

Masanori Izumi

List of Publications by Year in descending order

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65
papers

29,011
citations

87843

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110317

64
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66
all docs

66
docs citations

66
times ranked

37018
citing authors

#	ARTICLE	IF	CITATIONS
1	Autophagy: Renovation of Cells and Tissues. <i>Cell</i> , 2011, 147, 728-741.	13.5	4,844
2	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
3	Loss of autophagy in the central nervous system causes neurodegeneration in mice. <i>Nature</i> , 2006, 441, 880-884.	13.7	3,209
4	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
5	Impairment of starvation-induced and constitutive autophagy in Atg7-deficient mice. <i>Journal of Cell Biology</i> , 2005, 169, 425-434.	2.3	2,180
6	Homeostatic Levels of p62 Control Cytoplasmic Inclusion Body Formation in Autophagy-Deficient Mice. <i>Cell</i> , 2007, 131, 1149-1163.	13.5	1,925
7	Loss of the autophagy protein Atg16L1 enhances endotoxin-induced IL-1 β production. <i>Nature</i> , 2008, 456, 264-268.	13.7	1,837
8	PINK1 stabilized by mitochondrial depolarization recruits Parkin to damaged mitochondria and activates latent Parkin for mitophagy. <i>Journal of Cell Biology</i> , 2010, 189, 211-221.	2.3	1,600
9	A Role for NBR1 in Autophagosomal Degradation of Ubiquitinated Substrates. <i>Molecular Cell</i> , 2009, 33, 505-516.	4.5	974
10	Essential role for autophagy protein Atg7 in the maintenance of axonal homeostasis and the prevention of axonal degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14489-14494.	3.3	560
11	Inhibition of Autophagy Prevents Hippocampal Pyramidal Neuron Death after Hypoxic-Ischemic Injury. <i>American Journal of Pathology</i> , 2008, 172, 454-469.	1.9	443
12	The Atg8 Conjugation System Is Indispensable for Proper Development of Autophagic Isolation Membranes in Mice. <i>Molecular Biology of the Cell</i> , 2008, 19, 4762-4775.	0.9	424
13	Mobilization of Rubisco and Stroma-Localized Fluorescent Proteins of Chloroplasts to the Vacuole by an <i>ATG</i> Gene-Dependent Autophagic Process. <i>Plant Physiology</i> , 2008, 148, 142-155.	2.3	325
14	Autophagy Plays a Role in Chloroplast Degradation during Senescence in Individually Darkened Leaves. <i>Plant Physiology</i> , 2009, 149, 885-893.	2.3	313
15	Proteotoxic Stress Induces Phosphorylation of p62/SQSTM1 by ULK1 to Regulate Selective Autophagic Clearance of Protein Aggregates. <i>PLoS Genetics</i> , 2015, 11, e1004987.	1.5	250
16	Entire Photodamaged Chloroplasts Are Transported to the Central Vacuole by Autophagy. <i>Plant Cell</i> , 2017, 29, 377-394.	3.1	209
17	The Autophagic Degradation of Chloroplasts via Rubisco-Containing Bodies Is Specifically Linked to Leaf Carbon Status But Not Nitrogen Status in Arabidopsis. <i>Plant Physiology</i> , 2010, 154, 1196-1209.	2.3	143
18	Autophagy Supports Biomass Production and Nitrogen Use Efficiency at the Vegetative Stage in Rice. <i>Plant Physiology</i> , 2015, 168, 60-73.	2.3	130

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19	Autophagy Contributes to Nighttime Energy Availability for Growth in Arabidopsis. <i>Plant Physiology</i> , 2013, 161, 1682-1693.	2.3	124
20	Roles of autophagy in chloroplast recycling. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 512-521.	0.5	110
21	RBCS1A and RBCS3B, two major members within the Arabidopsis RBCS multigene family, function to yield sufficient Rubisco content for leaf photosynthetic capacity. <i>Journal of Experimental Botany</i> , 2012, 63, 2159-2170.	2.4	98
22	Establishment of Monitoring Methods for Autophagy in Rice Reveals Autophagic Recycling of Chloroplasts and Root Plastids during Energy Limitation. <i>Plant Physiology</i> , 2015, 167, 1307-1320.	2.3	97
23	Proteasome Dysfunction Activates Autophagy and the Keap1-Nrf2 Pathway. <i>Journal of Biological Chemistry</i> , 2014, 289, 24944-24955.	1.6	95
24	Selective Elimination of Membrane-Damaged Chloroplasts via Microautophagy. <i>Plant Physiology</i> , 2018, 177, 1007-1026.	2.3	91
25	Autophagy Protects against Colitis by the Maintenance of Normal Gut Microflora and Secretion of Mucus. <i>Journal of Biological Chemistry</i> , 2015, 290, 20511-20526.	1.6	85
26	<i>Atg9a</i> deficiency causes axon-specific lesions including neuronal circuit dysgenesis. <i>Autophagy</i> , 2018, 14, 764-777.	4.3	82
27	Evidence for contribution of autophagy to Rubisco degradation during leaf senescence in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2013, 36, 1147-1159.	2.8	79
28	The unexpected role of polyubiquitin chains in the formation of fibrillar aggregates. <i>Nature Communications</i> , 2015, 6, 6116.	5.8	75
29	Structural and Functional Analysis of a Novel Interaction Motif within UFM1-activating Enzyme 5 (UBA5) Required for Binding to Ubiquitin-like Proteins and Ufmylation. <i>Journal of Biological Chemistry</i> , 2016, 291, 9025-9041.	1.6	69
30	Sequestosome 1/p62 Protein Is Associated with Autophagic Removal of Excess Hepatic Endoplasmic Reticulum in Mice. <i>Journal of Biological Chemistry</i> , 2016, 291, 18663-18674.	1.6	65
31	Dissection of the role of p62/Sqstm1 in activation of Nrf2 during xenophagy. <i>FEBS Letters</i> , 2014, 588, 822-828.	1.3	62
32	LC3B is indispensable for selective autophagy of p62 but not basal autophagy. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 309-315.	1.0	52
33	The CCR4-NOT deadenylase complex controls Atg7-dependent cell death and heart function. <i>Science Signaling</i> , 2018, 11, .	1.6	51
34	Chloroplast Protein Turnover: The Influence of Extrplastidic Processes, Including Autophagy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 828.	1.8	51
35	Regulation of Chlorophagy during Photoinhibition and Senescence: Lessons from Mitophagy. <i>Plant and Cell Physiology</i> , 2018, 59, 1135-1143.	1.5	50
36	Vacuolar Protein Degradation via Autophagy Provides Substrates to Amino Acid Catabolic Pathways as an Adaptive Response to Sugar Starvation in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 1363-1376.	1.5	49

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37	Neuronal autophagy: Going the distance to the axon. <i>Autophagy</i> , 2008, 4, 94-96.	4.3	48
38	Synthesis of Keap1-phosphorylated p62 and Keap1-Nrf2 protein-protein interaction inhibitors and their inhibitory activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5956-5959.	1.0	39
39	Chloroplast Autophagy and Ubiquitination Combine to Manage Oxidative Damage and Starvation Responses. <i>Plant Physiology</i> , 2020, 183, 1531-1544.	2.3	38
40	Autophagy Contributes to the Quality Control of Leaf Mitochondria. <i>Plant and Cell Physiology</i> , 2021, 62, 229-247.	1.5	37
41	Autophagic Turnover of Chloroplasts: Its Roles and Regulatory Mechanisms in Response to Sugar Starvation. <i>Frontiers in Plant Science</i> , 2019, 10, 280.	1.7	35
42	Autophagy mitigates high-temperature injury in pollen development of <i>Arabidopsis thaliana</i> . <i>Developmental Biology</i> , 2019, 456, 190-200.	0.9	26
43	The changes of leaf carbohydrate contents as a regulator of autophagic degradation of chloroplasts via Rubisco-containing bodies during leaf senescence. <i>Plant Signaling and Behavior</i> , 2011, 6, 685-687.	1.2	23
44	Chlorophagy is <i>ATG</i> gene-dependent microautophagy process. <i>Plant Signaling and Behavior</i> , 2019, 14, 1554469.	1.2	21
45	Deletion of exons encoding carboxypeptidase domain of <i>Nna1</i> results in Purkinje cell degeneration (<i>pcd</i>) phenotype. <i>Journal of Neurochemistry</i> , 2018, 147, 557-572.	2.1	20
46	L-leucine and SPNS1 coordinately ameliorate dysfunction of autophagy in mouse and human Niemann-Pick type C disease. <i>Scientific Reports</i> , 2017, 7, 15944.	1.6	19
47	Mitophagy in plants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129916.	1.1	17
48	Vacuolar digestion of entire damaged chloroplasts in <i>Arabidopsis thaliana</i> is accomplished by chlorophagy. <i>Autophagy</i> , 2017, 13, 1239-1240.	4.3	15
49	Deficiency of autophagy leads to significant changes of metabolic profiles in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2013, 8, e25023.	1.2	14
50	Heat Shock Proteins Support Refolding and Shredding of Misfolded Proteins. <i>Plant Physiology</i> , 2019, 180, 1777-1778.	2.3	13
51	RCB-mediated chlorophagy caused by oversupply of nitrogen suppresses phosphate-starvation stress in plants. <i>Plant Physiology</i> , 2021, 185, 318-330.	2.3	12
52	Transport of rice cyclobutane pyrimidine dimer photolyase into mitochondria relies on a targeting sequence located in its C-terminal internal region. <i>Plant Journal</i> , 2014, 79, 951-963.	2.8	11
53	From <i>Arabidopsis</i> to cereal crops: Conservation of chloroplast protein degradation by autophagy indicates its fundamental role in plant productivity. <i>Plant Signaling and Behavior</i> , 2015, 10, e1101199.	1.2	10
54	Roles of the Clock in Controlling Starch Metabolism. <i>Plant Physiology</i> , 2019, 179, 1441-1443.	2.3	7

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55	Partial or entire: Distinct responses of two types of chloroplast autophagy. <i>Plant Signaling and Behavior</i> , 2017, 12, e1393137.	1.2	6
56	An additional role for chloroplast proteins— an amino acid reservoir for energy production during sugar starvation. <i>Plant Signaling and Behavior</i> , 2019, 14, 1552057.	1.2	6
57	Chlorophagy does not require PLANT U-BOX4-mediated ubiquitination. <i>Plant Signaling and Behavior</i> , 2021, 16, 1861769.	1.2	5
58	Development of 1,8-naphthalimide dyes for rapid imaging of subcellular compartments in plants. <i>Chemical Communications</i> , 2022, 58, 1685-1688.	2.2	5
59	Development of potent inhibitors for strigolactone receptor DWARF 14. <i>Chemical Communications</i> , 2020, 56, 14917-14919.	2.2	3
60	GFS9 Affects Piecemeal Autophagy of Plastids in Young Seedlings of <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2021, 62, 1372-1386.	1.5	3
61	Mitochondrial Dynamics for Pollen Development. <i>Plant Physiology</i> , 2019, 180, 686-687.	2.3	1
62	How To Identify Autophagy Modulators. <i>Plant Physiology</i> , 2019, 181, 853-854.	2.3	1
63	Editorial: Organelle Autophagy in Plant Development. <i>Frontiers in Plant Science</i> , 2020, 11, 502.	1.7	1
64	Chloroplast proteotoxic stress-induced autophagy is involved in the degradation of chloroplast proteins in <i>Chlamydomonas reinhardtii</i> . <i>Plant and Cell Physiology</i> , 2021, 62, e1-e31.	1.5	1
65	Discovery of Mitochondrial Endonucleases. <i>Plant Physiology</i> , 2018, 178, 1428-1429.	2.3	0