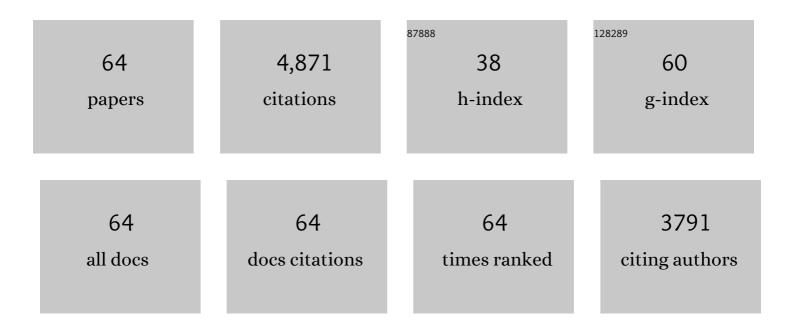
Thomas Leustek

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	PATHWAYS ANDREGULATION OFSULFURMETABOLISMREVEALEDTHROUGHMOLECULAR ANDGENETICSTUDIES. Annual Review of Plant Biology, 2000, 51, 141-165.	14.3	591
2	Sulfate Transport and Assimilation in Plants1. Plant Physiology, 1999, 120, 637-644.	4.8	456
3	Inter-organ signaling in plants: regulation of ATP sulfurylase and sulfate transporter genes expression in roots mediated by phloem-translocated compound. Plant Journal, 1999, 18, 89-95.	5.7	288
4	A new route for synthesis of dimethylsulphoniopropionate in marine algae. Nature, 1997, 387, 891-894.	27.8	189
5	Evidence for Autoregulation of Cystathionine -Synthase mRNA Stability in Arabidopsis. Science, 1999, 286, 1371-1374.	12.6	181
6	Analysis of sulfur and selenium assimilation in Astragalus plants with varying capacities to accumulate selenium. Plant Journal, 2005, 42, 785-797.	5.7	178
7	Regulation of the Plant-type 5â€~-Adenylyl Sulfate Reductase by Oxidative Stress,. Biochemistry, 2001, 40, 9040-9048.	2.5	155
8	Recombinant Arabidopsis SQD1 Converts UDP-glucose and Sulfite to the Sulfolipid Head Group Precursor UDP-sulfoquinovose in Vitro. Journal of Biological Chemistry, 2001, 276, 3941-3946.	3.4	135
9	Differential Subcellular Localization and Expression of ATP Sulfurylase and 5′-Adenylylsulfate Reductase during Ontogenesis of Arabidopsis Leaves Indicates That Cytosolic and Plastid Forms of ATP Sulfurylase May Have Specialized Functions. Plant Physiology, 2000, 124, 715-724.	4.8	121
10	L,L-diaminopimelate aminotransferase, a trans-kingdom enzyme shared by Chlamydia and plants for synthesis of diaminopimelate/lysine. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17909-17914.	7.1	121
11	Identification of a New Class of 5â€2-Adenylylsulfate (APS) Reductases from Sulfate-Assimilating Bacteria. Journal of Bacteriology, 2000, 182, 135-142.	2.2	118
12	An ll-Diaminopimelate Aminotransferase Defines a Novel Variant of the Lysine Biosynthesis Pathway in Plants. Plant Physiology, 2006, 140, 292-301.	4.8	115
13	The affect of cadmium on sulfate assimilation enzymes in Brassica juncea. Plant Science, 1999, 141, 201-207.	3.6	114
14	Sulfate reduction is increased in transgenic Arabidopsis thaliana expressing 5′-adenylylsulfate reductase from Pseudomonas aeruginosa. Plant Journal, 2002, 32, 879-889.	5.7	112
15	Constitutive Overexpression of Cystathionine γ-Synthase in Arabidopsis Leads to Accumulation of Soluble Methionine and <i>S</i> -Methylmethionine. Plant Physiology, 2002, 128, 95-107.	4.8	100
16	Localization of Members of the γ-Glutamyl Transpeptidase Family Identifies Sites of Glutathione and Glutathione S-Conjugate Hydrolysis. Plant Physiology, 2007, 144, 1715-1732.	4.8	98
17	Adenosine-5â€ ² -Triphosphate-Sulfurylase fromArabidopsis thalianaandEscherichia coliAre Functionally Equivalent but Structurally and Kinetically Divergent: Nucleotide Sequence of Two Adenosine-5â€ ² -Triphosphate-Sulfurylase cDNAs fromArabidopsis thalianaand Analysis of a Recombinant Enzyme. Archives of Biochemistry and Biophysics. 1995, 323, 195-204.	3.0	82
18	Functional characterization of a gene encoding a fourth ATP sulfurylase isoform from Arabidopsis thaliana. Gene, 2000, 248, 51-58.	2.2	80

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19	The role of 5′-adenylylsulfate reductase in controlling sulfate reduction in plants. Photosynthesis Research, 2005, 86, 309-323.	2.9	80
20	Molecular genetics of sulfate assimilation in plants. Physiologia Plantarum, 1996, 97, 411-419.	5.2	79
21	Plant sulfur metabolism — the reduction of sulfate to sulfite. Current Opinion in Plant Biology, 1998, 1, 240-244.	7.1	79
22	The sac Mutants of Chlamydomonas reinhardtii Reveal Transcriptional and Posttranscriptional Control of Cysteine Biosynthesis. Plant Physiology, 2002, 130, 2076-2084.	4.8	77
23	Repression of cystathionine Î ³ -synthase in Arabidopsis thaliana produces partial methionine auxotrophy and developmental abnormalities. Plant Science, 2000, 151, 9-18.	3.6	74
24	Aberrant gene expression in the <scp>A</scp> rabidopsis <i><scp>SULTR</scp>1;2</i> mutants suggests a possible regulatory role for this sulfate transporter in response to sulfur nutrient status. Plant Journal, 2014, 77, 185-197.	5.7	72
25	Genetic Dissection of Histidine Biosynthesis in Arabidopsis. Plant Physiology, 2007, 144, 890-903.	4.8	71
26	Cloning and analysis of the gene for cystathionine ?-synthase from Arabidopsis thaliana. Plant Molecular Biology, 1996, 32, 1117-1124.	3.9	65
27	Sulfate Metabolism. The Arabidopsis Book, 2002, 1, e0017.	0.5	64
28	Methionine and threonine synthesis are limited by homoserine availability and not the activity of homoserine kinase in Arabidopsis thaliana. Plant Journal, 2005, 41, 685-696.	5.7	62
29	Characterization of Sulfate Assimilation in Marine Algae Focusing on the Enzyme 5′-Adenylylsulfate Reductase1. Plant Physiology, 2000, 123, 1087-1096.	4.8	61
30	Biosynthesis of lysine in plants: evidence for a variant of the known bacterial pathways. Biochimica Et Biophysica Acta - General Subjects, 2005, 1721, 27-36.	2.4	61
31	A multifunctional Urechis caupo protein, PAPS synthetase, has both ATP sulfurylase and APS kinase activities. Gene, 1995, 165, 243-248.	2.2	60
32	Analysis of the isopentenyl diphosphate isomerase gene family from Arabidopsis thaliana. Plant Molecular Biology, 1998, 36, 323-328.	3.9	60
33	Identification and Stereospecificity of the First Three Enzymes of 3-Dimethylsulfoniopropionate Biosynthesis in a Chlorophyte Alga1. Plant Physiology, 1998, 116, 369-378.	4.8	60
34	Engineering sulfur storage in maize seed proteins without apparent yield loss. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11386-11391.	7.1	53
35	Siroheme Biosynthesis in Higher Plants. Journal of Biological Chemistry, 1997, 272, 2744-2752.	3.4	52
36	Calcium-dependent autophosphorylation of the glucose-regulated protein, Grp78. Archives of Biochemistry and Biophysics, 1991, 289, 256-261.	3.0	44

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37	APS Kinase fromArabidopsis thaliana:Genomic Organization, Expression, and Kinetic Analysis of the Recombinant Enzyme. Biochemical and Biophysical Research Communications, 1998, 247, 171-175.	2.1	42
38	Arabidopsis γâ€glutamylcyclotransferase affects glutathione content and root system architecture during sulfur starvation. New Phytologist, 2019, 221, 1387-1397.	7.3	42
39	Properties of the Cysteine Residues and Ironâ^'Sulfur Cluster of the Assimilatory 5â€~-Adenylyl Sulfate Reductase fromPseudomonas aeruginosaâ€. Biochemistry, 2004, 43, 13478-13486.	2.5	40
40	Biochemical and Phylogenetic Characterization of a Novel Diaminopimelate Biosynthesis Pathway in Prokaryotes Identifies a Diverged Form of <scp>ll</scp> -Diaminopimelate Aminotransferase. Journal of Bacteriology, 2008, 190, 3256-3263.	2.2	38
41	Overexpression of serine acetyltransferase in maize leaves increases seedâ€specific methionineâ€rich zeins. Plant Biotechnology Journal, 2018, 16, 1057-1067.	8.3	37
42	Identification of the Gene Encoding Homoserine Kinase from Arabidopsis thaliana and Characterization of the Recombinant Enzyme Derived from the Gene. Archives of Biochemistry and Biophysics, 1999, 372, 135-142.	3.0	36
43	Constitutive overexpression of cystathionine gamma-synthase in Arabidopsis leads to accumulation of soluble methionine and S-methylmethionine. Plant Physiology, 2002, 128, 95-107.	4.8	32
44	A transgene for high methionine protein is posttranscriptionally regulated by methionine. In Vitro Cellular and Developmental Biology - Plant, 2005, 41, 731-741.	2.1	26
45	Transceptors at the boundary of nutrient transporters and receptors: a new role for Arabidopsis SULTR1;2 in sulfur sensing. Frontiers in Plant Science, 2014, 5, 710.	3.6	23
46	The interaction of 5â€2-adenylylsulfate reductase from Pseudomonas aeruginosa with its substrates. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1710, 103-112.	1.0	19
47	Dual diaminopimelate biosynthesis pathways in Bacteroides fragilis and Clostridium thermocellum. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1162-1168.	2.3	17
48	Two Arabidopsis thaliana dihydrodipicolinate synthases, DHDPS1 and DHDPS2, are unequally redundant. Functional Plant Biology, 2012, 39, 1058.	2.1	15
49	Properties of the Cysteine Residues and the Ironâ^'Sulfur Cluster of the Assimilatory 5â€~-Adenylyl Sulfate Reductase from Enteromorpha intestinalis. Biochemistry, 2006, 45, 5010-5018.	2.5	14
50	Phylogenetic Analysis of Sulfate Assimilation and Cysteine Biosynthesis in Phototrophic Organisms. Advances in Photosynthesis and Respiration, 2008, , 31-58.	1.0	14
51	Cloning and bacterial expression of adenosine-5′-triphosphate sulfurylase from the enteric protozoan parasite Entamoeba histolytica. BBA - Proteins and Proteomics, 1998, 1429, 284-291.	2.1	11
52	The Two-Domain Structure of 5â€~-Adenylylsulfate (APS) Reductase fromEnteromorpha intestinalisIs a Requirement for Efficient APS Reductase Activityâ€. Biochemistry, 2007, 46, 591-601.	2.5	11
53	Inhibition of Arabidopsis growth by the allelopathic compound azetidineâ€2â€carboxylate is due to the low amino acid specificity of cytosolic prolylâ€ŧRNA synthetase. Plant Journal, 2016, 88, 236-246.	5.7	11
54	Sulfur metabolism in plants and algae a case study for an integrative scientific approach. Photosynthesis Research, 2005, 86, 297-298.	2.9	10

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55	Differential response of orthologous l,l-diaminopimelate aminotransferases (DapL) to enzyme inhibitory antibiotic lead compounds. Bioorganic and Medicinal Chemistry, 2014, 22, 523-530.	3.0	9
56	Introduction to Sulfur Metabolism in Phototrophic Organisms. Advances in Photosynthesis and Respiration, 2008, , 1-14.	1.0	5
57	Interaction Domain on Thioredoxin for Pseudomonas aeruginosa 5′-Adenylylsulfate Reductase. Journal of Biological Chemistry, 2009, 284, 31181-31189.	3.4	4
58	The Arabidopsis thaliana adenosine 5'-phosphosulfate reductase 2 (AtAPR2) participates in flowering time and glucose response. Journal of Plant Biology, 2015, 58, 128-136.	2.1	2
59	Advances in understanding sulfur utilization efficiency in plants. , 2017, , 215-232.		2
60	A luciferase-based method for assay of 5′-adenylylsulfate reductase. Analytical Biochemistry, 2014, 460, 22-28.	2.4	1
61	Is GRP78 a Sensor of Cellular Secretory Activity?. , 1992, 14, 125-137.		1
62	You cannot oxidize what you cannot reach: Oxidative susceptibility of buried methionine residues. Journal of Biological Chemistry, 2022, 298, 101973.	3.4	1
63	SULTR1;2 in S Nutrient-Status Control in Arabidopsis. Proceedings of the International Plant Sulfur Workshop, 2015, , 81-91.	0.1	0
64	Interactions of 5′â€Adenylylphosphosulfate Reductase from Pseudomonas aeruginosa with substrates. FASEB Journal, 2008, 22, 341-341.	0.5	0