

Allen Kaasik

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

10,402
citations

185998

28
h-index

143772

57
g-index

61
all docs

61
docs citations

61
times ranked

22897
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
3	PGC-1 β and PGC-1 α Regulate Mitochondrial Density in Neurons. <i>Journal of Biological Chemistry</i> , 2009, 284, 21379-21385.	1.6	256
4	Energetic Crosstalk Between Organelles. <i>Circulation Research</i> , 2001, 89, 153-159.	2.0	240
5	Mutant A53T α -Synuclein Induces Neuronal Death by Increasing Mitochondrial Autophagy. <i>Journal of Biological Chemistry</i> , 2011, 286, 10814-10824.	1.6	226
6	Regulation of mitochondrial matrix volume. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C157-C163.	2.1	207
7	Principles of the mitochondrial fusion and fission cycle in neurons. <i>Journal of Cell Science</i> , 2013, 126, 2187-97.	1.2	118
8	Role of Mitochondrial Dynamics in Neuronal Development: Mechanism for Wolfram Syndrome. <i>PLoS Biology</i> , 2016, 14, e1002511.	2.6	101
9	Loss of mitochondrial membrane potential is associated with increase in mitochondrial volume: Physiological role in neurones. <i>Journal of Cellular Physiology</i> , 2006, 206, 347-353.	2.0	96
10	BECN1 is involved in the initiation of mitophagy. <i>Autophagy</i> , 2014, 10, 1105-1119.	4.3	92
11	Miro proteins prime mitochondria for Parkin translocation and mitophagy. <i>EMBO Journal</i> , 2019, 38, .	3.5	87
12	Balancing ER-Mitochondrial Ca ²⁺ Fluxes in Health and Disease. <i>Trends in Cell Biology</i> , 2021, 31, 598-612.	3.6	69
13	Mitochondrial biogenesis is required for axonal growth. <i>Development (Cambridge)</i> , 2016, 143, 1981-92.	1.2	67
14	Nitric oxide inhibits cardiac energy production via inhibition of mitochondrial creatine kinase. <i>FEBS Letters</i> , 1999, 444, 75-77.	1.3	57
15	Endoplasmic reticulum potassium Ca^{2+} hydrogen exchanger and small conductance calcium-activated potassium channel activities are essential for ER calcium uptake in neurons and cardiomyocytes. <i>Journal of Cell Science</i> , 2012, 125, 625-633.	1.2	49
16	Wfs1- deficient rats develop primary symptoms of Wolfram syndrome: insulin-dependent diabetes, optic nerve atrophy and medullary degeneration. <i>Scientific Reports</i> , 2017, 7, 10220.	1.6	46
17	Molecular Mechanisms and Regulation of Mammalian Mitophagy. <i>Cells</i> , 2022, 11, 38.	1.8	45
18	From energy store to energy flux: a study in creatine kinase deficient fast skeletal muscle. <i>FASEB Journal</i> , 2003, 17, 708-710.	0.2	44

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19	Dehydroepiandrosterone Inhibits Complex I of the Mitochondrial Respiratory Chain and is Neurotoxic In Vitro and In Vivo at High Concentrations. <i>Toxicological Sciences</i> , 2006, 93, 348-356.	1.4	41
20	Mitochondrial Swelling Impairs the Transport of Organelles in Cerebellar Granule Neurons. <i>Journal of Biological Chemistry</i> , 2007, 282, 32821-32826.	1.6	41
21	Up-regulation of lysosomal cathepsinâ€fL and autophagy during neuronal death induced by reduced serum and potassium. <i>European Journal of Neuroscience</i> , 2005, 22, 1023-1031.	1.2	39
22	Mitochondria as a source of mechanical signals in cardiomyocytes. <i>Cardiovascular Research</i> , 2010, 87, 83-91.	1.8	39
23	Energetic and Dynamic: How Mitochondria Meet Neuronal Energy Demands. <i>PLoS Biology</i> , 2013, 11, e1001755.	2.6	37
24	A novel role of KEAP1/PGAM5 complex: ROS sensor for inducing mitophagy. <i>Redox Biology</i> , 2021, 48, 102186.	3.9	36
25	Neuroprotective action of group I metabotropic glutamate receptor agonists against oxygenâ€“glucose deprivation-induced neuronal death. <i>Brain Research</i> , 2000, 853, 370-373.	1.1	35
26	Neural cell adhesion molecule Negr1 deficiency in mouse results in structural brain endophenotypes and behavioral deviations related to psychiatric disorders. <i>Scientific Reports</i> , 2019, 9, 5457.	1.6	33
27	Dehydroepiandrosterone with other neurosteroids preserve neuronal mitochondria from calcium overload. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2003, 87, 97-103.	1.2	32
28	A novel mechanism of regulation of cardiac contractility by mitochondrial functional state. <i>FASEB Journal</i> , 2004, 18, 1219-1227.	0.2	31
29	Compound heterozygous SPATA5 variants in four families and functional studies of SPATA5 deficiency. <i>European Journal of Human Genetics</i> , 2018, 26, 407-419.	1.4	29
30	Potassium fluxes across the endoplasmic reticulum and their role in endoplasmic reticulum calcium homeostasis. <i>Cell Calcium</i> , 2015, 58, 79-85.	1.1	28
31	Sarcoplasmic reticulum function in determining atrioventricular contractile differences in rat heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H2498-H2507.	1.5	26
32	Neurodegeneration and production of the new cells in the dentate gyrus of juvenile rat hippocampus after a single administration of ethanol. <i>Brain Research</i> , 2003, 978, 115-123.	1.1	26
33	The effects of glutamate receptor antagonists on cerebellar granule cell survival and development. <i>NeuroToxicology</i> , 2008, 29, 101-108.	1.4	21
34	Energetic state is a strong regulator of sarcoplasmic reticulum Ca ²⁺ loss in cardiac muscle: different efficiencies of different energy sources. <i>Cardiovascular Research</i> , 2009, 83, 89-96.	1.8	20
35	The combined impact of IgLON family proteins Lsamp and Neurotrimin on developing neurons and behavioral profiles in mouse. <i>Brain Research Bulletin</i> , 2018, 140, 5-18.	1.4	20
36	Method for in situ detection of the mitochondrial function in neurons. <i>Journal of Neuroscience Methods</i> , 2004, 137, 87-95.	1.3	18

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37	Distinct effects of atypical 1,4-dihydropyridines on 1-methyl-4-phenylpyridinium-induced toxicity. <i>Cell Biochemistry and Function</i> , 2007, 25, 15-21.	1.4	18
38	Enhanced Negative Inotropic Effect of an Adenosine A1-Receptor Agonist in Rat Left Atria in Hypothyroidism. <i>Journal of Molecular and Cellular Cardiology</i> , 1994, 26, 509-517.	0.9	17
39	Early Intervention and Lifelong Treatment with GLP1 Receptor Agonist Liraglutide in a Wolfram Syndrome Rat Model with an Emphasis on Visual Neurodegeneration, Sensorineural Hearing Loss and Diabetic Phenotype. <i>Cells</i> , 2021, 10, 3193.	1.8	17
40	Gene expression patterns and environmental enrichment-induced effects in the hippocampi of mice suggest importance of Lsamp in plasticity. <i>Frontiers in Neuroscience</i> , 2015, 9, 205.	1.4	15
41	Uniting the divergent Wolfram syndrome-linked proteins WFS1 and CISD2 as modulators of Ca ²⁺ signaling. <i>Science Signaling</i> , 2021, 14, eabc6165.	1.6	15
42	Mitochondrial transport proteins RHOT1 and RHOT2 serve as docking sites for PRKN-mediated mitophagy. <i>Autophagy</i> , 2019, 15, 930-931.	4.3	14
43	Thyroid hormones differentially affect sarcoplasmic reticulum function in rat atria and ventricles. <i>Molecular and Cellular Biochemistry</i> , 1997, 176, 119-126.	1.4	13
44	Altered Tryptophan Metabolism in the Brain of Cystatin B-Deficient Mice: A Model System for Progressive Myoclonus Epilepsy. <i>Epilepsia</i> , 2006, 47, 1650-1654.	2.6	13
45	Seizures, Ataxia, and Neuronal Loss in Cystatin B Heterozygous Mice. <i>Epilepsia</i> , 2007, 48, 752-757.	2.6	13
46	Chemokine receptor CCR5 expression in in vitro differentiating human fetal neural stem/progenitor and glioblastoma cells. <i>Neuroscience Letters</i> , 2006, 394, 22-27.	1.0	12
47	Parvalbumin alters mitochondrial dynamics and affects cell morphology. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 4643-4666.	2.4	12
48	Mitochondrial Mobility and Neuronal Recovery. <i>New England Journal of Medicine</i> , 2016, 375, 1295-1296.	13.9	10
49	Do nuclear condensation or fragmentation and DNA fragmentation reflect the mode of neuronal death?. <i>NeuroReport</i> , 1999, 10, 1937-1942.	0.6	8
50	Membrane-bound Phosphodiesterases in Rat Myocardium. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 48, 962-964.	1.2	7
51	Recent advances in understanding IP3R function with focus on ER-mitochondrial Ca ²⁺ transfers. <i>Current Opinion in Physiology</i> , 2020, 17, 80-88.	0.9	7
52	Low Particulate Type IV Phosphodiesterase Activity in Hypothyroid Rat Atria. <i>Journal of Molecular and Cellular Cardiology</i> , 1994, 26, 1587-1592.	0.9	6
53	Decreased expression of phospholamban is not associated with lower beta-adrenergic activation in rat atria. <i>Molecular and Cellular Biochemistry</i> , 2001, 223, 109-115.	1.4	6
54	Indole-like Trk receptor antagonists. <i>European Journal of Medicinal Chemistry</i> , 2016, 121, 541-552.	2.6	6

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55	Thyroid hormones differentially affect sarcoplasmic reticulum function in rat atria and ventricles. , 1997, , 119-126.		6
56	Negative feedback system to maintain cell ROS homeostasis: KEAP1-PGAM5 complex senses mitochondrially generated ROS to induce mitophagy. Autophagy, 2022, 18, 2249-2251.	4.3	5
57	Principles of mitochondrial fusion and fission cycle in neurons. SpringerPlus, 2015, 4, L34.	1.2	3
58	Mechanisms of thyroid hormone control over sensitivity and maximal contractile responsiveness to β^2 -adrenergic agonists in atria. , 1998, , 419-426.		2
59	The Expression of RAAS Key Receptors, Agtr2 and Bdkrb1, Is Downregulated at an Early Stage in a Rat Model of Wolfram Syndrome. Genes, 2021, 12, 1717.	1.0	2
60	Direct mechanical communication between mitochondria and nucleus in cardiac cells. FASEB Journal, 2006, 20, A819.	0.2	0
61	Mitochondrial biogenesis is required for axonal growth. Journal of Cell Science, 2016, 129, e1.2-e1.2.	1.2	0