Christos D Georgiou

List of Publications by Citations

124 papers	3,629 citations	36 h-index	54 g-index
128 ext. papers	4,015 ext. citations	4 avg, IF	5.22 L-index

#	Paper	IF	Citations
124	Insight into the active-site structure and function of cytochrome oxidase by analysis of site-directed mutants of bacterial cytochrome aa3 and cytochrome bo. *Journal of Bioenergetics and Biomembranes*, **1993**, 25, 121-36	3.7	256
123	Sclerotial metamorphosis in filamentous fungi is induced by oxidative stress. *Integrative and Comparative Biology*, **2006**, 46, 691-712	2.8	148
122	Thiol redox state (TRS) and oxidative stress in the mouse hippocampus after pentylenetetrazol-induced epileptic seizure. *Neuroscience Letters*, **2004**, 357, 83-6	3.3	137
121	Mechanism of Coomassie brilliant blue G-250 binding to proteins: a hydrophobic assay for nanogram quantities of proteins. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 391-403	4.4	127
120	Polar residues in helix VIII of subunit I of cytochrome c oxidase influence the activity and the structure of the active site. *Biochemistry*, **1996**, 35, 10776-83	3.2	89
119	Lipid peroxidation in Sclerotium rolfsii: a new look into the mechanism of sclerotial biogenesis in fungi. *Mycological Research*, **1997**, 101, 460-464		81
118	What is metamorphosis?. *Integrative and Comparative Biology*, **2006**, 46, 655-61	2.8	79
117	Role of oxidative stress in Sclerotial differentiation and aflatoxin B1 biosynthesis in Aspergillus flavus. *Applied and Environmental Microbiology*, **2014**, 80, 5561-71	4.8	78
116	Modified, large-scale purification of the cytochrome o complex (bo-type oxidase) of Escherichia coli yields a two heme/one copper terminal oxidase with high specific activity. *Biochemistry*, **1992**, 31, 6917-24	3.2	72
115	An accurate and sensitive Coomassie Brilliant Blue G-250-based assay for protein determination. *Analytical Biochemistry*, **2015**, 480, 28-30	3.1	69
114	Identification of the cydC locus required for expression of the functional form of the cytochrome d terminal oxidase complex in Escherichia coli. *Journal of Bacteriology*, **1987**, 169, 2107-12	3.5	68
113	Lipids as universal biomarkers of extraterrestrial life. *Astrobiology*, **2014**, 14, 541-9	3.7	65
112	Determination of the thiol redox state of organisms: new oxidative stress indicators. *Analytical and Bioanalytical Chemistry*, **2004**, 378, 1783-92	4.4	65
111	Evidence for photochemical production of reactive oxygen species in desert soils. *Nature Communications*, **2015**, 6, 7100	17.4	61
110	Methionine-393 is an axial ligand of the heme b558 component of the cytochrome bd ubiquinol oxidase from Escherichia coli. *Biochemistry*, **1995**, 34, 13491-501	3.2	61
109	An ultrasensitive fluorescent assay for the in vivo quantification of superoxide radical in organisms. *Analytical Biochemistry*, **2005**, 347, 144-51	3.1	60
108	Evidence for oxidative stress in lens epithelial cells in pseudoexfoliation syndrome. *Eye*, **2007**, 21, 1406-14	4.4	59

107	Translational responses of Mytilus galloprovincialis to environmental pollution: integrating the responses to oxidative stress and other biomarker responses into a general stress index. *Aquatic Toxicology*, **2008**, 89, 18-27	5.1	58
106	Evidence for intestinal oxidative stress in obstructive jaundice-induced gut barrier dysfunction in rats. *Acta Physiologica Scandinavica*, **2004**, 180, 177-85		58
105	Hydrothermal Conditions and the Origin of Cellular Life. *Astrobiology*, **2015**, 15, 1091-5	3.7	54
104	Bombesin and neurotensin reduce endotoxemia, intestinal oxidative stress, and apoptosis in experimental obstructive jaundice. *Annals of Surgery*, **2005**, 241, 159-67	7.8	52
103	The fluorescence detection of superoxide radical using hydroethidine could be complicated by the presence of heme proteins. *Analytical Biochemistry*, **2004**, 332, 290-8	3.1	47
102	Hydroxyl radical scavengers inhibit sclerotial differentiation and growth in Sclerotinia sclerotiorum and Rhizoctonia solani. *Mycological Research*, **2000**, 104, 1191-1196		44
101	beta-Carotene production and its role in sclerotial differentiation of Sclerotium rolfsii. *Fungal Genetics and Biology*, **2001**, 34, 11-20	3.9	44
100	Regulation of expression of the cytochrome d terminal oxidase in Escherichia coli is transcriptional. *Journal of Bacteriology*, **1988**, 170, 961-6	3.5	43
99	Superoxide radical detection in cells, tissues, organisms (animals, plants, insects, microorganisms) and soils. *Nature Protocols*, **2008**, 3, 1679-92	18.8	42
98	Glutathione and lipid peroxide changes in pseudoexfoliation syndrome. *Current Eye Research*, **2005**, 30, 647-51	2.9	42
97	Evidence for intestinal oxidative stress in patients with obstructive jaundice. *European Journal of Clinical Investigation*, **2006**, 36, 181-7	4.6	42
96	Effect of pentylenetetrazol-induced epileptic seizure on thiol redox state in the mouse cerebral cortex. *Epilepsy Research*, **2004**, 62, 65-74	3	42
95	Method for the simultaneous determination of free/protein malondialdehyde and lipid/protein hydroperoxides. *Free Radical Biology and Medicine*, **2013**, 59, 27-35	7.8	41
94	Interference of non-specific peroxidases in the fluorescence detection of superoxide radical by hydroethidine oxidation: a new assay for H2O2. *Analytical and Bioanalytical Chemistry*, **2005**, 381, 1065-72	4.4	41
93	Assay for the quantification of intact/fragmented genomic DNA. *Analytical Biochemistry*, **2006**, 358, 247-56	3.1	39
92	Translational responses and oxidative stress of mussels experimentally exposed to Hg, Cu and Cd: one pattern does not fit at all. *Aquatic Toxicology*, **2011**, 105, 157-65	5.1	37
91	Experimental obstructive jaundice disrupts intestinal mucosal barrier by altering occludin expression: beneficial effect of bombesin and neurotensin. *Journal of the American College of Surgeons*, **2004**, 198, 748-57	4.4	37
90	Superoxide radical formation in diverse organs of rats with experimentally induced obstructive jaundice. *Redox Report*, **2008**, 13, 179-84	5.9	36

89	Hydroxyl radical scavengers inhibit lateral-type sclerotial differentiation and growth in phytopathogenic fungi. *Mycologia*, **2000**, 92, 825-834	2.4	36
88	Effect of N-acetylcysteine, allopurinol and vitamin E on jaundice-induced brain oxidative stress in rats. *Brain Research*, **2006**, 1111, 203-12	3.7	35
87	Thiol redox state and lipid and protein oxidation in the mouse striatum after pentylenetetrazol-induced epileptic seizure. *Epilepsia*, **2005**, 46, 1205-11	6.4	34
86	Hydroxyl Radical Scavengers Inhibit Lateral-Type Sclerotial Differentiation and Growth in Phytopathogenic Fungi. *Mycologia*, **2000**, 92, 825	2.4	34
85	Effect of the antioxidant ascorbic acid on sclerotial differentiation in Rhizoctonia solani. *Plant Pathology*, **2001**, 50, 594-600	2.8	32
84	Production of □carotene by Sclerotinia sclerotiorum and its role in sclerotium differentiation. *Mycological Research*, **2001**, 105, 1110-1115		31
83	Ascorbic acid might play a role in the sclerotial differentiation of Sclerotium rolfsii. *Mycologia*, **2003**, 95, 308-316	2.4	30
82	Total thiol redox status as a potent biomarker of PAH-mediated effects on mussels. *Marine Environmental Research*, **2012**, 81, 26-34	3.3	29
81	Oxidative state in intestine and liver after partial hepatectomy in rats. Effect of bombesin and neurotensin. *Clinical Biochemistry*, **2004**, 37, 350-6	3.5	29
80	Fluorometric determination of thiol redox state. *Analytical and Bioanalytical Chemistry*, **2005**, 383, 923-9	4.4	29
79	Purification and partial characterization of the membrane-bound cytochrome o(561,564) from Vitreoscilla. *Biochemistry*, **1987**, 26, 6521-6	3.2	29
78	Gut regulatory peptides bombesin and neurotensin reduce hepatic oxidative stress and histological alterations in bile duct ligated rats. *Regulatory Peptides*, **2004**, 120, 185-93		27
77	Beta-galactosidase gene fusions as probes for the cytoplasmic regions of subunits I and II of the membrane-bound cytochrome d terminal oxidase from Escherichia coli.. *Journal of Biological Chemistry*, **1988**, 263, 13130-13137	5.4	27
76	Protocol for the quantitative assessment of DNA concentration and damage (fragmentation and nicks). *Nature Protocols*, **2009**, 4, 125-31	18.8	26
75	Dysfunctions of the translational machinery in digestive glands of mussels exposed to mercury ions. *Aquatic Toxicology*, **2013**, 134-135, 23-33	5.1	25
74	Superoxide radical induces sclerotial differentiation in filamentous phytopathogenic fungi: a superoxide dismutase mimetics study. *Microbiology (United Kingdom)*, **2010**, 156, 960-966	2.9	25
73	Beneficial effect of the oxygen free radical scavenger amifostine (WR-2721) on spinal cord ischemia/reperfusion injury in rabbits. *Journal of Cardiothoracic Surgery*, **2009**, 4, 50	1.6	25
72	Brain oxidative stress induced by obstructive jaundice in rats. *Journal of Neuropathology and Experimental Neurology*, **2006**, 65, 193-8	3.1	24

71	Hydrogen peroxide is involved in the sclerotial differentiation of filamentous phytopathogenic fungi. *Journal of Applied Microbiology*, **2010**, 109, 1929-36	4.7	23
70	Superoxide radical is involved in the sclerotial differentiation of filamentous phytopathogenic fungi: identification of a fungal xanthine oxidase. *Fungal Biology*, **2010**, 114, 387-95	2.8	23
69	Beta-galactosidase gene fusions as probes for the cytoplasmic regions of subunits I and II of the membrane-bound cytochrome d terminal oxidase from Escherichia coli. *Journal of Biological Chemistry*, **1988**, 263, 13130-7	5.4	23
68	Relationships between membrane-bound cytochrome o from Vitreoscilla and that of Escherichia coli. *Biochimica Et Biophysica Acta - Bioenergetics*, **1988**, 933, 179-83	4.6	22
67	Role of erythroascorbate and ascorbate in sclerotial differentiation in Sclerotinia sclerotiorum. *Mycological Research*, **2001**, 105, 1364-1370		21
66	Intestinal mucosal proliferation, apoptosis and oxidative stress in patients with liver cirrhosis. *Annals of Hepatology*, **2013**, 12, 301-307	3.1	20
65	Indoor radon levels in primary schools of Patras, Greece. *Radiation Protection Dosimetry*, **2007**, 124, 172-6	0.9	20
64	Effect of glutathione biosynthesis-related modulators on the thiol redox state enzymes and on sclerotial differentiation of filamentous phytopathogenic fungi. *Mycopathologia*, **2007**, 163, 335-47	2.9	20
63	Differentiation and hydrogen peroxide production in Sclerotium rolfsii are induced by the oxidizing growth factors, light and iron. *Mycologia*, **2000**, 92, 1033-1042	2.4	20
62	Altered occludin expression in brain capillaries induced by obstructive jaundice in rats. *Brain Research*, **2010**, 1325, 121-7	3.7	19
61	Ascorbic Acid Might Play a Role in the Sclerotial Differentiation of Sclerotium rolfsii. *Mycologia*, **2003**, 95, 308	2.4	19
60	The role of ascorbic acid role in the differentiation of sclerotia in Sclerotinia minor. *Mycopathologia*, **2002**, 154, 71-7	2.9	19
59	Cadmium versus copper toxicity: insights from an integrated dissection of protein synthesis pathway in the digestive glands of mussel Mytilus galloprovincialis. *Journal of Hazardous Materials*, **2013**, 260, 263-71	12.8	18
58	Beta-carotene production and sclerotial differentiation in Sclerotinia minor. *Mycological Research*, **2003**, 107, 624-31		18
57	Intestinal mucosal proliferation, apoptosis and oxidative stress in patients with liver cirrhosis. *Annals of Hepatology*, **2013**, 12, 301-7	3.1	18
56	Cell proliferating and differentiating role of H2O2 in Sclerotium rolfsii and Sclerotinia sclerotiorum. *Microbiological Research*, **2014**, 169, 527-32	5.3	17
55	Effect of antioxidant treatments on the gut-liver axis oxidative status and function in bile duct-ligated rats. *World Journal of Surgery*, **2007**, 31, 2023-32	3.3	17
54	Thiol redox state and oxidative stress in midbrain and striatum of weaver mutant mice, a genetic model of nigrostriatal dopamine deficiency. *Neuroscience Letters*, **2005**, 376, 24-8	3.3	17

53	Differentiation and Hydrogen Peroxide Production in Sclerotium rolfsii Are Induced by the Oxidizing Growth Factors, Light and Iron. *Mycologia*, **2000**, 92, 1033	2.4	17
52	Thiol redox state and oxidative stress affect sclerotial differentiation of the phytopathogenic fungi Sclerotium rolfsii and Sclerotinia sclerotiorum. *Journal of Applied Microbiology*, **2008**, 104, 42-50	4.7	16
51	Effect of thiol redox state modulators on oxidative stress and sclerotial differentiation of the phytopathogenic fungus Rhizoctonia solani. *Archives of Microbiology*, **2007**, 188, 225-33	3	16
50	Assay for the quantification of small-sized fragmented genomic DNA. *Analytical Biochemistry*, **2005**, 339, 223-30	3.1	16
49	Effect of bombesin and neurotensin on gut barrier function in partially hepatectomized rats. *World Journal of Gastroenterology*, **2005**, 11, 6757-64	5.6	16
48	Time-related alterations of superoxide radical levels in diverse organs of bile duct-ligated rats. *Free Radical Research*, **2009**, 43, 803-8	4	15
47	In Quest for Improved Drugs against Diabetes: The Added Value of X-ray Powder Diffraction Methods. *Biomolecules*, **2017**, 7,	5.9	14
46	Thiol redox state and related enzymes in sclerotium-forming filamentous phytopathogenic fungi. *Mycological Research*, **2008**, 112, 602-10		13
45	Identification of b, c, and d cytochromes in the membrane of Vitreoscilla. *Archives of Microbiology*, **1987**, 148, 328-33	3	13
44	Functional Properties of Amino Acid Side Chains as Biomarkers of Extraterrestrial Life. *Astrobiology*, **2018**, 18, 1479-1496	3.7	13
43	Ascorbic acid might play a role in the sclerotial differentiation of Sclerotium rolfsii. *Mycologia*, **2003**, 95, 308-16	2.4	13
42	BNN-20, a synthetic microneurotrophin, strongly protects dopaminergic neurons in the "weaver" mouse, a genetic model of dopamine-denervation, acting through the TrkB neurotrophin receptor. *Neuropharmacology*, **2017**, 121, 140-157	5.5	12
41	Effect of sulfite, hydrosulfite and nitrite on thiol redox state, oxidative stress and sclerotial differentiation of filamentous phytopathogenic fungi. *Pesticide Biochemistry and Physiology*, **2007**, 88, 226-235	4.9	12
40	Quantification of superoxide radical in the brain of rats with experimentally induced obstructive jaundice. *Neurochemical Research*, **2008**, 33, 1101-5	4.6	12
39	Translational fidelity mutations in 18S rRNA affect the catalytic activity of ribosomes and the oxidative balance of yeast cells. *Biochemistry*, **2006**, 45, 3525-33	3.2	12
38	Differentiation of Sclerotinia minor depends on thiol redox state and oxidative stress. *Canadian Journal of Microbiology*, **2008**, 54, 28-36	3.2	11
37	Protein and cell wall polysaccharide carbonyl determination by a neutral pH 2,4-dinitrophenylhydrazine-based photometric assay. *Redox Biology*, **2018**, 17, 128-142	11.3	10
36	Radiation-Driven Formation of Reactive Oxygen Species in Oxychlorine-Containing Mars Surface Analogues. *Astrobiology*, **2017**, 17, 319-336	3.7	9

35	Multiparametric protocol for the determination of thiol redox state in living matter. *Free Radical Biology and Medicine*, **2014**, 74, 85-98	7.8	9
34	Differences in Cold Inactivation of Phosphoenolpyruvate Carboxylase among C4 Species: The Effect of pH and of Enzyme Concentration. *Photosynthetica*, **1998**, 35, 169-175	2.2	9
33	Plasma superoxide radical in jaundiced patients and role of xanthine oxidase. *American Journal of the Medical Sciences*, **2008**, 336, 230-6	2.2	9
32	17Estradiol/N-acetylcysteine interaction enhances the neuroprotective effect on dopaminergic neurons in the weaver model of dopamine deficiency. *Neuroscience*, **2016**, 320, 221-9	3.9	9
31	Trehalose, an extreme temperature protector of phosphoenolpyruvate carboxylase from the C4-plant Cynodon dactylon. *Phytochemistry*, **1997**, 46, 1331-1334	4	8
30	Susceptibility to peroxidation of the major mycelial lipids of Cunninghamella echinulata. *European Journal of Lipid Science and Technology*, **2008**, 110, 1062-1067	3	7
29	Colorimetric method for determining hydrogen peroxide production in liquid media by filamentous fungi. *Mycologia*, **2000**, 92, 835-840	2.4	7
28	Bombesin and neurotensin exert antiproliferative effects on oval cells and augment the regenerative response of the cholestatic rat liver. *Peptides*, **2010**, 31, 2294-303	3.8	6
27	Clonidine pre-treatment prevents hemorrhagic shock-induced endotoxemia and oxidative stress in the gut, liver, and lungs of the rat. *Redox Report*, **2012**, 17, 246-51	5.9	6
26	Superoxide radical assays and applications in Mars-like Atacama soils. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		6
25	Ischemia-Reperfusion Injury of Sciatic Nerve in Rats: Protective Role of Combination of Vitamin C with E and Tissue Plasminogen Activator. *Neurochemical Research*, **2018**, 43, 650-658	4.6	5
24	Protein carbonyl determination by a rhodamine B hydrazide-based fluorometric assay. *Redox Biology*, **2018**, 17, 236-245	11.3	5
23	Phosphate and Sulfate Activate the Phosphoenolpyruvate Carboxylase from the C4 Plant Cynodon dactylon L.. *Botanica Acta*, **1997**, 110, 309-313		5
22	Characterization of purified leaf cytosolic pyruvate kinase from the C4 plant Cynodon dactylon. *Physiologia Plantarum*, **1997**, 101, 563-569	4.6	5
21	Colorimetric Method for Determining Hydrogen Peroxide Production in Liquid Media by Filamentous Fungi. *Mycologia*, **2000**, 92, 835	2.4	5
20	Quantification of superoxide radical production in 4 vital organs of rats subjected to hemorrhagic shock. *American Journal of Emergency Medicine*, **2012**, 30, 476-80	2.9	4
19	Lipofuscins and sclerotial differentiation in phytopathogenic fungi. *Mycopathologia*, **2002**, 153, 203-8	2.9	4
18	Stimulation of oval cell and hepatocyte proliferation by exogenous bombesin and neurotensin in partially hepatectomized rats. *World Journal of Gastrointestinal Pathophysiology*, **2011**, 2, 146-54	3.2	4

17	Martian Superoxide and Peroxide O2 Release (OR) Assay: A New Technology for Terrestrial and Planetary Applications. *Astrobiology*, **2016**, 16, 126-42	3.7	3
16	Unconditional Communist Equality among Individuals: Beyond the Marxist Equality Limited to the Abolition of Classes. *Critique*, **2016**, 44, 129-160	0.5	2
15	DNA fragmentation induced by all-trans retinoic acid and its steroidal analogue EA-4 in C2 C12 mouse and HL-60 human leukemic cells in vitro. *Journal of Applied Toxicology*, **2014**, 34, 885-92	4.1	2
14	Metabolism of polyamines and oxidative stress in the brain of cholestatic rats. *Amino Acids*, **2010**, 38, 973-4	3.5	2
13	An apparatus (Georgiou-Petri dish) for growing fungi and other microorganisms on liquid media in a Petri dish. *Biotechnic and Histochemistry*, **1996**, 71, 295-7	1.8	2
12	Propranolol reduces systemic oxidative stress and endotoxemia in cirrhotic patients with esophageal varices. *Annals of Gastroenterology*, **2018**, 31, 224-230	2.2	2
11	The Role of Thiols on Sclerotial Differentiation of Filamentous Phytopathogenic Fungi. *The Open Mycology Journal*, **2008**, 2, 1-8		2
10	The molecular biology of the elites is replaced by an environmentally interactive biology of social equality. *Critique*, **2019**, 47, 89-121	0.5	2
9	Pyruvate Kinase Activity in Crude Extracts of Leaves of Cynodon dactylonand Other C4Plants. *Russian Journal of Plant Physiology*, **2001**, 48, 171-175	1.6	1
8	Age-related aqueous humor (AH) and lens epithelial cell/capsule protein carbonylation and AH protein concentration in cataract patients who have pseudoexfoliative diseases. *Molecular Vision*, **2018**, 24, 890-901	2.3	1
7	Oxidized lipid-associated protein damage in children and adolescents with type 1 diabetes mellitus: New diagnostic/prognostic clinical markers. *Pediatric Diabetes*, **2021**, 22, 1135-1142	3.6	1
6	Detection of superoxide radical in all biological systems by Thin Layer Chromatography.. *Archives of Biochemistry and Biophysics*, **2021**, 716, 109110	4.1	0
5	Protocols for the Quantification of dsDNA and Its Fragmentation Status in Fungi **2013**, 501-504		
4	Protocol for the In Vivo Quantification of Superoxide Radical in Fungi **2013**, 259-264		
3	Sulfate Ion Effect on Stability and Regulatory Properties of PEP Carboxylase from the C4Plant Cynodon dactylon. *Russian Journal of Plant Physiology*, **2001**, 48, 176-180	1.6	
2	Assays for the Quantification of Antioxidant Enzymes in Fungi. *Fungal Biology*, **2022**, 145-157	2.3	
1	Increased Plasma Superoxide Radical in Patients with Non-Metastatic Colorectal Cancer. *Gastroenterology Research*, **2008**, 1, 45-48	1.8	