Allen Kaasik

List of Publications by Year
in descending order

61 papers	10,402 citations	186265 28 h-index	144013 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). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	PGC-1Î± and PGC-1Î² Regulate Mitochondrial Density in Neurons. Journal of Biological Chemistry, 2009, 284, 21379-21385.	3.4	256
4	Energetic Crosstalk Between Organelles. Circulation Research, 2001, 89, 153-159.	4.5	240
5	Mutant A53T Î±-Synuclein Induces Neuronal Death by Increasing Mitochondrial Autophagy. Journal of Biological Chemistry, 2011, 286, 10814-10824.	3.4	226
6	Regulation of mitochondrial matrix volume. American Journal of Physiology - Cell Physiology, 2007, 292, C157-C163.	4.6	207
7	Principles of the mitochondrial fusion and fission cycle in neurons. Journal of Cell Science, 2013, 126, 2187-97.	2.0	118
8	Role of Mitochondrial Dynamics in Neuronal Development: Mechanism for Wolfram Syndrome. PLoS Biology, 2016, 14, e1002511.	5.6	101
9	Loss of mitochondrial membrane potential is associated with increase in mitochondrial volume: Physiological role in neurones. Journal of Cellular Physiology, 2006, 206, 347-353.	4.1	96
10	BECN1 is involved in the initiation of mitophagy. Autophagy, 2014, 10, 1105-1119.	9.1	92
11	Miro proteins prime mitochondria for Parkin translocation and mitophagy. EMBO Journal, 2019, 38, .	7.8	87
12	Balancing ER-Mitochondrial Ca2+ Fluxes in Health and Disease. Trends in Cell Biology, 2021, 31, 598-612.	7.9	69
13	Mitochondrial biogenesis is required for axonal growth. Development (Cambridge), 2016, 143, 1981-92.	2.5	67
14	Nitric oxide inhibits cardiac energy production via inhibition of mitochondrial creatine kinase. FEBS Letters, 1999, 444, 75-77.	2.8	57
15	Endoplasmic reticulum potassiumâ€“hydrogen exchanger and small conductance calcium-activated potassium channel activities are essential for ER calcium uptake in neurons and cardiomyocytes. Journal of Cell Science, 2012, 125, 625-633.	2.0	49
16	Wfs1- deficient rats develop primary symptoms of Wolfram syndrome: insulin-dependent diabetes, optic nerve atrophy and medullary degeneration. Scientific Reports, 2017, 7, 10220.	3.3	46
17	Molecular Mechanisms and Regulation of Mammalian Mitophagy. Cells, 2022, 11, 38.	4.1	45
18	From energy store to energy flux: a study in creatine kinase deficient fast skeletal muscle. FASEB Journal, 2003, 17, 708-710.	0.5	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. Toxicological Sciences, 2006, 93, 348-356.	3.1	41
20	Mitochondrial Swelling Impairs the Transport of Organelles in Cerebellar Granule Neurons. Journal of Biological Chemistry, 2007, 282, 32821-32826.	3.4	41
21	Up-regulation of lysosomal cathepsinâ€ƒL and autophagy during neuronal death induced by reduced serum and potassium. European Journal of Neuroscience, 2005, 22, 1023-1031.	2.6	39
22	Mitochondria as a source of mechanical signals in cardiomyocytes. Cardiovascular Research, 2010, 87, 83-91.	3.8	39
23	Energetic and Dynamic: How Mitochondria Meet Neuronal Energy Demands. PLoS Biology, 2013, 11, e1001755.	5.6	37
24	A novel role of KEAP1/PGAM5 complex: ROS sensor for inducing mitophagy. Redox Biology, 2021, 48, 102186.	9.0	36
25	Neuroprotective action of group I metabotropic glutamate receptor agonists against oxygenâ€“glucose deprivation-induced neuronal death. Brain Research, 2000, 853, 370-373.	2.2	35
26	Neural cell adhesion molecule Negr1 deficiency in mouse results in structural brain endophenotypes and behavioral deviations related to psychiatric disorders. Scientific Reports, 2019, 9, 5457.	3.3	33
27	Dehydroepiandrosterone with other neurosteroids preserve neuronal mitochondria from calcium overload. Journal of Steroid Biochemistry and Molecular Biology, 2003, 87, 97-103.	2.5	32
28	A novel mechanism of regulation of cardiac contractility by mitochondrial functional state. FASEB Journal, 2004, 18, 1219-1227.	0.5	31
29	Compound heterozygous SPATA5 variants in four families and functional studies of SPATA5 deficiency. European Journal of Human Genetics, 2018, 26, 407-419.	2.8	29
30	Potassium fluxes across the endoplasmic reticulum and their role in endoplasmic reticulum calcium homeostasis. Cell Calcium, 2015, 58, 79-85.	2.4	28
31	Sarcoplasmic reticulum function in determining atrioventricular contractile differences in rat heart. American Journal of Physiology - Heart and Circulatory Physiology, 1997, 273, H2498-H2507.	3.2	26
32	Neurodegeneration and production of the new cells in the dentate gyrus of juvenile rat hippocampus after a single administration of ethanol. Brain Research, 2003, 978, 115-123.	2.2	26
33	The effects of glutamate receptor antagonists on cerebellar granule cell survival and development. NeuroToxicology, 2008, 29, 101-108.	3.0	21
34	Energetic state is a strong regulator of sarcoplasmic reticulum Ca2+ loss in cardiac muscle: different efficiencies of different energy sources. Cardiovascular Research, 2009, 83, 89-96.	3.8	20
35	The combined impact of IgLON family proteins Lsamp and Neurotrimin on developing neurons and behavioral profiles in mouse. Brain Research Bulletin, 2018, 140, 5-18.	3.0	20
36	Method for in situ detection of the mitochondrial function in neurons. Journal of Neuroscience Methods, 2004, 137, 87-95.	2.5	18

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37	Distinct effects of atypical 1,4-dihydropyridines on 1-methyl-4-phenylpyridinium-induced toxicity. Cell Biochemistry and Function, 2007, 25, 15-21.	2.9	18
38	Enhanced Negative Inotropic Effect of an Adenosine A1-Receptor Agonist in Rat Left Atria in Hypothyroidism. Journal of Molecular and Cellular Cardiology, 1994, 26, 509-517.	1.9	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. Cells, 2021, 10, 3193.	4.1	17
40	Gene expression patterns and environmental enrichment-induced effects in the hippocampi of mice suggest importance of Lsamp in plasticity. Frontiers in Neuroscience, 2015, 9, 205.	2.8	15
41	Uniting the divergent Wolfram syndromeâ€“linked proteins WFS1 and CISD2 as modulators of Ca ²⁺ signaling. Science Signaling, 2021, 14, eabc6165.	3.6	15
42	Mitochondrial transport proteins RHOT1 and RHOT2 serve as docking sites for PRKN-mediated mitophagy. Autophagy, 2019, 15, 930-931.	9.1	14
43	Thyroid hormones differentially affect sarcoplasmic reticulum function in rat atria and ventricles. Molecular and Cellular Biochemistry, 1997, 176, 119-126.	3.1	13
44	Altered Tryptophan Metabolism in the Brain of Cystatin B-Deficient Mice: A Model System for Progressive Myoclonus Epilepsy. Epilepsia, 2006, 47, 1650-1654.	5.1	13
45	Seizures, Ataxia, and Neuronal Loss in Cystatin B Heterozygous Mice. Epilepsia, 2007, 48, 752-757.	5.1	13
46	Chemokine receptor CCR5 expression in in vitro differentiating human fetal neural stem/progenitor and glioblastoma cells. Neuroscience Letters, 2006, 394, 22-27.	2.1	12
47	Parvalbumin alters mitochondrial dynamics and affects cell morphology. Cellular and Molecular Life Sciences, 2018, 75, 4643-4666.	5.4	12
48	Mitochondrial Mobility and Neuronal Recovery. New England Journal of Medicine, 2016, 375, 1295-1296.	27.0	10
49	Do nuclear condensation or fragmentation and DNA fragmentation reflect the mode of neuronal death?. NeuroReport, 1999, 10, 1937-1942.	1.2	8
50	Membrane-bound Phosphodiesterases in Rat Myocardium. Journal of Pharmacy and Pharmacology, 2011, 48, 962-964.	2.4	7
51	Recent advances in understanding IP3R function with focus on ER-mitochondrial Ca2+ transfers. Current Opinion in Physiology, 2020, 17, 80-88.	1.8	7
52	Low Particulate Type IV Phosphodiesterase Activity in Hypothyroid Rat Atria. Journal of Molecular and Cellular Cardiology, 1994, 26, 1587-1592.	1.9	6
53	Decreased expression of phospholamban is not associated with lower beta-adrenergic activation in rat atria. Molecular and Cellular Biochemistry, 2001, 223, 109-115.	3.1	6
54	Indole-like Trk receptor antagonists. European Journal of Medicinal Chemistry, 2016, 121, 541-552.	5.5	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.	9.1	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 Î²-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.	2.4	2
60	Direct mechanical communication between mitochondria and nucleus in cardiac cells. FASEB Journal, 2006, 20, A819.	0.5	0
61	Mitochondrial biogenesis is required for axonal growth. Journal of Cell Science, 2016, 129, e1.2-e1.2.	2.0	0