

Herbert Zimmermann

List of Publications by Citations

Source: <https://exaly.com/author-pdf/451690/herbert-zimmermann-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

6,465
citations

35
h-index

70
g-index

70
ext. papers

7,020
ext. citations

5.3
avg. IF

6.36
L-index

#	Paper	IF	Citations
65	Extracellular metabolism of ATP and other nucleotides. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2000 , 362, 299-309	3.4	756
64	The E-NTPDase family of ectonucleotidases: Structure function relationships and pathophysiological significance. <i>Purinergic Signalling</i> , 2006 , 2, 409-30	3.8	680
63	Cellular function and molecular structure of ecto-nucleotidases. <i>Purinergic Signalling</i> , 2012 , 8, 437-502	3.8	672
62	Purinergic signalling in the nervous system: an overview. <i>Trends in Neurosciences</i> , 2009 , 32, 19-29	13.3	630
61	Signalling via ATP in the nervous system. <i>Trends in Neurosciences</i> , 1994 , 17, 420-6	13.3	394
60	Ectonucleotidases: Some recent developments and a note on nomenclature. <i>Drug Development Research</i> , 2001 , 52, 44-56	5.1	331
59	Targeted disruption of cd73/ecto-5' nucleotidase alters thromboregulation and augments vascular inflammatory response. <i>Circulation Research</i> , 2004 , 95, 814-21	15.7	203
58	Extracellular nucleotide signaling in adult neural stem cells: synergism with growth factor-mediated cellular proliferation. <i>Development (Cambridge)</i> , 2006 , 133, 675-84	6.6	174
57	Polyoxometalates--a new class of potent ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 5943-7	2.9	151
56	Chapter 30 Ecto-nucleotidases--molecular structures, catalytic properties, and functional roles in the nervous system. <i>Progress in Brain Research</i> , 1999 , 120, 371-385	2.9	151
55	Expression of the ecto-ATPase NTPDase2 in the germinal zones of the developing and adult rat brain. <i>European Journal of Neuroscience</i> , 2003 , 17, 1355-64	3.5	137
54	Nucleotide signaling in nervous system development. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 452, 573-88	4.6	133
53	Functional characterization of rat ecto-ATPase and ecto-ATP diphosphohydrolase after heterologous expression in CHO cells. <i>FEBS Journal</i> , 1999 , 262, 102-7		124
52	Distribution of ectonucleotidases in the rodent brain revisited. <i>Cell and Tissue Research</i> , 2008 , 334, 199-217	11.7	121
51	Ectonucleotidases in the Nervous System. <i>Novartis Foundation Symposium</i> , 2008 , 113-130		111
50	Trophic functions of nucleotides in the central nervous system. <i>Trends in Neurosciences</i> , 2009 , 32, 189-98	13.3	94
49	Polyoxometalates--potent and selective ecto-nucleotidase inhibitors. <i>Biochemical Pharmacology</i> , 2015 , 93, 171-81	6	89

48	Association of the ecto-ATPase NTPDase2 with glial cells of the peripheral nervous system. <i>Glia</i> , 2004 , 45, 124-32	9	85
47	▣Methylene-ADP (AOPCP) Derivatives and Analogues: Development of Potent and Selective ecto-5FNucleotidase (CD73) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 6248-63	8.3	78
46	Functional expression of the ecto-ATPase NTPDase2 and of nucleotide receptors by neuronal progenitor cells in the adult murine hippocampus. <i>Journal of Neuroscience Research</i> , 2005 , 80, 600-10	4.4	76
45	Hydrolysis of diadenosine polyphosphates by nucleotide pyrophosphatases/phosphodiesterases. <i>FEBS Journal</i> , 2003 , 270, 2971-8		68
44	ATP and acetylcholine, equal brethren. <i>Neurochemistry International</i> , 2008 , 52, 634-48	4.4	64
43	Purinergic signaling in neural development. <i>Seminars in Cell and Developmental Biology</i> , 2011 , 22, 194-204	4.5	63
42	Uracil nucleotides stimulate human neural precursor cell proliferation and dopaminergic differentiation: involvement of MEK/ERK signalling. <i>Journal of Neurochemistry</i> , 2006 , 99, 913-23	6	62
41	Coordinate pathways for nucleotide and EGF signaling in cultured adult neural progenitor cells. <i>Journal of Cell Science</i> , 2009 , 122, 2524-33	5.3	59
40	Extracellular ATP and other nucleotides-ubiquitous triggers of intercellular messenger release. <i>Purinergic Signalling</i> , 2016 , 12, 25-57	3.8	57
39	Nucleoside-5Tmonophosphates as prodrugs of adenosine A2A receptor agonists activated by ecto-5Tnucleotidase. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 7669-77	8.3	56
38	Sequencing, functional expression and characterization of rat NTPDase6, a nucleoside diphosphatase and novel member of the ecto-nucleoside triphosphate diphosphohydrolase family. <i>Biochemical Journal</i> , 2000 , 351, 639-647	3.8	53
37	Knockdown of tissue nonspecific alkaline phosphatase impairs neural stem cell proliferation and differentiation. <i>Neuroscience Letters</i> , 2010 , 485, 208-11	3.3	50
36	P2X7 receptors at adult neural progenitor cells of the mouse subventricular zone. <i>Neuropharmacology</i> , 2013 , 73, 122-37	5.5	46
35	5Tnucleotidase from the electric ray electric lobe. Primary structure and relation to mammalian and procaryotic enzymes. <i>FEBS Journal</i> , 1991 , 202, 855-61		43
34	Ectonucleotidases in Müller glial cells of the rodent retina: Involvement in inhibition of osmotic cell swelling. <i>Purinergic Signalling</i> , 2007 , 3, 423-33	3.8	40
33	Tissue-nonspecific Alkaline Phosphatase Regulates Purinergic Transmission in the Central Nervous System During Development and Disease. <i>Computational and Structural Biotechnology Journal</i> , 2015 , 13, 95-100	6.8	39
32	NTPDase2 and purinergic signaling control progenitor cell proliferation in neurogenic niches of the adult mouse brain. <i>Stem Cells</i> , 2015 , 33, 253-64	5.8	39
31	Purinergic receptor activation inhibits osmotic glial cell swelling in the diabetic rat retina. <i>Experimental Eye Research</i> , 2008 , 87, 385-93	3.7	37

30	Determination of native oligomeric state and substrate specificity of rat NTPDase1 and NTPDase2 after heterologous expression in <i>Xenopus</i> oocytes. <i>FEBS Journal</i> , 2003 , 270, 1802-9		34
29	Structure-Activity Relationship of Purine and Pyrimidine Nucleotides as Ecto-5FNucleotidase (CD73) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 3677-3695	8.3	33
28	ATP inhibits NMDA receptors after heterologous expression and in cultured hippocampal neurons and attenuates NMDA-mediated neurotoxicity. <i>Journal of Neuroscience</i> , 2003 , 23, 4996-5003	6.6	32
27	5FNucleotidase activates and an inhibitory antibody prevents neuritic differentiation of PC12 cells. <i>European Journal of Neuroscience</i> , 1995 , 7, 1172-9	3.5	31
26	A new, sensitive ecto-5FNucleotidase assay for compound screening. <i>Analytical Biochemistry</i> , 2014 , 446, 53-8	3.1	28
25	2-Substituted β -Methylene-ADP Derivatives: Potent Competitive Ecto-5FNucleotidase (CD73) Inhibitors with Variable Binding Modes. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 2941-2957	8.3	26
24	Nucleotides affect neurogenesis and dopaminergic differentiation of mouse fetal midbrain-derived neural precursor cells. <i>Purinergic Signalling</i> , 2010 , 6, 417-28	3.8	25
23	Prostatic acid phosphatase, a neglected ectonucleotidase. <i>Purinergic Signalling</i> , 2009 , 5, 273-5	3.8	24
22	X-Ray Co-Crystal Structure Guides the Way to Subnanomolar Competitive Ecto-5?-Nucleotidase (CD73) Inhibitors for Cancer Immunotherapy. <i>Advanced Therapeutics</i> , 2019 , 2, 1900075	4.9	22
21	Putative synaptic vesicle nucleotide transporter identified as glyceraldehyde-3-phosphate dehydrogenase. <i>Journal of Neurochemistry</i> , 1994 , 63, 1924-31	6	22
20	Sequencing, functional expression and characterization of rat NTPDase6, a nucleoside diphosphatase and novel member of the ecto-nucleoside triphosphate diphosphohydrolase family. <i>Biochemical Journal</i> , 2000 , 351, 639	3.8	22
19	Assignment of ecto-nucleoside triphosphate diphosphohydrolase-1/cd39 expression to microglia and vasculature of the brain. <i>European Journal of Neuroscience</i> , 2000 , 12, 4357-4366	3.5	22
18	Disruption of the Microglial ADP Receptor P2Y Enhances Adult Hippocampal Neurogenesis. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 134	6.1	21
17	Ectonucleoside triphosphate diphosphohydrolases and ecto-5FNucleotidase in purinergic signaling: how the field developed and where we are now. <i>Purinergic Signalling</i> , 2021 , 17, 117-125	3.8	19
16	Association of ecto-5FNucleotidase with specific cell types in the adult and developing rat olfactory organ. <i>Journal of Comparative Neurology</i> , 1998 , 393, 528-37	3.4	17
15	History of ectonucleotidases and their role in purinergic signaling. <i>Biochemical Pharmacology</i> , 2021 , 187, 114322	6	17
14	In Memoriam Geoffrey Burnstock: Creator of Purinergic Signaling. <i>Function</i> , 2020 , 1,	6.1	15
13	Activation of Adenylyl Cyclase Causes Stimulation of Adenosine Receptors. <i>Cellular Physiology and Biochemistry</i> , 2018 , 45, 2516-2528	3.9	14

12	The medial habenula contains a specific nonstellate subtype of astrocyte expressing the ectonucleotidase NTPDase2. <i>Glia</i> , 2012 , 60, 1860-70	9	13
11	NTPDase2 and the P2Y1 receptor are not required for mammalian eye formation. <i>Purinergic Signalling</i> , 2015 , 11, 155-60	3.8	10
10	Assignment of ecto-nucleoside triphosphate diphosphohydrolase-1/cd39 expression to microglia and vasculature of the brain. <i>European Journal of Neuroscience</i> , 2000 , 12, 4357-4366	3.5	9
9	Tissue-Nonspecific Alkaline Phosphatase in the Developing Brain and in Adult Neurogenesis. <i>Sub-Cellular Biochemistry</i> , 2015 , 76, 61-84	5.5	8
8	Expression of ectonucleotidases in the prosencephalon of melatonin-proficient C3H and melatonin-deficient C57Bl mice: spatial distribution and time-dependent changes. <i>Cell and Tissue Research</i> , 2015 , 362, 163-76	4.2	8
7	Fluorescent Probes for Ecto-5'Nucleotidase (CD73). <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 2253-2260.	4.3	6
6	Victor P. Whittaker (1919-2016). <i>Journal of Neurochemistry</i> , 2016 , 139, 333-335	6	4
5	Melatonin receptor deficiency decreases and temporally shifts ecto-5'Nucleotidase mRNA levels in mouse prosencephalon. <i>Cell and Tissue Research</i> , 2016 , 365, 147-56	4.2	4
4	Identification of adenine-N9-(methoxy)ethyl-bisphosphonate as NPP1 inhibitor attenuates NPPase activity in human osteoarthritic chondrocytes. <i>Purinergic Signalling</i> , 2019 , 15, 247-263	3.8	3
3	Victor P. Whittaker: The Discovery of the Synaptosome and Its Implications. <i>Neuromethods</i> , 2018 , 9-26	0.4	1
2	Comments on Cui Q-Q et al: "Hippocampal CD 39/ENTPD 1 promotes mouse depression-like behavior". <i>EMBO Reports</i> , 2020 , 21, e50737	6.5	1
1	Maria Teresa Miras Portugal (1948-2021): in memoriam. <i>Purinergic Signalling</i> , 2021 , 17, 515-517	3.8	