

Fernando Antunes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4402938/publications.pdf>

Version: 2024-02-01

87
papers

6,175
citations

101543

36
h-index

66911

78
g-index

95
all docs

95
docs citations

95
times ranked

8407
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen peroxide sensing, signaling and regulation of transcription factors. <i>Redox Biology</i> , 2014, 2, 535-562.	9.0	688
2	Voltage-dependent Anion Channels Control the Release of the Superoxide Anion from Mitochondria to Cytosol. <i>Journal of Biological Chemistry</i> , 2003, 278, 5557-5563.	3.4	611
3	Estimation of H ₂ O ₂ gradients across biomembranes. <i>FEBS Letters</i> , 2000, 475, 121-126.	2.8	438
4	Lysosomal enzymes promote mitochondrial oxidant production, cytochrome c release and apoptosis. <i>FEBS Journal</i> , 2003, 270, 3778-3786.	0.2	249
5	Apoptosis induced by exposure to a low steady-state concentration of H ₂ O ₂ is a consequence of lysosomal rupture. <i>Biochemical Journal</i> , 2001, 356, 549-555.	3.7	246
6	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	9.0	242
7	Cellular titration of apoptosis with steady state concentrations of H ₂ O ₂ : submicromolar levels of H ₂ O ₂ induce apoptosis through fenton chemistry independent of the cellular thiol state. <i>Free Radical Biology and Medicine</i> , 2001, 30, 1008-1018.	2.9	217
8	Role of Hydrogen Peroxide in NF- κ B Activation: From Inducer to Modulator. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2223-2243.	5.4	208
9	Tools for kinetic modeling of biochemical networks. <i>Nature Biotechnology</i> , 2006, 24, 667-672.	17.5	180
10	The Roles of Peroxiredoxin and Thioredoxin in Hydrogen Peroxide Sensing and in Signal Transduction. <i>Molecules and Cells</i> , 2016, 39, 65-71.	2.6	174
11	Apoptosis induced by exposure to a low steady-state concentration of H ₂ O ₂ is a consequence of lysosomal rupture. <i>Biochemical Journal</i> , 2001, 356, 549.	3.7	170
12	On the mechanism and biology of cytochrome oxidase inhibition by nitric oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16774-16779.	7.1	169
13	Decrease of H ₂ O ₂ Plasma Membrane Permeability during Adaptation to H ₂ O ₂ in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 6501-6506.	3.4	139
14	Relative contributions of heart mitochondria glutathione peroxidase and catalase to H ₂ O ₂ detoxification in in vivo conditions. <i>Free Radical Biology and Medicine</i> , 2002, 33, 1260-1267.	2.9	136
15	Lipid peroxidation in mitochondrial inner membranes. I. An integrative kinetic model. <i>Free Radical Biology and Medicine</i> , 1996, 21, 917-943.	2.9	128
16	Quantitative biology of hydrogen peroxide signaling. <i>Redox Biology</i> , 2017, 13, 1-7.	9.0	116
17	A Quantitative Study of NF- κ B Activation by H ₂ O ₂ : Relevance in Inflammation and Synergy with TNF- α . <i>Journal of Immunology</i> , 2007, 178, 3893-3902.	0.8	114
18	On the antioxidant activity of melatonin. <i>Free Radical Biology and Medicine</i> , 1999, 26, 117-128.	2.9	110

#	ARTICLE	IF	CITATIONS
19	Decreased cellular permeability to H ₂ O ₂ protects <i>Saccharomyces cerevisiae</i> cells in stationary phase against oxidative stress. <i>FEBS Letters</i> , 2004, 578, 152-156.	2.8	101
20	Intracellular reactive oxygen species are essential for PI3K/Akt/mTOR-dependent IL-7-mediated viability of T-cell acute lymphoblastic leukemia cells. <i>Leukemia</i> , 2011, 25, 960-967.	7.2	101
21	Gel Domains in the Plasma Membrane of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 5043-5054.	3.4	94
22	Human Aquaporin-5 Facilitates Hydrogen Peroxide Permeation Affecting Adaption to Oxidative Stress and Cancer Cell Migration. <i>Cancers</i> , 2019, 11, 932.	3.7	69
23	H ₂ O ₂ induces rapid biophysical and permeability changes in the plasma membrane of <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1141-1147.	2.6	68
24	Measuring intracellular concentration of hydrogen peroxide with the use of genetically encoded H ₂ O ₂ biosensor HyPer. <i>Redox Biology</i> , 2019, 24, 101200.	9.0	64
25	PHGPx and phospholipase A ₂ /GPx: Comparative importance on the reduction of hydroperoxides in rat liver mitochondria. <i>Free Radical Biology and Medicine</i> , 1995, 19, 669-677.	2.9	63
26	Hydrogen peroxide metabolism and sensing in human erythrocytes: A validated kinetic model and reappraisal of the role of peroxiredoxin II. <i>Free Radical Biology and Medicine</i> , 2014, 74, 35-49.	2.9	62
27	Tuning Cellular Biological Functions Through the Controlled Release of NO from a Porous Ti-MOF. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5135-5143.	13.8	62
28	Analysis of the pathways of nitric oxide utilization in mitochondria. <i>Free Radical Research</i> , 2000, 33, 747-756.	3.3	60
29	On the Biologic Role of the Reaction of NO with Oxidized Cytochrome <i>c</i> Oxidase. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1569-1580.	5.4	56
30	Rat Aquaporin-5 Is pH-Gated Induced by Phosphorylation and Is Implicated in Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2016, 17, 2090.	4.1	56
31	Role of Glutathione Peroxidase and Phospholipid Hydroperoxide Glutathione Peroxidase in the Reduction of Lysophospholipid Hydroperoxides. <i>Free Radical Biology and Medicine</i> , 1997, 22, 871-883.	2.9	51
32	Activation of Nrf2 by H ₂ O ₂ . <i>Methods in Enzymology</i> , 2013, 528, 157-171.	1.0	50
33	Redox interactions of nitric oxide with dopamine and its derivatives. <i>Toxicology</i> , 2005, 208, 207-212.	4.2	49
34	Modulation of plasma membrane lipid profile and microdomains by H ₂ O ₂ in <i>Saccharomyces cerevisiae</i> . <i>Free Radical Biology and Medicine</i> , 2009, 46, 289-298.	2.9	49
35	Vitamin B3 metal-organic frameworks as potential delivery vehicles for therapeutic nitric oxide. <i>Acta Biomaterialia</i> , 2017, 51, 66-74.	8.3	46
36	Composting kinetics in full-scale mechanical biological treatment plants. <i>Waste Management</i> , 2010, 30, 1908-1921.	7.4	44

#	ARTICLE	IF	CITATIONS
37	Antioxidant Activity of Vitamin E Determined in a Phospholipid Membrane by Product Studies: Avoiding Chain Transfer Reactions by Vitamin E Radicals. <i>Journal of the American Chemical Society</i> , 1997, 119, 5764-5765.	13.7	35
38	H ₂ O ₂ Delivery to Cells. <i>Methods in Enzymology</i> , 2013, 526, 159-173.	1.0	35
39	Mitochondrial damage by nitric oxide is potentiated by dopamine in PC12 cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1556, 233-238.	1.0	34
40	Down-regulation of fatty acid synthase increases the resistance of <i>Saccharomyces cerevisiae</i> cells to H ₂ O ₂ . <i>Free Radical Biology and Medicine</i> , 2007, 43, 1458-1465.	2.9	28
41	Mitochondrial superoxide anion production and release into intermembrane space. <i>Methods in Enzymology</i> , 2002, 349, 271-280.	1.0	26
42	Modulation of NF- κ B-Dependent Gene Expression by H ₂ O ₂ : A Major Role for a Simple Chemical Process in a Complex Biological Response. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2043-2053.	5.4	26
43	The Cellular Steady-State of H ₂ O ₂ . <i>Methods in Enzymology</i> , 2013, 527, 3-19.	1.0	26
44	Emerging Nitric Oxide and Hydrogen Sulfide Releasing Carriers for Skin Wound Healing Therapy. <i>ChemMedChem</i> , 2022, 17, .	3.2	24
45	Sepiolite based materials for storage and slow release of nitric oxide. <i>New Journal of Chemistry</i> , 2013, 37, 4052.	2.8	23
46	Clay based materials for storage and therapeutic release of nitric oxide. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3287.	5.8	22
47	Redox Regulation of NF- κ B: From Basic to Clinical Research. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2055-2056.	5.4	21
48	Estimation of kinetic parameters related to biochemical interactions between hydrogen peroxide and signal transduction proteins. <i>Frontiers in Chemistry</i> , 2014, 2, 82.	3.6	21
49	Determination of the α -Tocopherol Inhibition Rate Constant for Peroxidation in Low-Density Lipoprotein. <i>Chemical Research in Toxicology</i> , 2002, 15, 870-876.	3.3	20
50	Using in vivo oxidation status of one- and two-component redox relays to determine H ₂ O ₂ levels linked to signaling and toxicity. <i>BMC Biology</i> , 2018, 16, 61.	3.8	20
51	Microporous titanosilicates Cu ²⁺ and Co ²⁺ ETS-4 for storage and slow release of therapeutic nitric oxide. <i>Journal of Materials Chemistry B</i> , 2014, 2, 224-230.	5.8	19
52	The efficiency of antioxidants delivered by liposomal transfer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1328, 1-12.	2.6	18
53	Glyceraldehyde-3-phosphate dehydrogenase is largely unresponsive to low regulatory levels of hydrogen peroxide in <i>Saccharomyces cerevisiae</i> . <i>BMC Biochemistry</i> , 2010, 11, 49.	4.4	18
54	The mechanism of cytochrome C oxidase inhibition by nitric oxide. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 975.	3.0	18

#	ARTICLE	IF	CITATIONS
55	Cellular polarity in aging: role of redox regulation and nutrition. <i>Genes and Nutrition</i> , 2014, 9, 371.	2.5	17
56	Kinetic Modelling of in Vitro Lipid Peroxidation Experiments - 'Low Level' Validation of a Model of in Vivo Lipid Peroxidation. <i>Free Radical Research</i> , 1995, 23, 151-172.	3.3	14
57	Storage and delivery of nitric oxide by microporous titanosilicate ETS-10 and Al and Ga substituted analogues. <i>Microporous and Mesoporous Materials</i> , 2016, 229, 83-89.	4.4	14
58	New generation of nitric oxide-releasing porous materials: Assessment of their potential to regulate biological functions. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 90, 29-36.	2.7	14
59	Diagnosis of enzyme inhibition based on the degree of inhibition. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1624, 11-20.	2.4	13
60	<sc>Histidine-based organoclays for the storage and release of therapeutic nitric oxide. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3556-3563.	5.8	13
61	A Comparison of Different Approaches to Quantify Nitric Oxide Release from NO-Releasing Materials in Relevant Biological Media. <i>Molecules</i> , 2020, 25, 2580.	3.8	13
62	Determination of propagation and termination rate constants by using an extension to the rotating-sector method: Application to PLPC and DLPC bilayers. <i>International Journal of Chemical Kinetics</i> , 1998, 30, 753-767.	1.6	12
63	A quantitative study of the cell-type specific modulation of c-Rel by hydrogen peroxide and TNF- α . <i>Redox Biology</i> , 2013, 1, 347-352.	9.0	12
64	Tuning Cellular Biological Functions Through the Controlled Release of NO from a Porous Ti-MOF. <i>Angewandte Chemie</i> , 2020, 132, 5173-5181.	2.0	12
65	Biphasic modulation of fatty acid synthase by hydrogen peroxide in <i>Saccharomyces cerevisiae</i> . <i>Archives of Biochemistry and Biophysics</i> , 2011, 515, 107-111.	3.0	11
66	H ₂ O ₂ in the Induction of NF- κ B-Dependent Selective Gene Expression. <i>Methods in Enzymology</i> , 2013, 528, 173-188.	1.0	11
67	Cytotoxic effects of N'-formyl-2-(5-nitrothiophen-2-yl) benzothiazole-6-carbohydrazide in human breast tumor cells by induction of oxidative stress. <i>Anticancer Research</i> , 2012, 32, 2721-6.	1.1	11
68	Theoretical analysis of the kinetic performance of laboratory- and full-scale composting systems. <i>Waste Management and Research</i> , 2012, 30, 700-707.	3.9	9
69	The plasma membrane-enriched fraction proteome response during adaptation to hydrogen peroxide in <i>Saccharomyces cerevisiae</i> . <i>Free Radical Research</i> , 2012, 46, 1267-1279.	3.3	9
70	Synthetic cobalt clays for the storage and slow release of therapeutic nitric oxide. <i>RSC Advances</i> , 2016, 6, 41195-41203.	3.6	9
71	Structure-based virtual screening toward the discovery of novel inhibitors of the DNA repair activity of the human apurinic/apyrimidinic endonuclease 1. <i>Chemical Biology and Drug Design</i> , 2016, 88, 915-925.	3.2	9
72	The standard molar enthalpy of the base catalysed hydrolysis of methyl paraben revisited. <i>Journal of Chemical Thermodynamics</i> , 2016, 103, 176-180.	2.0	8

#	ARTICLE	IF	CITATIONS
73	Storage and delivery of H ₂ S by microporous and mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2021, 320, 111093.	4.4	8
74	Diagnosis and optimization of the composting process in full-scale mechanical-biological treatment plants. <i>Waste Management and Research</i> , 2011, 29, 565-573.	3.9	7
75	Chitosan Biocomposites for the Adsorption and Release of H ₂ S. <i>Materials</i> , 2021, 14, 6701.	2.9	6
76	Kinetics of the base catalysed hydrolysis of methyl paraben revisited: Implications for determination of the effective volume of flow-microcalorimeters used to study cell cultures. <i>Thermochimica Acta</i> , 2018, 659, 82-88.	2.7	4
77	Potential antitumour and pro-oxidative effects of (E)-methyl 2-(7-chloroquinolin-4-ylthio)-3-(4-hydroxyphenyl) acrylate (QNACR). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 1300-1306.	5.2	3
78	Is the Peroxiredoxin 2/Thioredoxin/Thioredoxin Reductase system in human erythrocytes designed for redox signaling?. <i>Free Radical Biology and Medicine</i> , 2014, 75, S24.	2.9	3
79	Development of Polycaprolactone-â€Zeolite Nanoporous Composite Films for Topical Therapeutic Release of Different Gasotransmitters. <i>ACS Applied Nano Materials</i> , 2022, 5, 9230-9240.	5.0	3
80	Reaction of Ubiquinols with Nitric Oxide. , 1999, , 143-163.		1
81	Data Processing to Probe the Cellular Hydrogen Peroxide Landscape. <i>Methods in Molecular Biology</i> , 2022, 2385, 153-160.	0.9	1
82	Sphingolipid-Enriched Microdomains in the Plasma Membrane of <i>Saccharomyces Cerevisiae</i> : Ergosterol-Free Â«Lipid RaftsÂ» in the Gel Phase. <i>Biophysical Journal</i> , 2012, 102, 27a.	0.5	0
83	Is the Peroxiredoxin 2 / Thioredoxin / Thioredoxin Reductase System in Human Erythrocytes Evolutionarily Designed for Hydrogen Peroxide-Mediated Signaling?. <i>Free Radical Biology and Medicine</i> , 2013, 65, S161.	2.9	0
84	Is Peroxiredoxin IIâ€™s peroxidase activity strongly inhibited in human erythrocytes?. <i>Free Radical Biology and Medicine</i> , 2014, 75, S23-S24.	2.9	0
85	Metabolism of Superoxide Radicals and Hydrogen Peroxide in Mitochondria. <i>Oxidative Stress and Disease</i> , 2015, , 3-28.	0.3	0
86	Noncoding RNAs as Critical Players in Regulatory Accuracy, Redox Signaling, and Immune Cell Functions. , 2017, , 215-284.		0
87	Improved therapeutic nitric oxide delivery by microporous Cu-bearing titanosilicate. <i>Microporous and Mesoporous Materials</i> , 2021, 322, 111154.	4.4	0