

John T Hancock

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

13,884
citations

50170

46
h-index

48187

88
g-index

100
all docs

100
docs citations

100
times ranked

12581
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen peroxide signalling. <i>Current Opinion in Plant Biology</i> , 2002, 5, 388-395.	3.5	1,107
2	Ethylene-induced stomatal closure in <i>Arabidopsis</i> occurs via AtrbohF-mediated hydrogen peroxide synthesis. <i>Plant Journal</i> , 2006, 47, 907-916.	2.8	1,089
3	ABA-induced NO generation and stomatal closure in <i>Arabidopsis</i> are dependent on H ₂ O ₂ synthesis. <i>Plant Journal</i> , 2006, 45, 113-122.	2.8	885
4	Regulation of the <i>Arabidopsis</i> Transcriptome by Oxidative Stress. <i>Plant Physiology</i> , 2001, 127, 159-172.	2.3	829
5	Nitric oxide signalling in plants. <i>New Phytologist</i> , 2003, 159, 11-35.	3.5	811
6	Hydrogen peroxide and nitric oxide as signalling molecules in plants. <i>Journal of Experimental Botany</i> , 2002, 53, 1237-1247.	2.4	810
7	Nitric oxide, stomatal closure, and abiotic stress. <i>Journal of Experimental Botany</i> , 2008, 59, 165-176.	2.4	663
8	A new role for an old enzyme: Nitrate reductase-mediated nitric oxide generation is required for abscisic acid-induced stomatal closure in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16314-16318.	3.3	633
9	Nitric Oxide Is a Novel Component of Abscisic Acid Signaling in Stomatal Guard Cells. <i>Plant Physiology</i> , 2002, 128, 13-16.	2.3	493
10	ABA, hydrogen peroxide and nitric oxide signalling in stomatal guard cells. <i>Journal of Experimental Botany</i> , 2003, 55, 205-212.	2.4	472
11	Nitric oxide synthesis and signalling in plants. <i>Plant, Cell and Environment</i> , 2008, 31, 622-631.	2.8	448
12	NO way back: nitric oxide and programmed cell death in <i>Arabidopsis thaliana</i> suspension cultures. <i>Plant Journal</i> , 2000, 24, 667-677.	2.8	406
13	Signaling through the Primary Cilium. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 8.	1.8	353
14	Role of reactive oxygen species in cell signalling pathways. <i>Biochemical Society Transactions</i> , 2001, 29, 345-50.	1.6	273
15	Hydrogen sulfide: environmental factor or signalling molecule?. <i>Plant, Cell and Environment</i> , 2013, 36, 1607-1616.	2.8	241
16	Harpin Induces Activation of the <i>Arabidopsis</i> Mitogen-Activated Protein Kinases AtMPK4 and AtMPK6. <i>Plant Physiology</i> , 2001, 126, 1579-1587.	2.3	223
17	Generation of active oxygen in elicited cells of <i>Arabidopsis thaliana</i> mediated by a NADPH oxidase-like enzyme. <i>FEBS Letters</i> , 1996, 382, 213-217.	1.3	197
18	A novel hydrogen sulfide donor causes stomatal opening and reduces nitric oxide accumulation. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 931-935.	2.8	196

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19	Production of reactive oxygen species and reactive nitrogen species by angiosperm stigmas and pollen: potential signalling crosstalk?. <i>New Phytologist</i> , 2006, 172, 221-228.	3.5	192
20	Hydrogen sulfide and cell signaling: Team player or referee?. <i>Plant Physiology and Biochemistry</i> , 2014, 78, 37-42.	2.8	190
21	A Role for ETR1 in Hydrogen Peroxide Signaling in Stomatal Guard Cells. <i>Plant Physiology</i> , 2005, 137, 831-834.	2.3	187
22	Proteomic identification of glyceraldehyde 3-phosphate dehydrogenase as an inhibitory target of hydrogen peroxide in Arabidopsis. <i>Plant Physiology and Biochemistry</i> , 2005, 43, 828-835.	2.8	183
23	Nitric oxide evolution and perception. <i>Journal of Experimental Botany</i> , 2007, 59, 25-35.	2.4	181
24	Role of Xanthine Oxidoreductase as an Antimicrobial Agent. <i>Infection and Immunity</i> , 2004, 72, 4933-4939.	1.0	152
25	Doing the unexpected: proteins involved in hydrogen peroxide perception. <i>Journal of Experimental Botany</i> , 2006, 57, 1711-1718.	2.4	146
26	Nitric oxide is a novel component of abscisic acid signaling in stomatal guard cells. <i>Plant Physiology</i> , 2002, 128, 13-6.	2.3	135
27	Hydrogen sulfide signaling: interactions with nitric oxide and reactive oxygen species. <i>Annals of the New York Academy of Sciences</i> , 2016, 1365, 5-14.	1.8	120
28	Hydrogen peroxide is a common signal for darkness- and ABA-induced stomatal closure in <i>Pisum sativum</i> . <i>Functional Plant Biology</i> , 2004, 31, 913.	1.1	114
29	Hydrogen peroxide-induced gene expression in <i>Arabidopsis thaliana</i> . <i>Free Radical Biology and Medicine</i> , 2000, 28, 773-778.	1.3	113
30	Antimicrobial Properties of Milk: Dependence on Presence of Xanthine Oxidase and Nitrite. <i>Antimicrobial Agents and Chemotherapy</i> , 2002, 46, 3308-3310.	1.4	111
31	Does the redox status of cytochrome C act as a fail-safe mechanism in the regulation of programmed cell death?. <i>Free Radical Biology and Medicine</i> , 2001, 31, 697-703.	1.3	96
32	Cell signalling following plant/pathogen interactions involves the generation of reactive oxygen and reactive nitrogen species. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 611-617.	2.8	94
33	Hydrogen sulfide and environmental stresses. <i>Environmental and Experimental Botany</i> , 2019, 161, 50-56.	2.0	94
34	Nitric oxide and ABA in the control of plant function. <i>Plant Science</i> , 2011, 181, 555-559.	1.7	93
35	Regulating the regulator: nitric oxide control of post-translational modifications. <i>New Phytologist</i> , 2020, 227, 1319-1325.	3.5	91
36	The evolutionarily conserved multifunctional glycine-rich <sc>RNA</sc>-binding proteins play key roles in development and stress adaptation. <i>Physiologia Plantarum</i> , 2015, 153, 1-11.	2.6	90

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37	A proteomic analysis of oligo(dT)-bound mRNP containing oxidative stress-induced Arabidopsis thaliana RNA-binding proteins ATGRP7 and ATGRP8. <i>Molecular Biology Reports</i> , 2010, 37, 839-845.	1.0	89
38	Nitric Oxide: Its Generation and Interactions with Other Reactive Signaling Compounds. <i>Plants</i> , 2019, 8, 41.	1.6	87
39	Hydrogen sulfide effects on stomatal apertures. <i>Plant Signaling and Behavior</i> , 2011, 6, 1444-1446.	1.2	83
40	The Role of Redox Mechanisms in Cell Signalling. <i>Molecular Biotechnology</i> , 2009, 43, 162-166.	1.3	67
41	Harpin induces mitogen-activated protein kinase activity during defence responses in Arabidopsis thaliana suspension cultures. <i>Planta</i> , 1999, 210, 97-103.	1.6	65
42	Differential requirement for NO during ABA-induced stomatal closure in turgid and wilted leaves. <i>Plant, Cell and Environment</i> , 2009, 32, 46-57.	2.8	65
43	Hypoxia leads to significant changes in alternative splicing and elevated expression of CLK splice factor kinases in PC3 prostate cancer cells. <i>BMC Cancer</i> , 2018, 18, 355.	1.1	64
44	Pollen generates nitric oxide and nitrite: a possible link to pollen-induced allergic responses. <i>Plant Physiology and Biochemistry</i> , 2009, 47, 49-55.	2.8	56
45	Recommendations on terminology and experimental best practice associated with plant nitric oxide research. <i>New Phytologist</i> , 2020, 225, 1828-1834.	3.5	56
46	Signaling on the Stigma. <i>Plant Signaling and Behavior</i> , 2007, 2, 23-24.	1.2	50
47	[22] Assays of plasma membrane NADPH oxidase. <i>Methods in Enzymology</i> , 1994, 233, 222-229.	0.4	46
48	New frontiers in nitric oxide biology in plant. <i>Plant Science</i> , 2011, 181, 507-508.	1.7	46
49	Harnessing Evolutionary Toxins for Signaling: Reactive Oxygen Species, Nitric Oxide and Hydrogen Sulfide in Plant Cell Regulation. <i>Frontiers in Plant Science</i> , 2017, 8, 189.	1.7	44
50	Hydrogen sulfide in horticulture: Emerging roles in the era of climate change. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 667-675.	2.8	39
51	Role of nitric oxide in regulating stomatal apertures. <i>Plant Signaling and Behavior</i> , 2009, 4, 467-469.	1.2	33
52	Molecular hydrogen in agriculture. <i>Planta</i> , 2021, 254, 56.	1.6	24
53	The use of diphenylene iodonium and its analogues to investigate the role of the nadph oxidase in the tumoricidal activity of macrophages in vitro. <i>Free Radical Biology and Medicine</i> , 1991, 11, 25-29.	1.3	23
54	Considerations of the importance of redox state for reactive nitrogen species action. <i>Journal of Experimental Botany</i> , 2019, 70, 4323-4331.	2.4	23

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55	Hydrogenases and the Role of Molecular Hydrogen in Plants. <i>Plants</i> , 2020, 9, 1136.	1.6	22
56	Nitric oxide, other reactive signalling compounds, redox, and reductive stress. <i>Journal of Experimental Botany</i> , 2021, 72, 819-829.	2.4	22
57	Cytochrome c, Glutathione, and the Possible Role of Redox Potentials in Apoptosis. <i>Annals of the New York Academy of Sciences</i> , 2003, 1010, 446-448.	1.8	21
58	Nitric Oxide Signaling in Plants. <i>Plants</i> , 2020, 9, 1550.	1.6	21
59	Nitric oxide-releasing nanomaterials: from basic research to potential biotechnological applications in agriculture. <i>New Phytologist</i> , 2022, 234, 1119-1125.	3.5	21
60	New equations for redox and nano-signal transduction. <i>Journal of Theoretical Biology</i> , 2004, 226, 65-68.	0.8	20
61	Downstream Signalling from Molecular Hydrogen. <i>Plants</i> , 2021, 10, 367.	1.6	20
62	The inhibition of flavoproteins by phenoxaionium, a new iodonium analogue. <i>European Journal of Pharmacology</i> , 2000, 401, 115-120.	1.7	17
63	Leaf arginine spraying improves leaf gas exchange under water deficit and root antioxidant responses during the recovery period. <i>Plant Physiology and Biochemistry</i> , 2021, 162, 315-326.	2.8	15
64	The effects of seed priming with sodium hydrosulphide on drought tolerance of sunflower (<i>Helianthus annuus</i> L.) in germination and early growth. <i>Annals of Applied Biology</i> , 2021, 178, 400-413.	1.3	14
65	Detection of Thiol Modifications by Hydrogen Sulfide. <i>Methods in Enzymology</i> , 2015, 555, 233-251.	0.4	12
66	Molecular Hydrogen as Medicine: An Assessment of Administration Methods. <i>Hydrogen</i> , 2021, 2, 444-460.	1.7	12
67	Assessment of the influence of different sample processing and cold storage duration on plant free proline content analyses. <i>Phytochemical Analysis</i> , 2010, 21, 561-565.	1.2	11
68	Oxy-hydrogen Gas: The Rationale Behind Its Use as a Novel and Sustainable Treatment for COVID-19 and Other Respiratory Diseases. <i>European Medical Journal (Chelmsford, England)</i> , 0, , .	3.0	11
69	Molecular Hydrogen: Redox Reactions and Possible Biological Interactions. <i>Reactive Oxygen Species (Apex, N C)</i> , 0, 11, .	5.4	11
70	Implications of dealing with airborne substances and reactive oxygen species: what mammalian lungs, animals, and plants have to say?. <i>Integrative and Comparative Biology</i> , 2007, 47, 578-591.	0.9	10
71	Expression and localization of aquaporin water channels in adult pig urinary bladder. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 3772-3775.	1.6	10
72	The Identification of Genes Important in <i>Pseudomonas syringae</i> pv. <i>phaseolicola</i> Plant Colonisation Using In Vitro Screening of Transposon Libraries. <i>PLoS ONE</i> , 2015, 10, e0137355.	1.1	10

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73	Nitric oxide and nitrite are likely mediators of pollen interactions. <i>Plant Signaling and Behavior</i> , 2009, 4, 416-418.	1.2	9
74	Alone NO Longer. <i>Advances in Botanical Research</i> , 2016, 77, 1-14.	0.5	8
75	Oxygen Is Instrumental for Biological Signaling: An Overview. <i>Oxygen</i> , 2021, 1, 3-15.	1.6	8
76	Molecular Hydrogen: Is This a Viable New Treatment for Plants in the UK?. <i>Plants</i> , 2021, 10, 2270.	1.6	8
77	Hydrogen peroxide and nitric oxide in plant defence: Revealing potential targets for oxidative stress tolerance?. <i>BioFactors</i> , 2001, 15, 99-101.	2.6	7
78	Residual ground-water levels of the neonicotinoid thiacloprid perturb chemosensing of <i>Caenorhabditis elegans</i> . <i>Ecotoxicology</i> , 2017, 26, 981-990.	1.1	7
79	The NADPH oxidase of neutrophils and other cells. , 2000, , 21-46.		7
80	Hydrogen Gas, ROS Metabolism, and Cell Signaling: Are Hydrogen Spin States Important?. , 0, , .		7
81	An Overview of SARS-CoV-2 (COVID-19) Infection and the Importance of Molecular Hydrogen as an Adjunctive Therapy. , 0, , .		6
82	Hydrogen Sulfide and Reactive Friends: The Interplay with Reactive Oxygen Species and Nitric Oxide Signalling Pathways. <i>Proceedings of the International Plant Sulfur Workshop</i> , 2015, , 153-168.	0.1	5
83	The Role of Redox in Signal Transduction. <i>Methods in Molecular Biology</i> , 2008, 476, 1-9.	0.4	5
84	Cell signalling is the music of life. <i>British Journal of Biomedical Science</i> , 2008, 65, 205-208.	1.2	4
85	Investigating ROS, RNS, and H2S-Sensitive Signaling Proteins. <i>Methods in Molecular Biology</i> , 2019, 1990, 27-42.	0.4	4
86	Interacting Proteins, Polymorphisms and the Susceptibility of Animals to SARS-CoV-2. <i>Animals</i> , 2021, 11, 797.	1.0	4
87	A Brief History of Oxygen: 250 Years on. <i>Oxygen</i> , 2022, 2, 31-39.	1.6	4
88	Tools to Investigate ROS Sensitive Signalling Proteins. <i>Methods in Molecular Biology</i> , 2008, 476, 84-96.	0.4	3
89	Competition of Reactive Signals and Thiol Modifications of Proteins. <i>Journal of Cell Signaling</i> , 2017, 02, .	0.3	3
90	Nitric oxide scavenging by food: implications for in vivo effects of diet. <i>British Journal of Biomedical Science</i> , 2010, 67, 15-19.	1.2	2

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91	Equations to Support Redox Experimentation. <i>Methods in Molecular Biology</i> , 2019, 1990, 183-195.	0.4	2
92	Methods for the Addition of Redox Compounds. <i>Methods in Molecular Biology</i> , 2019, 1990, 13-25.	0.4	1
93	The Role of Redox in Signal Transduction. <i>Methods in Molecular Biology</i> , 2019, 1990, 1-11.	0.4	1
94	Reactive Oxygen Species, Nitric Oxide, and Signal Crosstalk. , 0, , 136-160.		0
95	Oxygen: A New Open Access Journal Focused on the Biology and Chemistry of This Essential Molecule. <i>Oxygen</i> , 2021, 1, 1-2.	1.6	0