

RÃ¼diger Hell

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5381469/publications.pdf>

Version: 2024-02-01

163
papers

14,285
citations

12303

69
h-index

22102

113
g-index

178
all docs

178
docs citations

178
times ranked

12570
citing authors

#	ARTICLE	IF	CITATIONS
1	Accumulation of acetaldehyde in aldh2.1 zebrafish causes increased retinal angiogenesis and impaired glucose metabolism. <i>Redox Biology</i> , 2022, 50, 102249.	3.9	9
2	Cotranslational N-degron masking by acetylation promotes proteome stability in plants. <i>Nature Communications</i> , 2022, 13, 810.	5.8	29
3	Deep Metabolic Profiling Assessment of Tissue Extraction Protocols for Three Model Organisms. <i>Frontiers in Chemistry</i> , 2022, 10, 869732.	1.8	6
4	HYPK promotes the activity of the ϵ -acetyltransferase A complex to determine proteostasis of nonAc-X ² /N-degron-containing proteins. <i>Science Advances</i> , 2022, 8, .	4.7	11
5	The plant TOR kinase tunes autophagy and meristem activity for nutrient stress-induced developmental plasticity. <i>Plant Cell</i> , 2022, 34, 3814-3829.	3.1	14
6	Abrogating GPT2 in triple-negative breast cancer inhibits tumor growth and promotes autophagy. <i>International Journal of Cancer</i> , 2021, 148, 1993-2009.	2.3	14
7	A molecular switch in sulfur metabolism to reduce arsenic and enrich selenium in rice grain. <i>Nature Communications</i> , 2021, 12, 1392.	5.8	48
8	The function of glutaredoxin GRXS15 is required for lipoyl-dependent dehydrogenases in mitochondria. <i>Plant Physiology</i> , 2021, 186, 1507-1525.	2.3	12
9	Metabolite Profiling in Arabidopsisthaliana with Moderately Impaired Photorespiration Reveals Novel Metabolic Links and Compensatory Mechanisms of Photorespiration. <i>Metabolites</i> , 2021, 11, 391.	1.3	17
10	GSNOR Contributes to Demethylation and Expression of Transposable Elements and Stress-Responsive Genes. <i>Antioxidants</i> , 2021, 10, 1128.	2.2	10
11	Reduced Acrolein Detoxification in akr1a1a Zebrafish Mutants Causes Impaired Insulin Receptor Signaling and Microvascular Alterations. <i>Advanced Science</i> , 2021, 8, e2101281.	5.6	11
12	Micrografting Provides Evidence for Systemic Regulation of Sulfur Metabolism between Shoot and Root. <i>Plants</i> , 2021, 10, 1729.	1.6	1
13	A Novel UPLC-MS/MS Method Identifies Organ-Specific Dipeptide Profiles. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9979.	1.8	7
14	A Low Level of NaCl Stimulates Plant Growth by Improving Carbon and Sulfur Assimilation in Arabidopsis thaliana. <i>Plants</i> , 2021, 10, 2138.	1.6	7
15	Disruption of the ϵ -Acetyltransferase NatB Causes Sensitivity to Reductive Stress in Arabidopsis thaliana. <i>Frontiers in Plant Science</i> , 2021, 12, 799954.	1.7	6
16	Prognostic associations of circulating phytoestrogens and biomarker changes in long-term survivors of postmenopausal breast cancer. <i>Nutrition and Cancer</i> , 2020, 72, 1155-1169.	0.9	8
17	Redox-mediated kick-start of mitochondrial energy metabolism drives resource-efficient seed germination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 741-751.	3.3	96
18	NatB-Mediated N-Terminal Acetylation Affects Growth and Biotic Stress Responses. <i>Plant Physiology</i> , 2020, 182, 792-806.	2.3	44

#	ARTICLE	IF	CITATIONS
19	Elevated 4-hydroxynonenal induces hyperglycaemia via Aldh3a1 loss in zebrafish and associates with diabetes progression in humans. <i>Redox Biology</i> , 2020, 37, 101723.	3.9	36
20	Regulation of Gluconeogenesis by Aldo-keto-reductase 1a1b in Zebrafish. <i>IScience</i> , 2020, 23, 101763.	1.9	9
21	NAA50 Is an Enzymatically Active ϵ -Acetyltransferase That Is Crucial for Development and Regulation of Stress Responses. <i>Plant Physiology</i> , 2020, 183, 1502-1516.	2.3	23
22	The Arabidopsis ϵ -acetyltransferase NAA60 locates to the plasma membrane and is vital for the high salt stress response. <i>New Phytologist</i> , 2020, 228, 554-569.	3.5	25
23	Sulfur metabolic engineering enhances cadmium stress tolerance and root to shoot iron translocation in <i>Brassica napus</i> L. <i>Plant Physiology and Biochemistry</i> , 2020, 152, 32-43.	2.8	17
24	Dual lysine and N-terminal acetyltransferases reveal the complexity underpinning protein acetylation. <i>Molecular Systems Biology</i> , 2020, 16, e9464.	3.2	53
25	Impact of pulsed UV-B stress exposure on plant performance: How recovery periods stimulate secondary metabolism while reducing adaptive growth attenuation. <i>Plant, Cell and Environment</i> , 2019, 42, 801-814.	2.8	25
26	The <i>Arabidopsis</i> THADA homologue modulates TOR activity and cold acclimation. <i>Plant Biology</i> , 2019, 21, 77-83.	1.8	31
27	<i>Arabidopsis</i> glutathione reductase 2 is indispensable in plastids, while mitochondrial glutathione is safeguarded by additional reduction and transport systems. <i>New Phytologist</i> , 2019, 224, 1569-1584.	3.5	57
28	<i>Staphylococcus aureus</i> Uses the Bacilliredoxin (BrxAB)/Bacillithiol Disulfide Reductase (YpdA) Redox Pathway to Defend Against Oxidative Stress Under Infections. <i>Frontiers in Microbiology</i> , 2019, 10, 1355.	1.5	31
29	The Recovery from Sulfur Starvation is Independent from the mRNA Degradation Initiation Enzyme PARN in <i>Arabidopsis</i> . <i>Plants</i> , 2019, 8, 380.	1.6	4
30	Sulfate-Induced Stomata Closure Requires the Canonical ABA Signal Transduction Machinery. <i>Plants</i> , 2019, 8, 21.	1.6	19
31	Distribution of control in the sulfur assimilation in <i>Arabidopsis thaliana</i> depends on environmental conditions. <i>New Phytologist</i> , 2019, 222, 1392-1404.	3.5	16
32	Serum Concentration of Genistein, Luteolin and Colorectal Cancer Prognosis. <i>Nutrients</i> , 2019, 11, 600.	1.7	13
33	Plant glutathione biosynthesis revisited: redox-mediated activation of glutamylcysteine ligase does not require homo-dimerization. <i>Biochemical Journal</i> , 2019, 476, 1191-1203.	1.7	14
34	SULTR3s Function in Chloroplast Sulfate Uptake and Affect ABA Biosynthesis and the Stress Response. <i>Plant Physiology</i> , 2019, 180, 593-604.	2.3	50
35	Inhibition of Endothelial Notch Signaling Impairs Fatty Acid Transport and Leads to Metabolic and Vascular Remodeling of the Adult Heart. <i>Circulation</i> , 2018, 137, 2592-2608.	1.6	103
36	Obituary and Tribute: Martin Bopp, 1923-2018. <i>Journal of Plant Physiology</i> , 2018, 230, 122-125.	1.6	0

#	ARTICLE	IF	CITATIONS
37	Sulfate is Incorporated into Cysteine to Trigger ABA Production and Stomatal Closure. <i>Plant Cell</i> , 2018, 30, 2973-2987.	3.1	85
38	Glucocorticoid deficiency causes transcriptional and post-transcriptional reprogramming of glutamine metabolism. <i>EBioMedicine</i> , 2018, 36, 376-389.	2.7	12
39	Sulfur Partitioning between Glutathione and Protein Synthesis Determines Plant Growth. <i>Plant Physiology</i> , 2018, 177, 927-937.	2.3	66
40	Strigolactone- and Karrikin-Independent SMXL Proteins Are Central Regulators of Phloem Formation. <i>Current Biology</i> , 2017, 27, 1241-1247.	1.8	117
41	Monitoring global protein thiol-oxidation and protein S-mycothiolation in <i>Mycobacterium smegmatis</i> under hypochlorite stress. <i>Scientific Reports</i> , 2017, 7, 1195.	1.6	47
42	PII Protein-Derived FRET Sensors for Quantification and Live-Cell Imaging of 2-Oxoglutarate. <i>Scientific Reports</i> , 2017, 7, 1437.	1.6	29
43	Drought-Enhanced Xylem Sap Sulfate Closes Stomata by Affecting ALMT12 and Guard Cell ABA Synthesis. <i>Plant Physiology</i> , 2017, 174, 798-814.	2.3	95
44	Apoplastic gamma-glutamyl transferase activity encoded by GGT1 and GGT2 is important for vegetative and generative development. <i>Plant Physiology and Biochemistry</i> , 2017, 115, 44-56.	2.8	17
45	Branched-chain ketoacids secreted by glioblastoma cells via <i>MCT1</i> modulate macrophage phenotype. <i>EMBO Reports</i> , 2017, 18, 2172-2185.	2.0	74
46	Nothing in Biology Makes Sense But in the Light of Redox Regulation. <i>Plant and Cell Physiology</i> , 2017, 58, 1823-1825.	1.5	1
47	The glyceraldehyde-3-phosphate dehydrogenase GapDH of <i>Corynebacterium diphtheriae</i> is redox-controlled by protein S-mycothiolation under oxidative stress. <i>Scientific Reports</i> , 2017, 7, 5020.	1.6	24
48	BCAT1 restricts \pm KG levels in AML stem cells leading to IDHmut-like DNA hypermethylation. <i>Nature</i> , 2017, 551, 384-388.	13.7	261
49	The redox-sensitive module of cyclophilin 20, cysteine peroxidoredoxin and cysteine synthase integrates sulfur metabolism and oxylipin signaling in the high light acclimation response. <i>Plant Journal</i> , 2017, 91, 995-1014.	2.8	31
50	System analysis of metabolism and the transcriptome in <i>Arabidopsis thaliana</i> roots reveals differential co-regulation upon iron, sulfur and potassium deficiency. <i>Plant, Cell and Environment</i> , 2017, 40, 95-107.	2.8	104
51	Nuclear Localised MORE SULPHUR ACCUMULATION1 Epigenetically Regulates Sulphur Homeostasis in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2016, 12, e1006298.	1.5	81
52	Extensive Regulation of Diurnal Transcription and Metabolism by Glucocorticoids. <i>PLoS Genetics</i> , 2016, 12, e1006512.	1.5	44
53	ROS-Mediated Inhibition of S-nitrosoglutathione Reductase Contributes to the Activation of Anti-oxidative Mechanisms. <i>Frontiers in Plant Science</i> , 2016, 7, 1669.	1.7	56
54	Ectopically expressed glutaredoxin ROXY19 negatively regulates the detoxification pathway in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2016, 16, 200.	1.6	30

#	ARTICLE	IF	CITATIONS
55	<scp>MSL</scp>1 is a mechanosensitive ion channel that dissipates mitochondrial membrane potential and maintains redox homeostasis in mitochondria during abiotic stress. <i>Plant Journal</i> , 2016, 88, 809-825.	2.8	82
56	Drought stress in maize causes differential acclimation responses of glutathione and sulfur metabolism in leaves and roots. <i>BMC Plant Biology</i> , 2016, 16, 247.	1.6	92
57	MTHFD1 controls DNA methylation in Arabidopsis. <i>Nature Communications</i> , 2016, 7, 11640.	5.8	61
58	Integration of light and metabolic signals for stem cell activation at the shoot apical meristem. <i>ELife</i> , 2016, 5, .	2.8	158
59	Molecular identification and functional characterization of the first NÎ±â€acetyltransferase in plastids by global acetylome profiling. <i>Proteomics</i> , 2015, 15, 2426-2435.	1.3	92
60	Two N-Terminal Acetyltransferases Antagonistically Regulate the Stability of a Nod-Like Receptor in Arabidopsis. <i>Plant Cell</i> , 2015, 27, 1547-1562.	3.1	102
61	The Role of Compartment-Specific Cysteine Synthesis for Sulfur Homeostasis During H2S Exposure in Arabidopsis. <i>Plant and Cell Physiology</i> , 2015, 56, 358-367.	1.5	56
62	Sulfide Detoxification in Plant Mitochondria. <i>Methods in Enzymology</i> , 2015, 555, 271-286.	0.4	10
63	Characterization of the serine acetyltransferase gene family of <i>Vitis vinifera</i> uncovers differences in regulation of OAS synthesis in woody plants. <i>Frontiers in Plant Science</i> , 2015, 6, 74.	1.7	19
64	Mitochondrial Dihydrolipoyl Dehydrogenase Activity Shapes Photosynthesis and Photorespiration of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2015, 27, 1968-1984.	3.1	139
65	Thiol switches in redox regulation of chloroplasts: balancing redox state, metabolism and oxidative stress. <i>Biological Chemistry</i> , 2015, 396, 483-494.	1.2	40
66	Downregulation of N-terminal acetylation triggers ABA-mediated drought responses in Arabidopsis. <i>Nature Communications</i> , 2015, 6, 7640.	5.8	119
67	Relation between chemotaxis and consumption of amino acids in bacteria. <i>Molecular Microbiology</i> , 2015, 96, 1272-1282.	1.2	121
68	Editorial: Frontiers of Sulfur Metabolism in Plant Growth, Development, and Stress Response. <i>Frontiers in Plant Science</i> , 2015, 6, 1220.	1.7	38
69	Diversity and regulation of ATP sulfurylase in photosynthetic organisms. <i>Frontiers in Plant Science</i> , 2014, 5, 597.	1.7	52
70	Applied Cell Biology of Sulphur and Selenium in Plants. <i>Plant Cell Monographs</i> , 2014, , 247-272.	0.4	2
71	The Mitochondrial Sulfur Dioxygenase ETHYLMALONIC ENCEPHALOPATHY PROTEIN1 Is Required for Amino Acid Catabolism during Carbohydrate Starvation and Embryo Development in Arabidopsis Å Å. <i>Plant Physiology</i> , 2014, 165, 92-104.	2.3	57
72	Evidence for Several Cysteine Transport Mechanisms in the Mitochondrial Membranes of Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2014, 55, 64-73.	1.5	28

#	ARTICLE	IF	CITATIONS
73	Sulfate availability affects <sc>ABA</sc> levels and germination response to <sc>ABA</sc> and salt stress in <i>A</i>r<i>abidopsis thaliana</i>. <i>Plant Journal</i> , 2014, 77, 604-615.	2.8	143
74	Redesign of Genetically Encoded Biosensors for Monitoring Mitochondrial Redox Status in a Broad Range of Model Eukaryotes. <i>Journal of Biomolecular Screening</i> , 2014, 19, 379-386.	2.6	73
75	Metabolic transformations in breast cancer subtypes. <i>Cancer & Metabolism</i> , 2014, 2, .	2.4	3
76	Affinity Purification of O-Acetylserine(thiol)lyase from <i>Chlorella sorokiniana</i> by Recombinant Proteins from <i>Arabidopsis thaliana</i> . <i>Metabolites</i> , 2014, 4, 629-639.	1.3	15
77	The significance of cysteine synthesis for acclimation to high light conditions. <i>Frontiers in Plant Science</i> , 2014, 5, 776.	1.7	20
78	Micronutrient Use Efficiency â€œ Cell Biology of Iron and Its Metabolic Interactions in Plants. <i>Plant Ecophysiology</i> , 2014, , 133-152.	1.5	3
79	<sc>SULTR</sc>3;1 is a chloroplastâ€localized sulfate transporter in <i>Arabidopsis thaliana</i>. <i>Plant Journal</i> , 2013, 73, 607-616.	2.8	146
80	Methionine salvage and <i>S</i>-adenosylmethionine: essential links between sulfur, ethylene and polyamine biosynthesis. <i>Biochemical Journal</i> , 2013, 451, 145-154.	1.7	298
81	Successful Fertilization Requires the Presence of at Least One Major O-Acetylserine(thiol)lyase for Cysteine Synthesis in Pollen of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 163, 959-972.	2.3	30
82	Toward new perspectives on the interaction of iron and sulfur metabolism in plants. <i>Frontiers in Plant Science</i> , 2013, 4, 357.	1.7	79
83	Cysteine biosynthesis, in concert with a novel mechanism, contributes to sulfide detoxification in mitochondria of <i>Arabidopsis thaliana</i> . <i>Biochemical Journal</i> , 2012, 445, 275-283.	1.7	43
84	Recycling of Methylthioadenosine Is Essential for Normal Vascular Development and Reproduction in <i>Arabidopsis</i> Â Â. <i>Plant Physiology</i> , 2012, 158, 1728-1744.	2.3	35
85	Subcellular Compartmentation of Cysteine Synthesis in Plants â€œ One Step More. , 2012, , 71-75.		0
86	Mitochondrial Cysteine Synthase Complex Regulates O-Acetylserine Biosynthesis in Plants. <i>Journal of Biological Chemistry</i> , 2012, 287, 27941-27947.	1.6	64
87	Vacuolar Nicotianamine Has Critical and Distinct Roles under Iron Deficiency and for Zinc Sequestration in <i>Arabidopsis</i>. <i>Plant Cell</i> , 2012, 24, 724-737.	3.1	277
88	Improved sulfur nutrition provides the basis for enhanced production of sulfur-containing defense compounds in <i>Arabidopsis thaliana</i> upon inoculation with <i>Alternaria brassicicola</i> . <i>Journal of Plant Physiology</i> , 2012, 169, 740-743.	1.6	17
89	Transcriptome profiling of genes differentially modulated by sulfur and chromium identifies potential targets for phytoremediation and reveals a complex Sâ€Cr interplay on sulfate transport regulation in <i>B. juncea</i> . <i>Journal of Hazardous Materials</i> , 2012, 239-240, 192-205.	6.5	36
90	Targeted Systems Biology Profiling of Tomato Fruit Reveals Coordination of the Yang Cycle and a Distinct Regulation of Ethylene Biosynthesis during Postclimacteric Ripening Â Â Â. <i>Plant Physiology</i> , 2012, 160, 1498-1514.	2.3	104

#	ARTICLE	IF	CITATIONS
91	Molecular Evolution of the Genomic RNA of Apple Stem Grooving Capillovirus. <i>Journal of Molecular Evolution</i> , 2012, 75, 92-101.	0.8	12
92	Effects of fou8/fry1 Mutation on Sulfur Metabolism: Is Decreased Internal Sulfate the Trigger of Sulfate Starvation Response?. <i>PLoS ONE</i> , 2012, 7, e39425.	1.1	57
93	The relevance of compartmentation for cysteine synthesis in phototrophic organisms. <i>Protoplasma</i> , 2012, 249, 147-155.	1.0	22
94	Selenate and molybdate alter sulfate transport and assimilation in <i>Brassica juncea</i> L. Czern.: Implications for phytoremediation. <i>Environmental and Experimental Botany</i> , 2012, 75, 41-51.	2.0	64
95	Allosterically Gated Enzyme Dynamics in the Cysteine Synthase Complex Regulate Cysteine Biosynthesis in <i>Arabidopsis thaliana</i> . <i>Structure</i> , 2012, 20, 292-302.	1.6	29
96	Cysteine Synthesis in the Chloroplast Is Not Required for Resistance of <i>Arabidopsis thaliana</i> to H ₂ S Fumigation. , 2012, , 217-221.		0
97	The Role of Cyclophilin CYP20-3 in Activation of Chloroplast Serine Acetyltransferase Under High Light Stress. , 2012, , 265-269.		0
98	Evidence for a SAL1-PAP Chloroplast Retrograde Pathway That Functions in Drought and High Light Signaling in <i>Arabidopsis</i> . . . <i>Plant Cell</i> , 2011, 23, 3992-4012.	3.1	473
99	Sulfur Assimilation in Photosynthetic Organisms: Molecular Functions and Regulations of Transporters and Assimilatory Enzymes. <i>Annual Review of Plant Biology</i> , 2011, 62, 157-184.	8.6	720
100	Generation of Se-enriched broccoli as functional food: impact of Se fertilization on S metabolism. <i>Plant, Cell and Environment</i> , 2011, 34, 192-207.	2.8	59
101	Molecular Biology, Biochemistry and Cellular Physiology of Cysteine Metabolism in <i>Arabidopsis thaliana</i> . <i>The Arabidopsis Book</i> , 2011, 9, e0154.	0.5	98
102	Plant homologs of the <i>Plasmodium falciparum</i> chloroquine-resistance transporter, PfCRT, are required for glutathione homeostasis and stress responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2331-2336.	3.3	164
103	Enzymes of cysteine synthesis show extensive and conserved modifications patterns that include N-terminal acetylation. <i>Amino Acids</i> , 2010, 39, 1077-1086.	1.2	22
104	Sultr4;1 mutant seeds of <i>Arabidopsis</i> have an enhanced sulphate content and modified proteome suggesting metabolic adaptations to altered sulphate compartmentalization. <i>BMC Plant Biology</i> , 2010, 10, 78.	1.6	37
105	Inhibition of 5- TM -methylthioadenosine metabolism in the Yang cycle alters polyamine levels, and impairs seedling growth and reproduction in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2010, 62, no-no.	2.8	47
106	The Seed Composition of <i>Arabidopsis</i> Mutants for the Group 3 Sulfate Transporters Indicates a Role in Sulfate Translocation within Developing Seeds. <i>Plant Physiology</i> , 2010, 154, 913-926.	2.3	61
107	Sulfite Reductase Defines a Newly Discovered Bottleneck for Assimilatory Sulfate Reduction and Is Essential for Growth and Development in <i>Arabidopsis thaliana</i> . . . <i>Plant Cell</i> , 2010, 22, 1216-1231.	3.1	163
108	Overexpression of serine acetyltransferase produced large increases in O-acetylserine and free cysteine in developing seeds of a grain legume. <i>Journal of Experimental Botany</i> , 2010, 61, 721-733.	2.4	62

#	ARTICLE	IF	CITATIONS
109	Structure and Function of the Hetero-oligomeric Cysteine Synthase Complex in Plants*. Journal of Biological Chemistry, 2010, 285, 32810-32817.	1.6	76
110	Cellular Biology of Sulfur and Its Functions in Plants. Plant Cell Monographs, 2010, , 243-279.	0.4	11
111	Expression Profiling of Tobacco Leaf Trichomes Identifies Genes for Biotic and Abiotic Stresses. Plant and Cell Physiology, 2010, 51, 1627-1637.	1.5	130
112	The Analysis of Arabidopsis Nicotianamine Synthase Mutants Reveals Functions for Nicotianamine in Seed Iron Loading and Iron Deficiency Responses Å Å Å. Plant Physiology, 2009, 150, 257-271.	2.3	240
113	Dynamic Plastid Redox Signals Integrate Gene Expression and Metabolism to Induce Distinct Metabolic States in Photosynthetic Acclimation in Arabidopsis Å. Plant Cell, 2009, 21, 2715-2732.	3.1	176
114	Disruption of Adenosine-5-Phosphosulfate Kinase in Arabidopsis Reduces Levels of Sulfated Secondary Metabolites. Plant Cell, 2009, 21, 910-927.	3.1	180
115	SAM levels, gene expression of SAM synthetase, methionine synthase and ACC oxidase, and ethylene emission from N. suaveolens flowers. Plant Molecular Biology, 2009, 70, 535-546.	2.0	58
116	The NADPH-dependent thioredoxin system constitutes a functional backup for cytosolic glutathione reductase in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9109-9114.	3.3	259
117	A Mechanistic Model of the Cysteine Synthase Complex. Journal of Molecular Biology, 2009, 386, 37-59.	2.0	73
118	Restricting glutathione biosynthesis to the cytosol is sufficient for normal plant development. Plant Journal, 2008, 53, 999-1012.	2.8	158
119	Confocal imaging of glutathione redox potential in living plant cells. Journal of Microscopy, 2008, 231, 299-316.	0.8	279
120	Metabolism of Cysteine in Plants and Phototrophic Bacteria. Advances in Photosynthesis and Respiration, 2008, , 59-91.	1.0	17
121	Analysis of the Arabidopsis O-Acetylserine(thiol)lyase Gene Family Demonstrates Compartment-Specific Differences in the Regulation of Cysteine Synthesis. Plant Cell, 2008, 20, 168-185.	3.1	206
122	Differential Regulation of the Expression of Two High-Affinity Sulfate Transporters, SULTR1.1 and SULTR1.2, in Arabidopsis Å Å. Plant Physiology, 2008, 147, 897-911.	2.3	153
123	Mitochondrial Serine Acetyltransferase Functions as a Pacemaker of Cysteine Synthesis in Plant Cells Å Å. Plant Physiology, 2008, 148, 1055-1067.	2.3	121
124	Interactions between Chromium and Sulfur Metabolism in Brassica juncea. Journal of Environmental Quality, 2008, 37, 1536-1545.	1.0	90
125	OsMTN encodes a 5-methylthioadenosine nucleosidase that is up-regulated during submergence-induced ethylene synthesis in rice (Oryza sativa L.). Journal of Experimental Botany, 2007, 58, 1505-1514.	2.4	40
126	Dominant-Negative Modification Reveals the Regulatory Function of the Multimeric Cysteine Synthase Protein Complex in Transgenic Tobacco. Plant Cell, 2007, 19, 625-639.	3.1	94

#	ARTICLE	IF	CITATIONS
127	Î³-Glutamyl transpeptidase GGT4 initiates vacuolar degradation of glutathioneS-conjugates in Arabidopsis. FEBS Letters, 2007, 581, 3131-3138.	1.3	102
128	Sulphite oxidase as key enzyme for protecting plants against sulphur dioxide. Plant, Cell and Environment, 2007, 30, 447-455.	2.8	94
129	The role of methionine recycling for ethylene synthesis in Arabidopsis. Plant Journal, 2007, 49, 238-249.	2.8	124
130	Redox-sensitive GFP in <i>Arabidopsis thaliana</i> is a quantitative biosensor for the redox potential of the cellular glutathione redox buffer. Plant Journal, 2007, 52, 973-986.	2.8	420
131	Sulfur-Enhanced Defence: Effects of Sulfur Metabolism, Nitrogen Supply, and Pathogen Lifestyle. Plant Biology, 2007, 9, 608-619.	1.8	69
132	Chromate Differentially Affects the Expression of a High-Affinity Sulfate Transporter and Isoforms of Components of the Sulfate Assimilatory Pathway in <i>Zea mays</i> (L.). Plant Biology, 2007, 9, 662-671.	1.8	34
133	Sulfur in biotic interactions of plants. Plant Ecophysiology, 2007, , 197-224.	1.5	9
134	Vacuolar sequestration of glutathioneS-conjugates outcompetes a possible degradation of the glutathione moiety by phytochelatin synthase. FEBS Letters, 2006, 580, 6384-6390.	1.3	61
135	Functional analysis of the cysteine synthase protein complex from plants: Structural, biochemical and regulatory properties. Journal of Plant Physiology, 2006, 163, 273-286.	1.6	184
136	Sulfur and phytoplankton: acquisition, metabolism and impact on the environment. New Phytologist, 2005, 166, 371-382.	3.5	119
137	Ectopic expression of nicotianamine synthase genes results in improved iron accumulation and increased nickel tolerance in transgenic tobacco. Plant, Cell and Environment, 2005, 28, 365-374.	2.8	138
138	Expression profiling of metabolic genes in response to methyl jasmonate reveals regulation of genes of primary and secondary sulfur-related pathways in Arabidopsis thaliana. Photosynthesis Research, 2005, 86, 491-508.	1.6	111
139	Glutathione homeostasis and redox-regulation by sulfhydryl groups. Photosynthesis Research, 2005, 86, 435-457.	1.6	209
140	Retrograde Plastid Redox Signals in the Expression of Nuclear Genes for Chloroplast Proteins of Arabidopsis thaliana. Journal of Biological Chemistry, 2005, 280, 5318-5328.	1.6	203
141	Characterization and Expression Analysis of a Serine Acetyltransferase Gene Family Involved in a Key Step of the Sulfur Assimilation Pathway in Arabidopsis. Plant Physiology, 2005, 137, 220-230.	2.3	127
142	Regulation of Sulfate Uptake and Expression of Sulfate Transporter Genes in Brassica oleracea as Affected by Atmospheric H ₂ S and Pedospheric Sulfate Nutrition. Plant Physiology, 2004, 136, 3396-3408.	2.3	191
143	Analysis of Sequence, Map Position, and Gene Expression Reveals Conserved Essential Genes for Iron Uptake in Arabidopsis and Tomato. Plant Physiology, 2004, 136, 4169-4183.	2.3	80
144	O-acetylserine (thiol) lyase: an enigmatic enzyme of plant cysteine biosynthesis revisited in Arabidopsis thaliana. Journal of Experimental Botany, 2004, 55, 1785-1798.	2.4	176

#	ARTICLE	IF	CITATIONS
145	Regulation of sulphate assimilation by glutathione in poplars (<i>Populus tremulax</i> P. <i>alba</i>) of wild type and overexpressing Å-glutamylcysteine synthetase in the cytosol. <i>Journal of Experimental Botany</i> , 2004, 55, 837-845.	2.4	66
146	Iron uptake, trafficking and homeostasis in plants. <i>Planta</i> , 2003, 216, 541-551.	1.6	546
147	Production of cysteine for bacterial and plant biotechnology: Application of cysteine feedback-insensitive isoforms of serine acetyltransferase. <i>Amino Acids</i> , 2003, 24, 195-203.	1.2	88
148	Synthesis and proof-of-function of a [14 C]-labelled form of the plant iron chelator nicotianamine using recombinant nicotianamine synthase from barley. <i>Physiologia Plantarum</i> , 2003, 118, 430-438.	2.6	6
149	Use of Biomolecular Interaction Analysis to Elucidate the Regulatory Mechanism of the Cysteine Synthase Complex from <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 30629-30634.	1.6	97
150	A Metal-binding Member of the Late Embryogenesis Abundant Protein Family Transports Iron in the Phloem of <i>Ricinus communis</i> L.. <i>Journal of Biological Chemistry</i> , 2002, 277, 25062-25069.	1.6	209
151	Molecular and biochemical analysis of the enzymes of cysteine biosynthesis in the plant <i>Arabidopsis thaliana</i> . <i>Amino Acids</i> , 2002, 22, 245-257.	1.2	103
152	The cysteine synthase complex from plants. <i>FEBS Journal</i> , 2001, 268, 686-693.	0.2	106
153	Plant concepts for mineral acquisition and allocation. <i>Current Opinion in Biotechnology</i> , 2001, 12, 161-168.	3.3	99
154	Strategies for the Allocation of Resources under Sulfur Limitation in the Green Alga <i>Dunaliella salina</i> . <i>Plant Physiology</i> , 2000, 124, 857-864.	2.3	91
155	Genomic and functional characterization of the <i>oas</i> gene family encoding O-acetylserine (thiol) lyases, enzymes catalyzing the final step in cysteine biosynthesis in <i>Arabidopsis thaliana</i> . <i>Gene</i> , 2000, 253, 237-247.	1.0	125
156	Isolation and characterization of a gene for assimilatory sulfite reductase from <i>Arabidopsis thaliana</i> . <i>Gene</i> , 1998, 212, 147-153.	1.0	68
157	Molecular physiology of plant sulfur metabolism. <i>Planta</i> , 1997, 202, 138-148.	1.6	303
158	Cysteine synthesis in plants: protein-protein interactions of serine acetyltransferase from <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 1997, 11, 251-262.	2.8	142
159	Cysteine biosynthesis in plants: isolation and functional identification of a cDNA encoding a serine acetyltransferase from <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 1995, 358, 43-47.	1.3	38
160	Isolation and characterization of two cDNAs encoding for compartment specific isoforms of O-acetylserine (thiol) lyase from <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 1994, 351, 257-262.	1.3	75
161	Å-Glutamylcysteine synthetase in higher plants: catalytic properties and subcellular localization. <i>Planta</i> , 1990, 180, 603-612.	1.6	236
162	Glutathione synthetase in tobacco suspension cultures: catalytic properties and localization. <i>Physiologia Plantarum</i> , 1988, 72, 70-76.	2.6	100

#	ARTICLE	IF	CITATIONS
163	Discriminative Long-Distance Transport of Selenate and Selenite Triggers Glutathione Oxidation in Specific Subcellular Compartments of Root and Shoot Cells in Arabidopsis. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	1