

Tatjana M Hildebrandt

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,562
citations

331670

21
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

4402
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of the electronâ€transfer flavoprotein: ubiquinone oxidoreductase following carbohydrate starvation in Arabidopsis cell cultures. <i>Plant Cell Reports</i> , 2022, 41, 431-446.	5.6	3
2	The function of glutaredoxin GRXS15 is required for lipoyl-dependent dehydrogenases in mitochondria. <i>Plant Physiology</i> , 2021, 186, 1507-1525.	4.8	12
3	The role of amino acid metabolism in signaling and metabolic adaptation to stress-induced energy deficiency in plants. <i>Journal of Experimental Botany</i> , 2021, 72, 4634-4645.	4.8	67
4	Estimating the number of protein molecules in a plant cell: protein and amino acid homeostasis during drought. <i>Plant Physiology</i> , 2021, 185, 385-404.	4.8	21
5	Single organelle function and organization as estimated from Arabidopsis mitochondrial proteomics. <i>Plant Journal</i> , 2020, 101, 420-441.	5.7	152
6	The role of amino acid metabolism during abiotic stress release. <i>Plant, Cell and Environment</i> , 2019, 42, 1630-1644.	5.7	278
7	The Role of Persulfide Metabolism During Arabidopsis Seed Development Under Light and Dark Conditions. <i>Frontiers in Plant Science</i> , 2018, 9, 1381.	3.6	8
8	Synthesis versus degradation: directions of amino acid metabolism during Arabidopsis abiotic stress response. <i>Plant Molecular Biology</i> , 2018, 98, 121-135.	3.9	243
9	Extended darkness induces internal turnover of glucosinolates in Arabidopsis thaliana leaves. <i>PLoS ONE</i> , 2018, 13, e0202153.	2.5	24
10	Comparative analysis of salt-induced changes in the root proteome of two accessions of the halophyte <i>Cakile maritima</i> . <i>Plant Physiology and Biochemistry</i> , 2018, 130, 20-29.	5.8	16
11	The mitochondrial complexome of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 89, 1079-1092.	5.7	192
12	CoQ deficiency causes disruption of mitochondrial sulfide oxidation, a new pathomechanism associated with this syndrome. <i>EMBO Molecular Medicine</i> , 2017, 9, 78-95.	6.9	59
13	Differential impact of amino acids on OXPHOS system activity following carbohydrate starvation in Arabidopsis cell suspensions. <i>Physiologia Plantarum</i> , 2017, 161, 451-467.	5.2	16
14	Dealing with the sulfur part of cysteine: four enzymatic steps degrade cysteine to pyruvate and thiosulfate in Arabidopsis mitochondria. <i>Physiologia Plantarum</i> , 2016, 157, 352-366.	5.2	20
15	Sulfide Detoxification in Plant Mitochondria. <i>Methods in Enzymology</i> , 2015, 555, 271-286.	1.0	10
16	Amino Acid Catabolism in Plants. <i>Molecular Plant</i> , 2015, 8, 1563-1579.	8.3	898
17	Quantitative Multilevel Analysis of Central Metabolism in Developing Oilseeds of Oilseed Rape during In Vitro Culture. <i>Plant Physiology</i> , 2015, 168, 828-848.	4.8	71
18	The Mitochondrial Sulfur Dioxygenase ETHYLMALONIC ENCEPHALOPATHY PROTEIN1 Is Required for Amino Acid Catabolism during Carbohydrate Starvation and Embryo Development in Arabidopsis. <i>Plant Physiology</i> , 2014, 165, 92-104.	4.8	57

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19	Proteome adaptations in Ethe1-deficient mice indicate a role in lipid catabolism and cytoskeleton organization via post-translational protein modifications. <i>Bioscience Reports</i> , 2013, 33, .	2.4	31
20	Lack of cytochrome c in Arabidopsis decreases stability of Complex IV and modifies redox metabolism without affecting Complexes I and III. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 990-1001.	1.0	50
21	Modulation of sulfide oxidation and toxicity in rat mitochondria by dehydroascorbic acid. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 1206-1213.	1.0	24
22	Sodium Thiosulfate Pharmacokinetics in Hemodialysis Patients and Healthy Volunteers. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2011, 6, 1447-1455.	4.5	53
23	RNA PROCESSING FACTOR3 Is Crucial for the Accumulation of Mature <i>ccmC</i> Transcripts in Mitochondria of Arabidopsis Accession Columbia Å Å. <i>Plant Physiology</i> , 2011, 157, 1430-1439.	4.8	59
24	Combined treatment with oral metronidazole and N-acetylcysteine is effective in ethylmalonic encephalopathy. <i>Nature Medicine</i> , 2010, 16, 869-871.	30.7	136
25	Die vielen Seiten des Sulfids. Täglich und doch lebensnotwendig. <i>Biologie in Unserer Zeit</i> , 2009, 39, 328-334.	0.2	0
26	Analysis of cytosolic and plastidic serine acetyltransferase mutants and subcellular metabolite distributions suggests interplay of the cellular compartments for cysteine biosynthesis in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 349-367.	5.7	139
27	Loss of ETHE1, a mitochondrial dioxygenase, causes fatal sulfide toxicity in ethylmalonic encephalopathy. <i>Nature Medicine</i> , 2009, 15, 200-205.	30.7	358
28	Three enzymatic activities catalyze the oxidation of sulfide to thiosulfate in mammalian and invertebrate mitochondria. <i>FEBS Journal</i> , 2008, 275, 3352-3361.	4.7	455
29	Redox regulation of mitochondrial sulfide oxidation in the lugworm, <i>Arenicola marina</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 2617-2623.	1.7	37
30	Analysis of Cytosolic and Plastidic Serine Acetyltransferase Mutants and Subcellular Metabolite Distributions Suggests Interplay of the Cellular Compartments for Cysteine Biosynthesis in Arabidopsis. <i>Plant, Cell and Environment</i> , 2008, 32, 349-67.	5.7	69