

# Quan Chen

## List of Publications by Citations

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98  
papers

12,312  
citations

41  
h-index

103  
g-index

103  
ext. papers

14,321  
ext. citations

9.6  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
98	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
97	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , <b>2012</b> , 8, 445-546	10.2	2783
96	Mitochondrial outer-membrane protein FUNDC1 mediates hypoxia-induced mitophagy in mammalian cells. <i>Nature Cell Biology</i> , <b>2012</b> , 14, 177-85	23.4	917
95	A regulatory signaling loop comprising the PGAM5 phosphatase and CK2 controls receptor-mediated mitophagy. <i>Molecular Cell</i> , <b>2014</b> , 54, 362-77	17.6	319
94	Parkin ubiquitinates Drp1 for proteasome-dependent degradation: implication of dysregulated mitochondrial dynamics in Parkinson disease. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 11649-58	5.4	262
93	Mitophagy receptor FUNDC1 regulates mitochondrial dynamics and mitophagy. <i>Autophagy</i> , <b>2016</b> , 12, 689-702	10.2	213
92	Receptor-mediated mitophagy in yeast and mammalian systems. <i>Cell Research</i> , <b>2014</b> , 24, 787-95	24.7	211
91	Essential role of the voltage-dependent anion channel (VDAC) in mitochondrial permeability transition pore opening and cytochrome c release induced by arsenic trioxide. <i>Oncogene</i> , <b>2004</b> , 23, 1239-47	9.2	157
90	Selective removal of mitochondria via mitophagy: distinct pathways for different mitochondrial stresses. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 2784-90	4.9	152
89	Hypoxia regulates Hippo signalling through the SIAH2 ubiquitin E3 ligase. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 95-103	23.4	147
88	Mitochondrial E3 ligase MARCH5 regulates FUNDC1 to fine-tune hypoxic mitophagy. <i>EMBO Reports</i> , <b>2017</b> , 18, 495-509	6.5	129
87	A small natural molecule promotes mitochondrial fusion through inhibition of the deubiquitinase USP30. <i>Cell Research</i> , <b>2014</b> , 24, 482-96	24.7	123
86	The BCL2L1 and PGAM5 axis defines hypoxia-induced receptor-mediated mitophagy. <i>Autophagy</i> , <b>2014</b> , 10, 1712-25	10.2	113
85	Hypoxic mitophagy regulates mitochondrial quality and platelet activation and determines severity of I/R heart injury. <i>ELife</i> , <b>2016</b> , 5,	8.9	112
84	Mitophagy, Mitochondrial Homeostasis, and Cell Fate. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 467	5.7	111
83	STING directly activates autophagy to tune the innate immune response. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 1735-1749	12.7	110
82	The Bcl-2 homology domain 3 mimetic gossypol induces both Beclin 1-dependent and Beclin 1-independent cytoprotective autophagy in cancer cells. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 25570-81	5.4	102

81	Mitophagy receptor FUNDC1 regulates mitochondrial homeostasis and protects the heart from I/R injury. <i>Autophagy</i> , <b>2017</b> , 13, 1080-1081	10.2	101
80	Regulation of mATG9 trafficking by Src- and ULK1-mediated phosphorylation in basal and starvation-induced autophagy. <i>Cell Research</i> , <b>2017</b> , 27, 184-201	24.7	101
79	Gossypol induces Bax/Bak-independent activation of apoptosis and cytochrome c release via a conformational change in Bcl-2. <i>FASEB Journal</i> , <b>2006</b> , 20, 2147-9	0.9	97
78	Mitochondrial outer-membrane E3 ligase MUL1 ubiquitinates ULK1 and regulates selenite-induced mitophagy. <i>Autophagy</i> , <b>2015</b> , 11, 1216-29	10.2	85
77	Cysteine 62 of Bax is critical for its conformational activation and its proapoptotic activity in response to H2O2-induced apoptosis. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 15359-69	5.4	85
76	FUN14 Domain-Containing 1-Mediated Mitophagy Suppresses Hepatocarcinogenesis by Inhibition of Inflammasome Activation in Mice. <i>Hepatology</i> , <b>2019</b> , 69, 604-621	11.2	79
75	TMCO1 Is an ER Ca(2+) Load-Activated Ca(2+) Channel. <i>Cell</i> , <b>2016</b> , 165, 1454-1466	56.2	75
74	Molecular signaling toward mitophagy and its physiological significance. <i>Experimental Cell Research</i> , <b>2013</b> , 319, 1697-1705	4.2	70
73	Reciprocal interactions between tumor-associated macrophages and CD44-positive cancer cells via osteopontin/CD44 promote tumorigenicity in colorectal cancer. <i>Clinical Cancer Research</i> , <b>2013</b> , 19, 785-97	12.9	68
72	Mechanical stretch induces mitochondria-dependent apoptosis in neonatal rat cardiomyocytes and G2/M accumulation in cardiac fibroblasts. <i>Cell Research</i> , <b>2004</b> , 14, 16-26	24.7	68
71	Deficiency of mitophagy receptor FUNDC1 impairs mitochondrial quality and aggravates dietary-induced obesity and metabolic syndrome. <i>Autophagy</i> , <b>2019</b> , 15, 1882-1898	10.2	61
70	Parkin promotes proteasomal degradation of p62: implication of selective vulnerability of neuronal cells in the pathogenesis of Parkinson's disease. <i>Protein and Cell</i> , <b>2016</b> , 7, 114-29	7.2	61
69	Hypoxia activation of mitophagy and its role in disease pathogenesis. <i>Antioxidants and Redox Signaling</i> , <b>2015</b> , 22, 1032-46	8.4	59
68	ATG3-dependent autophagy mediates mitochondrial homeostasis in pluripotency acquirement and maintenance. <i>Autophagy</i> , <b>2016</b> , 12, 2000-2008	10.2	59
67	Selenite induces redox-dependent Bax activation and apoptosis in colorectal cancer cells. <i>Free Radical Biology and Medicine</i> , <b>2009</b> , 46, 1186-96	7.8	58
66	Zyxin-Siah2-Lats2 axis mediates cooperation between Hippo and TGF-β signalling pathways. <i>Nature Communications</i> , <b>2016</b> , 7, 11123	17.4	57
65	Morphine induces Beclin 1- and ATG5-dependent autophagy in human neuroblastoma SH-SY5Y cells and in the rat hippocampus. <i>Autophagy</i> , <b>2010</b> , 6, 386-94	10.2	56
64	Mitophagy Directs Muscle-Adipose Crosstalk to Alleviate Dietary Obesity. <i>Cell Reports</i> , <b>2018</b> , 23, 1357-1372	26	55

63	Arsenic trioxide (As <sub>2</sub> O <sub>3</sub> ) induces apoptosis through activation of Bax in hematopoietic cells. <i>Oncogene</i> , <b>2005</b> , 24, 3339-47	9.2	53
62	Blood Cells With Reduced Mitochondrial Membrane Potential and Cytosolic Cytochrome C Can Survive and Maintain Clonogenicity Given Appropriate Signals to Suppress Apoptosis. <i>Blood</i> , <b>1998</b> , 92, 4545-4553	2.2	53
61	Structural basis for the phosphorylation of FUNDC1 LIR as a molecular switch of mitophagy. <i>Autophagy</i> , <b>2016</b> , 12, 2363-2373	10.2	53
60	A novel fission-independent role of dynamin-related protein 1 in cardiac mitochondrial respiration. <i>Cardiovascular Research</i> , <b>2017</b> , 113, 160-170	9.9	52
59	A study on permeability transition pore opening and cytochrome c release from mitochondria, induced by caspase-3 in vitro. <i>FEBS Letters</i> , <b>2002</b> , 510, 62-6	3.8	48
58	High autophagic flux guards ESC identity through coordinating autophagy machinery gene program by FOXO1. <i>Cell Death and Differentiation</i> , <b>2017</b> , 24, 1672-1680	12.7	41
57	A mitochondrial FUNDC1/HSC70 interaction organizes the proteostatic stress response at the risk of cell morbidity. <i>EMBO Journal</i> , <b>2019</b> , 38,	13	40
56	Dynamic PGAM5 multimers dephosphorylate BCL-xL or FUNDC1 to regulate mitochondrial and cellular fate. <i>Cell Death and Differentiation</i> , <b>2020</b> , 27, 1036-1051	12.7	40
55	Nitric oxide signaling in stretch-induced apoptosis of neonatal rat cardiomyocytes. <i>FASEB Journal</i> , <b>2006</b> , 20, 1883-5	0.9	39
54	Mitophagy receptors sense stress signals and couple mitochondrial dynamic machinery for mitochondrial quality control. <i>Free Radical Biology and Medicine</i> , <b>2016</b> , 100, 199-209	7.8	38
53	Redox status of thioredoxin-1 (TRX1) determines the sensitivity of human liver carcinoma cells (HepG2) to arsenic trioxide-induced cell death. <i>Cell Research</i> , <b>2008</b> , 18, 458-71	24.7	37
52	Role of Ca <sup>2+</sup> signaling in initiation of stretch-induced apoptosis in neonatal heart cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 310, 405-11	3.4	37
51	MARCH5-FUNDC1 axis fine-tunes hypoxia-induced mitophagy. <i>Autophagy</i> , <b>2017</b> , 13, 1244-1245	10.2	36
50	A New Fungal Diterpene Induces VDAC1-dependent Apoptosis in Bax/Bak-deficient Cells. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 23563-78	5.4	36
49	VDAC1 as a Player in Mitochondria-Mediated Apoptosis and Target for Modulating Apoptosis. <i>Current Medicinal Chemistry</i> , <b>2017</b> , 24, 4435-4446	4.3	35
48	Caspase cleavage of cytochrome c1 disrupts mitochondrial function and enhances cytochrome c release. <i>Cell Research</i> , <b>2012</b> , 22, 127-41	24.7	33
47	The SIAH2-NRF1 axis spatially regulates tumor microenvironment remodeling for tumor progression. <i>Nature Communications</i> , <b>2019</b> , 10, 1034	17.4	30
46	Identification of a new cyathane diterpene that induces mitochondrial and autophagy-dependent apoptosis and shows a potent in vivo anti-colorectal cancer activity. <i>European Journal of Medicinal Chemistry</i> , <b>2016</b> , 111, 183-92	6.8	28

45	Mitophagy in Cardiomyocytes and in Platelets: A Major Mechanism of Cardioprotection Against Ischemia/Reperfusion Injury. <i>Physiology</i> , <b>2018</b> , 33, 86-98	9.8	28
44	v-Abl protein tyrosine kinase (PTK) mediated suppression of apoptosis is associated with the up-regulation of Bcl-XL. <i>Oncogene</i> , <b>1997</b> , 15, 2249-54	9.2	28
43	Reduced CD146 expression promotes tumorigenesis and cancer stemness in colorectal cancer through activating Wnt/ $\beta$ -catenin signaling. <i>Oncotarget</i> , <b>2016</b> , 7, 40704-40718	3.3	27
42	Sequences flanking the transmembrane segments facilitate mitochondrial localization and membrane fusion by mitofusin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E9863-E9872	11.5	26
41	Involvement of death receptor signaling in mechanical stretch-induced cardiomyocyte apoptosis. <i>Life Sciences</i> , <b>2005</b> , 77, 160-74	6.8	26
40	A diterpenoid derivate compound targets selenocysteine of thioredoxin reductases and induces Bax/Bak-independent apoptosis. <i>Free Radical Biology and Medicine</i> , <b>2013</b> , 63, 485-94	7.8	25
39	Multi-patterned dynamics of mitochondrial fission and fusion in a living cell. <i>PLoS ONE</i> , <b>2012</b> , 7, e19879	3.7	23
38	Natural diterpenoid compound elevates expression of Bim protein, which interacts with antiapoptotic protein Bcl-2, converting it to proapoptotic Bax-like molecule. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 1054-65	5.4	23
37	Redox Regulation of Apoptosis before and after Cytochrome C Release. <i>Korean Journal of Biological Sciences</i> , <b>2003</b> , 7, 1-9		23
36	Monitoring mitophagy in mammalian cells. <i>Methods in Enzymology</i> , <b>2014</b> , 547, 39-55	1.7	20
35	Mitophagy and Its Contribution to Metabolic and Aging-Associated Disorders. <i>Antioxidants and Redox Signaling</i> , <b>2020</b> , 32, 906-927	8.4	19
34	Osteopontin, a possible modulator of cancer stem cells and their malignant niche. <i>Oncolmmunology</i> , <b>2013</b> , 2, e24169	7.2	17
33	Mitochondrial PIP3-binding protein FUNDC2 supports platelet survival via AKT signaling pathway. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 321-331	12.7	16
32	Aligned microfiber-induced macrophage polarization to guide schwann-cell-enabled peripheral nerve regeneration. <i>Biomaterials</i> , <b>2021</b> , 272, 120767	15.6	16
31	Mitophagy receptor FUNDC1 is regulated by PGC-1 $\alpha$ /NRF1 to fine tune mitochondrial homeostasis. <i>EMBO Reports</i> , <b>2021</b> , 22, e50629	6.5	15
30	3-Anhydro-6-hydroxy-ophiobolin A, a fungal sesterterpene from <i>Bipolaris oryzae</i> induced autophagy and promoted the degradation of $\beta$ -synuclein in PC12 cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2015</b> , 25, 1464-70	2.9	14
29	Two novel diterpenoid heterodimers, Bisebracteolasins A and B, from <i>Euphorbia ebracteolata</i> Hayata, and the cancer chemotherapeutic potential of Bisebracteolasin A. <i>Scientific Reports</i> , <b>2017</b> , 7, 14507	4.9	13
28	SLC35D3 increases autophagic activity in midbrain dopaminergic neurons by enhancing BECN1-ATG14-PIK3C3 complex formation. <i>Autophagy</i> , <b>2016</b> , 12, 1168-79	10.2	13

27	Spiramine derivatives induce apoptosis of Bax(-)/Bak(-) cell and cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 1884-8	2.9	11
26	Nix-mediated mitophagy regulates platelet activation and life span. <i>Blood Advances</i> , <b>2019</b> , 3, 2342-2354	7.8	10
25	Remarkably reduced expression of FoxO3a in metaplastic colorectum, primary colorectal cancer and liver metastasis. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , <b>2013</b> , 33, 205-211		9
24	Membrane Deformability and Membrane Tension of Single Isolated Mitochondria. <i>Cellular and Molecular Bioengineering</i> , <b>2008</b> , 1, 67-74	3.9	9
23	New interfaces on MiD51 for Drp1 recruitment and regulation. <i>PLoS ONE</i> , <b>2019</b> , 14, e0211459	3.7	8
22	Phenylarsine oxide induces apoptosis in Bax- and Bak-deficient cells through upregulation of Bim. <i>Clinical Cancer Research</i> , <b>2012</b> , 18, 140-51	12.9	8
21	RNA G-quadruplex formation in defined sequence in living cells detected by bimolecular fluorescence complementation. <i>Chemical Science</i> , <b>2016</b> , 7, 4573-4581	9.4	8
20	Endophilin B2 promotes inner mitochondrial membrane degradation by forming heterodimers with Endophilin B1 during mitophagy. <i>Scientific Reports</i> , <b>2016</b> , 6, 25153	4.9	7
19	Trait acclimation of the clonal fern <i>Selliguea griffithiana</i> to forest epiphytic and terrestrial habitats. <i>Ecological Research</i> , <b>2019</b> , 34, 406-414	1.9	6
18	Mitochondria organize the cellular proteostatic response and promote cellular senescence. <i>Cell Stress</i> , <b>2019</b> , 3, 110-114	5.5	5
17	The Late Increase of Free Radicals During Genotoxic-Stress Induced Apoptosis is Associated with Cytochrome C Release From Mitochondria Induced by Caspase-Mediated Feedback Loop Amplification. <i>Scientific World Journal, The</i> , <b>2001</b> , 1, 142	2.2	4
16	Defective mitochondrial ISCs biogenesis switches on IRP1 to fine tune selective mitophagy. <i>Redox Biology</i> , <b>2020</b> , 36, 101661	11.3	4
15	FUNDC2 regulates platelet activation through AKT/GSK-3 $\beta$ /cGMP axis. <i>Cardiovascular Research</i> , <b>2019</b> , 115, 1672-1679	9.9	4
14	Dynamic O-GlcNAcylation coordinates ferritinophagy and mitophagy to activate ferroptosis.. <i>Cell Discovery</i> , <b>2022</b> , 8, 40	22.3	4
13	Dynamics of morphological changes for mitochondrial fission and fusion. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2010</b> , 53, 680-689	3.6	3
12	A zinc transporter, transmembrane protein 163, is critical for the biogenesis of platelet dense granules. <i>Blood</i> , <b>2021</b> , 137, 1804-1817	2.2	3
11	PINK1-mediated mitophagy maintains pluripotency through optineurin. <i>Cell Proliferation</i> , <b>2021</b> , 54, e13034	3.4	3
10	Receptor-mediated mitophagy regulates EPO production and protects against renal anemia. <i>ELife</i> , <b>2021</b> , 10,	8.9	2

9	Targeting stemness of cancer stem cells to fight colorectal cancers. <i>Seminars in Cancer Biology</i> , <b>2021</b> ,	12.7	2
8	A SupraGel for efficient production of cell spheroids. <i>Science China Materials</i> ,1	7.1	2
7	The Emerging Role of FUNDC1-Mediated Mitophagy in Cardiovascular Diseases.. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 807654	4.6	2
6	Phosphorylation Events in Selective Mitophagy: Possible Biochemical Markers?. <i>Current Pathobiology Reports</i> , <b>2013</b> , 1, 273-282	2	1
5	BNIP3 (BCL2 interacting protein 3) regulates pluripotency by modulating mitochondrial homeostasis via mitophagy.. <i>Cell Death and Disease</i> , <b>2022</b> , 13, 334	9.8	1
4	LGR4 cooperates with PrPc to endow the stemness of colorectal cancer stem cells contributing to tumorigenesis and liver metastasis.. <i>Cancer Letters</i> , <b>2022</b> , 215725	9.9	1
3	Mitolysosome exocytosis, a mitophagy-independent mitochondrial quality control in flunarizine-induced parkinsonism-like symptoms.. <i>Science Advances</i> , <b>2022</b> , 8, eabk2376	14.3	0
2	Activation of Na(+)/H (+) exchange on rat preadipocyte plasma membrane and its role in cell proliferation and differentiation. <i>Science in China Series C: Life Sciences</i> , <b>1999</b> , 42, 240-8		
1	Systems Understanding of Synergism Between As4S4 and Imatinib in Treating BCR/ABL Leukemia Model and in Attenuating BCR/ABL Oncoprotein as Well as Related Regulatory Networks. <i>Blood</i> , <b>2008</b> , 112, 4234-4234	2.2	