# Tatjana M Hildebrandt

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Amino Acid Catabolism in Plants. Molecular Plant, 2015, 8, 1563-1579. | 8.3 | 898 |
| 2 | Three enzymatic activities catalyze the oxidation of sulfide to thiosulfate in mammalian and invertebrate mitochondria. FEBS Journal, 2008, 275, 3352-3361. | 4.7 | 455 |
| 3 | Loss of ETHE1, a mitochondrial dioxygenase, causes fatal sulfide toxicity in ethylmalonic encephalopathy. Nature Medicine, 2009, 15, 200-205. | 30.7 | 358 |
| 4 | The role of amino acid metabolism during abiotic stress release. Plant, Cell and Environment, 2019, 42, 1630-1644. | 5.7 | 278 |
| 5 | Synthesis versus degradation: directions of amino acid metabolism during Arabidopsis abiotic stress response. Plant Molecular Biology, 2018, 98, 121-135. | 3.9 | 243 |
| 6 | The mitochondrial complexome of Arabidopsis thaliana. Plant Journal, 2017, 89, 1079-1092. | 5.7 | 192 |
| 7 | Single organelle function and organization as estimated from Arabidopsis mitochondrial proteomics. Plant Journal, 2020, 101, 420-441. | 5.7 | 152 |
| 8 | Analysis of cytosolic and plastidic serine acetyltransferase mutants and subcellular metabolite distributions suggests interplay of the cellular compartments for cysteine biosynthesis in Arabidopsis. Plant, Cell and Environment, 2009, 32, 349-367. | 5.7 | 139 |
| 9 | Combined treatment with oral metronidazole and N-acetylcysteine is effective in ethylmalonic encephalopathy. Nature Medicine, 2010, 16, 869-871. | 30.7 | 136 |
| 10 | Quantitative Multilevel Analysis of Central Metabolism in Developing Oilseeds of Oilseed Rape during in Vitro Culture. Plant Physiology, 2015, 168, 828-848. | 4.8 | 71 |
| 11 | Analysis of Cytosolic and Plastidic Serine Acetyltransferase Mutants and Subcellular Metabolite Distributions Suggests Interplay of the Cellular Compartments for Cysteine Biosynthesis in Arabidopsis. Plant, Cell and Environment, 2008, 32, 349-67. | 5.7 | 69 |
| 12 | The role of amino acid metabolism in signaling and metabolic adaptation to stress-induced energy deficiency in plants. Journal of Experimental Botany, 2021, 72, 4634-4645. | 4.8 | 67 |
| 13 | RNA PROCESSING FACTOR3 Is Crucial for the Accumulation of Mature ccmC Transcripts in Mitochondria of Arabidopsis Accession Columbia Â Â. Plant Physiology, 2011, 157, 1430-1439. | 4.8 | 59 |
| 14 | CoQ deficiency causes disruption of mitochondrial sulfide oxidation, a new pathomechanism associated with this syndrome. EMBO Molecular Medicine, 2017, 9, 78-95. | 6.9 | 59 |
| 15 | The Mitochondrial Sulfur Dioxygenase ETHYLMALONIC ENCEPHALOPATHY PROTEIN1 Is Required for Amino Acid Catabolism during Carbohydrate Starvation and Embryo Development in Arabidopsis Â Â. Plant Physiology, 2014, 165, 92-104. | 4.8 | 57 |
| 16 | Sodium Thiosulfate Pharmacokinetics in Hemodialysis Patients and Healthy Volunteers. Clinical Journal of the American Society of Nephrology: CJASN, 2011, 6, 1447-1455. | 4.5 | 53 |
| 17 | Lack of cytochrome c in Arabidopsis decreases stability of Complex IV and modifies redox metabolism without affecting Complexes I and III. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 990-1001. | 1.0 | 50 |
| 18 | Redox regulation of mitochondrial sulfide oxidation in the lugworm,Arenicola marina. Journal of Experimental Biology, 2008, 211, 2617-2623. | 1.7 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Proteome adaptations in Ethe1-deficient mice indicate a role in lipid catabolism and cytoskeleton organization via post-translational protein modifications. Bioscience Reports, 2013, 33, . | 2.4 | 31 |
| 20 | Modulation of sulfide oxidation and toxicity in rat mitochondria by dehydroascorbic acid. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1206-1213. | 1.0 | 24 |
| 21 | Extended darkness induces internal turnover of glucosinolates in Arabidopsis thaliana leaves. PLoS ONE, 2018, 13, e0202153. | 2.5 | 24 |
| 22 | Estimating the number of protein molecules in a plant cell: protein and amino acid homeostasis during drought. Plant Physiology, 2021, 185, 385-404. | 4.8 | 21 |
| 23 | Dealing with the sulfur part of cysteine: four enzymatic steps degrade <scp>l</scp>â€cysteine to pyruvate and thiosulfate in Arabidopsis mitochondria. Physiologia Plantarum, 2016, 157, 352-366. | 5.2 | 20 |
| 24 | Differential impact of amino acids on OXPHOS system activity following carbohydrate starvation in Arabidopsis cell suspensions. Physiologia Plantarum, 2017, 161, 451-467. | 5.2 | 16 |
| 25 | Comparative analysis of salt-induced changes in the root proteome of two accessions of the halophyte Cakile maritima. Plant Physiology and Biochemistry, 2018, 130, 20-29. | 5.8 | 16 |
| 26 | The function of glutaredoxin GRXS15 is required for lipoyl-dependent dehydrogenases in mitochondria. Plant Physiology, 2021, 186, 1507-1525. | 4.8 | 12 |
| 27 | Sulfide Detoxification in Plant Mitochondria. Methods in Enzymology, 2015, 555, 271-286. | 1.0 | 10 |
| 28 | The Role of Persulfide Metabolism During Arabidopsis Seed Development Under Light and Dark Conditions. Frontiers in Plant Science, 2018, 9, 1381. | 3.6 | 8 |
| 29 | The role of the electronâ€transfer flavoprotein: ubiquinone oxidoreductase following carbohydrate starvation in Arabidopsis cell cultures. Plant Cell Reports, 2022, 41, 431-446. | 5.6 | 3 |
| 30 | Die vielen Seiten des Sulfids. TÃ¶dlich und doch lebensnotwendig. Biologie in Unserer Zeit, 2009, 39, 328-334. | 0.2 | 0 |