A2B adenosine receptor dampens hypoxia-induced vascular leak. Blood, 2008, 111, 2024-2035.	1.4	265
116	HIF-1â€"dependent repression of adenosine kinase attenuates hypoxia-induced vascular leak. Blood, 2008, 111, 5571-5580.	1.4	186
117	A2B adenosine receptor signaling attenuates acute lung injury by enhancing alveolar fluid clearance in mice. Journal of Clinical Investigation, 2008, 118, 3301-15.	8.2	259
118	CD39/Ectonucleoside Triphosphate Diphosphohydrolase 1 Provides Myocardial Protection During Cardiac Ischemia/Reperfusion Injury. Circulation, 2007, 116, 1784-1794.	1.6	192
119	Cardioprotection by Ecto-5â€²-Nucleotidase (CD73) and A2BAdenosine Receptors. Circulation, 2007, 115, 1581-1590.	1.6	412
120	Systematic evaluation of a novel model for cardiac ischemic preconditioning in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2533-H2540.	3.2	123
121	Nucleotide Metabolism and Cell-Cell Interactions. , 2006, 341, 73-88.		93
122	ATP Release From Activated Neutrophils Occurs via Connexin 43 and Modulates Adenosine-Dependent Endothelial Cell Function. Circulation Research, 2006, 99, 1100-1108.	4.5	314
123	Ecto-5â€²-nucleotidase (CD73) regulation by hypoxia-inducible factor-1 mediates permeability changes in intestinal epithelia. Journal of Clinical Investigation, 2002, 110, 993-1002.	8.2	569
124	Ecto-5â€²-nucleotidase (CD73) regulation by hypoxia-inducible factor-1 mediates permeability changes in intestinal epithelia. Journal of Clinical Investigation, 2002, 110, 993-1002.	8.2	429
125	Neutrophil Intercellular Communication in Acute Lung Injury: Emerging Roles of Microparticles and Gap Junctions. American Journal of Respiratory Cell and Molecular Biology, 0, , .	2.9	2
126	Alternative adenosine Receptor activation: The netrin-Adora2b link. Frontiers in Pharmacology, 0, 13, .	3.5	9