Sharon A Tooze

List of Publications by Year
in descending order

145 papers	28,002 citations	17440 63 h-index	11607 135 g-index
152 all docs	152 docs citations	152 times ranked	34623 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	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	9.1	2,064
4	Molecular definitions of autophagy and related processes. EMBO Journal, 2017, 36, 1811-1836.	7.8	1,230
5	The autophagosome: origins unknown, biogenesis complex. Nature Reviews Molecular Cell Biology, 2013, 14, 759-774.	37.0	1,105
6	Autophagy pathway: Cellular and molecular mechanisms. Autophagy, 2018, 14, 207-215.	9.1	984
7	Starvation and ULK1-dependent cycling of mammalian Atg9 between the TGN and endosomes. Journal of Cell Science, 2006, 119, 3888-3900.	2.0	709
8	Identification of a candidate therapeutic autophagy-inducing peptide. Nature, 2013, 494, 201-206.	27.8	669
9	WIPI2 Links LC3 Conjugation with PI3P, Autophagosome Formation, and Pathogen Clearance by Recruiting Atg12â€“5-16L1. Molecular Cell, 2014, 55, 238-252.	9.7	650
10	Autophagy in major human diseases. EMBO Journal, 2021, 40, e108863.	7.8	615
11	Mammalian Atg18 (WIPI2) localizes to omegasome-anchored phagophores and positively regulates LC3 lipidation. Autophagy, 2010, 6, 506-522.	9.1	566
12	The origin of the autophagosomal membrane. Nature Cell Biology, 2010, 12, 831-835.	10.3	501
13	Coordination of membrane events during autophagy by multiple class III PI3-kinase complexes. Journal of Cell Biology, 2009, 186, 773-782.	5.2	428
14	Autophagy Proteins Regulate the Secretory Component of Osteoclastic Bone Resorption. Developmental Cell, 2011, 21, 966-974.	7.0	401
15	siRNA Screening of the Kinome Identifies ULK1 as a Multidomain Modulator of Autophagy. Journal of Biological Chemistry, 2007, 282, 25464-25474.	3.4	397
16	Kinase-Inactivated ULK Proteins Inhibit Autophagy via Their Conserved C-Terminal Domains Using an Atg13-Independent Mechanism. Molecular and Cellular Biology, 2009, 29, 157-171.	2.3	381
17	Microtubules Facilitate Autophagosome Formation and Fusion of Autophagosomes with Endosomes. Traffic, 2006, 7, 129-145.	2.7	380
18	TBC1D14 regulates autophagosome formation via Rab11- and ULK1-positive recycling endosomes. Journal of Cell Biology, 2012, 197, 659-675.	5.2	348

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19	Digesting the Expanding Mechanisms of Autophagy. Trends in Cell Biology, 2016, 26, 624-635.	7.9	303
20	Cell-free protein sorting to the regulated and constitutive secretory pathways. Cell, 1990, 60, 837-847.	28.9	289
21	p38 signaling inhibits mTORC1-independent autophagy in senescent human CD8+ T cells. Journal of Clinical Investigation, 2014, 124, 4004-4016.	8.2	285
22	A comprehensive glossary of autophagy-related molecules and processes (2ndedition). Autophagy, 2011, 7, 1273-1294.	9.1	255
23	Early endosomes and endosomal coatomer are required for autophagy. Journal of Cell Biology, 2009, 185, 305-321.	5.2	254
24	Binding of the Atg1/ULK1 kinase to the ubiquitin-like protein Atg8 regulates autophagy. EMBO Journal, 2012, 31, 3691-3703.	7.8	237
25	Autophagosome formationâ€"The role of ULK1 and Beclin1â€"PI3KC3 complexes in setting the stage. Seminars in Cancer Biology, 2013, 23, 301-309.	9.6	228
26	Coordinated regulation of autophagy by p38Î± MAPK through mAtg9 and p38IP. EMBO Journal, 2010, 29, 27-40.	7.8	222
27	A molecular perspective of mammalian autophagosome biogenesis. Journal of Biological Chemistry, 2018, 293, 5386-5395.	3.4	220
28	Biogenesis of secretory granules in the trans-Golgi network of neuroendocrine and endocrine cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 1998, 1404, 231-244.	4.1	210
29	Bromodomain Protein BRD4 Is a Transcriptional Repressor of Autophagy and Lysosomal Function. Molecular Cell, 2017, 66, 517-532.e9.	9.7	196
30	PIKfyve Regulation of Endosomeâ€Linked Pathways. Traffic, 2009, 10, 883-893.	2.7	186
31	Endocytosis and Autophagy: Exploitation or Cooperation?. Cold Spring Harbor Perspectives in Biology, 2014, 6, a018358-a018358.	5.5	174
32	Endocytosis and autophagy: Shared machinery for degradation. BioEssays, 2013, 35, 34-45.	2.5	166
33	<scp>TBC</scp>1D14 regulates autophagy via the <scp>TRAPP</scp> complex and <scp>ATG</scp>9 traffic. EMBO Journal, 2016, 35, 281-301.	7.8	166
34	Emerging roles of ATG proteins and membrane lipids in autophagosome formation. Cell Discovery, 2020, 6, 32.	6.7	149
35	A comprehensive glossary of autophagy-related molecules and processes. Autophagy, 2010, 6, 438-448.	9.1	144
36	ATG9A shapes the forming autophagosome through Arfaptin 2 and phosphatidylinositol 4-kinase IIIÎ². Journal of Cell Biology, 2019, 218, 1634-1652.	5.2	141

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37	Regulation of nutrient-sensitive autophagy by uncoordinated 51-like kinases 1 and 2. Autophagy, 2013, 9, 361-373.	9.1	127
38	Inhibition of LRRK2 kinase activity stimulates macroautophagy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2900-2910.	4.1	124
39	Homotypic Fusion of Immature Secretory Granules During Maturation Requires Syntaxin 6. Molecular Biology of the Cell, 2001, 12, 1699-1709.	2.1	123
40	<i>Listeria</i>phospholipases subvert host autophagic defenses by stalling pre-autophagosomal structures. EMBO Journal, 2013, 32, 3066-3078.	7.8	123
41	Evolution of Atg1 function and regulation. Autophagy, 2009, 5, 758-765.	9.1	118
42	Molecular determinants regulating selective binding of autophagy adapters and receptors to ATG8 proteins. Nature Communications, 2019, 10, 2055.	12.8	118
43	Requirement for GTP hydrolysis in the formation of secretory vesicles. Nature, 1990, 347, 207-208.	27.8	113
44	Imaging endosomes and autophagosomes in whole mammalian cells using correlative cryo-fluorescence and cryo-soft X-ray microscopy (cryo-CLXM). Ultramicroscopy, 2014, 143, 77-87.	1.9	112
45	Activation of ULK Kinase and Autophagy by GABARAP Trafficking from the Centrosome Is Regulated by WAC and GM130. Molecular Cell, 2015, 60, 899-913.	9.7	112
46	New insights into the function of Atg9. FEBS Letters, 2010, 584, 1319-1326.	2.8	107
47	Genome-wide siRNA screen reveals amino acid starvation-induced autophagy requires SCOC and WAC. EMBO Journal, 2012, 31, 1931-1946.	7.8	105
48	Trimeric G-proteins of thetrans-Golgi network are involved in the formation of constitutive secretory vesicles and immature secretory granules. FEBS Letters, 1991, 294, 239-243.	2.8	100
49	The puzzling origin of the autophagosomal membrane. F1000 Biology Reports, 2011, 3, 25.	4.0	98
50	Syntaxin 6: The Promiscuous Behaviour of a SNARE Protein. Traffic, 2001, 2, 606-611.	2.7	96
51	Changing directions: clathrin-mediated transport between the Golgi and endosomes. Journal of Cell Science, 2003, 116, 763-771.	2.0	94
52	Centriolar Satellites Control GABARAP Ubiquitination and GABARAP-Mediated Autophagy. Current Biology, 2017, 27, 2123-2136.e7.	3.9	90
53	A switch from canonical to noncanonical autophagy shapes B cell responses. Science, 2017, 355, 641-647.	12.6	88
54	Members of the autophagy class III phosphatidylinositol 3-kinase complex I interact with GABARAP and GABARAPL1 via LIR motifs. Autophagy, 2019, 15, 1333-1355.	9.1	86

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55	ATG4B contains a C-terminal LIR motif important for binding and efficient cleavage of mammalian orthologs of yeast Atg8. Autophagy, 2017, 13, 834-853.	9.1	84
56	Atg9 Trafficking in Mammalian Cells. Autophagy, 2007, 3, 54-56.	9.1	82
57	Liaisons dangereuses: autophagy, neuronal survival and neurodegeneration. Current Opinion in Neurobiology, 2008, 18, 504-515.	4.2	82
58	Biogenesis of secretory granules Implications arising from the immature secretory granule in the regulated pathway of secretion. FEBS Letters, 1991, 285, 220-224.	2.8	81
59	Pathogenic Parkinsonâ€™s disease mutations across the functional domains of LRRK2 alter the autophagic/lysosomal response to starvation. Biochemical and Biophysical Research Communications, 2013, 441, 862-866.	2.1	79
60	<scp>SNX</scp> 18 regulates <scp>ATG</scp> 9A trafficking from recycling endosomes by recruiting Dynaminâ€2. EMBO Reports, 2018, 19, .	4.5	73
61	Homotypic Fusion of Immature Secretory Granules during Maturation in a Cell-free Assay. Journal of Cell Biology, 1998, 143, 1831-1844.	5.2	72
62	mTOR independent regulation of macroautophagy by Leucine Rich Repeat Kinase 2 via Beclin-1. Scientific Reports, 2016, 6, 35106.	3.3	69
63	Synaptotagmin IV is necessary for the maturation of secretory granules in PC12 cells. Journal of Cell Biology, 2006, 173, 241-251.	5.2	67
64	Direct and GTP-dependent Interaction of ADP-ribosylation Factor 1 with Clathrin Adaptor Protein AP-1 on Immature Secretory Granules. Journal of Biological Chemistry, 2000, 275, 21862-21869.	3.4	66
65	Membrane dynamics and organelle biogenesisâ€"lipid pipelines and vesicular carriers. BMC Biology, 2017, 15, 102.	3.8	63
66	APâ€1 recruitment to VAMP4 is modulated by phosphorylationâ€dependent binding of PACSâ€1. EMBO Reports, 2003, 4, 1182-1189.	4.5	62
67	Membrane trafficking events that partake in autophagy. Current Opinion in Cell Biology, 2010, 22, 150-156.	5.4	62
68	The Golgi as an Assembly Line to the Autophagosome. Trends in Biochemical Sciences, 2020, 45, 484-496.	7.5	61
69	pH-dependent processing of secretogranin II by the endopeptidase PC2 in isolated immature secretory granules. Biochemical Journal, 1997, 321, 65-74.	3.7	60
70	Vps34 PI 3-kinase inactivation enhances insulin sensitivity through reprogramming of mitochondrial metabolism. Nature Communications, 2017, 8, 1804.	12.8	59
71	Axonal autophagosome maturation defect through failure of ATG9A sorting underpins pathology in AP-4 deficiency syndrome. Autophagy, 2020, 16, 391-407.	9.1	59
72	Proteolytic Processing of Chromogranin B and Secretogranin II by Prohormone Convertases. Journal of Neurochemistry, 2002, 70, 374-383.	3.9	58

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73	Trafficking/sorting and granule biogenesis in theÎ²-cell. Seminars in Cell and Developmental Biology, 2000, 11, 243-251.	5.0	56
74	Site-Specific Cross-Linking Reveals a Differential Direct Interaction of Class 1, 2, and 3 ADP-Ribosylation Factors with Adaptor Protein Complexes 1 and 3. Biochemistry, 2002, 41, 4669-4677.	2.5	56
75	Discovery and progress in our understanding of the regulated secretory pathway in neuroendocrine cells. Histochemistry and Cell Biology, 2008, 129, 243-252.	1.7	56
76	Membrane supply and remodeling during autophagosome biogenesis. Current Opinion in Cell Biology, 2021, 71, 112-119.	5.4	56
77	Recycling endosomes contribute to autophagosome formation. Autophagy, 2012, 8, 1682-1683.	9.1	55
78	Autophagy Captures the Nobel Prize. Cell, 2016, 167, 1433-1435.	28.9	55
79	Expression of WIPI2B counteracts age-related decline in autophagosome biogenesis in neurons. ELife, 2019, 8, .	6.0	54
80	An siRNA screen for ATG protein depletion reveals the extent of the unconventional functions of the autophagy proteome in virus replication. Journal of Cell Biology, 2016, 214, 619-635.	5.2	52
81	Autophagy regulation through Atg9 traffic. Journal of Cell Biology, 2012, 198, 151-153.	5.2	50
82	Autophagy modulates endothelial junctions to restrain neutrophil diapedesis during inflammation. Immunity, 2021, 54, 1989-2004.e9.	14.3	50
83	Regulation of autophagosome formation by Rho kinase. Cellular Signalling, 2013, 25, 1-11.	3.6	49
84	Molecular Pathways Controlling Autophagy in Pancreatic Cancer. Frontiers in Oncology, 2017, 7, 28.	2.8	46
85	Suppression of autophagy during mitosis via CUL4-RING ubiquitin ligases-mediated WIPI2 polyubiquitination and proteasomal degradation. Autophagy, 2019, 15, 1917-1934.	9.1	45
86	ATG9A protects the plasma membrane from programmed and incidental permeabilization. Nature Cell Biology, 2021, 23, 846-858.	10.3	43
87	HRES-1/Rab4 Promotes the Formation of LC3+ Autophagosomes and the Accumulation of Mitochondria during Autophagy. PLoS ONE, 2014, 9, e84392.	2.5	43
88	Biogenesis of secretory granules. Seminars in Cell Biology, 1992, 3, 357-366.	3.4	42
89	GGA function is required for maturation of neuroendocrine secretory granules. EMBO Journal, 2006, 25, 1590-1602.	7.8	42
90	WIPI2b and Atg16L1: setting the stage for autophagosome formation. Biochemical Society Transactions, 2014, 42, 1327-1334.	3.4	42

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91	Chapter 17 Correlative Light and Electron Microscopy. Methods in Enzymology, 2009, 452, 261-275.	1.0	41
92	SAMM50 acts with p62 in piecemeal basal- and OXPHOS-induced mitophagy of SAM and MICOS components. Journal of Cell Biology, 2021, 220, .	5.2	39
93	Inhibition of the vacuolar H+-ATPase perturbs the transport, sorting, processing and release of regulated secretory proteins. FEBS Journal, 2000, 267, 5646-5654.	0.2	37
94	In vitro reconstitution of fusion between immature autophagosomes and endosomes. Autophagy, 2009, 5, 676-689.	9.1	37
95	[10] Cell-free formation of immature secretory granules and constitutive secretory vesicles from trans-golgi network. Methods in Enzymology, 1992, 219, 81-93.	1.0	36
96	Trafficking and signaling in mammalian autophagy. IUBMB Life, 2010, 62, 503-508.	3.4	35
97	Current views on the source of the autophagosome membrane. Essays in Biochemistry, 2013, 55, 29-38.	4.7	35
98	Phosphoproteomic identification of ULK substrates reveals VPS15â€dependent ULK/VPS34 interplay in the regulation of autophagy. EMBO Journal, 2021, 40, e105985.	7.8	35
99	WIPI2B links PtdIns3P to LC3 lipidation through binding ATG16L1. Autophagy, 2015, 11, 190-1.	9.1	35
100	Clec16a is Critical for Autolysosome Function and Purkinje Cell Survival. Scientific Reports, 2016, 6, 23326.	3.3	31
101	Formation of secretory vesicles in the biosynthetic pathway. Biochimica Et Biophysica Acta - Molecular Cell Research, 1997, 1358, 6-22.	4.1	29
102	ULK1 Regulates Melanin Levels in MNT-1 Cells Independently of mTORC1. PLoS ONE, 2013, 8, e75313.	2.5	28
103	A mutation in the major autophagy gene, WIPI2, associated with global developmental abnormalities. Brain, 2019, 142, 1242-1254.	7.6	28
104	A Novel Syntaxin 6-Interacting Protein, SHIP164, Regulates Syntaxin 6-Dependent Sorting from Early Endosomes. Traffic, 2010, 11, 688-705.	2.7	27
105	The phosphatidylinositol 3-phosphate-binding protein SNX4 controls ATG9A recycling and autophagy. Journal of Cell Science, 2021, 134, .	2.0	27
106	Assessing Mammalian Autophagy. Methods in Molecular Biology, 2015, 1270, 155-165.	0.9	26
107	Rabs and GAPs in starvation-induced autophagy. Small GTPases, 2016, 7, 265-269.	1.6	22
108	The Role of Autophagy in Pancreatic Cancerâ€"Recent Advances. Biology, 2020, 9, 7.	2.8	22

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109	Emerging roles of transcriptional programs in autophagy regulation. Transcription, 2018, 9, 131-136.	3.1	20
110	MDH1 and MPP7 Regulate Autophagy in Pancreatic Ductal Adenocarcinoma. Cancer Research, 2019, 79, 1884-1898.	0.9	20
111	The role of membrane proteins in mammalian autophagy. Seminars in Cell and Developmental Biology, 2010, 21, 677-682.	5.0	19
112	Rab3D Is Critical for Secretory Granule Maturation in PC12 Cells. PLoS ONE, 2013, 8, e57321.	2.5	18
113	Regulation and recruitment of phosphatidylinositol 4-kinase on immature secretory granules is independent of ADP-ribosylation factor 1. Biochemical Journal, 2002, 363, 289-295.	3.7	16
114	The EmERgence of Autophagosomes. Developmental Cell, 2009, 17, 747-748.	7.0	16
115	mTOR independent alteration in ULK1 Ser758 phosphorylation following chronic LRRK2 kinase inhibition. Bioscience Reports, 2018, 38, .	2.4	16
116	Autophagosome formation: not necessarily an inside job. Cell Research, 2010, 20, 1181-1184.	12.0	15
117	High-throughput screening approaches to identify regulators of mammalian autophagy. Methods, 2015, 75, 96-104.	3.8	14
118	Control of GABARAPâ€mediated autophagy by the Golgi complex, centrosome and centriolar satellites. Biology of the Cell, 2018, 110, 1-5.	2.0	14
119	Phosphorylation of the LIR Domain of SCOC Modulates ATG8 Binding Affinity and Specificity. Journal of Molecular Biology, 2021, 433, 166987.	4.2	14
120	Compartmentalized regulation of autophagy regulators: fine-tuning AMBRA1 by Bcl-2. EMBO Journal, 2011, 30, 1185-1186.	7.8	12
121	The ingenious ULKs: expanding the repertoire of the ULK complex with phosphoproteomics. Autophagy, 2021, 17, 4491-4493.	9.1	12
122	Regulation and recruitment of phosphatidylinositol 4-kinase on immature secretory granules is independent of ADP-ribosylation factor 1. Biochemical Journal, 2002, 363, 289.	3.7	11
123	Homozygous missense <i>WIPI2</i> variants cause a congenital disorder of autophagy with neurodevelopmental impairments of variable clinical severity and disease course. Brain Communications, 2021, 3, fcab183.	3.3	10
124	Autophagy coordinates chondrocyte development and early joint formation in zebrafish. FASEB Journal, 2021, 35, e22002.	0.5	9
125	Analysis of the Sorting of Secretory Proteins to the Regulated Secretory Pathway: A Subcellular Fractionation Approach. , 1998, 88, 285-324.		8
126	ATG9A supplies PtdIns4P to the autophagosome initiation site. Autophagy, 2019, 15, 1660-1661.	9.1	8

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127	Unraveling membrane properties at the organelle-level with LipidDyn. Computational and Structural Biotechnology Journal, 2022, 20, 3604-3614.	4.1	8
128	Centrosome to autophagosome signaling: Specific GABARAP regulation by centriolar satellites. Autophagy, 2017, 13, 2113-2114.	9.1	6
129	Path to autophagy therapeutics with Beth Levine. Nature Reviews Molecular Cell Biology, 2020, 21, 564-565.	37.0	4
130	Fundamental mechanisms deliver the Nobel Prize to Ohsumi. Traffic, 2017, 18, 93-95.	2.7	3
131	Autophagy, Inflammation, and Metabolism (AIM) Center of Biomedical Research Excellence: supporting the next generation of autophagy researchers and fostering international collaborations. Autophagy, 2018, 14, 925-929.	9.1	3
132	SAMM50 is a receptor for basal piecemeal mitophagy and acts with SQSTM1/p62 in OXPHOS-induced mitophagy. Autophagy, 2021, 17, 2656-2658.	9.1	3
133	Protein Trafficking into Autophagosomes. Methods in Molecular Biology, 2008, 445, 147-157.	0.9	2
134	Autophagy Pathway Mapping to Elucidate the Function of Novel Autophagy Regulators Identified by High-Throughput Screening. Methods in Molecular Biology, 2019, 1880, 375-387.	0.9	1
135	Identification and Validation of Novel Autophagy Regulators Using an Endogenous Readout siGENOME Screen. Methods in Molecular Biology, 2019, 1880, 359-374.	0.9	1
136	ATG4: More Than a Protease?. Trends in Cell Biology, 2021, 31, 515-516.	7.9	1
137	GTP-Binding Proteins and Formation of Secretory Vesicles. , 1993, , 147-162.		1
138	TBC1D14 and TRAPP â€“ Regulating autophagy through ATG9. Cell Cycle, 2016, 15, 1797-1798.	2.6	0
139	Molecular Mechanisms of Autophagy-Part B. Journal of Molecular Biology, 2017, 429, 455-456.	4.2	0
140	Soft X-Ray Tomography: Filling the Gap Between Light and Electrons for Imaging Hydrated Biological Cells. Microscopy and Microanalysis, 2017, 23, 986-987.	0.4	0
141	SNAREing an ARP requires a LIR. Journal of Cell Biology, 2018, 217, 803-805.	5.2	0
142	Autophagy, Inflammation, and Metabolism (AIM) Center in its second year. Autophagy, 2019, 15, 1829-1833.	9.1	0
143	Coordination of membrane events during autophagy by multiple class III PI3-kinase complexes. Journal of Experimental Medicine, 2009, 206, i24-i24.	8.5	0
144	Maturation of Secretory Granules. , 1993, , 159-162.		0

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145	Autophagy tunes chondrocyte differentiation and joint developmental precision in zebrafish. , 2022, 1, 214-218.		0