Quan Chen

List of Publications by Year in Descending Order

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	Mitolysosome exocytosis, a mitophagy-independent mitochondrial quality control in flunarizine-induced parkinsonism-like symptoms.. *Science Advances*, **2022**, 8, eabk2376	14.3	0
97	BNIP3 (BCL2 interacting protein 3) regulates pluripotency by modulating mitochondrial homeostasis via mitophagy.. *Cell Death and Disease*, **2022**, 13, 334	9.8	1
96	Dynamic O-GlcNAcylation coordinates ferritinophagy and mitophagy to activate ferroptosis.. *Cell Discovery*, **2022**, 8, 40	22.3	4
95	LGR4 cooperates with PrPc to endow the stemness of colorectal cancer stem cells contributing to tumorigenesis and liver metastasis.. *Cancer Letters*, **2022**, 215725	9.9	1
94	A zinc transporter, transmembrane protein 163, is critical for the biogenesis of platelet dense granules. *Blood*, **2021**, 137, 1804-1817	2.2	3
93	Aligned microfiber-induced macrophage polarization to guide schwann-cell-enabled peripheral nerve regeneration. *Biomaterials*, **2021**, 272, 120767	15.6	16
92	PINK1-mediated mitophagy maintains pluripotency through optineurin. *Cell Proliferation*, **2021**, 54, e13034	7.9	3
91	Receptor-mediated mitophagy regulates EPO production and protects against renal anemia. *ELife*, **2021**, 10,	8.9	2
90	Targeting stemness of cancer stem cells to fight colorectal cancers. *Seminars in Cancer Biology*, **2021**,	12.7	2
89	Mitophagy receptor FUNDC1 is regulated by PGC-1/NRF1 to fine tune mitochondrial homeostasis. *EMBO Reports*, **2021**, 22, e50629	6.5	15
88	The Emerging Role of FUNDC1-Mediated Mitophagy in Cardiovascular Diseases.. *Frontiers in Physiology*, **2021**, 12, 807654	4.6	2
87	Mitophagy, Mitochondrial Homeostasis, and Cell Fate. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 467	5.7	111
86	Mitophagy and Its Contribution to Metabolic and Aging-Associated Disorders. *Antioxidants and Redox Signaling*, **2020**, 32, 906-927	8.4	19
85	Defective mitochondrial ISCs biogenesis switches on IRP1 to fine tune selective mitophagy. *Redox Biology*, **2020**, 36, 101661	11.3	4
84	Dynamic PGAM5 multimers dephosphorylate BCL-xL or FUNDC1 to regulate mitochondrial and cellular fate. *Cell Death and Differentiation*, **2020**, 27, 1036-1051	12.7	40
83	Trait acclimation of the clonal fern Selliguea griffithiana to forest epiphytic and terrestrial habitats. *Ecological Research*, **2019**, 34, 406-414	1.9	6
82	Deficiency of mitophagy receptor FUNDC1 impairs mitochondrial quality and aggravates dietary-induced obesity and metabolic syndrome. *Autophagy*, **2019**, 15, 1882-1898	10.2	61

81	The SIAH2-NRF1 axis spatially regulates tumor microenvironment remodeling for tumor progression. *Nature Communications*, **2019**, 10, 1034	17.4	30
80	New interfaces on MiD51 for Drp1 recruitment and regulation. *PLoS ONE*, **2019**, 14, e0211459	3.7	8
79	FUN14 Domain-Containing 1-Mediated Mitophagy Suppresses Hepatocarcinogenesis by Inhibition of Inflammasome Activation in Mice. *Hepatology*, **2019**, 69, 604-621	11.2	79
78	Mitochondrial PIP3-binding protein FUNDC2 supports platelet survival via AKT signaling pathway. *Cell Death and Differentiation*, **2019**, 26, 321-331	12.7	16
77	Mitochondria organize the cellular proteostatic response and promote cellular senescence. *Cell Stress*, **2019**, 3, 110-114	5.5	5
76	Nix-mediated mitophagy regulates platelet activation and life span. *Blood Advances*, **2019**, 3, 2342-2354	7.8	10
75	FUNDC2 regulates platelet activation through AKT/GSK-3β/cGMP axis. *Cardiovascular Research*, **2019**, 115, 1672-1679	9.9	4
74	A mitochondrial FUNDC1/HSC70 interaction organizes the proteostatic stress response at the risk of cell morbidity. *EMBO Journal*, **2019**, 38,	13	40
73	STING directly activates autophagy to tune the innate immune response. *Cell Death and Differentiation*, **2019**, 26, 1735-1749	12.7	110
72	Mitophagy Directs Muscle-Adipose Crosstalk to Alleviate Dietary Obesity. *Cell Reports*, **2018**, 23, 1357-1372	7.6	55
71	Mitophagy in Cardiomyocytes and in Platelets: A Major Mechanism of Cardioprotection Against Ischemia/Reperfusion Injury. *Physiology*, **2018**, 33, 86-98	9.8	28
70	Mitochondrial E3 ligase MARCH5 regulates FUNDC1 to fine-tune hypoxic mitophagy. *EMBO Reports* , **2017**, 18, 495-509	6.5	129
69	MARCH5-FUNDC1 axis fine-tunes hypoxia-induced mitophagy. *Autophagy*, **2017**, 13, 1244-1245	10.2	36
68	High autophagic flux guards ESC identity through coordinating autophagy machinery gene program by FOXO1. *Cell Death and Differentiation*, **2017**, 24, 1672-1680	12.7	41
67	Mitophagy receptor FUNDC1 regulates mitochondrial homeostasis and protects the heart from I/R injury. *Autophagy*, **2017**, 13, 1080-1081	10.2	101
66	Regulation of mATG9 trafficking by Src- and ULK1-mediated phosphorylation in basal and starvation-induced autophagy. *Cell Research*, **2017**, 27, 184-201	24.7	101
65	Two novel diterpenoid heterodimers, Bisebracteolasins A and B, from Euphorbia ebracteolata Hayata, and the cancer chemotherapeutic potential of Bisebracteolasin A. *Scientific Reports*, **2017**, 7, 14507	4.9	13
64	Sequences flanking the transmembrane segments facilitate mitochondrial localization and membrane fusion by mitofusin. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9863-E9872	11.5	26

63	A novel fission-independent role of dynamin-related protein 1 in cardiac mitochondrial respiration. *Cardiovascular Research*, **2017**, 113, 160-170	9.9	52
62	VDAC1 as a Player in Mitochondria-Mediated Apoptosis and Target for Modulating Apoptosis. *Current Medicinal Chemistry*, **2017**, 24, 4435-4446	4.3	35
61	Zyxin-Siah2-Lats2 axis mediates cooperation between Hippo and TGF-β signalling pathways. *Nature Communications*, **2016**, 7, 11123	17.4	57
60	Endophilin B2 promotes inner mitochondrial membrane degradation by forming heterodimers with Endophilin B1 during mitophagy. *Scientific Reports*, **2016**, 6, 25153	4.9	7
59	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
58	Identification of a new cyathane diterpene that induces mitochondrial and autophagy-dependent apoptosis and shows a potent in vivo anti-colorectal cancer activity. *European Journal of Medicinal Chemistry*, **2016**, 111, 183-92	6.8	28
57	Parkin promotes proteasomal degradation of p62: implication of selective vulnerability of neuronal cells in the pathogenesis of Parkinson's disease. *Protein and Cell*, **2016**, 7, 114-29	7.2	61
56	Reduced CD146 expression promotes tumorigenesis and cancer stemness in colorectal cancer through activating Wnt/β-catenin signaling. *Oncotarget*, **2016**, 7, 40704-40718	3.3	27
55	Hypoxic mitophagy regulates mitochondrial quality and platelet activation and determines severity of I/R heart injury. *ELife*, **2016**, 5,	8.9	112
54	SLC35D3 increases autophagic activity in midbrain dopaminergic neurons by enhancing BECN1-ATG14-PIK3C3 complex formation. *Autophagy*, **2016**, 12, 1168-79	10.2	13
53	TMCO1 Is an ER Ca(2+) Load-Activated Ca(2+) Channel. *Cell*, **2016**, 165, 1454-1466	56.2	75
52	Mitophagy receptor FUNDC1 regulates mitochondrial dynamics and mitophagy. *Autophagy*, **2016**, 12, 689-702	10.2	213
51	Mitophagy receptors sense stress signals and couple mitochondrial dynamic machinery for mitochondrial quality control. *Free Radical Biology and Medicine*, **2016**, 100, 199-209	7.8	38
50	RNA G-quadruplex formation in defined sequence in living cells detected by bimolecular fluorescence complementation. *Chemical Science*, **2016**, 7, 4573-4581	9.4	8
49	Structural basis for the phosphorylation of FUNDC1 LIR as a molecular switch of mitophagy. *Autophagy*, **2016**, 12, 2363-2373	10.2	53
48	ATG3-dependent autophagy mediates mitochondrial homeostasis in pluripotency acquirement and maintenance. *Autophagy*, **2016**, 12, 2000-2008	10.2	59
47	Selective removal of mitochondria via mitophagy: distinct pathways for different mitochondrial stresses. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2015**, 1853, 2784-90	4.9	152
46	A New Fungal Diterpene Induces VDAC1-dependent Apoptosis in Bax/Bak-deficient Cells. *Journal of Biological Chemistry*, **2015**, 290, 23563-78	5.4	36

45	Hypoxia activation of mitophagy and its role in disease pathogenesis. *Antioxidants and Redox Signaling*, **2015**, 22, 1032-46	8.4	59
44	Hypoxia regulates Hippo signalling through the SIAH2 ubiquitin E3 ligase. *Nature Cell Biology*, **2015**, 17, 95-103	23.4	147
43	3-Anhydro-6-hydroxy-ophiobolin A, a fungal sesterterpene from Bipolaris oryzae induced autophagy and promoted the degradation of □synuclein in PC12 cells. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 1464-70	2.9	14
42	Mitochondrial outer-membrane E3 ligase MUL1 ubiquitinates ULK1 and regulates selenite-induced mitophagy. *Autophagy*, **2015**, 11, 1216-29	10.2	85
41	A small natural molecule promotes mitochondrial fusion through inhibition of the deubiquitinase USP30. *Cell Research*, **2014**, 24, 482-96	24.7	123
40	Receptor-mediated mitophagy in yeast and mammalian systems. *Cell Research*, **2014**, 24, 787-95	24.7	211
39	The BCL2L1 and PGAM5 axis defines hypoxia-induced receptor-mediated mitophagy. *Autophagy*, **2014**, 10, 1712-25	10.2	113
38	Monitoring mitophagy in mammalian cells. *Methods in Enzymology*, **2014**, 547, 39-55	1.7	20
37	Spiramine derivatives induce apoptosis of Bax(-/-)/Bak(-/-) cell and cancer cells. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 1884-8	2.9	11
36	A regulatory signaling loop comprising the PGAM5 phosphatase and CK2 controls receptor-mediated mitophagy. *Molecular Cell*, **2014**, 54, 362-77	17.6	319
35	Remarkably reduced expression of FoxO3a in metaplastic colorectum, primary colorectal cancer and liver metastasis. *Journal of Huazhong University of Science and Technology [Medical Sciences]*, **2013**, 33, 205-211		9
34	A diterpenoid derivate compound targets selenocysteine of thioredoxin reductases and induces Bax/Bak-independent apoptosis. *Free Radical Biology and Medicine*, **2013**, 63, 485-94	7.8	25
33	Molecular signaling toward mitophagy and its physiological significance. *Experimental Cell Research*, **2013**, 319, 1697-1705	4.2	70
32	Phosphorylation Events in Selective Mitophagy: Possible Biochemical Markers?. *Current Pathobiology Reports*, **2013**, 1, 273-282	2	1
31	Reciprocal interactions between tumor-associated macrophages and CD44-positive cancer cells via osteopontin/CD44 promote tumorigenicity in colorectal cancer. *Clinical Cancer Research*, **2013**, 19, 785-97	12.9	68
30	Osteopontin, a possible modulator of cancer stem cells and their malignant niche. *OncoImmunology* , **2013**, 2, e24169	7.2	17
29	Mitochondrial outer-membrane protein FUNDC1 mediates hypoxia-induced mitophagy in mammalian cells. *Nature Cell Biology*, **2012**, 14, 177-85	23.4	917
28	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783

27	Multi-patterned dynamics of mitochondrial fission and fusion in a living cell. *PLoS ONE*, **2012**, 7, e19879	3.7	23
26	Caspase cleavage of cytochrome c1 disrupts mitochondrial function and enhances cytochrome c release. *Cell Research*, **2012**, 22, 127-41	24.7	33
25	Phenylarsine oxide induces apoptosis in Bax- and Bak-deficient cells through upregulation of Bim. *Clinical Cancer Research*, **2012**, 18, 140-51	12.9	8
24	Natural diterpenoid compound elevates expression of Bim protein, which interacts with antiapoptotic protein Bcl-2, converting it to proapoptotic Bax-like molecule. *Journal of Biological Chemistry*, **2012**, 287, 1054-65	5.4	23
23	Parkin ubiquitinates Drp1 for proteasome-dependent degradation: implication of dysregulated mitochondrial dynamics in Parkinson disease. *Journal of Biological Chemistry*, **2011**, 286, 11649-58	5.4	262
22	The Bcl-2 homology domain 3 mimetic gossypol induces both Beclin 1-dependent and Beclin 1-independent cytoprotective autophagy in cancer cells. *Journal of Biological Chemistry*, **2010**, 285, 25570-81	5.4	102
21	Morphine induces Beclin 1- and ATG5-dependent autophagy in human neuroblastoma SH-SY5Y cells and in the rat hippocampus. *Autophagy*, **2010**, 6, 386-94	10.2	56
20	Dynamics of morphological changes for mitochondrial fission and fusion. *Science China: Physics, Mechanics and Astronomy*, **2010**, 53, 680-689	3.6	3
19	Selenite induces redox-dependent Bax activation and apoptosis in colorectal cancer cells. *Free Radical Biology and Medicine*, **2009**, 46, 1186-96	7.8	58
18	Redox status of thioredoxin-1 (TRX1) determines the sensitivity of human liver carcinoma cells (HepG2) to arsenic trioxide-induced cell death. *Cell Research*, **2008**, 18, 458-71	24.7	37
17	Cysteine 62 of Bax is critical for its conformational activation and its proapoptotic activity in response to H2O2-induced apoptosis. *Journal of Biological Chemistry*, **2008**, 283, 15359-69	5.4	85
16	Membrane Deformability and Membrane Tension of Single Isolated Mitochondria. *Cellular and Molecular Bioengineering*, **2008**, 1, 67-74	3.9	9
15	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. *Blood*, **2008**, 112, 4234-4234	2.2	
14	Nitric oxide signaling in stretch-induced apoptosis of neonatal rat cardiomyocytes. *FASEB Journal*, **2006**, 20, 1883-5	0.9	39
13	Gossypol induces Bax/Bak-independent activation of apoptosis and cytochrome c release via a conformational change in Bcl-2. *FASEB Journal*, **2006**, 20, 2147-9	0.9	97
12	Involvement of death receptor signaling in mechanical stretch-induced cardiomyocyte apoptosis. *Life Sciences*, **2005**, 77, 160-74	6.8	26
11	Arsenic trioxide (As(2)O(3)) induces apoptosis through activation of Bax in hematopoietic cells. *Oncogene*, **2005**, 24, 3339-47	9.2	53
10	Mechanical stretch induces mitochondria-dependent apoptosis in neonatal rat cardiomyocytes and G2/M accumulation in cardiac fibroblasts. *Cell Research*, **2004**, 14, 16-26	24.7	68

9	Essential role of the voltage-dependent anion channel (VDAC) in mitochondrial permeability transition pore opening and cytochrome c release induced by arsenic trioxide. *Oncogene*, **2004**, 23, 1239-47	9.2	157
8	Redox Regulation of Apoptosis before and after Cytochrome C Release. *Korean Journal of Biological Sciences*, **2003**, 7, 1-9		23
7	Role of Ca2+ signaling in initiation of stretch-induced apoptosis in neonatal heart cells. *Biochemical and Biophysical Research Communications*, **2003**, 310, 405-11	3.4	37
6	A study on permeability transition pore opening and cytochrome c release from mitochondria, induced by caspase-3 in vitro. *FEBS Letters*, **2002**, 510, 62-6	3.8	48
5	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. *Scientific World Journal, The*, **2001**, 1, 142	2.2	4
4	Activation of Na(+) /H (+) exchange on rat preadipocyte plasma membrane and its role in cell proliferation and differentiation. *Science in China Series C: Life Sciences*, **1999**, 42, 240-8		
3	Blood Cells With Reduced Mitochondrial Membrane Potential and Cytosolic Cytochrome C Can Survive and Maintain Clonogenicity Given Appropriate Signals to Suppress Apoptosis. *Blood*, **1998**, 92, 4545-4553	2.2	53
2	v-Abl protein tyrosine kinase (PTK) mediated suppression of apoptosis is associated with the up-regulation of Bcl-XL. *Oncogene*, **1997**, 15, 2249-54	9.2	28
1	A SupraGel for efficient production of cell spheroids. *Science China Materials*,1	7.1	2