Gerald S Shadel

List of Publications by Year
in descending order

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57 papers	9,680 citations	101535 36 h-index	155644 55 g-index
60 all docs	60 docs citations	60 times ranked	14547 citing authors

#	Article	IF	Citations
1	Mitochondrial DNA stress primes the antiviral innate immune response. Nature, 2015, 520, 553-557.	27.8	1,255
2	Mitochondria in innate immune responses. Nature Reviews Immunology, 2011, 11, 389-402.	22.7	1,062
3	MITOCHONDRIAL DNA MAINTENANCE IN VERTEBRATES. Annual Review of Biochemistry, 1997, 66, 409-435.	11.1	933
4	Mitochondrial ROS Signaling in Organismal Homeostasis. Cell, 2015, 163, 560-569.	28.9	915
5	Mitochondrial DNA in innate immune responses and inflammatory pathology. Nature Reviews Immunology, 2017, 17, 363-375.	22.7	658
6	Apoptotic Caspases Prevent the Induction of Type I Interferons by Mitochondrial DNA. Cell, 2014, 159, 1563-1577.	28.9	625
7	Interventions to Slow Aging in Humans: Are We Ready?. Aging Cell, 2015, 14, 497-510.	6.7	481
8	Reduced TOR Signaling Extends Chronological Life Span via Increased Respiration and Upregulation of Mitochondrial Gene Expression. Cell Metabolism, 2007, 5, 265-277.	16.2	389
9	SARS-CoV-2 Spike Protein Impairs Endothelial Function via Downregulation of ACE 2. Circulation Research, 2021, 128, 1323-1326.	4.5	315
10	Initiation and Beyond: Multiple Functions of the Human Mitochondrial Transcription Machinery. Molecular Cell, 2006, 24, 813-825.	9.7	305
11	Regulation of Yeast Chronological Life Span by TORC1 via Adaptive Mitochondrial ROS Signaling. Cell Metabolism, 2011, 13, 668-678.	16.2	273
12	Epigenetic Silencing Mediates Mitochondria Stress-Induced Longevity. Cell Metabolism, 2013, 17, 954-964.	16.2	171
13	Ataxia-telangiectasia mutated kinase regulates ribonucleotide reductase and mitochondrial homeostasis. Journal of Clinical Investigation, 2007, 117, 2723-2734.	8.2	158
14	Oxidized DNA fragments exit mitochondria via mPTP- and VDAC-dependent channels to activate NLRP3 inflammasome and interferon signaling. Immunity, 2022, 55, 1370-1385.e8.	14.3	158
15	Extension of chronological life span by reduced TOR signaling requires down-regulation of Sch9p and involves increased mitochondrial OXPHOS complex density. Aging, 2009, 1, 131-145.	3.1	151
16	Mitochondrial Genome Instability and ROS Enhance Intestinal Tumorigenesis in APC Mice. American Journal of Pathology, 2012, 180, 24-31.	3.8	123
17	Mitochondrial Dysfunction Due to Oxidative Mitochondrial DNA Damage Is Reduced through Cooperative Actions of Diverse Proteins. Molecular and Cellular Biology, 2002, 22, 4086-4093.	2.3	114
18	Expression and Maintenance of Mitochondrial DNA. American Journal of Pathology, 2008, 172, 1445-1456.	3.8	107

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19	KDM5 histone demethylases repress immune response via suppression of STING. PLoS Biology, 2018, 16, e2006134.	5.6	106
20	Mitochondrial DNA stress signalling protects the nuclear genome. Nature Metabolism, 2019, 1, 1209-1218.	11.9	87
21	The Conserved Mec1/Rad53 Nuclear Checkpoint Pathway Regulates Mitochondrial DNA Copy Number in Saccharomyces cerevisiae. Molecular Biology of the Cell, 2005, 16, 3010-3018.	2.1	85
22	Mitohormesis in Mice via Sustained Basal Activation of Mitochondrial and Antioxidant Signaling. Cell Metabolism, 2018, 28, 776-786.e5.	16.2	84
23	Coupling the mitochondrial transcription machinery to human disease. Trends in Genetics, 2004, 20, 513-519.	6.7	77
24	Aging-dependent alterations in gene expression and a mitochondrial signature of responsiveness to human influenza vaccination. Aging, 2015, 7, 38-52.	3.1	72
25	Mitochondrial redox sensing by the kinase ATM maintains cellular antioxidant capacity. Science Signaling, 2018, 11, .	3.6	71
26	Intrinsic mitochondrial DNA repair defects in Ataxia Telangiectasia. DNA Repair, 2014, 13, 22-31.	2.8	68
27	Reducing Mitochondrial ROS Improves Disease-related Pathology in a Mouse Model of Ataxia-telangiectasia. Molecular Therapy, 2013, 21, 42-48.	8.2	66
28	Mitochondrial DNA, aconitase â€˜wrapsâ€™ it up. Trends in Biochemical Sciences, 2005, 30, 294-296.	7.5	55
29	Isolation of Mitochondria from Tissue Culture Cells. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot080002.	0.3	50
30	Macrophage-specific de Novo Synthesis of Ceramide Is Dispensable for Inflammasome-driven Inflammation and Insulin Resistance in Obesity. Journal of Biological Chemistry, 2015, 290, 29402-29413.	3.4	50
31	Mitochondrial DNA: cellular genotoxic stress sentinel. Trends in Biochemical Sciences, 2021, 46, 812-821.	7.5	50
32	Purification of Mitochondria by Sucrose Step Density Gradient Centrifugation. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot080028.	0.3	43
33	LRP130 Protein Remodels Mitochondria and Stimulates Fatty Acid Oxidation. Journal of Biological Chemistry, 2011, 286, 41253-41264.	3.4	42
34	A Mitochondrial Perspective of Chronic Obstructive Pulmonary Disease Pathogenesis. Tuberculosis and Respiratory Diseases, 2016, 79, 207.	1.8	41
35	Mitochondrial Ribosomal Protein L12 Is Required for POLRMT Stability and Exists as Two Forms Generated by Alternative Proteolysis during Import. Journal of Biological Chemistry, 2016, 291, 989-997.	3.4	40
36	Pink1/Parkin link inflammation, mitochondrial stress, and neurodegeneration. Journal of Cell Biology, 2018, 217, 3327-3329.	5.2	40

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37	Cell Cycle- and Ribonucleotide Reductase-Driven Changes in mtDNA Copy Number Influence mtDNA Inheritance Without Compromising Mitochondrial Gene Expression. Cell Cycle, 2007, 6, 2048-2057.	2.6	35
38	Isolation of Mitochondria from Cells and Tissues. Cold Spring Harbor Protocols, 2014, 2014, pdb.top074542.	0.3	34
39	ER-lysosome lipid transfer protein VPS13C/PARK23 prevents aberrant mtDNA-dependent STING signaling. Journal of Cell Biology, 2022, 221, .	5.2	34
40	Actin chromobody imaging reveals sub-organellar actin dynamics. Nature Methods, 2020, 17, 917-921.	19.0	33
41	Multi-focal control of mitochondrial gene expression by oncogenic MYC provides potential therapeutic targets in cancer. Oncotarget, 2016, 7, 72395-72414.	1.8	30
42	Expression of the rDNA-encoded mitochondrial protein Tar1p is stringently controlled and responds differentially to mitochondrial respiratory demand and dysfunction. Current Genetics, 2008, 54, 83-94.	1.7	27
43	Nutritional Interventions for Mitochondrial OXPHOS Deficiencies: Mechanisms and Model Systems. Annual Review of Pathology: Mechanisms of Disease, 2018, 13, 163-191.	22.4	22
44	A Mitochondrial-Derived Peptide Exercises the Nuclear Option. Cell Metabolism, 2018, 28, 330-331.	16.2	20
45	Impaired Mitochondrial Mobility in Charcot-Marie-Tooth Disease. Frontiers in Cell and Developmental Biology, 2021, 9, 624823.	3.7	20
46	Crosstalk between mitochondrial stress signals regulates yeast chronological lifespan. Mechanisms of Ageing and Development, 2014, 135, 41-49.	4.6	17
47	microManaging Mitochondrial Translation. Cell, 2014, 158, 477-478.	28.9	15
48	Auditory Pathology in a Transgenic mtTFB1 Mouse Model of Mitochondrial Deafness. American Journal of Pathology, 2015, 185, 3132-3140.	3.8	15
49	Aging: Itâ€™s SIRTainly Possible to Restore Mitochondrial Dysfunction. Current Biology, 2014, 24, R206-R208.	3.9	13
50	Insights into epithelial cell senescence from transcriptome and secretome analysis of human oral keratinocytes. Aging, 2021, 13, 4747-4777.	3.1	13
51	Isolation of Mitochondria from Animal Tissue. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot080010-pdb.prot080010.	0.3	11
52	Diagnostic Assays for Defects in mtDNA Replication and Transcription in Yeast and Humans. Methods in Cell Biology, 2007, 80, 465-479.	1.1	5
53	Mitochondria provide a 'complex' solution to a bacterial problem. Nature Immunology, 2016, 17, 1009-1010.	14.5	4
54	RNA reports breaking news from mitochondria. Molecular Cell, 2021, 81, 1863-1865.	9.7	3

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55	The San Diego Nathan Shock Center: tackling the heterogeneity of aging. GeroScience, 2021, 43, 2139-2148.	4.6	2
56	Regulation of mtDNA Copy Number by the ATM/ATR Signaling Pathway. FASEB Journal, 2006, 20, A510.	0.5	1
57	Abstract A05: The mitochondrial RNA polymerase is an essential downstream effector of the MYC oncoprotein. , 2015, , .		0