Giovanni Manfredi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7507364/publications.pdf

Version: 2024-02-01

84 papers	5,038 citations	94381 37 h-index	98753 67 g-index
88 all docs	88 docs citations	88 times ranked	8521 citing authors

#	Article	IF	Citations
1	Cyclic AMP Produced inside Mitochondria Regulates Oxidative Phosphorylation. Cell Metabolism, 2009, 9, 265-276.	7.2	422
2	Proteolytic Cleavage of Opa1 Stimulates Mitochondrial Inner Membrane Fusion and Couples Fusion to Oxidative Phosphorylation. Cell Metabolism, 2014, 19, 630-641.	7.2	362
3	IRE1Î±â€“XBP1 controls T cell function in ovarian cancer by regulating mitochondrial activity. Nature, 2018, 562, 423-428.	13.7	252
4	Mitochondrial iron chelation ameliorates cigarette smokeâ€“induced bronchitis and emphysema in mice. Nature Medicine, 2016, 22, 163-174.	15.2	206
5	Measurements of ATP in mammalian cells. Methods, 2002, 26, 317-326.	1.9	205
6	Mitochondrial dysfunction and its role in motor neuron degeneration in ALS. Mitochondrion, 2005, 5, 77-87.	1.6	196
7	Advances in Functional Solution Processed Planar 1D Photonic Crystals. Advanced Optical Materials, 2018, 6, 1800730.	3.6	145
8	Rewiring of Glutamine Metabolism Is a Bioenergetic Adaptation of Human Cells with Mitochondrial DNA Mutations. Cell Metabolism, 2018, 27, 1007-1025.e5.	7.2	135
9	cAMP and Mitochondria. Physiology, 2013, 28, 199-209.	1.6	129
10	Subretinally injected semiconducting polymer nanoparticles rescue vision in a rat model of retinal dystrophy. Nature Nanotechnology, 2020, 15, 698-708.	15.6	129
11	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	5.0	120
12	ALS-FTLD-linked mutations of SQSTM1/p62 disrupt selective autophagy and NFE2L2/NRF2 anti-oxidative stress pathway. Autophagy, 2020, 16, 917-931.	4.3	118
13	A Phosphodiesterase 2A Isoform Localized to Mitochondria Regulates Respiration. Journal of Biological Chemistry, 2011, 286, 30423-30432.	1.6	115
14	Tau interactome maps synaptic and mitochondrial processes associated with neurodegeneration. Cell, 2022, 185, 712-728.e14.	13.5	114
15	ROS-Triggered Phosphorylation of Complex II by Fgr Kinase Regulates Cellular Adaptation to Fuel Use. Cell Metabolism, 2014, 19, 1020-1033.	7.2	101
16	Polymer Distributed Bragg Reflectors for Vapor Sensing. ACS Photonics, 2015, 2, 537-543.	3.2	100
17	Lipid Deprivation Induces a Stable, Naive-to-Primed Intermediate State of Pluripotency in Human PSCs. Cell Stem Cell, 2019, 25, 120-136.e10.	5.2	98
18	Assay of Mitochondrial ATP Synthesis in Animal Cells and Tissues. Methods in Cell Biology, 2007, 80, 155-171.	0.5	97

#	Article	IF	Citations
19	Modulation of mitochondrial protein phosphorylation by soluble adenylyl cyclase ameliorates cytochrome oxidase defects. EMBO Molecular Medicine, 2009, 1, 392-406.	3.3	97
20	Energy deficit in parvalbumin neurons leads to circuit dysfunction, impaired sensory gating and social disability. Neurobiology of Disease, 2016, 93, 35-46.	2.1	87
21	Discovery of LRE1 as a specific and allosteric inhibitor of soluble adenylyl cyclase. Nature Chemical Biology, 2016, 12, 838-844.	3.9	74
22	Mitochondria and endoplasmic reticulum crosstalk in amyotrophic lateral sclerosis. Neurobiology of Disease, 2016, 90, 35-42.	2.1	73
23	ALS/FTD mutant CHCHD10 mice reveal a tissue-specific toxic gain-of-function and mitochondrial stress response. Acta Neuropathologica, 2019, 138, 103-121.	3.9	71
24	Exploring new pathways of neurodegeneration in ALS: The role of mitochondria quality control. Brain Research, 2015, 1607, 36-46.	1.1	64
25	Sex specific activation of the ERÎ± axis of the mitochondrial UPR (UPRmt) in the G93A-SOD1 mouse model of familial ALS. Human Molecular Genetics, 2017, 26, 1318-1327.	1.4	62
26	Critical Role of Flavin and Glutathione in Complex Iâ€“Mediated Bioenergetic Failure in Brain Ischemia/Reperfusion Injury. Stroke, 2018, 49, 1223-1231.	1.0	61
27	Proteinopathies and OXPHOS dysfunction in neurodegenerative diseases. Journal of Cell Biology, 2017, 216, 3917-3929.	2.3	59
28	Parkin is a disease modifier in the mutant <scp>SOD</scp> 1 mouse model of <scp>ALS</scp>. EMBO Molecular Medicine, 2018, 10, .	3.3	58
29	Allâ€Polymer Photonic Microcavities Doped with Perylene Bisimide Jâ€Aggregates. Advanced Optical Materials, 2017, 5, 1700523.	3.6	51
30	Role of soluble adenylyl cyclase in mitochondria. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 2555-2560.	1.8	50
31	Fibroblast bioenergetics to classify amyotrophic lateral sclerosis patients. Molecular Neurodegeneration, 2017, 12, 76.	4.4	49
32	Redox-Dependent Loss of Flavin by Mitochondrial Complex I in Brain Ischemia/Reperfusion Injury. Antioxidants and Redox Signaling, 2019, 31, 608-622.	2.5	48
33	Differential susceptibility of mitochondrial complex II to inhibition by oxaloacetate in brain and heart. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1561-1568.	0.5	47
34	Carbon Nitride Thin Films as All-In-One Technology for Photocatalysis. ACS Catalysis, 2021, 11, 11109-11116.	5.5	47
35	Directional Fluorescence Spectral Narrowing in All-Polymer Microcavities Doped with CdSe/CdS Dot-in-Rod Nanocrystals. ACS Photonics, 2017, 4, 1761-1769.	3.2	42
36	High refractive index hyperbranched polyvinylsulfides for planar oneâ€dimensional allâ€polymer photonic crystals. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 73-80.	2.4	41

#	Article	IF	Citations
37	Prohibitin levels regulate OMA1 activity and turnover in neurons. Cell Death and Differentiation, 2020, 27, 1896-1906.	5.0	41
38	BCL-2 Improves Oxidative Phosphorylation and Modulates Adenine Nucleotide Translocation in Mitochondria of Cells Harboring Mutant mtDNA. Journal of Biological Chemistry, 2003, 278, 5639-5645.	1.6	40
39	Cellulose ternary photonic crystal created by solution processing. Cellulose, 2016, 23, 2853-2862.	2.4	37
40	Mutant TDP-43 does not impair mitochondrial bioenergetics in vitro and in vivo. Molecular Neurodegeneration, 2017, 12, 37.	4.4	37
41	Estrogen receptor beta modulates permeability transition in brain mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 423-433.	0.5	37
42	Floryâ€“Huggins Photonic Sensors for the Optical Assessment of Molecular Diffusion Coefficients in Polymers. ACS Applied Materials & Interfaces, 2019, 11, 16872-16880.	4.0	36
43	A mitochondrial CO₂â€adenylyl cyclaseâ€cAMP signalosome controls yeast normoxic cytochromecoxidase activity. FASEB Journal, 2014, 28, 4369-4380.	0.2	35
44	Alterations in voltage-sensing of the mitochondrial permeability transition pore in ANT1-deficient cells. Scientific Reports, 2016, 6, 26700.	1.6	33
45	Prohibitin is a positive modulator of mitochondrial function in <scp>PC</scp>12 cells under oxidative stress. Journal of Neurochemistry, 2018, 146, 235-250.	2.1	31
46	Colorimetric Detection of Perfluorinated Compounds by All-Polymer Photonic Transducers. ACS Omega, 2018, 3, 7517-7522.	1.6	31
47	A hybrid P3HT-Graphene interface for efficient photostimulation of neurons. Carbon, 2020, 162, 308-317.	5.4	31
48	Hybrid ZnO:polystyrene nanocomposite for allâ€polymer photonic crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 158-162.	0.8	30
49	Mitochondrial Transport and Turnover in the Pathogenesis of Amyotrophic Lateral Sclerosis. Biology, 2019, 8, 36.	1.3	30
50	All-polymer methylammonium lead iodide perovskite microcavities. Nanoscale, 2019, 11, 8978-8983.	2.8	30
51	Distinct intracellular sAC-cAMP domains regulate ER calcium signaling and OXPHOS function. Journal of Cell Science, 2017, 130, 3713-3727.	1.2	28
52	Lasing from dot-in-rod nanocrystals in planar polymer microcavities. RSC Advances, 2018, 8, 13026-13033.	1.7	28
53	The dependence of brain mitochondria reactive oxygen species production on oxygen level is linear, except when inhibited by antimycin A. Journal of Neurochemistry, 2019, 148, 731-745.	2.1	27
54	Modulation of the IGF1R-MTOR pathway attenuates motor neuron toxicity of human ALS SOD1^{G93A} astrocytes. Autophagy, 2021, 17, 4029-4042.	4.3	26

#	Article	IF	Citations
55	Proteasome mapping reveals sexual dimorphism in tissueâ€specific sensitivity to protein aggregations. EMBO Reports, 2020, 21, e48978.	2.0	26
56	The Mitochondrial Unfolded Protein Response as a Non-Oncogene Addiction to Support Adaptation to Stress during Transformation in Cancer and Beyond. Frontiers in Oncology, 2017, 7, 159.	1.3	24
57	Deactivation of mitochondrial complex I after hypoxiaâ€“ischemia in the immature brain. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 1790-1802.	2.4	24
58	Nutritional Interventions for Mitochondrial OXPHOS Deficiencies: Mechanisms and Model Systems. Annual Review of Pathology: Mechanisms of Disease, 2018, 13, 163-191.	9.6	22
59	Sex Differences in Ischemia/Reperfusion Injury: The Role of Mitochondrial Permeability Transition. Neurochemical Research, 2019, 44, 2336-2345.	1.6	22
60	Nrf2 signaling links ER oxidative protein folding and calcium homeostasis in health and disease. Life Science Alliance, 2019, 2, e201900563.	1.3	21
61	In-plane anisotropic photoresponse in all-polymer planar microcavities. Polymer, 2016, 84, 383-390.	1.8	16
62	Photochemistry of Organic Retinal Prostheses. Annual Review of Physical Chemistry, 2019, 70, 99-121.	4.8	16
63	Distributed Bragg reflectors for the colorimetric detection of bacterial contaminants and pollutants for food quality control. APL Photonics, 2020, 5, 080901.	3.0	16
64	Enantiopure polythiophene nanoparticles. Chirality dependence of cellular uptake, intracellular distribution and antimicrobial activity. RSC Advances, 2019, 9, 23036-23044.	1.7	15
65	Prohibitin S-Nitrosylation Is Required for the Neuroprotective Effect of Nitric Oxide in Neuronal Cultures. Journal of Neuroscience, 2020, 40, 3142-3151.	1.7	14
66	Neuronal expression of the mitochondrial protein prohibitin confers profound neuroprotection in a mouse model of focal cerebral ischemia. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1010-1020.	2.4	13
67	Accelerated transsulfuration metabolically defines a discrete subclass of amyotrophic lateral sclerosis patients. Neurobiology of Disease, 2020, 144, 105025.	2.1	12
68	Mutant CHCHD10 causes an extensive metabolic rewiring that precedes OXPHOS dysfunction in a murine model of mitochondrial cardiomyopathy. Cell Reports, 2022, 38, 110475.	2.9	11
69	Biocompatibility of a Conjugated Polymer Retinal Prosthesis in the Domestic Pig. Frontiers in Bioengineering and Biotechnology, 2020, 8, 579141.	2.0	10
70	The physics of plasma membrane photostimulation. APL Materials, 2021, 9, 030901.	2.2	10
71	Photoelectrochemistry and Driftâ€“Diffusion Simulations in a Polythiophene Film Interfaced with an Electrolyte. ACS Applied Materials & Interfaces, 2021, 13, 36595-36604.	4.0	9
72	Spin-Coated Polymer and Hybrid Multilayers and Microcavities. , 2015, , 77-101.		7

#	Article	IF	Citations
73	Distal denervation in the SOD1 knockout mouse correlates with loss of mitochondria at the motor nerve terminal. Experimental Neurology, 2019, 318, 251-257.	2.0	7
74	Sterilization of Semiconductive Nanomaterials: The Case of Waterâ€Suspended Polyâ€3â€Hexylthiophene Nanoparticles. Advanced Healthcare Materials, 2021, 10, e2001306.	3.9	5
75	Raloxifene is a Female-specific Proteostasis Therapeutic in the Spinal Cord. Endocrinology, 2021, 162, .	1.4	5
76	Mouse midbrain dopaminergic neurons survive loss of the PD-associated mitochondrial protein CHCHD2. Human Molecular Genetics, 2021, , .	1.4	5
77	Gene expression profiles in sporadic ALS fibroblasts define disease subtypes and the metabolic effects of the investigational drug EH301. Human Molecular Genetics, 2022, 31, 3458-3477.	1.4	5
78	Doxycycline promotes proteasome fitness in the central nervous system. Scientific Reports, 2021, 11, 17003.	1.6	4
79	Better understanding the neurobiology of primary lateral sclerosis. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2020, 21, 35-46.	1.1	3
80	Bcl-2 Suppresses Oxidative Phosphorylation Defects Caused by Mitochondrial DNA Mutations. Scientific World Journal, The, 2001, 1, 39-39.	0.8	2
81	Directional fluorescence shaping and lasing in all-polymer microcavities doped with CdSe/CdS dot-in-rod nanocrystals. , 2017, , .		1
82	Modulation of neuronal firing: what role can nanotechnology play?. Nanomedicine, 2020, 15, 2895-2900.	1.7	0
83	Reshaping Hybrid Perovskites Emission with Flexible Polymer Microcavities. EPJ Web of Conferences, 2020, 230, 00006.	0.1	0
84	S1P controls endothelial sphingolipid homeostasis via ORMDL. FASEB Journal, 2022, 36, .	0.2	0