Thomas Leustek

List of Publications by Year
in descending order

64 papers	4,871 citations	87888 38 h-index	128289 60 g-index
64 all docs	64 docs citations	64 times ranked	3791 citing authors

#	Article	IF	Citations
1	You cannot oxidize what you cannot reach: Oxidative susceptibility of buried methionine residues. Journal of Biological Chemistry, 2022, 298, 101973.	3.4	1
2	Arabidopsis Î³â€glutamylcyclotransferase affects glutathione content and root system architecture during sulfur starvation. New Phytologist, 2019, 221, 1387-1397.	7.3	42
3	Overexpression of serine acetyltransferase in maize leaves increases seedâ€specific methionineâ€rich zeins. Plant Biotechnology Journal, 2018, 16, 1057-1067.	8.3	37
4	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
5	Advances in understanding sulfur utilization efficiency in plants. , 2017, , 215-232.		2
6	Inhibition of Arabidopsis growth by the allelopathic compound azetidineâ€2â€carboxylate is due to the low amino acid specificity of cytosolic prolylâ€tRNA synthetase. Plant Journal, 2016, 88, 236-246.	5.7	11
7	The Arabidopsis thaliana adenosine 5â€™-phosphosulfate reductase 2 (AtAPR2) participates in flowering time and glucose response. Journal of Plant Biology, 2015, 58, 128-136.	2.1	2
8	SULTR1;2 in S Nutrient-Status Control in Arabidopsis. Proceedings of the International Plant Sulfur Workshop, 2015, , 81-91.	0.1	0
9	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
10	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
11	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
12	A luciferase-based method for assay of 5â€²-adenylylsulfate reductase. Analytical Biochemistry, 2014, 460, 22-28.	2.4	1
13	Two Arabidopsis thaliana dihydrodipicolinate synthases, DHDPS1 and DHDPS2, are unequally redundant. Functional Plant Biology, 2012, 39, 1058.	2.1	15
14	Dual diaminopimelate biosynthesis pathways in Bacteroides fragilis and Clostridium thermocellum. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1162-1168.	2.3	17
15	Interaction Domain on Thioredoxin for Pseudomonas aeruginosa 5â€²-Adenylylsulfate Reductase. Journal of Biological Chemistry, 2009, 284, 31181-31189.	3.4	4
16	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
17	Introduction to Sulfur Metabolism in Phototrophic Organisms. Advances in Photosynthesis and Respiration, 2008, , 1-14.	1.0	5
18	Phylogenetic Analysis of Sulfate Assimilation and Cysteine Biosynthesis in Phototrophic Organisms. Advances in Photosynthesis and Respiration, 2008, , 31-58.	1.0	14

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19	Interactions of 5â€²â€Adenylylphosphosulfate Reductase from Pseudomonas aeruginosa with substrates. FASEB Journal, 2008, 22, 341-341.	0.5	0
20	Genetic Dissection of Histidine Biosynthesis in Arabidopsis. Plant Physiology, 2007, 144, 890-903.	4.8	71
21	Localization of Members of the Î³-Glutamyl Transpeptidase Family Identifies Sites of Glutathione and Glutathione S-Conjugate Hydrolysis. Plant Physiology, 2007, 144, 1715-1732.	4.8	98
22	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
23	Properties of the Cysteine Residues and the Ironâˆ’Sulfur Cluster of the Assimilatory 5â€˜-Adenylyl Sulfate Reductase from Enteromorpha intestinalis. Biochemistry, 2006, 45, 5010-5018.	2.5	14
24	An ll-Diaminopimelate Aminotransferase Defines a Novel Variant of the Lysine Biosynthesis Pathway in Plants. Plant Physiology, 2006, 140, 292-301.	4.8	115
25	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
26	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
27	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
28	Analysis of sulfur and selenium assimilation in Astragalus plants with varying capacities to accumulate selenium. Plant Journal, 2005, 42, 785-797.	5.7	178
29	The role of 5â€²-adenylylsulfate reductase in controlling sulfate reduction in plants. Photosynthesis Research, 2005, 86, 309-323.	2.9	80
30	Sulfur metabolism in plants and algae -- a case study for an integrative scientific approach. Photosynthesis Research, 2005, 86, 297-298.	2.9	10
31	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
32	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
33	Properties of the Cysteine Residues and Ironâˆ’Sulfur Cluster of the Assimilatory 5â€˜-Adenylyl Sulfate Reductase fromPseudomonas aeruginosaâ€. Biochemistry, 2004, 43, 13478-13486.	2.5	40
34	Constitutive Overexpression of Cystathionine Î³-Synthase in Arabidopsis Leads to Accumulation of Soluble Methionine and<i>S</i>-Methylmethionine. Plant Physiology, 2002, 128, 95-107.	4.8	100
35	The sac Mutants of Chlamydomonas reinhardtii Reveal Transcriptional and Posttranscriptional Control of Cysteine Biosynthesis. Plant Physiology, 2002, 130, 2076-2084.	4.8	77
36	Sulfate Metabolism. The Arabidopsis Book, 2002, 1, e0017.	0.5	64

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37	Sulfate reduction is increased in transgenic Arabidopsis thaliana expressing 5â€²-adenylylsulfate reductase from Pseudomonas aeruginosa. Plant Journal, 2002, 32, 879-889.	5.7	112
38	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
39	Regulation of the Plant-type 5â€˜-Adenylyl Sulfate Reductase by Oxidative Stress,. Biochemistry, 2001, 40, 9040-9048.	2.5	155
40	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
41	Characterization of Sulfate Assimilation in Marine Algae Focusing on the Enzyme 5â€²-Adenylylsulfate Reductase1. Plant Physiology, 2000, 123, 1087-1096.	4.8	61
42	Differential Subcellular Localization and Expression of ATP Sulfurylase and 5â€²-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
43	Functional characterization of a gene encoding a fourth ATP sulfurylase isoform from Arabidopsis thaliana. Gene, 2000, 248, 51-58.	2.2	80
44	Repression of cystathionine Î³-synthase in Arabidopsis thaliana produces partial methionine auxotrophy and developmental abnormalities. Plant Science, 2000, 151, 9-18.	3.6	74
45	PATHWAYS ANDREGULATION OFSULFURMETABOLISMREVEALEDTHROUGHMOLECULAR ANDGENETICSTUDIES. Annual Review of Plant Biology, 2000, 51, 141-165.	14.3	591
46	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
47	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
48	Sulfate Transport and Assimilation in Plants1. Plant Physiology, 1999, 120, 637-644.	4.8	456
49	Evidence for Autoregulation of Cystathionine -Synthase mRNA Stability in Arabidopsis. Science, 1999, 286, 1371-1374.	12.6	181
50	The affect of cadmium on sulfate assimilation enzymes in Brassica juncea. Plant Science, 1999, 141, 201-207.	3.6	114
51	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
52	Analysis of the isopentenyl diphosphate isomerase gene family from Arabidopsis thaliana. Plant Molecular Biology, 1998, 36, 323-328.	3.9	60
53	Cloning and bacterial expression of adenosine-5â€²-triphosphate sulfurylase from the enteric protozoan parasite Entamoeba histolytica. BBA - Proteins and Proteomics, 1998, 1429, 284-291.	2.1	11
54	Plant sulfur metabolism â€" the reduction of sulfate to sulfite. Current Opinion in Plant Biology, 1998, 1, 240-244.	7.1	79

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55	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
56	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
57	Siroheme Biosynthesis in Higher Plants. Journal of Biological Chemistry, 1997, 272, 2744-2752.	3.4	52
58	A new route for synthesis of dimethylsulphoniopropionate in marine algae. Nature, 1997, 387, 891-894.	27.8	189
59	Molecular genetics of sulfate assimilation in plants. Physiologia Plantarum, 1996, 97, 411-419.	5.2	79
60	Cloning and analysis of the gene for cystathionine ?-synthase from Arabidopsis thaliana. Plant Molecular Biology, 1996, 32, 1117-1124.	3.9	65
61	A multifunctional Urechis caupo protein, PAPS synthetase, has both ATP sulfurylase and APS kinase activities. Gene, 1995, 165, 243-248.	2.2	60
62	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
63	Is GRP78 a Sensor of Cellular Secretory Activity?. , 1992, 14, 125-137.		1
64	Calcium-dependent autophosphorylation of the glucose-regulated protein, Grp78. Archives of Biochemistry and Biophysics, 1991, 289, 256-261.	3.0	44