

Quan Chen

List of Publications by Year in descending order

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99
papers

16,111
citations

50566

48
h-index

42259

96
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104
all docs

104
docs citations

104
times ranked

29018
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting stemness of cancer stem cells to fight colorectal cancers. <i>Seminars in Cancer Biology</i> , 2022, 82, 150-161.	4.3	23
2	A SupraGel for efficient production of cell spheroids. <i>Science China Materials</i> , 2022, 65, 1655-1661.	3.5	4
3	Mitolysosome exocytosis, a mitophagy-independent mitochondrial quality control in flunarizine-induced parkinsonism-like symptoms. <i>Science Advances</i> , 2022, 8, eabk2376.	4.7	19
4	BNIP3 (BCL2 interacting protein 3) regulates pluripotency by modulating mitochondrial homeostasis via mitophagy. <i>Cell Death and Disease</i> , 2022, 13, 334.	2.7	15
5	Dynamic O-GlcNAcylation coordinates ferritinophagy and mitophagy to activate ferroptosis. <i>Cell Discovery</i> , 2022, 8, 40.	3.1	62
6	LGR4 cooperates with PrPc to endow the stemness of colorectal cancer stem cells contributing to tumorigenesis and liver metastasis. <i>Cancer Letters</i> , 2022, 540, 215725.	3.2	12
7	Mitophagy receptor FUNDC1 is regulated by PGC-1 α /NRF1 to fine tune mitochondrial homeostasis. <i>EMBO Reports</i> , 2021, 22, e50629.	2.0	58
8	A zinc transporter, transmembrane protein 163, is critical for the biogenesis of platelet dense granules. <i>Blood</i> , 2021, 137, 1804-1817.	0.6	14
9	Aligned microfiber-induced macrophage polarization to guide schwann-cell-enabled peripheral nerve regeneration. <i>Biomaterials</i> , 2021, 272, 120767.	5.7	86
10	PINK1-mediated mitophagy maintains pluripotency through optineurin. <i>Cell Proliferation</i> , 2021, 54, e13034.	2.4	15
11	Receptor-mediated mitophagy regulates EPO production and protects against renal anemia. <i>ELife</i> , 2021, 10, .	2.8	11
12	The Emerging Role of FUNDC1-Mediated Mitophagy in Cardiovascular Diseases. <i>Frontiers in Physiology</i> , 2021, 12, 807654.	1.3	16
13	Dynamic PGAM5 multimers dephosphorylate BCL-xL or FUNDC1 to regulate mitochondrial and cellular fate. <i>Cell Death and Differentiation</i> , 2020, 27, 1036-1051.	5.0	81
14	Defective mitochondrial ISCs biogenesis switches on IRP1 to fine tune selective mitophagy. <i>Redox Biology</i> , 2020, 36, 101661.	3.9	13
15	Mitophagy, Mitochondrial Homeostasis, and Cell Fate. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 467.	1.8	296
16	Mitophagy and Its Contribution to Metabolic and Aging-Associated Disorders. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 906-927.	2.5	35
17	FUN14 Domain-Containing 1-Mediated Mitophagy Suppresses Hepatocarcinogenesis by Inhibition of Inflammasome Activation in Mice. <i>Hepatology</i> , 2019, 69, 604-621.	3.6	127
18	Mitochondrial PIP3-binding protein FUNDC2 supports platelet survival via AKT signaling pathway. <i>Cell Death and Differentiation</i> , 2019, 26, 321-331.	5.0	41

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19	Trait acclimation of the clonal fern <i>Selliguea griffithiana</i> to forest epiphytic and terrestrial habitats. <i>Ecological Research</i> , 2019, 34, 406-414.	0.7	7
20	Deficiency of mitophagy receptor FUNDC1 impairs mitochondrial quality and aggravates dietary-induced obesity and metabolic syndrome. <i>Autophagy</i> , 2019, 15, 1882-1898.	4.3	131
21	The SIAH2-NRF1 axis spatially regulates tumor microenvironment remodeling for tumor progression. <i>Nature Communications</i> , 2019, 10, 1034.	5.8	56
22	New interfaces on MiD51 for Drp1 recruitment and regulation. <i>PLoS ONE</i> , 2019, 14, e0211459.	1.1	15
23	Nix-mediated mitophagy regulates platelet activation and life span. <i>Blood Advances</i> , 2019, 3, 2342-2354.	2.5	28
24	FUNDC2 regulates platelet activation through AKT/GSK-3 β /cGMP axis. <i>Cardiovascular Research</i> , 2019, 115, 1672-1679.	1.8	14
25	A mitochondrial FUNDC1/HSC70 interaction organizes the proteostatic stress response at the risk of cell morbidity. <i>EMBO Journal</i> , 2019, 38, .	3.5	73
26	STING directly activates autophagy to tune the innate immune response. <i>Cell Death and Differentiation</i> , 2019, 26, 1735-1749.	5.0	247
27	Mitochondria organize the cellular proteostatic response and promote cellular senescence. <i>Cell Stress</i> , 2019, 3, 110-114.	1.4	7
28	Mitophagy Directs Muscle-Adipose Crosstalk to Alleviate Dietary Obesity. <i>Cell Reports</i> , 2018, 23, 1357-1372.	2.9	94
29	Mitophagy in Cardiomyocytes and in Platelets: A Major Mechanism of Cardioprotection Against Ischemia/Reperfusion Injury. <i>Physiology</i> , 2018, 33, 86-98.	1.6	38
30	VDAC1 as a Player in Mitochondria-Mediated Apoptosis and Target for Modulating Apoptosis. <i>Current Medicinal Chemistry</i> , 2018, 24, 4435-4446.	1.2	50
31	Mitochondrial E3 ligase <i>MARCH5</i> regulates <i>FUNDC1</i> to fine-tune hypoxic mitophagy. <i>EMBO Reports</i> , 2017, 18, 495-509.	2.0	197
32	MARCH5-FUNDC1 axis fine-tunes hypoxia-induced mitophagy. <i>Autophagy</i> , 2017, 13, 1244-1245.	4.3	50
33	High autophagic flux guards ESC identity through coordinating autophagy machinery gene program by FOXO1. <i>Cell Death and Differentiation</i> , 2017, 24, 1672-1680.	5.0	52
34	Editorial overview: Celebrating the advances in cell biology from China. <i>Traffic</i> , 2017, 18, 335-335.	1.3	0
35	Mitophagy receptor FUNDC1 regulates mitochondrial homeostasis and protects the heart from I/R injury. <i>Autophagy</i> , 2017, 13, 1080-1081.	4.3	150
36	Regulation of mATG9 trafficking by Src- and ULK1-mediated phosphorylation in basal and starvation-induced autophagy. <i>Cell Research</i> , 2017, 27, 184-201.	5.7	147

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37	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> , 2017, 7, 14507.	1.6	18
38	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> , 2017, 114, E9863-E9872.	3.3	34
39	A novel fission-independent role of dynamin-related protein 1 in cardiac mitochondrial respiration. <i>Cardiovascular Research</i> , 2017, 113, 160-170.	1.8	74
40	Hypoxic mitophagy regulates mitochondrial quality and platelet activation and determines severity of I/R heart injury. <i>ELife</i> , 2016, 5, .	2.8	158
41	SLC35D3 increases autophagic activity in midbrain dopaminergic neurons by enhancing BECN1-ATG14-PIK3C3 complex formation. <i>Autophagy</i> , 2016, 12, 1168-1179.	4.3	16
42	TMCO1 Is an ER Ca ²⁺ Load-Activated Ca ²⁺ Channel. <i>Cell</i> , 2016, 165, 1454-1466.	13.5	112
43	Mitophagy receptor FUNDC1 regulates mitochondrial dynamics and mitophagy. <i>Autophagy</i> , 2016, 12, 689-702.	4.3	367
44	Mitophagy receptors sense stress signals and couple mitochondrial dynamic machinery for mitochondrial quality control. <i>Free Radical Biology and Medicine</i> , 2016, 100, 199-209.	1.3	51
45	RNA G-quadruplex formation in defined sequence in living cells detected by bimolecular fluorescence complementation. <i>Chemical Science</i> , 2016, 7, 4573-4581.	3.7	11
46	Structural basis for the phosphorylation of FUNDC1 LIR as a molecular switch of mitophagy. <i>Autophagy</i> , 2016, 12, 2363-2373.	4.3	101
47	ATG3-dependent autophagy mediates mitochondrial homeostasis in pluripotency acquirement and maintenance. <i>Autophagy</i> , 2016, 12, 2000-2008.	4.3	79
48	Zyxin-Siah2/Lats2 axis mediates cooperation between Hippo and TGF- β 2 signalling pathways. <i>Nature Communications</i> , 2016, 7, 11123.	5.8	83
49	Endophilin B2 promotes inner mitochondrial membrane degradation by forming heterodimers with Endophilin B1 during mitophagy. <i>Scientific Reports</i> , 2016, 6, 25153.	1.6	10
50	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
51	Identification of a new cyathane diterpene that induces mitochondrial and autophagy-dependent apoptosis and shows a potent <i>in vivo</i> anti-colorectal cancer activity. <i>European Journal of Medicinal Chemistry</i> , 2016, 111, 183-192.	2.6	33
52	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> , 2016, 7, 114-129.	4.8	85
53	Reduced CD146 expression promotes tumorigenesis and cancer stemness in colorectal cancer through activating Wnt/ β -catenin signaling. <i>Oncotarget</i> , 2016, 7, 40704-40718.	0.8	37
54	3-Anhydro-6-hydroxy-ophiobolin A, a fungal sesterterpene from <i>Bipolaris oryzae</i> induced autophagy and promoted the degradation of β -synuclein in PC12 cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 1464-1470.	1.0	15

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55	Mitochondrial outer-membrane E3 ligase MUL1 ubiquitinates ULK1 and regulates selenite-induced mitophagy. <i>Autophagy</i> , 2015, 11, 1216-1229.	4.3	111
56	Selective removal of mitochondria via mitophagy: distinct pathways for different mitochondrial stresses. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2784-2790.	1.9	201
57	A New Fungal Diterpene Induces VDAC1-dependent Apoptosis in Bax/Bak-deficient Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 23563-23578.	1.6	42
58	Hypoxia Activation of Mitophagy and Its Role in Disease Pathogenesis. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 1032-1046.	2.5	80
59	Hypoxia regulates Hippo signalling through the SIAH2 ubiquitin E3 ligase. <i>Nature Cell Biology</i> , 2015, 17, 95-103.	4.6	199
60	The BCL2L1 and PGAM5 axis defines hypoxia-induced receptor-mediated mitophagy. <i>Autophagy</i> , 2014, 10, 1712-1725.	4.3	145
61	Monitoring Mitophagy in Mammalian Cells. <i>Methods in Enzymology</i> , 2014, 547, 39-55.	0.4	27
62	Spiramine derivatives induce apoptosis of Bax ^{-/-} /Bak ^{-/-} cell and cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 1884-1888.	1.0	14
63	A Regulatory Signaling Loop Comprising the PGAM5 Phosphatase and CK2 Controls Receptor-Mediated Mitophagy. <i>Molecular Cell</i> , 2014, 54, 362-377.	4.5	433
64	A small natural molecule promotes mitochondrial fusion through inhibition of the deubiquitinase USP30. <i>Cell Research</i> , 2014, 24, 482-496.	5.7	170
65	Receptor-mediated mitophagy in yeast and mammalian systems. <i>Cell Research</i> , 2014, 24, 787-795.	5.7	311
66	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> , 2013, 33, 205-211.	1.0	9
67	A diterpenoid derivate compound targets selenocysteine of thioredoxin reductases and induces Bax/Bak-independent apoptosis. <i>Free Radical Biology and Medicine</i> , 2013, 63, 485-494.	1.3	27
68	Molecular signaling toward mitophagy and its physiological significance. <i>Experimental Cell Research</i> , 2013, 319, 1697-1705.	1.2	89
69	Phosphorylation Events in Selective Mitophagy: Possible Biochemical Markers?. <i>Current Pathobiology Reports</i> , 2013, 1, 273-282.	1.6	2
70	Reciprocal Interactions between Tumor-Associated Macrophages and CD44-Positive Cancer Cells via Osteopontin/CD44 Promote Tumorigenicity in Colorectal Cancer. <i>Clinical Cancer Research</i> , 2013, 19, 785-797.	3.2	105
71	Osteopontin, a possible modulator of cancer stem cells and their malignant niche. <i>Oncolmmunology</i> , 2013, 2, e24169.	2.1	17
72	Caspase cleavage of cytochrome c1 disrupts mitochondrial function and enhances cytochrome c release. <i>Cell Research</i> , 2012, 22, 127-141.	5.7	46

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73	Phenylarsine Oxide Induces Apoptosis in Bax- and Bak-Deficient Cells through Upregulation of Bim. <i>Clinical Cancer Research</i> , 2012, 18, 140-151.	3.2	9
74	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> , 2012, 287, 1054-1065.	1.6	31
75	Mitochondrial outer-membrane protein FUNDC1 mediates hypoxia-induced mitophagy in mammalian cells. <i>Nature Cell Biology</i> , 2012, 14, 177-185.	4.6	1,227
76	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
77	Multi-Patterned Dynamics of Mitochondrial Fission and Fusion in a Living Cell. <i>PLoS ONE</i> , 2012, 7, e19879.	1.1	29
78	Parkin Ubiquitinates Drp1 for Proteasome-dependent Degradation. <i>Journal of Biological Chemistry</i> , 2011, 286, 11649-11658.	1.6	310
79	Dynamics of morphological changes for mitochondrial fission and fusion. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 680-689.	2.0	3
80	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> , 2010, 285, 25570-25581.	1.6	112
81	Morphine induces Beclin 1- and ATG5-dependent autophagy in human neuroblastoma SH-SY5Y cells and in the rat hippocampus. <i>Autophagy</i> , 2010, 6, 386-394.	4.3	67
82	Selenite induces redox-dependent Bax activation and apoptosis in colorectal cancer cells. <i>Free Radical Biology and Medicine</i> , 2009, 46, 1186-1196.	1.3	59
83	Membrane Deformability and Membrane Tension of Single Isolated Mitochondria. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 67-74.	1.0	12
84	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> , 2008, 18, 458-471.	5.7	42
85	Cysteine 62 of Bax Is Critical for Its Conformational Activation and Its Proapoptotic Activity in Response to H ₂ O ₂ -induced Apoptosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 15359-15369.	1.6	88
86	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> , 2008, 112, 4234-4234.	0.6	0
87	Nitric oxide signaling in stretch-induced apoptosis of neonatal rat cardiomyocytes. <i>FASEB Journal</i> , 2006, 20, 1883-1885.	0.2	40
88	Gossypol induces Bax/Bak-independent activation of apoptosis and cytochrome c release via a conformational change in Bcl-2. <i>FASEB Journal</i> , 2006, 20, 2147-2149.	0.2	104
89	Arsenic trioxide (As ₂ O ₃) induces apoptosis through activation of Bax in hematopoietic cells. <i>Oncogene</i> , 2005, 24, 3339-3347.	2.6	61
90	Involvement of death receptor signaling in mechanical stretch-induced cardiomyocyte apoptosis. <i>Life Sciences</i> , 2005, 77, 160-174.	2.0	30

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91	Mechanical stretch induces mitochondria-dependent apoptosis in neonatal rat cardiomyocytes and G2/M accumulation in cardiac fibroblasts. <i>Cell Research</i> , 2004, 14, 16-26.	5.7	79
92	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> , 2004, 23, 1239-1247.	2.6	176
93	Role of Ca ²⁺ signaling in initiation of stretch-induced apoptosis in neonatal heart cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 405-411.	1.0	41
94	Redox regulation of apoptosis before and after cytochrome C release. <i>Korean Journal of Biological Sciences</i> , 2003, 7, 1-9.	0.1	26
95	A study on permeability transition pore opening and cytochromerelease from mitochondria, induced by caspase-3 in vitro. <i>FEBS Letters</i> , 2002, 510, 62-66.	1.3	53
96	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> , 2001, 1, 142-142.	0.8	4
97	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> , 1999, 42, 240-248.	1.3	0
98	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> , 1998, 92, 4545-4553.	0.6	57
99	v-Abl protein tyrosine kinase (PTK) mediated suppression of apoptosis is associated with the up-regulation of Bcl-XL. <i>Oncogene</i> , 1997, 15, 2249-2254.	2.6	30