

Janneke Balk

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

4,068
citations

136950

32
h-index

233421

45
g-index

53
all docs

53
docs citations

53
times ranked

3766
citing authors

#	ARTICLE	IF	CITATIONS
1	Ancient and essential: the assembly of iron-sulfur clusters in plants. <i>Trends in Plant Science</i> , 2011, 16, 218-226.	8.8	311
2	Iron homeostasis in plants – a brief overview. <i>Metallomics</i> , 2017, 9, 813-823.	2.4	287
3	Iron Cofactor Assembly in Plants. <i>Annual Review of Plant Biology</i> , 2014, 65, 125-153.	18.7	239
4	Biogenesis of iron-sulfur proteins in plants. <i>Trends in Plant Science</i> , 2005, 10, 324-331.	8.8	221
5	Wheat Vacuolar Iron Transporter TaVIT2 Transports Fe and Mn and Is Effective for Biofortification. <i>Plant Physiology</i> , 2017, 174, 2434-2444.	4.8	206
6	The hydrogenase-like Nar1p is essential for maturation of cytosolic and nuclear iron-sulphur proteins. <i>EMBO Journal</i> , 2004, 23, 2105-2115.	7.8	196
7	Human Ind1, an Iron-Sulfur Cluster Assembly Factor for Respiratory Complex I. <i>Molecular and Cellular Biology</i> , 2009, 29, 6059-6073.	2.3	184
8	Biofortification of wheat grain with iron and zinc: integrating novel genomic resources and knowledge from model crops. <i>Frontiers in Plant Science</i> , 2014, 5, 53.	3.6	171
9	The iron-sulphur protein Ind1 is required for effective complex I assembly. <i>EMBO Journal</i> , 2008, 27, 1736-1746.	7.8	158
10	The eukaryotic P loop NTPase Nbp35: An essential component of the cytosolic and nuclear iron-sulfur protein assembly machinery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3266-3271.	7.1	156
11	A Conserved Mitochondrial ATP-binding Cassette Transporter Exports Glutathione Polysulfide for Cytosolic Metal Cofactor Assembly. <i>Journal of Biological Chemistry</i> , 2014, 289, 23264-23274.	3.4	141
12	A Novel Role for <i>Arabidopsis</i> Mitochondrial ABC Transporter ATM3 in Molybdenum Cofactor Biosynthesis. <i>Plant Cell</i> , 2010, 22, 468-480.	6.6	128
13	An Allelic Mutant Series of <i>ATM3</i> Reveals Its Key Role in the Biogenesis of Cytosolic Iron-Sulfur Proteins in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009, 151, 590-602.	4.8	120
14	Iron Biofortification of Staple Crops: Lessons and Challenges in Plant Genetics. <i>Plant and Cell Physiology</i> , 2019, 60, 1447-1456.	3.1	120
15	Functional Characterization of the Eukaryotic Cysteine Desulfurase Nfs1p from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 36906-36915.	3.4	119
16	The Essential WD40 Protein Cia1 Is Involved in a Late Step of Cytosolic and Nuclear Iron-Sulfur Protein Assembly. <i>Molecular and Cellular Biology</i> , 2005, 25, 10833-10841.	2.3	118
17	Histochemical staining and quantification of plant mitochondrial respiratory chain complexes using blue-native polyacrylamide gel electrophoresis. <i>Plant Journal</i> , 2005, 44, 893-901.	5.7	100
18	<i>Arabidopsis</i> BRUTUS-LIKE E3 ligases negatively regulate iron uptake by targeting transcription factor FIT for recycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17584-17591.	7.1	91

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19	Arabidopsis Glutaredoxin S17 and Its Partner, the Nuclear Factor Y Subunit C11/Negative Cofactor 2 [±] , Contribute to Maintenance of the Shoot Apical Meristem under Long-Day Photoperiod. <i>Plant Physiology</i> , 2015, 167, 1643-1658.	4.8	78
20	The DUF59 Family Gene <i>AE7</i> Acts in the Cytosolic Iron-Sulfur Cluster Assembly Pathway to Maintain Nuclear Genome Integrity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 4135-4148.	6.6	72
21	The Essential Cytosolic Iron-Sulfur Protein Nbp35 Acts without Cfd1 Partner in the Green Lineage. <i>Journal of Biological Chemistry</i> , 2008, 283, 35797-35804.	3.4	68
22	The Evolutionarily Conserved Iron-Sulfur Protein INDH Is Required for Complex I Assembly and Mitochondrial Translation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 4014-4027.	6.6	66
23	Vacuolar Iron Stores Gated by NRAMP3 and NRAMP4 Are the Primary Source of Iron in Germinating Seeds. <i>Plant Physiology</i> , 2018, 177, 1267-1276.	4.8	65
24	Absence of Complex I Is Associated with Diminished Respiratory Chain Function in European Mistletoe. <i>Current Biology</i> , 2018, 28, 1614-1619.e3.	3.9	62
25	The Mitochondrial Sulfur Dioxygenase ETHYLMALONIC ENCEPHALOPATHY PROTEIN1 Is Required for Amino Acid Catabolism during Carbohydrate Starvation and Embryo Development in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 92-104.	4.8	57
26	<i>Arabidopsis</i> glutathione reductase 2 is indispensable in plastids, while mitochondrial glutathione is safeguarded by additional reduction and transport systems. <i>New Phytologist</i> , 2019, 224, 1569-1584.	7.3	57
27	Functional analysis of <i>Arabidopsis</i> genes involved in mitochondrial iron-sulfur cluster assembly. <i>Plant Molecular Biology</i> , 2007, 64, 225-240.	3.9	55
28	Structures and functions of mitochondrial ABC transporters. <i>Biochemical Society Transactions</i> , 2015, 43, 943-951.	3.4	50
29	Hemerythrin E3 Ubiquitin Ligases as Negative Regulators of Iron Homeostasis in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 98.	3.6	48
30	Cysteine biosynthesis, in concert with a novel mechanism, contributes to sulfide detoxification in mitochondria of <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2012, 445, 275-283.	3.7	43
31	Requirements of the cytosolic iron-sulfur cluster assembly pathway in <i>Arabidopsis</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120259.	4.0	42
32	The stage of seed development influences iron bioavailability in pea (<i>Pisum sativum</i> L.). <i>Scientific Reports</i> , 2018, 8, 6865.	3.3	39
33	Selective induction and subcellular distribution of ACONITASE 3 reveal the importance of cytosolic citrate metabolism during lipid mobilization in <i>Arabidopsis</i> . <i>Biochemical Journal</i> , 2014, 463, 309-317.	3.7	33
34	NBP35 interacts with DRE2 in the maturation of cytosolic iron-sulphur proteins in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 89, 590-600.	5.7	31
35	The <i>Medicago truncatula</i> Vacuolar iron Transporter-Like proteins VTL4 and VTL8 deliver iron to symbiotic bacteria at different stages of the infection process. <i>New Phytologist</i> , 2020, 228, 651-666.	7.3	29
36	Cytosolic Fe-S Cluster Protein Maturation and Iron Regulation Are Independent of the Mitochondrial Erv1/Mia40 Import System. <i>Journal of Biological Chemistry</i> , 2015, 290, 27829-27840.	3.4	19

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37	Subcellular dynamics studies of iron reveal how tissue-specific distribution patterns are established in developing wheat grains. <i>New Phytologist</i> , 2021, 231, 1644-1657.	7.3	15
38	Genetic dissection of cyclic pyranopterin monophosphate biosynthesis in plant mitochondria. <i>Biochemical Journal</i> , 2018, 475, 495-509.	3.7	13
39	The function of glutaredoxin GRXS15 is required for lipoyl-dependent dehydrogenases in mitochondria. <i>Plant Physiology</i> , 2021, 186, 1507-1525.	4.8	12
40	Insights into the pathogenic character of a common <i>NUBPL</i> branch-site mutation associated with mitochondrial disease and complex I deficiency using a yeast model. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 1279-84.	2.4	10
41	<i>NUBPL</i> mitochondrial disease: new patients and review of the genetic and clinical spectrum. <i>Journal of Medical Genetics</i> , 2021, 58, 314-325.	3.2	9
42	Pathogenic mutations in <i>NUBPL</i> affect complex I activity and cold tolerance in the yeast model <i>Yarrowia lipolytica</i> . <i>Human Molecular Genetics</i> , 2018, 27, 3697-3709.	2.9	8
43	Protein lipoylation in mitochondria requires Fe-S cluster assembly factors NFU4 and NFU5. <i>Plant Physiology</i> , 2021, , .	4.8	7
44	A colorimetric method to measure in vitro nitrogenase functionality for engineering nitrogen fixation. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
45	The iron will of the research community: advances in iron nutrition and interactions in lockdown times. <i>Journal of Experimental Botany</i> , 2021, 72, 2011-2013.	4.8	3