# Claus-Peter Witte

List of Publications by Year
in descending order



| 41 | 3,047 | 218677 | 289244 |
|---|---|---|---|
| papers | citations | 26 h-index | 40 g-index |

| 43 | 43 | 43 | 4192 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Calcium-dependent protein kinase/NADPH oxidase activation circuit is required for rapid defense signal propagation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8744-8749. | 7.1 | 585 |
| 2 | Urea metabolism in plants. Plant Science, 2011, 180, 431-438. | 3.6 | 336 |
| 3 | Terminal-repeat retrotransposons in miniature (TRIM) are involved in restructuring plant genomes. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13778-13783. | 7.1 | 196 |
| 4 | Interaction between SGT1 and Cytosolic/Nuclear HSC70 Chaperones Regulates Arabidopsis Immune Responses. Plant Cell, 2008, 19, 4061-4076. | 6.6 | 187 |
| 5 | The biochemistry of nitrogen mobilization: purine ring catabolism. Trends in Plant Science, 2011, 16, 381-387. | 8.8 | 181 |
| 6 | Rapid one-step protein purification from plant material using the eight-amino acid StrepII epitope. Plant Molecular Biology, 2004, 55, 135-147. | 3.9 | 178 |
| 7 | Leaf Urea Metabolism in Potato. Urease Activity Profile and Patterns of Recovery and Distribution of 15N after Foliar Urea Application in Wild-Type and Urease-Antisense Transgenics. Plant Physiology, 2002, 128, 1129-1136. | 4.8 | 112 |
| 8 | Identification, Biochemical Characterization, and Subcellular Localization of Allantoate Amidohydrolases from Arabidopsis and Soybean. Plant Physiology, 2008, 146, 323-324. | 4.8 | 91 |
| 9 | Tobacco Calcium-dependent Protein Kinases Are Differentially Phosphorylated in Vivo as Part of a Kinase Cascade That Regulates Stress Response. Journal of Biological Chemistry, 2010, 285, 9740-9748. | 3.4 | 81 |
| 10 | Ureide catabolism in Arabidopsis thaliana and Escherichia coli. Nature Chemical Biology, 2010, 6, 19-21. | 8.0 | 79 |
| 11 | Nucleotide Metabolism in Plants. Plant Physiology, 2020, 182, 63-78. | 4.8 | 78 |
| 12 | Identification of Three Urease Accessory Proteins That Are Required for Urease Activation in Arabidopsis. Plant Physiology, 2005, 139, 1155-1162. | 4.8 | 68 |
| 13 | In-Gel Detection of Urease with Nitroblue Tetrazolium and Quantification of the Enzyme from Different Crop Plants Using the Indophenol Reaction. Analytical Biochemistry, 2001, 290, 102-107. | 2.4 | 64 |
| 14 | TheChlamydomonas reinhardtiiMoCo carrier protein is multimeric and stabilizes molybdopterin cofactor in a molybdate charged form. FEBS Letters, 1998, 431, 205-209. | 2.8 | 54 |
| 15 | Mcp1 Encodes the Molybdenum Cofactor Carrier Protein in Chlamydomonas reinhardtii and Participates in Protection, Binding, and Storage Functions of the Cofactor. Journal of Biological Chemistry, 2003, 278, 10885-10890. | 3.4 | 50 |
| 16 | The Ureide-Degrading Reactions of Purine Ring Catabolism Employ Three Amidohydrolases and One Aminohydrolase in Arabidopsis, Soybean, and Rice. Plant Physiology, 2013, 163, 672-681. | 4.8 | 50 |
| 17 | Identification and Characterization of Proteins Involved in Rice Urea and Arginine Catabolism Â. Plant Physiology, 2010, 154, 98-108. | 4.8 | 48 |
| 18 | Uric Acid Accumulation in an Arabidopsis Urate Oxidase Mutant Impairs Seedling Establishment by Blocking Peroxisome Maintenance. Plant Cell, 2014, 26, 3090-3100. | 6.6 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Stable isotope labeling of phosphopeptides for multiparallel kinase target analysis and identification of phosphorylation sites. Rapid Communications in Mass Spectrometry, 2003, 17, 1579-1584. | 1.5 | 45 |
| 20 | m<sup>6</sup>A RNA Degradation Products Are Catabolized by an Evolutionarily Conserved N<sup>6</sup>-Methyl-AMP Deaminase in Plant and Mammalian Cells. Plant Cell, 2018, 30, 1511-1522. | 6.6 | 45 |
| 21 | Plant Purine Nucleoside Catabolism Employs a Guanosine Deaminase Required for the Generation of Xanthosine in Arabidopsis. Plant Cell, 2013, 25, 4101-4109. | 6.6 | 44 |
| 22 | Rapid Affinity Purification of Tagged Plant Mitochondria (Mito-AP) for Metabolome and Proteome Analyses. Plant Physiology, 2020, 182, 1194-1210. | 4.8 | 42 |
| 23 | Identification, cloning and expression analysis of strawberry (Fragaria x ananassa) mitochondrial citrate synthase and mitochondrial malate dehydrogenase. Physiologia Plantarum, 2004, 121, 15-26. | 5.2 | 39 |
| 24 | Calcium-Dependent Protein Kinase CPK1 Controls Cell Death by In Vivo Phosphorylation of Senescence Master Regulator ORE1. Plant Cell, 2020, 32, 1610-1625. | 6.6 | 33 |
| 25 | Title is missing!. Plant Cell, Tissue and Organ Culture, 2002, 68, 103-104. | 2.3 | 32 |
| 26 | AMP and GMP Catabolism in Arabidopsis Converge on Xanthosine, Which Is Degraded by a Nucleoside Hydrolase Heterocomplex. Plant Cell, 2019, 31, 734-751. | 6.6 | 29 |
| 27 | The assembly of the plant urease activation complex and the essential role of the urease accessory protein G (UreG) in delivery of nickel to urease. Journal of Biological Chemistry, 2017, 292, 14556-14565. | 3.4 | 28 |
| 28 | A Link between Deoxyribonucleotide Metabolites and Embryonic Cell-Cycle Control. Current Biology, 2019, 29, 1187-1192.e3. | 3.9 | 27 |
| 29 | Functional characterisation of urease accessory protein G (ureG) from potato. Plant Molecular Biology, 2001, 45, 169-179. | 3.9 | 26 |
| 30 | Of the nine cytidine deaminase like genes in Arabidopsis thaliana eight are pseudogenes and only one is required to maintain pyrimidine homeostasis in vivo. Plant Physiology, 2016, 171, pp.02031.2015. | 4.8 | 26 |
| 31 | Analysis of two alleles of the urease gene from potato: polymorphisms, expression, and extensive alternative splicing of the corresponding mRNA. Journal of Experimental Botany, 2004, 56, 91-9. | 4.8 | 23 |
| 32 | Enhanced nucleotide analysis enables the quantification of deoxynucleotides in plants and algae revealing connections between nucleoside and deoxynucleoside metabolism. Plant Cell, 2021, 33, 270-289. | 6.6 | 23 |
| 33 | A Kinase and a Glycosylase Catabolize Pseudouridine in the Peroxisome to Prevent Toxic Pseudouridine Monophosphate Accumulation. Plant Cell, 2020, 32, 722-739. | 6.6 | 22 |
| 34 | The ribokinases of Arabidopsis thaliana and Saccharomyces cerevisiae are required for ribose recycling from nucleotide catabolism, which in plants is not essential to survive prolonged dark stress. New Phytologist, 2018, 217, 233-244. | 7.3 | 21 |
| 35 | Coprophagous features in carnivorous Nepenthes plants: a task for ureases. Scientific Reports, 2017, 7, 11647. | 3.3 | 12 |
| 36 | Analysis of Nucleosides and Nucleotides in Plants: An Update on Sample Preparation and LCâ€“MS Techniques. Cells, 2021, 10, 689. | 4.1 | 10 |

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|---|---|---|---|
| 37 | Initiation of cytosolic plant purine nucleotide catabolism involves a monospecific xanthosine monophosphate phosphatase. Nature Communications, 2021, 12, 6846. | 12.8 | 10 |
| 38 | Loss of MAR1 Function is a Marker for Co-Selection of CRISPR-Induced Mutations in Plants. Frontiers in Genome Editing, 2021, 3, 723384. | 5.2 | 9 |
| 39 | Structural basis for the substrate specificity and catalytic features of pseudouridine kinase from Arabidopsis thaliana. Nucleic Acids Research, 2021, 49, 491-503. | 14.5 | 9 |
| 40 | Crystal structure and mutational analyses of ribokinase from Arabidopsis thaliana. Journal of Structural Biology, 2019, 206, 110-118. | 2.8 | 6 |
| 41 | Functions and Dynamics of Methylation in Eukaryotic mRNA. RNA Technologies, 2019, , 333-351. | 0.3 | 0 |