

# Meng C Wang

## List of Publications by Year in descending order

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89  
papers

5,899  
citations

101543  
36  
h-index

79698  
73  
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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. <i>Cell</i> , 2005, 121, 115-125.	28.9	481
2	Live-cell imaging of alkyne-tagged small biomolecules by stimulated Raman scattering. <i>Nature Methods</i> , 2014, 11, 410-412.	19.0	404
3	JNK Signaling Confers Tolerance to Oxidative Stress and Extends Lifespan in <i>Drosophila</i> . <i>Developmental Cell</i> , 2003, 5, 811-816.	7.0	373
4	Fat Metabolism Links Germline Stem Cells and Longevity in <i>C. elegans</i> . <i>Science</i> , 2008, 322, 957-960.	12.6	362
5	Microbial Genetic Composition Tunes Host Longevity. <i>Cell</i> , 2017, 169, 1249-1262.e13.	28.9	256
6	Cyclophilin A Is a Proinflammatory Cytokine that Activates Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 1186-1191.	2.4	214
7	Lysosomal signaling molecules regulate longevity in <i>Caenorhabditis elegans</i> . <i>Science</i> , 2015, 347, 83-86.	12.6	211
8	Vibrational imaging of newly synthesized proteins in live cells by stimulated Raman scattering microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11226-11231.	7.1	193
9	Quantitative real-time imaging of glutathione. <i>Nature Communications</i> , 2017, 8, 16087.	12.8	192
10	RNAi screening for fat regulatory genes with SRS microscopy. <i>Nature Methods</i> , 2011, 8, 135-138.	19.0	175
11	<i>In Vivo</i> Metabolic Fingerprinting of Neutral Lipids with Hyperspectral Stimulated Raman Scattering Microscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 8820-8828.	13.7	169
12	Quantitative Imaging of Glutathione in Live Cells Using a Reversible Reaction-Based Ratiometric Fluorescent Probe. <i>ACS Chemical Biology</i> , 2015, 10, 864-874.	3.4	164
13	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. <i>Science</i> , 2021, 372, 984-989.	12.6	132
14	Novel cell segmentation and online SVM for cell cycle phase identification in automated microscopy. <i>Bioinformatics</i> , 2008, 24, 94-101.	4.1	127
15	JNK protects <i>Drosophila</i> from oxidative stress by transcriptionally activating autophagy. <i>Mechanisms of Development</i> , 2009, 126, 624-637.	1.7	112
16	Enhancing intracellular accumulation and target engagement of PROTACs with reversible covalent chemistry. <i>Nature Communications</i> , 2020, 11, 4268.	12.8	112
17	EGF Receptor Inhibition Radiosensitizes NSCLC Cells by Inducing Senescence in Cells Sustaining DNA Double-Strand Breaks. <i>Cancer Research</i> , 2011, 71, 6261-6269.	0.9	105
18	Reversible Reaction-Based Fluorescent Probe for Real-Time Imaging of Glutathione Dynamics in Mitochondria. <i>ACS Sensors</i> , 2017, 2, 1257-1261.	7.8	103

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19	Lipid metabolism and lipid signals in aging and longevity. <i>Developmental Cell</i> , 2021, 56, 1394-1407.	7.0	95
20	Mutations in PURA Cause Profound Neonatal Hypotonia, Seizures, and Encephalopathy in 5q31.3 Microdeletion Syndrome. <i>American Journal of Human Genetics</i> , 2014, 95, 579-583.	6.2	92
21	Label-free imaging of lipid dynamics using Coherent Anti-stokes Raman Scattering (CARS) and Stimulated Raman Scattering (SRS) microscopy. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 585-590.	3.3	85
22	Microbial metabolites regulate host lipid metabolism through NR5A Hedgehog signalling. <i>Nature Cell Biology</i> , 2017, 19, 550-557.	10.3	83
23	RNA Editing Genes Associated with Extreme Old Age in Humans and with Lifespan in <i>C. elegans</i> . <i>PLoS ONE</i> , 2009, 4, e8210.	2.5	81
24	Lysosomes: Signaling Hubs for Metabolic Sensing and Longevity. <i>Trends in Cell Biology</i> , 2019, 29, 876-887.	7.9	81
25	Radiation Resistance in KRAS-Mutated Lung Cancer Is Enabled by Stem-like Properties Mediated by an Osteopontin-EGFR Pathway. <i>Cancer Research</i> , 2017, 77, 2018-2028.	0.9	80
26	Omega-3 and -6 fatty acids allocate somatic and germline lipids to ensure fitness during nutrient and oxidative stress in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15378-15383.	7.1	73
27	Lysosomal Signaling Promotes Longevity by Adjusting Mitochondrial Activity. <i>Developmental Cell</i> , 2019, 48, 685-696.e5.	7.0	71
28	Shedding new light on lipid functions with CARS and SRS microscopy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 1120-1129.	2.4	64
29	EGFR-Mediated Chromatin Condensation Protects KRAS-Mutant Cancer Cells against Ionizing Radiation. <i>Cancer Research</i> , 2014, 74, 2825-2834.	0.9	61
30	Challenges and Opportunities for Small-Molecule Fluorescent Probes in Redox Biology Applications. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 518-540.	5.4	56
31	Identification of lipid droplet structure-like/resident proteins in <i>Caenorhabditis elegans</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2481-2491.	4.1	50
32	Olfactory specificity regulates lipid metabolism through neuroendocrine signaling in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2020, 11, 1450.	12.8	50
33	MIPEP recessive variants cause a syndrome of left ventricular non-compaction, hypotonia, and infantile death. <i>Genome Medicine</i> , 2016, 8, 106.	8.2	43
34	High-throughput screens using photo-highlighting discover BMP signaling in mitochondrial lipid oxidation. <i>Nature Communications</i> , 2017, 8, 865.	12.8	43
35	Optogenetic control of gut bacterial metabolism to promote longevity. <i>ELife</i> , 2020, 9, .	6.0	43
36	PARP-1 inhibition with or without ionizing radiation confers reactive oxygen species-mediated cytotoxicity preferentially to cancer cells with mutant TP53. <i>Oncogene</i> , 2018, 37, 2793-2805.	5.9	42

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37	Acquired Resistance of EGFR-Mutated Lung Cancer to Tyrosine Kinase Inhibitor Treatment Promotes PARP Inhibitor Sensitivity. <i>Cell Reports</i> , 2019, 27, 3422-3432.e4.	6.4	42
38	Gene Pathways That Delay <i>Caenorhabditis elegans</i> Reproductive Senescence. <i>PLoS Genetics</i> , 2014, 10, e1004752.	3.5	41
39	Radioresistance of KRAS/TP53-mutated lung cancer can be overcome by radiation dose escalation or EGFR tyrosine kinase inhibition in vivo. <i>International Journal of Cancer</i> , 2020, 147, 472-477.	5.1	36
40	Adapting a Drug Screening Platform to Discover Associations of Molecular Targeted Radiosensitizers with Genomic Biomarkers. <i>Molecular Cancer Research</i> , 2015, 13, 713-720.	3.4	34
41	Disruption of SLX4-MUS81 Function Increases the Relative Biological Effectiveness of Proton Radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 78-85.	0.8	33
42	Context based mixture model for cell phase identification in automated fluorescence microscopy. <i>BMC Bioinformatics</i> , 2007, 8, 32.	2.6	31
43	Olfaction Modulates Reproductive Plasticity through Neuroendocrine Signaling in <i>Caenorhabditis elegans</i> . <i>Current Biology</i> , 2015, 25, 2284-2289.	3.9	30
44	Lysosome lipid signalling from the periphery to neurons regulates longevity. <i>Nature Cell Biology</i> , 2022, 24, 906-916.	10.3	30
45	The Amyloid Precursor Protein Is a Conserved Receptor for Slit to Mediate Axon Guidance. <i>ENeuro</i> , 2017, 4, ENEURO.0185-17.2017.	1.9	29
46	<i>Escherichia coli</i> Metabolite Profiling Leads to the Development of an RNA Interference Strain for <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 189-198.	1.8	27
47	Quantitative Real-Time Imaging of Glutathione with Subcellular Resolution. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 1900-1910.	5.4	26
48	Fingerprint Stimulated Raman Scattering Imaging Reveals Retinoid Coupling Lipid Metabolism and Survival. <i>ChemPhysChem</i> , 2018, 19, 2500-2506.	2.1	25
49	“Inside Out” a dialogue between mitochondria and bacteria. <i>FEBS Journal</i> , 2019, 286, 630-641.	4.7	25
50	Label-Free Biomedical Imaging of Lipids by Stimulated Raman Scattering Microscopy. <i>Current Protocols in Molecular Biology</i> , 2015, 109, 30.3.1-30.3.17.	2.9	24
51	Molecular Mechanisms of Lysosome and Nucleus Communication. <i>Trends in Biochemical Sciences</i> , 2020, 45, 978-991.	7.5	24
52	CAPER Is Vital for Energy and Redox Homeostasis by Integrating Glucose-Induced Mitochondrial Functions via <i>ERR-1-Gabpa</i> and Stress-Induced Adaptive Responses via <i>NF-<math>\kappa</math>B-cMYC</i> . <i>PLoS Genetics</i> , 2015, 11, e1005116.	3.5	22
53	Host and microbiota metabolic signals in aging and longevity. <i>Nature Chemical Biology</i> , 2021, 17, 1027-1036.	8.0	22
54	Localized glucose import, glycolytic processing, and mitochondria generate a focused ATP burst to power basement-membrane invasion. <i>Developmental Cell</i> , 2022, 57, 732-749.e7.	7.0	22

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55	FoxO3 deficiency in cortical astrocytes leads to impaired lipid metabolism and aggravated amyloid pathology. <i>Aging Cell</i> , 2021, 20, e13432.	6.7	21
56	Does total antioxidant capacity modify adverse cardiac responses associated with ambient ultrafine, accumulation mode, and fine particles in patients undergoing cardiac rehabilitation?. <i>Environmental Research</i> , 2016, 149, 15-22.	7.5	20
57	Genetically anchored fluorescent probes for subcellular specific imaging of hydrogen sulfide. <i>Analyst</i> , The, 2016, 141, 1209-1213.	3.5	20
58	Methylâ€ Sensing Nuclear Receptor Liver Receptor Homologâ€1 Regulates Mitochondrial Function in Mouse Hepatocytes. <i>Hepatology</i> , 2020, 71, 1055-1069.	7.3	20
59	Influence of Diabetes Mellitus on Outcomes in Patients After Left Ventricular Assist Device Implantation. <i>Annals of Thoracic Surgery</i> , 2018, 106, 555-560.	1.3	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. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	16
62	Inhibition of the Anti-Apoptotic Bcl-2 Family by BH3 Mimetics Sensitize the Mitochondrial Permeability Transition Pore Through Bax and Bak. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 765973.	3.7	15
63	A common Chk1-dependent phenotype of DNA double-strand break suppression in two distinct radioresistant cancer types. <i>Breast Cancer Research and Treatment</i> , 2019, 174, 605-613.	2.5	14
64	Effectiveness of Implantable Cardioverter-Defibrillators to Reduceâ€Mortality in Patients With Longâ€QT Syndrome. <i>Journal of the American College of Cardiology</i> , 2021, 78, 2076-2088.	2.8	14
65	Renal Function Changes Following Left Ventricular Assist Device Implantation. <i>American Journal of Cardiology</i> , 2017, 120, 2213-2220.	1.6	13
66	Does Autophagy Promote Longevity? It Depends.. <i>Cell</i> , 2019, 177, 221-222.	28.9	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. <i>Environmental Health</i> , 2019, 18, 82.	4.0	11
68	Phosphorylation-Dependent Interactome of Ryanodine Receptor Type 2 in the Heart. <i>Proteomes</i> , 2021, 9, 27.	3.5	10
69	The Bacterivoreâ€™s Solution: Fight and Flight to Promote Survival. <i>Developmental Cell</i> , 2019, 49, 7-9.	7.0	9
70	A comparative study of two robotic thyroidectomy procedures: transoral vestibular versus bilateral axillary-breast approach. <i>BMC Surgery</i> , 2022, 22, 173.	1.3	9
71	Structural characterization of life-extending <i>Caenorhabditis elegans</i> Lipid Binding Protein 8. <i>Scientific Reports</i> , 2019, 9, 9966.	3.3	8
72	Risk of Cardiac Events Associated With Antidepressant Therapy in Patients With Long QT Syndrome. <i>American Journal of Cardiology</i> , 2018, 121, 182-187.	1.6	6

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73	Targeting calcium-mediated inter-organellar crosstalk in cardiac diseases. Expert Opinion on Therapeutic Targets, 2022, 26, 303-317.	3.4	6
74	Label-Free Imaging of Lipid Storage Dynamics in <em>Caenorhabditis elegans</em> using Stimulated Raman Scattering Microscopy. Journal of Visualized Experiments, 2021, , .	0.3	5
75	Glucocorticoids in acute pancreatitis: a propensity score matching analysis. BMC Gastroenterology, 2021, 21, 331.	2.0	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.	2.9	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.	1.2	3
79	Fluorescent Probes and Mass Spectrometry-Based Methods to Quantify Thiols in Biological Systems. Antioxidants and Redox Signaling, 2022, 36, 354-365.	5.4	3
80	Neuronal regulation of longevity by staying cool. Genes and Development, 2018, 32, 197-198.	5.9	2
81	TP53 mutation status: emerging biomarker for precision radiation medicine?. Oncoscience, 2018, 5, 258-259.	2.2	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.	1.5	1
83	Aging: Antagonistic Pleiotropy Supported by Gut Eating. Current Biology, 2018, 28, R890-R892.	3.9	1
84	Cracking genetic codes of longevity. Nature Reviews Molecular Cell Biology, 2021, , .	37.0	1
85	Mitochondrial UPR through generations. Nature Cell Biology, 2021, 23, 820-821.	10.3	1
86	Posthepatectomy jaundice induced by paroxysmal nocturnal hemoglobinuria: A case report. World Journal of Clinical Cases, 2021, 9, 10046-10051.	0.8	1
87	Building multidisciplinary research. Molecular Biology of the Cell, 2017, 28, 2905-2907.	2.1	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.	2.2	0
89	Biomedical applications of SRS microscopy in functional genetics and genomics. , 2022, , 475-485.		0