Meng C Wang

List of Publications by Year
in descending order

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89 papers	5,899 citations	101496 36 h-index	79644 73 g-index
104 all docs	104 docs citations	104 times ranked	8547 citing authors

#	Article	IF	Citations
1	JNK Extends Life Span and Limits Growth by Antagonizing Cellular and Organism-Wide Responses to Insulin Signaling. Cell, 2005, 121, 115-125.	13.5	481
2	Live-cell imaging of alkyne-tagged small biomolecules by stimulated Raman scattering. Nature Methods, 2014, 11, 410-412.	9.0	404
3	JNK Signaling Confers Tolerance to Oxidative Stress and Extends Lifespan in Drosophila. Developmental Cell, 2003, 5, 811-816.	3.1	373
4	Fat Metabolism Links Germline Stem Cells and Longevity in C. elegans. Science, 2008, 322, 957-960.	6.0	362
5	Microbial Genetic Composition Tunes Host Longevity. Cell, 2017, 169, 1249-1262.e13.	13.5	256
6	Cyclophilin A Is a Proinflammatory Cytokine that Activates Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1186-1191.	1.1	214
7	Lysosomal signaling molecules regulate longevity in Caenorhabditis elegans. Science, 2015, 347, 83-86.	6.0	211
8	Vibrational imaging of newly synthesized proteins in live cells by stimulated Raman scattering microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11226-11231.	3.3	193
9	Quantitative real-time imaging of glutathione. Nature Communications, 2017, 8, 16087.	5.8	192
10	RNAi screening for fat regulatory genes with SRS microscopy. Nature Methods, 2011, 8, 135-138.	9.0	175
11	In Vivo Metabolic Fingerprinting of Neutral Lipids with Hyperspectral Stimulated Raman Scattering Microscopy. Journal of the American Chemical Society, 2014, 136, 8820-8828.	6.6	169
12	Quantitative Imaging of Glutathione in Live Cells Using a Reversible Reaction-Based Ratiometric Fluorescent Probe. ACS Chemical Biology, 2015, 10, 864-874.	1.6	164
13	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. Science, 2021, 372, 984-989.	6.0	132
14	Novel cell segmentation and online SVM for cell cycle phase identification in automated microscopy. Bioinformatics, 2008, 24, 94-101.	1.8	127
15	JNK protects Drosophila from oxidative stress by trancriptionally activating autophagy. Mechanisms of Development, 2009, 126, 624-637.	1.7	112
16	Enhancing intracellular accumulation and target engagement of PROTACs with reversible covalent chemistry. Nature Communications, 2020, 11, 4268.	5.8	112
17	EGF Receptor Inhibition Radiosensitizes NSCLC Cells by Inducing Senescence in Cells Sustaining DNA Double-Strand Breaks. Cancer Research, 2011, 71, 6261-6269.	0.4	105
18	Reversible Reaction-Based Fluorescent Probe for Real-Time Imaging of Glutathione Dynamics in Mitochondria. ACS Sensors, 2017, 2, 1257-1261.	4.0	103

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19	Lipid metabolism and lipid signals in aging and longevity. Developmental Cell, 2021, 56, 1394-1407.	3.1	95
20	Mutations in PURA Cause Profound Neonatal Hypotonia, Seizures, and Encephalopathy in 5q31.3 Microdeletion Syndrome. American Journal of Human Genetics, 2014, 95, 579-583.	2.6	92
21	Label-free imaging of lipid dynamics using Coherent Anti-stokes Raman Scattering (CARS) and Stimulated Raman Scattering (SRS) microscopy. Current Opinion in Genetics and Development, 2011, 21, 585-590.	1.5	85
22	Microbial metabolites regulate host lipid metabolism through NR5Aâ€“Hedgehog signalling. Nature Cell Biology, 2017, 19, 550-557.	4.6	83
23	RNA Editing Genes Associated with Extreme Old Age in Humans and with Lifespan in C. elegans. PLoS ONE, 2009, 4, e8210.	1.1	81
24	Lysosomes: Signaling Hubs for Metabolic Sensing and Longevity. Trends in Cell Biology, 2019, 29, 876-887.	3.6	81
25	Radiation Resistance in KRAS-Mutated Lung Cancer Is Enabled by Stem-like Properties Mediated by an Osteopontinâ€“EGFR Pathway. Cancer Research, 2017, 77, 2018-2028.	0.4	80
26	Omega-3 and -6 fatty acids allocate somatic and germline lipids to ensure fitness during nutrient and oxidative stress in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15378-15383.	3.3	73
27	Lysosomal Signaling Promotes Longevity by Adjusting Mitochondrial Activity. Developmental Cell, 2019, 48, 685-696.e5.	3.1	71
28	Shedding new light on lipid functions with CARS and SRS microscopy. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 1120-1129.	1.2	64
29	EGFR-Mediated Chromatin Condensation Protects KRAS-Mutant Cancer Cells against Ionizing Radiation. Cancer Research, 2014, 74, 2825-2834.	0.4	61
30	Challenges and Opportunities for Small-Molecule Fluorescent Probes in Redox Biology Applications. Antioxidants and Redox Signaling, 2018, 29, 518-540.	2.5	56
31	Identification of lipid droplet structure-like/resident proteins in Caenorhabditis elegans. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2481-2491.	1.9	50
32	Olfactory specificity regulates lipid metabolism through neuroendocrine signaling in Caenorhabditis elegans. Nature Communications, 2020, 11, 1450.	5.8	50
33	MIPEP recessive variants cause a syndrome of left ventricular non-compaction, hypotonia, and infantile death. Genome Medicine, 2016, 8, 106.	3.6	43
34	High-throughput screens using photo-highlighting discover BMP signaling in mitochondrial lipid oxidation. Nature Communications, 2017, 8, 865.	5.8	43
35	Optogenetic control of gut bacterial metabolism to promote longevity. ELife, 2020, 9, .	2.8	43
36	PARP-1 inhibition with or without ionizing radiation confers reactive oxygen species-mediated cytotoxicity preferentially to cancer cells with mutant TP53. Oncogene, 2018, 37, 2793-2805.	2.6	42

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37	Acquired Resistance of EGFR-Mutated Lung Cancer to Tyrosine Kinase Inhibitor Treatment Promotes PARP Inhibitor Sensitivity. Cell Reports, 2019, 27, 3422-3432.e4.	2.9	42
38	Gene Pathways That Delay Caenorhabditis elegans Reproductive Senescence. PLoS Genetics, 2014, 10, e1004752.	1.5	41
39	Radioresistance of KRAS/TP53â€mutated lung cancer can be overcome by radiation dose escalation or EGFR tyrosine kinase inhibition in vivo. International Journal of Cancer, 2020, 147, 472-477.	2.3	36
40	Adapting a Drug Screening Platform to Discover Associations of Molecular Targeted Radiosensitizers with Genomic Biomarkers. Molecular Cancer Research, 2015, 13, 713-720.	1.5	34
41	Disruption of SLX4-MUS81 Function IncreasesÂthe Relative Biological Effectiveness of Proton Radiation. International Journal of Radiation Oncology Biology Physics, 2016, 95, 78-85.	0.4	33
42	Context based mixture model for cell phase identification in automated fluorescence microscopy. BMC Bioinformatics, 2007, 8, 32.	1.2	31
43	Olfaction Modulates Reproductive Plasticity through Neuroendocrine Signaling in Caenorhabditis elegans. Current Biology, 2015, 25, 2284-2289.	1.8	30
44	Lysosome lipid signalling from the periphery to neurons regulates longevity. Nature Cell Biology, 2022, 24, 906-916.	4.6	30
45	The Amyloid Precursor Protein Is a Conserved Receptor for Slit to Mediate Axon Guidance. ENeuro, 2017, 4, ENEURO.0185-17.2017.	0.9	29
46	Escherichia coli Metabolite Profiling Leads to the Development of an RNA Interference Strain for Caenorhabditis elegans. G3: Genes, Genomes, Genetics, 2020, 10, 189-198.	0.8	27
47	Quantitative Real-Time Imaging of Glutathione with Subcellular Resolution. Antioxidants and Redox Signaling, 2019, 30, 1900-1910.	2.5	26
48	Fingerprint Stimulated Raman Scattering Imaging Reveals Retinoid Coupling Lipid Metabolism and Survival. ChemPhysChem, 2018, 19, 2500-2506.	1.0	25
49	â€˜Inside Outâ€™â€“ a dialogue between mitochondria and bacteria. FEBS Journal, 2019, 286, 630-641.	2.2	25
50	Labelâ€Free Biomedical Imaging of Lipids by Stimulated Raman Scattering Microscopy. Current Protocols in Molecular Biology, 2015, 109, 30.3.1-30.3.17.	2.9	24
51	Molecular Mechanisms of Lysosome and Nucleus Communication. Trends in Biochemical Sciences, 2020, 45, 978-991.	3.7	24
52	CAPER Is Vital for Energy and Redox Homeostasis by Integrating Glucose-Induced Mitochondrial Functions via ERR-Î±-Gabpa and Stress-Induced Adaptive Responses via NF-ÎºB-cMYC. PLoS Genetics, 2015, 11, e1005116.	1.5	22
53	Host and microbiota metabolic signals in aging and longevity. Nature Chemical Biology, 2021, 17, 1027-1036.	3.9	22
54	Localized glucose import, glycolytic processing, and mitochondria generate a focused ATP burst to power basement-membrane invasion. Developmental Cell, 2022, 57, 732-749.e7.	3.1	22

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55	FoxO3 deficiency in cortical astrocytes leads to impaired lipid metabolism and aggravated amyloid pathology. Aging Cell, 2021, 20, e13432.	3.0	21
56	Does total antioxidant capacity modify adverse cardiac responses associated with ambient ultrafine, accumulation mode, and fine particles in patients undergoing cardiac rehabilitation?. Environmental Research, 2016, 149, 15-22.	3.7	20
57	Genetically anchored fluorescent probes for subcellular specific imaging of hydrogen sulfide. Analyst, The, 2016, 141, 1209-1213.	1.7	20
58	Methylâ€Sensing Nuclear Receptor Liver Receptor Homologâ€1 Regulates Mitochondrial Function in Mouse Hepatocytes. Hepatology, 2020, 71, 1055-1069.	3.6	20
59	Influence of Diabetes Mellitus on Outcomes in Patients After Left Ventricular Assist Device Implantation. Annals of Thoracic Surgery, 2018, 106, 555-560.	0.7	17
60	NOVEL CELL SEGMENTATION AND ONLINE LEARNING ALGORITHMS FOR CELL PHASE IDENTIFICATION IN AUTOMATED TIME-LAPSE MICROSCOPY. , 2007, , .		16
61	Dissecting lipid droplet biology with coherent Raman scattering microscopy. Journal of Cell Science, 2022, 135, .	1.2	16
62	Inhibition of the Anti-Apoptotic Bcl-2 Family by BH3 Mimetics Sensitize the Mitochondrial Permeability Transition Pore Through Bax and Bak. Frontiers in Cell and Developmental Biology, 2021, 9, 765973.	1.8	15
63	A common Chk1-dependent phenotype of DNA double-strand break suppression in two distinct radioresistant cancer types. Breast Cancer Research and Treatment, 2019, 174, 605-613.	1.1	14
64	Effectiveness of Implantable Cardioverter-Defibrillators to ReduceÂMortality in Patients With LongÂQT Syndrome. Journal of the American College of Cardiology, 2021, 78, 2076-2088.	1.2	14
65	Renal Function Changes Following Left Ventricular Assist Device Implantation. American Journal of Cardiology, 2017, 120, 2213-2220.	0.7	13
66	Does Autophagy Promote Longevity? It Depends.. Cell, 2019, 177, 221-222.	13.5	12
67	Changes in triggering of ST-elevation myocardial infarction by particulate air pollution in Monroe County, New York over time: a case-crossover study. Environmental Health, 2019, 18, 82.	1.7	11
68	Phosphorylation-Dependent Interactome of Ryanodine Receptor Type 2 in the Heart. Proteomes, 2021, 9, 27.	1.7	10
69	The Bacterivoreâ€™s Solution: Fight and Flight to Promote Survival. Developmental Cell, 2019, 49, 7-9.	3.1	9
70	A comparative study of two robotic thyroidectomy procedures: transoral vestibular versus bilateral axillary-breast approach. BMC Surgery, 2022, 22, 173.	0.6	9
71	Structural characterization of life-extending Caenorhabditis elegans Lipid Binding Protein 8. Scientific Reports, 2019, 9, 9966.	1.6	8
72	Risk of Cardiac Events Associated With Antidepressant Therapy in Patients With Long QT Syndrome. American Journal of Cardiology, 2018, 121, 182-187.	0.7	6

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73	Targeting calcium-mediated inter-organellar crosstalk in cardiac diseases. Expert Opinion on Therapeutic Targets, 2022, 26, 303-317.	1.5	6
74	Label-Free Imaging of Lipid Storage Dynamics in Caenorhabditis elegans using Stimulated Raman Scattering Microscopy. Journal of Visualized Experiments, 2021, , .	0.2	5
75	Glucocorticoids in acute pancreatitis: a propensity score matching analysis. BMC Gastroenterology, 2021, 21, 331.	0.8	4
76	Discovery of a potent BTK and IKZF1/3 triple degrader through reversible covalent BTK PROTAC development. Current Research in Chemical Biology, 2022, 2, 100029.	1.4	4
77	Lipid Metabolism, Lipid Signalling and Longevity. Healthy Ageing and Longevity, 2017, , 307-329.	0.2	3
78	Glutathione Quantification in Live Cells with Real-Time Imaging and Flow Cytometry. STAR Protocols, 2020, 1, 100170.	0.5	3
79	Fluorescent Probes and Mass Spectrometry-Based Methods to Quantify Thiols in Biological Systems. Antioxidants and Redox Signaling, 2022, 36, 354-365.	2.5	3
80	Neuronal regulation of longevity by staying cool. Genes and Development, 2018, 32, 197-198.	2.7	2
81	TP53 mutation status: emerging biomarker for precision radiation medicine?. Oncoscience, 2018, 5, 258-259.	0.9	2
82	Inflammatory markers modify the risk of recurrent coronary events associated with apolipoprotein A-I in postinfarction patients. Journal of Clinical Lipidology, 2017, 11, 215-223.	0.6	1
83	Aging: Antagonistic Pleiotropy Supported by Gut Eating. Current Biology, 2018, 28, R890-R892.	1.8	1
84	Cracking genetic codes of longevity. Nature Reviews Molecular Cell Biology, 2021, , .	16.1	1
85	Mitochondrial UPR through generations. Nature Cell Biology, 2021, 23, 820-821.	4.6	1
86	Posthepatectomy jaundice induced by paroxysmal nocturnal hemoglobinuria: A case report. World Journal of Clinical Cases, 2021, 9, 10046-10051.	0.3	1
87	Building multidisciplinary research. Molecular Biology of the Cell, 2017, 28, 2905-2907.	0.9	0
88	Clinical practice of Best Practice Nursing Care Standards for Older Adults with Fragility Hip Fracture: A propensity score matched analysis. Applied Nursing Research, 2021, 62, 151491.	1.0	0
89	Biomedical applications of SRS microscopy in functional genetics and genomics. , 2022, , 475-485.		0