

Nicolas L Taylor

List of Publications by Year in descending order

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86
papers

6,003
citations

66234

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74018

75
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90
all docs

90
docs citations

90
times ranked

6588
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy costs of salt tolerance in crop plants. <i>New Phytologist</i> , 2020, 225, 1072-1090.	3.5	284
2	The Pentatricopeptide Repeat Gene <i>OTP43</i> Is Required for <i>trans</i> -Splicing of the Mitochondrial <i>nad1</i> Intron 1 in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007, 19, 3256-3265.	3.1	248
3	Effects of Water Stress on Respiration in Soybean Leaves. <i>Plant Physiology</i> , 2005, 139, 466-473.	2.3	245
4	Differential Impact of Environmental Stresses on the Pea Mitochondrial Proteome. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1122-1133.	2.5	231
5	Mitochondrial uncoupling protein is required for efficient photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19587-19592.	3.3	226
6	Divalent Metal Ions in Plant Mitochondria and Their Role in Interactions with Proteins and Oxidative Stress-Induced Damage to Respiratory Function. <i>Plant Physiology</i> , 2010, 152, 747-761.	2.3	211
7	The role of mitochondrial respiration in salinity tolerance. <i>Trends in Plant Science</i> , 2011, 16, 614-623.	4.3	199
8	Lipoic Acid-Dependent Oxidative Catabolism of $\hat{\pm}$ -Keto Acids in Mitochondria Provides Evidence for Branched-Chain Amino Acid Catabolism in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2004, 134, 838-848.	2.3	176
9	Environmental Stress Causes Oxidative Damage to Plant Mitochondria Leading to Inhibition of Glycine Decarboxylase. <i>Journal of Biological Chemistry</i> , 2002, 277, 42663-42668.	1.6	172
10	Novel Proteins, Putative Membrane Transporters, and an Integrated Metabolic Network Are Revealed by Quantitative Proteomic Analysis of <i>Arabidopsis</i> Cell Culture Peroxisomes. <i>Plant Physiology</i> , 2008, 148, 1809-1829.	2.3	169
11	The seminal fluid proteome of the honeybee <i>Apis mellifera</i> . <i>Proteomics</i> , 2009, 9, 2085-2097.	1.3	152
12	The pentatricopeptide repeat gene <i>OTP51</i> with two LAGLIDADG motifs is required for the <i>cis</i> -Splicing of plastid <i>ycf3</i> intron 2 in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008, 56, 157-168.	2.8	148
13	Abiotic environmental stress induced changes in the <i>Arabidopsis thaliana</i> chloroplast, mitochondria and peroxisome proteomes. <i>Journal of Proteomics</i> , 2009, 72, 367-378.	1.2	142
14	Wheat mitochondrial respiration shifts from the tricarboxylic acid cycle to the <i>GABA</i> shunt under salt stress. <i>New Phytologist</i> , 2020, 225, 1166-1180.	3.5	135
15	Mitochondrial Composition, Function and Stress Response in Plants. <i>Journal of Integrative Plant Biology</i> , 2012, 54, 887-906.	4.1	129
16	Experimental Analysis of the Rice Mitochondrial Proteome, Its Biogenesis, and Heterogeneity. <i>Plant Physiology</i> , 2009, 149, 719-734.	2.3	127
17	Differential Molecular Responses of Rice and Wheat Coleoptiles to Anoxia Reveal Novel Metabolic Adaptations in Amino Acid Metabolism for Tissue Tolerance. <i>Plant Physiology</i> , 2011, 156, 1706-1724.	2.3	124
18	Nucleotide and RNA Metabolism Prime Translational Initiation in the Earliest Events of Mitochondrial Biogenesis during <i>Arabidopsis</i> Germination. <i>Plant Physiology</i> , 2012, 158, 1610-1627.	2.3	124

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19	Refining the Definition of Plant Mitochondrial Presequences through Analysis of Sorting Signals, N-Terminal Modifications, and Cleavage Motifs <i>Plant Physiology</i> , 2009, 150, 1272-1285.	2.3	119
20	Insights into female sperm storage from the spermathecal fluid proteome of the honeybee <i>Apis mellifera</i> . <i>Genome Biology</i> , 2009, 10, R67.	13.9	116
21	Wheat Mitochondrial Proteomes Provide New Links between Antioxidant Defense and Plant Salinity Tolerance. <i>Journal of Proteome Research</i> , 2010, 9, 6595-6604.	1.8	107
22	TECHNICAL ADVANCE: Free-flow electrophoresis for purification of plant mitochondria by surface charge. <i>Plant Journal</i> , 2007, 52, 583-594.	2.8	102
23	Targets of stress-induced oxidative damage in plant mitochondria and their impact on cell carbon/nitrogen metabolism. <i>Journal of Experimental Botany</i> , 2003, 55, 1-10.	2.4	91
24	Isolation of Intact, Functional Mitochondria From the Model Plant <i>Arabidopsis thaliana</i> . <i>Methods in Molecular Biology</i> , 2007, 372, 125-136.	0.4	90
25	Multiple Lines of Evidence Localize Signaling, Morphology, and Lipid Biosynthesis Machinery to the Mitochondrial Outer Membrane of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 157, 1093-1113.	2.3	90
26	Recent Advances in the Composition and Heterogeneity of the <i>Arabidopsis</i> Mitochondrial Proteome. <i>Frontiers in Plant Science</i> , 2013, 4, 4.	1.7	86
27	Succinate dehydrogenase assembly factor 2 is needed for assembly and activity of mitochondrial complex II and for normal root elongation in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013, 73, 429-441.	2.8	84
28	Resolving and Identifying Protein Components of Plant Mitochondrial Respiratory Complexes Using Three Dimensions of Gel Electrophoresis. <i>Journal of Proteome Research</i> , 2008, 7, 786-794.	1.8	80
29	Response of mitochondria to light intensity in the leaves of sun and shade species. <i>Plant, Cell and Environment</i> , 2005, 28, 760-771.	2.8	79
30	A survey of the <i>Arabidopsis thaliana</i> mitochondrial phosphoproteome. <i>Proteomics</i> , 2009, 9, 4229-4240.	1.3	78
31	The Cytotoxic Lipid Peroxidation Product 4-Hydroxy-2-nonenal Covalently Modifies a Selective Range of Proteins Linked to Respiratory Function in Plant Mitochondria. <i>Journal of Biological Chemistry</i> , 2007, 282, 37436-37447.	1.6	76
32	Addressing Research Bottlenecks to Crop Productivity. <i>Trends in Plant Science</i> , 2021, 26, 607-630.	4.3	76
33	Resource: Mapping the <i>Triticum aestivum</i> proteome. <i>Plant Journal</i> , 2017, 89, 601-616.	2.8	74
34	Connecting salt stress signalling pathways with salinity-induced changes in mitochondrial metabolic processes in <i>C3</i> plants. <i>Plant, Cell and Environment</i> , 2017, 40, 2875-2905.	2.8	72
35	<i>Arabidopsis</i> tRNA Adenosine Deaminase Arginine Edits the Wobble Nucleotide of Chloroplast tRNA ^{Arg} (ACG) and Is Essential for Efficient Chloroplast Translation. <i>Plant Cell</i> , 2009, 21, 2058-2071.	3.1	69
36	Matrix-assisted laser desorption/ionisation mass spectrometry imaging and its development for plant protein imaging. <i>Plant Methods</i> , 2011, 7, 21.	1.9	68

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37	Analysis of the Rice Mitochondrial Carrier Family Reveals Anaerobic Accumulation of a Basic Amino Acid Carrier Involved in Arginine Metabolism during Seed Germination. <i>Plant Physiology</i> , 2010, 154, 691-704.	2.3	67
38	Investigating the Role of Respiration in Plant Salinity Tolerance by Analyzing Mitochondrial Proteomes from Wheat and a Salinity-Tolerant Amphiploid (Wheat × <i>Lophopyrum elongatum</i>). <i>Journal of Proteome Research</i> , 2013, 12, 4807-4829.	1.8	65
39	The <i>Arabidopsis thaliana</i> 2D gel mitochondrial proteome: Refining the value of reference maps for assessing protein abundance, contaminants and post-translational modifications. <i>Proteomics</i> , 2011, 11, 1720-1733.	1.3	63
40	Identification of intra- and intermolecular disulphide bonding in the plant mitochondrial proteome by diagonal gel electrophoresis. <i>Proteomics</i> , 2007, 7, 4158-4170.	1.3	51
41	Selected Reaction Monitoring to Determine Protein Abundance in Arabidopsis Using the Arabidopsis Proteotypic Predictor. <i>Plant Physiology</i> , 2014, 164, 525-536.	2.3	48
42	Environmental stresses inhibit and stimulate different protein import pathways in plant mitochondria. <i>FEBS Letters</i> , 2003, 547, 125-130.	1.3	47
43	Stepwise Evolution of a Buried Inhibitor Peptide over 45 My. <i>Molecular Biology and Evolution</i> , 2017, 34, 1505-1516.	3.5	45
44	Components of Mitochondrial Oxidative Phosphorylation Vary in Abundance Following Exposure to Cold and Chemical Stresses. <i>Journal of Proteome Research</i> , 2012, 11, 3860-3879.	1.8	41
45	Functional and composition differences between mitochondrial complex II in Arabidopsis and rice are correlated with the complex genetic history of the enzyme. <i>Plant Molecular Biology</i> , 2010, 72, 331-342.	2.0	40
46	Cold sensitivity of mitochondrial ATP synthase restricts oxidative phosphorylation in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2019, 221, 1776-1788.	3.5	40
47	Responses of the Mitochondrial Respiratory System to Low Temperature in Plants. <i>Critical Reviews in Plant Sciences</i> , 2017, 36, 217-240.	2.7	36
48	INTERMEDIATE CLEAVAGE PEPTIDASE55 Modifies Enzyme Amino Termini and Alters Protein Stability in Arabidopsis Mitochondria. <i>Plant Physiology</i> , 2015, 168, 415-427.	2.3	34
49	Can Alternative Metabolic Pathways and Shunts Overcome Salinity Induced Inhibition of Central Carbon Metabolism in Crops?. <i>Frontiers in Plant Science</i> , 2020, 11, 1072.	1.7	34
50	Could mitochondrial dysfunction play a role in manganese toxicity?. <i>Environmental Toxicology and Pharmacology</i> , 1999, 7, 49-57.	2.0	33
51	The rice mitochondria proteome and its response during development and to the environment. <i>Frontiers in Plant Science</i> , 2013, 4, 16.	1.7	33
52	Multiplex micro-respiratory measurements of Arabidopsis tissues. <i>New Phytologist</i> , 2013, 200, 922-932.	3.5	33
53	Assessment of Respiration in Isolated Plant Mitochondria Using Clark-Type Electrodes. <i>Methods in Molecular Biology</i> , 2015, 1305, 165-185.	0.4	32
54	A family of small, cyclic peptides buried in prealbumin since the Eocene epoch. <i>Plant Direct</i> , 2018, 2, e00042.	0.8	32

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55	Plant Mitochondrial Proteomics. <i>Methods in Molecular Biology</i> , 2014, 1072, 499-525.	0.4	28
56	Disruption of <i>ptLPD1</i> or <i>ptLPD2</i> , Genes That Encode Isoforms of the Plastidial Lipoamide Dehydrogenase, Confers Arsenate Hypersensitivity in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 153, 1385-1397.	2.3	27
57	Analysis of the sodium chloride-dependent respiratory kinetics of wheat mitochondria reveals differential effects on phosphorylating and non-phosphorylating electron transport pathways. <i>Plant, Cell and Environment</i> , 2016, 39, 823-833.	2.8	27
58	The metabolic acclimation of <i>Arabidopsis thaliana</i> to arsenate is sensitized by the loss of mitochondrial LIPOAMIDE DEHYDROGENASE2, a key enzyme in oxidative metabolism. <i>Plant, Cell and Environment</i> , 2014, 37, 684-695.	2.8	25
59	Application of selected reaction monitoring mass spectrometry to field-grown crop plants to allow dissection of the molecular mechanisms of abiotic stress tolerance. <i>Frontiers in Plant Science</i> , 2013, 4, 20.	1.7	22
60	Subcellular proteomics—where cell biology meets protein chemistry. <i>Frontiers in Plant Science</i> , 2014, 5, 55.	1.7	20
61	Elucidating the Inability of Functionalized Nanoparticles to Cross the Blood-Brain Barrier and Target Specific Cells in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22085-22095.	4.0	18
62	Diel- and temperature-driven variation of leaf dark respiration rates and metabolite levels in rice. <i>New Phytologist</i> , 2020, 228, 56-69.	3.5	18
63	An Ancient Peptide Family Buried within Vicilin Precursors. <i>ACS Chemical Biology</i> , 2019, 14, 979-993.	1.6	17
64	<i>Arabidopsis</i> Organelle Isolation and Characterization. <i>Methods in Molecular Biology</i> , 2014, 1062, 551-572.	0.4	16
65	The Protein Corona of PEGylated PGMA-Based Nanoparticles is Preferentially Enriched with Specific Serum Proteins of Varied Biological Function. <i>Langmuir</i> , 2017, 33, 12926-12933.	1.6	16
66	Early Events in Plastid Protein Degradation in <i>stay-green Arabidopsis</i> Reveal Differential Regulation beyond the Retention of LHClI and Chlorophyll. <i>Journal of Proteome Research</i> , 2012, 11, 5443-5452.	1.8	15
67	Diverse cyclic seed peptides in the Mexican zinnia (<i>Zinnia haageana</i>). <i>Biopolymers</i> , 2016, 106, 806-817.	1.2	13
68	Current status of the multinational <i>Arabidopsis</i> community. <i>Plant Direct</i> , 2020, 4, e00248.	0.8	13
69	Oxidative Stress and Plant Mitochondria. <i>Methods in Molecular Biology</i> , 2007, 372, 389-403.	0.4	13
70	Protein corona formation moderates the release kinetics of ion channel antagonists from transferrin-functionalized polymeric nanoparticles. <i>RSC Advances</i> , 2020, 10, 2856-2869.	1.7	11
71	Opportunities for wheat proteomics to discover the biomarkers for respiration-dependent biomass production, stress tolerance and cytoplasmic male sterility. <i>Journal of Proteomics</i> , 2016, 143, 36-44.	1.2	10
72	Distinct salinity-induced changes in wheat metabolic machinery in different root tissue types. <i>Journal of Proteomics</i> , 2022, 256, 104502.	1.2	10

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73	We Are Not Alone: The iMOP Initiative and Its Roles in a Biology- and Disease-Driven Human Proteome Project. <i>Journal of Proteome Research</i> , 2017, 16, 4273-4280.	1.8	8
74	Plant Mitochondrial Proteomics. <i>Methods in Molecular Biology</i> , 2015, 1305, 83-106.	0.4	7
75	The Isolation of Plant Organelles and Structures in the Post-genomic Era. <i>Methods in Molecular Biology</i> , 2017, 1511, 1-11.	0.4	7
76	Editorial for Special Issue "Plant Mitochondria". <i>International Journal of Molecular Sciences</i> , 2018, 19, 3849.	1.8	7
77	Pursuing the identification of O ₂ deprivation survival mechanisms in plants related to selective mRNA translation, hormone-independent cellular elongation and preparation for the arrival of oxygen. <i>Plant Signaling and Behavior</i> , 2011, 6, 1612-1615.	1.2	6
78	Isolation of Mitochondria from Model and Crop Plants. <i>Methods in Molecular Biology</i> , 2017, 1670, 115-142.	0.4	5
79	Proteomic profiling of mature leaves from oil palm (<i>Elaeis guineensis</i> Jacq.). <i>Electrophoresis</i> , 2017, 38, 1147-1153.	1.3	4
80	Isolation of Mitochondria, Their Sub-Organellar Compartments, and Membranes. <i>Methods in Molecular Biology</i> , 2017, 1511, 83-96.	0.4	4
81	The Plant Mitochondrial Proteome Composition and Stress Response: Conservation and Divergence Between Monocots and Dicots. , 2011, , 207-239.		4
82	Long bugs to short plants " the Lon protease in protein stability and thermotolerance. <i>New Phytologist</i> , 2009, 181, 505-508.	3.5	2
83	Assessment of Mitochondrial Protein Composition and Purity by Mass Spectroscopy. <i>Methods in Molecular Biology</i> , 2022, 2363, 121-152.	0.4	0
84	MITOCHONDRIAL BIOCHEMISTRY. , 0, , 227-268.		0
85	Inhibition of mitochondrial succinate oxidation by antipsychotic medication. <i>Veterinary and Human Toxicology</i> , 2000, 42, 209-11.	0.3	0
86	Development and Governance of FAIR Thresholds for a Data Federation. <i>Data Science Journal</i> , 2022, 21, .	0.6	0