

# 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	Dissecting lipid droplet biology with coherent Raman scattering microscopy. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	16
2	Fluorescent Probes and Mass Spectrometry-Based Methods to Quantify Thiols in Biological Systems. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 354-365.	2.5	3
3	Biomedical applications of SRS microscopy in functional genetics and genomics. , 2022, , 475-485.		0
4	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.	3.1	22
5	Targeting calcium-mediated inter-organellar crosstalk in cardiac diseases. <i>Expert Opinion on Therapeutic Targets</i> , 2022, 26, 303-317.	1.5	6
6	A comparative study of two robotic thyroidectomy procedures: transoral vestibular versus bilateral axillary-breast approach. <i>BMC Surgery</i> , 2022, 22, 173.	0.6	9
7	Discovery of a potent BTK and IKZF1/3 triple degrader through reversible covalent BTK PROTAC development. <i>Current Research in Chemical Biology</i> , 2022, 2, 100029.	1.4	4
8	Lysosome lipid signalling from the periphery to neurons regulates longevity. <i>Nature Cell Biology</i> , 2022, 24, 906-916.	4.6	30
9	Label-Free Imaging of Lipid Storage Dynamics in <i>Caenorhabditis elegans</i> using Stimulated Raman Scattering Microscopy. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	5
10	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. <i>Science</i> , 2021, 372, 984-989.	6.0	132
11	Lipid metabolism and lipid signals in aging and longevity. <i>Developmental Cell</i> , 2021, 56, 1394-1407.	3.1	95
12	Phosphorylation-Dependent Interactome of Ryanodine Receptor Type 2 in the Heart. <i>Proteomes</i> , 2021, 9, 27.	1.7	10
13	Cracking genetic codes of longevity. <i>Nature Reviews Molecular Cell Biology</i> , 2021, , .	16.1	1
14	FoxO3 deficiency in cortical astrocytes leads to impaired lipid metabolism and aggravated amyloid pathology. <i>Aging Cell</i> , 2021, 20, e13432.	3.0	21
15	Glucocorticoids in acute pancreatitis: a propensity score matching analysis. <i>BMC Gastroenterology</i> , 2021, 21, 331.	0.8	4
16	Mitochondrial UPR through generations. <i>Nature Cell Biology</i> , 2021, 23, 820-821.	4.6	1
17	Host and microbiota metabolic signals in aging and longevity. <i>Nature Chemical Biology</i> , 2021, 17, 1027-1036.	3.9	22
18	Clinical practice of Best Practice Nursing Care Standards for Older Adults with Fragility Hip Fracture: A propensity score matched analysis. <i>Applied Nursing Research</i> , 2021, 62, 151491.	1.0	0

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19	Posthepatectomy jaundice induced by paroxysmal nocturnal hemoglobinuria: A case report. <i>World Journal of Clinical Cases</i> , 2021, 9, 10046-10051.	0.3	1
20	Effectiveness of Implantable Cardioverter-Defibrillators to Reduce Mortality in Patients With Long QT Syndrome. <i>Journal of the American College of Cardiology</i> , 2021, 78, 2076-2088.	1.2	14
21	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.	1.8	15
22	Methylcysteine Sensing Nuclear Receptor Liver Receptor Homolog 1 Regulates Mitochondrial Function in Mouse Hepatocytes. <i>Hepatology</i> , 2020, 71, 1055-1069.	3.6	20
23	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.	2.3	36
24	Enhancing intracellular accumulation and target engagement of PROTACs with reversible covalent chemistry. <i>Nature Communications</i> , 2020, 11, 4268.	5.8	112
25	Glutathione Quantification in Live Cells with Real-Time Imaging and Flow Cytometry. <i>STAR Protocols</i> , 2020, 1, 100170.	0.5	3
26	<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.	0.8	27
27	Olfactory specificity regulates lipid metabolism through neuroendocrine signaling in <i>Caenorhabditis elegans</i> . <i>Nature Communications</i> , 2020, 11, 1450.	5.8	50
28	Molecular Mechanisms of Lysosome and Nucleus Communication. <i>Trends in Biochemical Sciences</i> , 2020, 45, 978-991.	3.7	24
29	Optogenetic control of gut bacterial metabolism to promote longevity. <i>ELife</i> , 2020, 9, .	2.8	43
30	Structural characterization of life-extending <i>Caenorhabditis elegans</i> Lipid Binding Protein 8. <i>Scientific Reports</i> , 2019, 9, 9966.	1.6	8
31	Lysosomes: Signaling Hubs for Metabolic Sensing and Longevity. <i>Trends in Cell Biology</i> , 2019, 29, 876-887.	3.6	81
32	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.	1.7	11
33	Lysosomal Signaling Promotes Longevity by Adjusting Mitochondrial Activity. <i>Developmental Cell</i> , 2019, 48, 685-696.e5.	3.1	71
34	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.	2.9	42
35	The Bacterivore's Solution: Fight and Flight to Promote Survival. <i>Developmental Cell</i> , 2019, 49, 7-9.	3.1	9
36	Does Autophagy Promote Longevity? It Depends.. <i>Cell</i> , 2019, 177, 221-222.	13.5	12

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37	“Inside Out” a dialogue between mitochondria and bacteria. FEBS Journal, 2019, 286, 630-641.	2.2	25
38	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
39	Quantitative Real-Time Imaging of Glutathione with Subcellular Resolution. Antioxidants and Redox Signaling, 2019, 30, 1900-1910.	2.5	26
40	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
41	Neuronal regulation of longevity by staying cool. Genes and Development, 2018, 32, 197-198.	2.7	2
42	Challenges and Opportunities for Small-Molecule Fluorescent Probes in Redox Biology Applications. Antioxidants and Redox Signaling, 2018, 29, 518-540.	2.5	56
43	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
44	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
45	Aging: Antagonistic Pleiotropy Supported by Gut Eating. Current Biology, 2018, 28, R890-R892.	1.8	1
46	Fingerprint Stimulated Raman Scattering Imaging Reveals Retinoid Coupling Lipid Metabolism and Survival. ChemPhysChem, 2018, 19, 2500-2506.	1.0	25
47	TP53 mutation status: emerging biomarker for precision radiation medicine?. Oncoscience, 2018, 5, 258-259.	0.9	2
48	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
49	Radiation Resistance in KRAS-Mutated Lung Cancer Is Enabled by Stem-like Properties Mediated by an Osteopontin-EGFR Pathway. Cancer Research, 2017, 77, 2018-2028.	0.4	80
50	Microbial metabolites regulate host lipid metabolism through NR5A Hedgehog signalling. Nature Cell Biology, 2017, 19, 550-557.	4.6	83
51	Microbial Genetic Composition Tunes Host Longevity. Cell, 2017, 169, 1249-1262.e13.	13.5	256
52	Lipid Metabolism, Lipid Signalling and Longevity. Healthy Ageing and Longevity, 2017, , 307-329.	0.2	3
53	Building multidisciplinary research. Molecular Biology of the Cell, 2017, 28, 2905-2907.	0.9	0
54	High-throughput screens using photo-highlighting discover BMP signaling in mitochondrial lipid oxidation. Nature Communications, 2017, 8, 865.	5.8	43

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55	Renal Function Changes Following Left Ventricular Assist Device Implantation. <i>American Journal of Cardiology</i> , 2017, 120, 2213-2220.	0.7	13
56	Reversible Reaction-Based Fluorescent Probe for Real-Time Imaging of Glutathione Dynamics in Mitochondria. <i>ACS Sensors</i> , 2017, 2, 1257-1261.	4.0	103
57	Quantitative real-time imaging of glutathione. <i>Nature Communications</i> , 2017, 8, 16087.	5.8	192
58	The Amyloid Precursor Protein Is a Conserved Receptor for Slit to Mediate Axon Guidance. <i>ENeuro</i> , 2017, 4, ENEURO.0185-17.2017.	0.9	29
59	MIPEP recessive variants cause a syndrome of left ventricular non-compaction, hypotonia, and infantile death. <i>Genome Medicine</i> , 2016, 8, 106.	3.6	43
60	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.	3.7	20
61	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.	0.4	33
62	Genetically anchored fluorescent probes for subcellular specific imaging of hydrogen sulfide. <i>Analyst</i> , 2016, 141, 1209-1213.	1.7	20
63	Lysosomal signaling molecules regulate longevity in <i>Caenorhabditis elegans</i> . <i>Science</i> , 2015, 347, 83-86.	6.0	211
64	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
65	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.	1.9	50
66	Adapting a Drug Screening Platform to Discover Associations of Molecular Targeted Radiosensitizers with Genomic Biomarkers. <i>Molecular Cancer Research</i> , 2015, 13, 713-720.	1.5	34
67	CAPER Is Vital for Energy and Redox Homeostasis by Integrating Glucose-Induced Mitochondrial Functions via ERK1/2-Gabpa and Stress-Induced Adaptive Responses via NF- $\kappa$ B-cMYC. <i>PLoS Genetics</i> , 2015, 11, e1005116.	1.5	22
68	Olfaction Modulates Reproductive Plasticity through Neuroendocrine Signaling in <i>Caenorhabditis elegans</i> . <i>Current Biology</i> , 2015, 25, 2284-2289.	1.8	30
69	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.	3.3	73
70	Quantitative Imaging of Glutathione in Live Cells Using a Reversible Reaction-Based Ratiometric Fluorescent Probe. <i>ACS Chemical Biology</i> , 2015, 10, 864-874.	1.6	164
71	Gene Pathways That Delay <i>Caenorhabditis elegans</i> Reproductive Senescence. <i>PLoS Genetics</i> , 2014, 10, e1004752.	1.5	41
72	EGFR-Mediated Chromatin Condensation Protects KRAS-Mutant Cancer Cells against Ionizing Radiation. <i>Cancer Research</i> , 2014, 74, 2825-2834.	0.4	61

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73	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.	1.2	64
74	Live-cell imaging of alkyne-tagged small biomolecules by stimulated Raman scattering. <i>Nature Methods</i> , 2014, 11, 410-412.	9.0	404
75	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.	2.6	92
76	<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.	6.6	169
77	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.	3.3	193
78	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.	1.5	85
79	RNAi screening for fat regulatory genes with SRS microscopy. <i>Nature Methods</i> , 2011, 8, 135-138.	9.0	175
80	EGF Receptor Inhibition Radiosensitizes NSCLC Cells by Inducing Senescence in Cells Sustaining DNA Double-Strand Breaks. <i>Cancer Research</i> , 2011, 71, 6261-6269.	0.4	105
81	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.	1.1	81
82	JNK protects <i>Drosophila</i> from oxidative stress by transcriptionally activating autophagy. <i>Mechanisms of Development</i> , 2009, 126, 624-637.	1.7	112
83	Fat Metabolism Links Germline Stem Cells and Longevity in <i>C. elegans</i> . <i>Science</i> , 2008, 322, 957-960.	6.0	362
84	Novel cell segmentation and online SVM for cell cycle phase identification in automated microscopy. <i>Bioinformatics</i> , 2008, 24, 94-101.	1.8	127
85	NOVEL CELL SEGMENTATION AND ONLINE LEARNING ALGORITHMS FOR CELL PHASE IDENTIFICATION IN AUTOMATED TIME-LAPSE MICROSCOPY. , 2007, , .		16
86	Context based mixture model for cell phase identification in automated fluorescence microscopy. <i>BMC Bioinformatics</i> , 2007, 8, 32.	1.2	31
87	JNK Extends Life Span and Limits Growth by Antagonizing Cellular and Organism-Wide Responses to Insulin Signaling. <i>Cell</i> , 2005, 121, 115-125.	13.5	481
88	Cyclophilin A Is a Proinflammatory Cytokine that Activates Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 1186-1191.	1.1	214
89	JNK Signaling Confers Tolerance to Oxidative Stress and Extends Lifespan in <i>Drosophila</i> . <i>Developmental Cell</i> , 2003, 5, 811-816.	3.1	373