Sascha Martens

List of Publications by Year
in descending order

63 papers	12,869 citations	101384 36 h-index	123241 61 g-index
97 all docs	97 docs citations	97 times ranked	21948 citing authors

#	Article	IF	Citations
1	Targeted protein degradation: from small molecules to complex organellesâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2022, 1510, 79-99.	1.8	5
2	Mechanism of Atg9 recruitment by Atg11 in the cytoplasm-to-vacuole targeting pathway. Journal of Biological Chemistry, 2022, 298, 101573.	1.6	5
3	Reconstitution of membrane curvature sensing by the autophagy initiation machinery. Biophysical Journal, 2022, 121, 82a.	0.2	0
4	A mathematical model of p62-ubiquitin aggregates in autophagy. Journal of Mathematical Biology, 2022, 84, 3.	0.8	2
5	Multiple weak interactions through intrinsically disordered regions mediate the recruitment of Atg9 vesicles by Atg11 to the PAS. , 2022, 1, 161-164.		0
6	Reconstitution of cargo-induced LC3 lipidation in mammalian selective autophagy. Science Advances, 2021, 7, .	4.7	33
7	Reconstitution defines the roles of p62, NBR1 and TAX1BP1 in ubiquitin condensate formation and autophagy initiation. Nature Communications, 2021, 12, 5212.	5.8	87
8	Recruitment and Activation of the ULK1/Atg1 Kinase Complex in Selective Autophagy. Journal of Molecular Biology, 2020, 432, 123-134.	2.0	79
9	Molecular Mechanisms of Selective Autophagy. Journal of Molecular Biology, 2020, 432, 1-2.	2.0	20
10	Out of Phase: How IPMK Inhibits TFEB. Developmental Cell, 2020, 55, 517-519.	3.1	2
11	Reconstitution of autophagosome nucleation defines Atg9 vesicles as seeds for membrane formation. Science, 2020, 369, .	6.0	159
12	Activation and targeting of ATG8 protein lipidation. Cell Discovery, 2020, 6, 23.	3.1	111
13	A Conserved LIR Motif in Connexins Mediates Ubiquitin-Independent Binding to LC3/GABARAP Proteins. Cells, 2020, 9, 902.	1.8	4
14	A PI3K-WIPI2 positive feedback loop allosterically activates LC3 lipidation in autophagy. Journal of Cell Biology, 2020, 219, .	2.3	59
15	A cross-kingdom conserved ER-phagy receptor maintains endoplasmic reticulum homeostasis during stress. ELife, 2020, 9, .	2.8	139
16	How RB1CC1/FIP200 claws its way to autophagic engulfment of SQSTM1/p62-ubiquitin condensates. Autophagy, 2019, 15, 1475-1477.	4.3	13
17	FIP200 Claw Domain Binding to p62 Promotes Autophagosome Formation at Ubiquitin Condensates. Molecular Cell, 2019, 74, 330-346.e11.	4.5	223
18	Intrinsic lipid binding activity of <scp>ATG</scp> 16L1 supports efficient membrane anchoring and autophagy. EMBO Journal, 2019, 38, .	3.5	59

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19	Studies of Receptor-Atg8 Interactions During Selective Autophagy. Methods in Molecular Biology, 2019, 1880, 189-196.	0.4	3
20	Sorting out â€œnonâ€canonicalâ€• autophagy. EMBO Journal, 2018, 37, .	3.5	5
21	p62 filaments capture and present ubiquitinated cargos for autophagy. EMBO Journal, 2018, 37, .	3.5	254
22	A division of labor in mTORC1 signaling and autophagy. Science Signaling, 2018, 11, .	1.6	17
23	p62-mediated phase separation at the intersection of the ubiquitin-proteasome system and autophagy. Journal of Cell Science, 2018, 131, .	1.2	105
24	Phasing out the badâ€"How SQSTM1/p62 sequesters ubiquitinated proteins for degradation by autophagy. Autophagy, 2018, 14, 1280-1282.	4.3	20
25	Beyond Atg8 binding: The role of AIM/LIR motifs in autophagy. Autophagy, 2017, 13, 978-979.	4.3	33
26	Molecular definitions of autophagy and related processes. EMBO Journal, 2017, 36, 1811-1836.	3.5	1,230
27	Conserved Atg8 recognition sites mediate Atg4 association with autophagosomal membranes and Atg8 deconjugation. EMBO Reports, 2017, 18, 765-780.	2.0	59
28	Atg4 proteolytic activity can be inhibited by Atg1 phosphorylation. Nature Communications, 2017, 8, 295.	5.8	70
29	Phosphorylation of OPTN by TBK1 enhances its binding to Ub chains and promotes selective autophagy of damaged mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4039-4044.	3.3	554
30	Necessary, but also Sufficient?. Trends in Cell Biology, 2016, 26, 467-469.	3.6	0
31	No ATG8s, no problem? How LC3/GABARAP proteins contribute to autophagy. Journal of Cell Biology, 2016, 215, 761-763.	2.3	19
32	Insights into autophagosome biogenesis from in vitro reconstitutions. Journal of Structural Biology, 2016, 196, 29-36.	1.3	13
33	Accessory Interaction Motifs in the Atg19 Cargo Receptor Enable Strong Binding to the Clustered Ubiquitin-related Atg8 Protein. Journal of Biological Chemistry, 2016, 291, 18799-18808.	1.6	16
34	Phospholipids in Autophagosome Formation and Fusion. Journal of Molecular Biology, 2016, 428, 4819-4827.	2.0	24
35	Loss of the interferon-Î³-inducible regulatory immunity-related GTPase (IRG), Irgm1, causes activation of effector IRG proteins on lysosomes, damaging lysosomal function and predicting the dramatic susceptibility of Irgm1-deficient mice to infection. BMC Biology, 2016, 14, 33.	1.7	46
36	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701

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37	Mechanisms of Selective Autophagy. Journal of Molecular Biology, 2016, 428, 1714-1724.	2.0	469
38	Mechanism of cargo-directed Atg8 conjugation during selective autophagy. ELife, 2016, 5, .	2.8	57
39	Oligomerization of p62 allows for selection of ubiquitinated cargo and isolation membrane during selective autophagy. ELife, 2015, 4, e08941.	2.8	193
40	In vitro systems for Atg8 lipidation. Methods, 2015, 75, 37-43.	1.9	18
41	How cells coordinate waste removal through their major proteolytic pathways. Nature Cell Biology, 2015, 17, 841-842.	4.6	7
42	Excluding the unwanted during autophagy. Cell Cycle, 2014, 13, 2313-2314.	1.3	4
43	Cargo binding to Atg19 unmasks additional Atg8 binding sites to mediate membraneâ€"cargo apposition during selective autophagy. Nature Cell Biology, 2014, 16, 425-433.	4.6	97
44	Hrr25 kinase promotes selective autophagy by phosphorylating the cargo receptor <scp>A</scp> tg19. EMBO Reports, 2014, 15, 862-870.	2.0	85
45	Dissecting the role of the Atg12â€"Atg5-Atg16 complex during autophagosome formation. Autophagy, 2013, 9, 424-425.	4.3	230
46	Mechanisms and regulation of autophagosome formation. Current Opinion in Cell Biology, 2012, 24, 496-501.	2.6	120
47	Mechanism and functions of membrane binding by the Atg5-Atg12/Atg16 complex during autophagosome formation. EMBO Journal, 2012, 31, 4304-4317.	3.5	378
48	The activation mechanism of Irga6, an interferon-inducible GTPase contributing to mouse resistance against Toxoplasma gondii. BMC Biology, 2011, 9, 7.	1.7	31
49	C2 Domains and Membrane Fusion. Current Topics in Membranes, 2011, 68, 141-159.	0.5	9
50	Forming giant vesicles with controlled membrane composition, asymmetry, and contents. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9431-9436.	3.3	174
51	Role of C2 domain proteins during synaptic vesicle exocytosis. Biochemical Society Transactions, 2010, 38, 213-216.	1.6	23
52	HIV-1 Nef membrane association depends on charge, curvature, composition and sequence. Nature Chemical Biology, 2010, 6, 46-53.	3.9	88
53	Localisation and Mislocalisation of the Interferon-Inducible Immunity-Related GTPase, Irgm1 (LRG-47) in Mouse Cells. PLoS ONE, 2010, 5, e8648.	1.1	26
54	Membrane Curvature in Synaptic Vesicle Fusion and Beyond. Cell, 2010, 140, 601-605.	13.5	188

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55	Doc2b Is a High-Affinity Ca ²⁺ Sensor for Spontaneous Neurotransmitter Release. Science, 2010, 327, 1614-1618.	6.0	271
56	Regulatory interactions between IRG resistance GTPases in the cellular response to Toxoplasma gondii. EMBO Journal, 2008, 27, 2495-2509.	3.5	145
57	Mechanisms of membrane fusion: disparate players and common principles. Nature Reviews Molecular Cell Biology, 2008, 9, 543-556.	16.1	608
58	Synaptotagmin-1 Utilizes Membrane Bending and SNARE Binding to Drive Fusion Pore Expansion. Molecular Biology of the Cell, 2008, 19, 5093-5103.	0.9	116
59	How Synaptotagmin Promotes Membrane Fusion. Science, 2007, 316, 1205-1208.	6.0	484
60	Architectural and mechanistic insights into an EHD ATPase involved in membrane remodelling. Nature, 2007, 449, 923-927.	13.7	282
61	The Interferon-Inducible GTPases. Annual Review of Cell and Developmental Biology, 2006, 22, 559-589.	4.0	148
62	Disruption of Toxoplasma gondii Parasitophorous Vacuoles by the Mouse p47-Resistance GTPases. PLoS Pathogens, 2005, 1, e24.	2.1	314
63	Mechanisms Regulating the Positioning of Mouse p47 Resistance GTPases LRG-47 and IIGP1 on Cellular Membranes: Retargeting to Plasma Membrane Induced by Phagocytosis. Journal of Immunology, 2004, 173, 2594-2606.	0.4	114