

Sharon A Tooze

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

142 papers	22,245 citations	59 h-index	149 g-index
152 ext. papers	25,392 ext. citations	10.1 avg, IF	6.92 L-index

#	Paper	IF	Citations
142	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
141	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	10.2	2783
140	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. <i>Autophagy</i> , 2008 , 4, 151-75	10.2	1920
139	The autophagosome: origins unknown, biogenesis complex. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 759-74	48.7	923
138	Molecular definitions of autophagy and related processes. <i>EMBO Journal</i> , 2017 , 36, 1811-1836	13	857
137	Autophagy pathway: Cellular and molecular mechanisms. <i>Autophagy</i> , 2018 , 14, 207-215	10.2	614
136	Starvation and ULK1-dependent cycling of mammalian Atg9 between the TGN and endosomes. <i>Journal of Cell Science</i> , 2006 , 119, 3888-900	5.3	606
135	Identification of a candidate therapeutic autophagy-inducing peptide. <i>Nature</i> , 2013 , 494, 201-6	50.4	541
134	WIPI2 links LC3 conjugation with PI3P, autophagosome formation, and pathogen clearance by recruiting Atg12-5-16L1. <i>Molecular Cell</i> , 2014 , 55, 238-52	17.6	477
133	Mammalian Atg18 (WIPI2) localizes to omegasome-anchored phagophores and positively regulates LC3 lipidation. <i>Autophagy</i> , 2010 , 6, 506-22	10.2	468
132	The origin of the autophagosomal membrane. <i>Nature Cell Biology</i> , 2010 , 12, 831-5	23.4	437
131	Coordination of membrane events during autophagy by multiple class III PI3-kinase complexes. <i>Journal of Cell Biology</i> , 2009 , 186, 773-82	7.3	380
130	Kinase-inactivated ULK proteins inhibit autophagy via their conserved C-terminal domains using an Atg13-independent mechanism. <i>Molecular and Cellular Biology</i> , 2009 , 29, 157-71	4.8	345
129	siRNA screening of the kinome identifies ULK1 as a multidomain modulator of autophagy. <i>Journal of Biological Chemistry</i> , 2007 , 282, 25464-74	5.4	330
128	Autophagy proteins regulate the secretory component of osteoclastic bone resorption. <i>Developmental Cell</i> , 2011 , 21, 966-74	10.2	329
127	Microtubules facilitate autophagosome formation and fusion of autophagosomes with endosomes. <i>Traffic</i> , 2006 , 7, 129-45	5.7	313
126	TBC1D14 regulates autophagosome formation via Rab11- and ULK1-positive recycling endosomes. <i>Journal of Cell Biology</i> , 2012 , 197, 659-75	7.3	278

125	Cell-free protein sorting to the regulated and constitutive secretory pathways. <i>Cell</i> , 1990 , 60, 837-47	56.2	270
124	Digesting the Expanding Mechanisms of Autophagy. <i>Trends in Cell Biology</i> , 2016 , 26, 624-635	18.3	238
123	Early endosomes and endosomal coatomeer are required for autophagy. <i>Journal of Cell Biology</i> , 2009 , 185, 305-21	7.3	219
122	A comprehensive glossary of autophagy-related molecules and processes (2nd edition). <i>Autophagy</i> , 2011 , 7, 1273-94	10.2	205
121	Binding of the Atg1/ULK1 kinase to the ubiquitin-like protein Atg8 regulates autophagy. <i>EMBO Journal</i> , 2012 , 31, 3691-703	13	200
120	p38 signaling inhibits mTORC1-independent autophagy in senescent human CD8+ T cells. <i>Journal of Clinical Investigation</i> , 2014 , 124, 4004-16	15.9	199
119	Coordinated regulation of autophagy by p38alpha MAPK through mAtg9 and p38IP. <i>EMBO Journal</i> , 2010 , 29, 27-40	13	192
118	Autophagosome formation--the role of ULK1 and Beclin1-PI3KC3 complexes in setting the stage. <i>Seminars in Cancer Biology</i> , 2013 , 23, 301-9	12.7	188
117	Biogenesis of secretory granules in the trans-Golgi network of neuroendocrine and endocrine cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998 , 1404, 231-44	4.9	179
116	PIKfyve regulation of endosome-linked pathways. <i>Traffic</i> , 2009 , 10, 883-93	5.7	153
115	A molecular perspective of mammalian autophagosome biogenesis. <i>Journal of Biological Chemistry</i> , 2018 , 293, 5386-5395	5.4	151
114	Endocytosis and autophagy: Shared machinery for degradation. <i>BioEssays</i> , 2013 , 35, 34-45	4.1	141
113	Endocytosis and autophagy: exploitation or cooperation?. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6, a018358	10.2	131
112	TBC1D14 regulates autophagy via the TRAPP complex and ATG9 traffic. <i>EMBO Journal</i> , 2016 , 35, 281-301	13	124
111	Bromodomain Protein BRD4 Is a Transcriptional Repressor of Autophagy and Lysosomal Function. <i>Molecular Cell</i> , 2017 , 66, 517-532.e9	17.6	123
110	A comprehensive glossary of autophagy-related molecules and processes. <i>Autophagy</i> , 2010 , 6, 438-48	10.2	123
109	Inhibition of LRRK2 kinase activity stimulates macroautophagy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 2900-2910	4.9	109
108	Regulation of nutrient-sensitive autophagy by uncoordinated 51-like kinases 1 and 2. <i>Autophagy</i> , 2013 , 9, 361-73	10.2	109

107	Homotypic fusion of immature secretory granules during maturation requires syntaxin 6. <i>Molecular Biology of the Cell</i> , 2001 , 12, 1699-709	3.5	109
106	Evolution of Atg1 function and regulation. <i>Autophagy</i> , 2009 , 5, 758-65	10.2	105
105	Requirement for GTP hydrolysis in the formation of secretory vesicles. <i>Nature</i> , 1990 , 347, 207-8	50.4	105
104	Listeria phospholipases subvert host autophagic defenses by stalling pre-autophagosomal structures. <i>EMBO Journal</i> , 2013 , 32, 3066-78	13	100
103	Imaging endosomes and autophagosomes in whole mammalian cells using correlative cryo-fluorescence and cryo-soft X-ray microscopy (cryo-CLXM). <i>Ultramicroscopy</i> , 2014 , 143, 77-87	3.1	92
102	Activation of ULK Kinase and Autophagy by GABARAP Trafficking from the Centrosome Is Regulated by WAC and GM130. <i>Molecular Cell</i> , 2015 , 60, 899-913	17.6	92
101	The puzzling origin of the autophagosomal membrane. <i>F1000 Biology Reports</i> , 2011 , 3, 25		87
100	Syntaxin 6: the promiscuous behaviour of a SNARE protein. <i>Traffic</i> , 2001 , 2, 606-11	5.7	87
99	Trimeric G-proteins of the trans-Golgi network are involved in the formation of constitutive secretory vesicles and immature secretory granules. <i>FEBS Letters</i> , 1991 , 294, 239-43	3.8	86
98	Genome-wide siRNA screen reveals amino acid starvation-induced autophagy requires SCOC and WAC. <i>EMBO Journal</i> , 2012 , 31, 1931-46	13	84
97	New insights into the function of Atg9. <i>FEBS Letters</i> , 2010 , 584, 1319-26	3.8	84
96	Autophagy in major human diseases. <i>EMBO Journal</i> , 2021 , 40, e108863	13	79
95	ATG9A shapes the forming autophagosome through Arfaptin 2 and phosphatidylinositol 4-kinase IIIβ. <i>Journal of Cell Biology</i> , 2019 , 218, 1634-1652	7.3	78
94	Changing directions: clathrin-mediated transport between the Golgi and endosomes. <i>Journal of Cell Science</i> , 2003 , 116, 763-71	5.3	78
93	Atg9 trafficking in Mammalian cells. <i>Autophagy</i> , 2007 , 3, 54-6	10.2	74
92	Biogenesis of secretory granules. Implications arising from the immature secretory granule in the regulated pathway of secretion. <i>FEBS Letters</i> , 1991 , 285, 220-4	3.8	73
91	Liaisons dangereuses: autophagy, neuronal survival and neurodegeneration. <i>Current Opinion in Neurobiology</i> , 2008 , 18, 504-15	7.6	72
90	Pathogenic Parkinson's disease mutations across the functional domains of LRRK2 alter the autophagic/lysosomal response to starvation. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 441, 862-6	3.4	66

89	Homotypic fusion of immature secretory granules during maturation in a cell-free assay. <i>Journal of Cell Biology</i> , 1998 , 143, 1831-44	7.3	66
88	ATG4B contains a C-terminal LIR motif important for binding and efficient cleavage of mammalian orthologs of yeast Atg8. <i>Autophagy</i> , 2017 , 13, 834-853	10.2	62
87	Molecular determinants regulating selective binding of autophagy adapters and receptors to ATG8 proteins. <i>Nature Communications</i> , 2019 , 10, 2055	17.4	62
86	A switch from canonical to noncanonical autophagy shapes B cell responses. <i>Science</i> , 2017 , 355, 641-647	33.3	61
85	Emerging roles of ATG proteins and membrane lipids in autophagosome formation. <i>Cell Discovery</i> , 2020 , 6, 32	22.3	60
84	Centriolar Satellites Control GABARAP Ubiquitination and GABARAP-Mediated Autophagy. <i>Current Biology</i> , 2017 , 27, 2123-2136.e7	6.3	59
83	Direct and GTP-dependent interaction of ADP-ribosylation factor 1 with clathrin adaptor protein AP-1 on immature secretory granules. <i>Journal of Biological Chemistry</i> , 2000 , 275, 21862-9	5.4	59
82	Synaptotagmin IV is necessary for the maturation of secretory granules in PC12 cells. <i>Journal of Cell Biology</i> , 2006 , 173, 241-51	7.3	58
81	Membrane trafficking events that partake in autophagy. <i>Current Opinion in Cell Biology</i> , 2010 , 22, 150-6	9	57
80	mTOR independent regulation of macroautophagy by Leucine Rich Repeat Kinase 2 via Beclin-1. <i>Scientific Reports</i> , 2016 , 6, 35106	4.9	54
79	Proteolytic processing of chromogranin B and secretogranin II by prohormone convertases. <i>Journal of Neurochemistry</i> , 1998 , 70, 374-83	6	54
78	AP-1 recruitment to VAMP4 is modulated by phosphorylation-dependent binding of PACS-1. <i>EMBO Reports</i> , 2003 , 4, 1182-9	6.5	54
77	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. <i>Biochemistry</i> , 2002 , 41, 4669-77	3.2	54
76	pH-dependent processing of secretogranin II by the endopeptidase PC2 in isolated immature secretory granules. <i>Biochemical Journal</i> , 1997 , 321 (Pt 1), 65-74	3.8	52
75	Discovery and progress in our understanding of the regulated secretory pathway in neuroendocrine cells. <i>Histochemistry and Cell Biology</i> , 2008 , 129, 243-52	2.4	50
74	Trafficking/sorting and granule biogenesis in the beta-cell. <i>Seminars in Cell and Developmental Biology</i> , 2000 , 11, 243-51	7.5	48
73	Members of the autophagy class III phosphatidylinositol 3-kinase complex I interact with GABARAP and GABARAPL1 via LIR motifs. <i>Autophagy</i> , 2019 , 15, 1333-1355	10.2	47
72	Autophagy regulation through Atg9 traffic. <i>Journal of Cell Biology</i> , 2012 , 198, 151-3	7.3	46

71	Recycling endosomes contribute to autophagosome formation. <i>Autophagy</i> , 2012 , 8, 1682-3	10.2	46
70	SNX18 regulates ATG9A trafficking from recycling endosomes by recruiting Dynamin-2. <i>EMBO Reports</i> , 2018 , 19,	6.5	45
69	Membrane dynamics and organelle biogenesis-lipid pipelines and vesicular carriers. <i>BMC Biology</i> , 2017 , 15, 102	7.3	40
68	An siRNA screen for ATG protein depletion reveals the extent of the unconventional functions of the autophagy proteome in virus replication. <i>Journal of Cell Biology</i> , 2016 , 214, 619-35	7.3	40
67	Autophagy Captures the Nobel Prize. <i>Cell</i> , 2016 , 167, 1433-1435	56.2	40
66	Regulation of autophagosome formation by Rho kinase. <i>Cellular Signalling</i> , 2013 , 25, 1-11	4.9	38
65	Vps34 PI 3-kinase inactivation enhances insulin sensitivity through reprogramming of mitochondrial metabolism. <i>Nature Communications</i> , 2017 , 8, 1804	17.4	37
64	Biogenesis of secretory granules. <i>Seminars in Cell Biology</i> , 1992 , 3, 357-66		37
63	GGA function is required for maturation of neuroendocrine secretory granules. <i>EMBO Journal</i> , 2006 , 25, 1590-602	13	36
62	Molecular Pathways Controlling Autophagy in Pancreatic Cancer. <i>Frontiers in Oncology</i> , 2017 , 7, 28	5.3	35
61	Inhibition of the vacuolar H ⁺ -ATPase perturbs the transport, sorting, processing and release of regulated secretory proteins. <i>FEBS Journal</i> , 2000 , 267, 5646-54		35
60	Axonal autophagosome maturation defect through failure of ATG9A sorting underpins pathology in AP-4 deficiency syndrome. <i>Autophagy</i> , 2020 , 16, 391-407	10.2	35
59	WIPI2b and Atg16L1: setting the stage for autophagosome formation. <i>Biochemical Society Transactions</i> , 2014 , 42, 1327-34	5.1	34
58	Correlative light and electron microscopy. <i>Methods in Enzymology</i> , 2009 , 452, 261-75	1.7	34
57	Trafficking and signaling in mammalian autophagy. <i>IUBMB Life</i> , 2010 , 62, 503-8	4.7	33
56	Cell-free formation of immature secretory granules and constitutive secretory vesicles from trans-Golgi network. <i>Methods in Enzymology</i> , 1992 , 219, 81-93	1.7	33
55	HRES-1/Rab4 promotes the formation of LC3(+) autophagosomes and the accumulation of mitochondria during autophagy. <i>PLoS ONE</i> , 2014 , 9, e84392	3.7	33
54	Expression of WIPI2B counteracts age-related decline in autophagosome biogenesis in neurons. <i>ELife</i> , 2019 , 8,	8.9	32

53	Current views on the source of the autophagosome membrane. <i>Essays in Biochemistry</i> , 2013 , 55, 29-38	7.6	31
52	In vitro reconstitution of fusion between immature autophagosomes and endosomes. <i>Autophagy</i> , 2009 , 5, 676-89	10.2	31
51	The Golgi as an Assembly Line to the Autophagosome. <i>Trends in Biochemical Sciences</i> , 2020 , 45, 484-496	10.3	28
50	Suppression of autophagy during mitosis via CUL4-RING ubiquitin ligases-mediated WIPI2 polyubiquitination and proteasomal degradation. <i>Autophagy</i> , 2019 , 15, 1917-1934	10.2	25
49	Formation of secretory vesicles in the biosynthetic pathway. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1997 , 1358, 6-22	4.9	25
48	WIPI2B links PtdIns3P to LC3 lipidation through binding ATG16L1. <i>Autophagy</i> , 2015 , 11, 190-1	10.2	25
47	Clec16a is Critical for Autolysosome Function and Purkinje Cell Survival. <i>Scientific Reports</i> , 2016 , 6, 23326	4.9	23
46	ULK1 regulates melanin levels in MNT-1 cells independently of mTORC1. <i>PLoS ONE</i> , 2013 , 8, e75313	3.7	22
45	Assessing mammalian autophagy. <i>Methods in Molecular Biology</i> , 2015 , 1270, 155-65	1.4	21
44	A mutation in the major autophagy gene, WIPI2, associated with global developmental abnormalities. <i>Brain</i> , 2019 , 142, 1242-1254	11.2	18
43	Emerging roles of transcriptional programs in autophagy regulation. <i>Transcription</i> , 2018 , 9, 131-136	4.8	18
42	A novel syntaxin 6-interacting protein, SHIP164, regulates syntaxin 6-dependent sorting from early endosomes. <i>Traffic</i> , 2010 , 11, 688-705	5.7	17
41	Rabs and GAPs in starvation-induced autophagy. <i>Small GTPases</i> , 2016 , 7, 265-269	2.7	17
40	Regulation and recruitment of phosphatidylinositol 4-kinase on immature secretory granules is independent of ADP-ribosylation factor 1. <i>Biochemical Journal</i> , 2002 , 363, 289-295	3.8	15
39	The EmERgence of autophagosomes. <i>Developmental Cell</i> , 2009 , 17, 747-8	10.2	14
38	The role of membrane proteins in mammalian autophagy. <i>Seminars in Cell and Developmental Biology</i> , 2010 , 21, 677-82	7.5	13
37	Rab3D is critical for secretory granule maturation in PC12 cells. <i>PLoS ONE</i> , 2013 , 8, e57321	3.7	13
36	MDH1 and MPP7 Regulate Autophagy in Pancreatic Ductal Adenocarcinoma. <i>Cancer Research</i> , 2019 , 79, 1884-1898	10.1	12

35	mTOR independent alteration in ULK1 Ser758 phosphorylation following chronic LRRK2 kinase inhibition. <i>Bioscience Reports</i> , 2018 , 38,	4.1	12
34	High-throughput screening approaches to identify regulators of mammalian autophagy. <i>Methods</i> , 2015 , 75, 96-104	4.6	11
33	The Role of Autophagy in Pancreatic Cancer-Recent Advances. <i>Biology</i> , 2019 , 9,	4.9	11
32	ATG9A protects the plasma membrane from programmed and incidental permeabilization. <i>Nature Cell Biology</i> , 2021 , 23, 846-858	23.4	11
31	The phosphatidylinositol 3-phosphate-binding protein SNX4 controls ATG9A recycling and autophagy. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	11
30	Membrane supply and remodeling during autophagosome biogenesis. <i>Current Opinion in Cell Biology</i> , 2021 , 71, 112-119	9	11
29	Autophagosome formation: not necessarily an inside job. <i>Cell Research</i> , 2010 , 20, 1181-4	24.7	10
28	Autophagy modulates endothelial junctions to restrain neutrophil diapedesis during inflammation. <i>Immunity</i> , 2021 , 54, 1989-2004.e9	32.3	10
27	Compartmentalized regulation of autophagy regulators: fine-tuning AMBRA1 by Bcl-2. <i>EMBO Journal</i> , 2011 , 30, 1185-6	13	9
26	Regulation and recruitment of phosphatidylinositol 4-kinase on immature secretory granules is independent of ADP-ribosylation factor 1. <i>Biochemical Journal</i> , 2002 , 363, 289-95	3.8	9
25	Control of GABARAP-mediated autophagy by the Golgi complex, centrosome and centriolar satellites. <i>Biology of the Cell</i> , 2018 , 110, 1-5	3.5	8
24	Analysis of the sorting of secretory proteins to the regulated secretory pathway. A subcellular fractionation approach. <i>Methods in Molecular Biology</i> , 1998 , 88, 285-324	1.4	7
23	SAMM50 acts with p62 in piecemeal basal- and OXPHOS-induced mitophagy of SAM and MICOS components. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	7
22	Phosphoproteomic identification of ULK substrates reveals VPS15-dependent ULK/VPS34 interplay in the regulation of autophagy. <i>EMBO Journal</i> , 2021 , 40, e105985	13	7
21	Phosphorylation of the LIR Domain of SCOC Modulates ATG8 Binding Affinity and Specificity. <i>Journal of Molecular Biology</i> , 2021 , 433, 166987	6.5	6
20	ATG9A supplies PtdIns4P to the autophagosome initiation site. <i>Autophagy</i> , 2019 , 15, 1660-1661	10.2	5
19	AP-4 mediated ATG9A sorting underlies axonal and autophagosome biogenesis defects in a mouse model of AP-4 deficiency syndrome		3
18	The ingenious ULKs: expanding the repertoire of the ULK complex with phosphoproteomics. <i>Autophagy</i> , 2021 , 1-3	10.2	3

17	Fundamental mechanisms deliver the Nobel Prize to Ohsumi. <i>Traffic</i> , 2017 , 18, 93-95	5.7	2
16	Centrosome to autophagosome signaling: Specific GABARAP regulation by centriolar satellites. <i>Autophagy</i> , 2017 , 13, 2113-2114	10.2	2
15	Autophagy coordinates chondrocyte development and early joint formation in zebrafish. <i>FASEB Journal</i> , 2021 , 35, e22002	0.9	2
14	Protein trafficking into autophagosomes. <i>Methods in Molecular Biology</i> , 2008 , 445, 147-57	1.4	2
13	Path to autophagy therapeutics with Beth Levine. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 564-568	5.7	2
12	GTP-Binding Proteins and Formation of Secretory Vesicles 1993 , 147-162		1
11	Autophagy Pathway Mapping to Elucidate the Function of Novel Autophagy Regulators Identified by High-Throughput Screening. <i>Methods in Molecular Biology</i> , 2019 , 1880, 375-387	1.4	1
10	Identification and Validation of Novel Autophagy Regulators Using an Endogenous Readout siGENOME Screen. <i>Methods in Molecular Biology</i> , 2019 , 1880, 359-374	1.4	1
9	ATG4: More Than a Protease?. <i>Trends in Cell Biology</i> , 2021 , 31, 515-516	18.3	0
8	SAMM50 is a receptor for basal piecemeal mitophagy and acts with SQSTM1/p62 in OXPHOS-induced mitophagy. <i>Autophagy</i> , 2021 , 17, 2656-2658	10.2	0
7	Homozygous missense variants cause a congenital disorder of autophagy with neurodevelopmental impairments of variable clinical severity and disease course. <i>Brain Communications</i> , 2021 , 3, fcab183	4.5	0
6	Soft X-Ray Tomography: Filling the Gap Between Light and Electrons for Imaging Hydrated Biological Cells. <i>Microscopy and Microanalysis</i> , 2017 , 23, 986-987	0.5	
5	Autophagy, Inflammation, and Metabolism (AIM) Center in its second year. <i>Autophagy</i> , 2019 , 15, 1829-1832	16.6	
4	SNAREing an ARP requires a LIR. <i>Journal of Cell Biology</i> , 2018 , 217, 803-805	7.3	
3	Maturation of Secretory Granules 1993 , 159-162		
2	Coordination of membrane events during autophagy by multiple class III PI3-kinase complexes. <i>Journal of Experimental Medicine</i> , 2009 , 206, i24-i24	16.6	
1	Autophagy tunes chondrocyte differentiation and joint developmental precision in zebrafish 2022 , 1, 214-218		