

Cecilia Gotor

List of Publications by Year in descending order

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93
papers

12,056
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53794

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all docs

97
docs citations

97
times ranked

18613
citing authors

#	ARTICLE	IF	CITATIONS
1	Persulfidation is the mechanism underlying sulfide-signaling of autophagy. <i>Autophagy</i> , 2022, 18, 695-697.	9.1	11
2	Hydrogen Sulfide: A Key Role in Autophagy Regulation from Plants to Mammalians. <i>Antioxidants</i> , 2022, 11, 327.	5.1	8
3	Hydroxynitrile lyase defends <i>Arabidopsis</i> against <i>Tetranychus urticae</i> . <i>Plant Physiology</i> , 2022, 189, 2244-2258.	4.8	9
4	Effect of cadmium in the microalga <i>Chlorella sorokiniana</i> : A proteomic study. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111301.	6.0	44
5	Hydrogen sulfide, a signaling molecule in plant stress responses. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 146-160.	8.5	114
6	H ₂ S action in plant life cycle. <i>Plant Growth Regulation</i> , 2021, 94, 1-9.	3.4	16
7	Mutation in <i>Arabidopsis</i> β -cyanoalanine synthase overcomes NADPH oxidase action in response to pathogens. <i>Journal of Experimental Botany</i> , 2021, 72, 4535-4547.	4.8	8
8	Label-Free Quantitative Proteomic Analysis of Nitrogen Starvation in <i>Arabidopsis</i> Root Reveals New Aspects of H ₂ S Signaling by Protein Persulfidation. <i>Antioxidants</i> , 2021, 10, 508.	5.1	34
9	Biochemical Characterization of the Amylase Activity from the New Haloarchaeal Strain <i>Haloarcula</i> sp. HS Isolated in the Odiel Marshlands. <i>Biology</i> , 2021, 10, 337.	2.8	9
10	Persulfidation of ATG18a regulates autophagy under ER stress in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	50
11	Hydrogen sulfide-linked persulfidation of ABI4 controls ABA responses through the transactivation of MAPKKK18 in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2021, 14, 921-936.	8.3	67
12	Hydrogen sulfide signaling in plant adaptations to adverse conditions: molecular mechanisms. <i>Journal of Experimental Botany</i> , 2021, 72, 5893-5904.	4.8	55
13	Activation of Endogenous H ₂ S Biosynthesis or Supplementation with Exogenous H ₂ S Enhances Adipose Tissue Adipogenesis and Preserves Adipocyte Physiology in Humans. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 319-340.	5.4	18
14	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (edition	9.1	1,430
15	Abscisic acid-triggered guard cell β -cysteine desulfhydrase function and in situ hydrogen sulfide production contributes to heme oxygenase-modulated stomatal closure. <i>Plant, Cell and Environment</i> , 2020, 43, 624-636.	5.7	57
16	Abscisic Acid-Triggered Persulfidation of the Cys Protease ATG4 Mediates Regulation of Autophagy by Sulfide. <i>Plant Cell</i> , 2020, 32, 3902-3920.	6.6	68
17	Hydrogen Sulfide: From a Toxic Molecule to a Key Molecule of Cell Life. <i>Antioxidants</i> , 2020, 9, 621.	5.1	83
18	Current approaches for detection of hydrogen sulfide and persulfidation in biological systems. <i>Plant Physiology and Biochemistry</i> , 2020, 155, 367-373.	5.8	20

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19	Dataset for proteomic analysis of <i>Chlorella sorokiniana</i> cells under cadmium stress. <i>Data in Brief</i> , 2020, 33, 106544.	1.0	0
20	Persulfidation-based Modification of Cysteine Desulfhydrase and the NADPH Oxidase RBOHD Controls Guard Cell Abscisic Acid Signaling. <i>Plant Cell</i> , 2020, 32, 1000-1017.	6.6	183
21	Multilevel Regulation of Peroxisomal Proteome by Post-Translational Modifications. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4881.	4.1	38
22	Signaling by hydrogen sulfide and cyanide through post-translational modification. <i>Journal of Experimental Botany</i> , 2019, 70, 4251-4265.	4.8	116
23	Cadmium induces reactive oxygen species-dependent pexophagy in <i>Arabidopsis</i> leaves. <i>Plant, Cell and Environment</i> , 2019, 42, 2696-2714.	5.7	30
24	HCN Regulates Cellular Processes through Posttranslational Modification of Proteins by S-cyanylation. <i>Plant Physiology</i> , 2019, 179, 107-123.	4.8	43
25	½-Cyanoalanine Synthase Action in Root Hair Elongation is Exerted at Early Steps of the Root Hair Elongation Pathway and is Independent of Direct Cyanide Inactivation of NADPH Oxidase. <i>Plant and Cell Physiology</i> , 2018, 59, 1072-1083.	3.1	27
26	Hydrogen Sulfide Signaling in Plants: Emerging Roles of Protein Persulfidation. <i>Frontiers in Plant Science</i> , 2018, 9, 1369.	3.6	205
27	Role of mitochondrial cyanide detoxification in <i>Arabidopsis</i> root hair development. <i>Plant Signaling and Behavior</i> , 2018, 13, e1537699.	2.4	10
28	Hydrogen Sulfide Regulates the Cytosolic/Nuclear Partitioning of Glyceraldehyde-3-Phosphate Dehydrogenase by Enhancing its Nuclear Localization. <i>Plant and Cell Physiology</i> , 2017, 58, 983-992.	3.1	78
29	Persulfidation proteome reveals the regulation of protein function by hydrogen sulfide in diverse biological processes in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2017, 68, 4915-4927.	4.8	233
30	Negative regulation of autophagy by sulfide in <i>Arabidopsis thaliana</i> is independent of reactive oxygen species. <i>Plant Physiology</i> , 2016, 171, pp.00110.2016.	4.8	50
31	Advances in Plant Sulfur Metabolism and Signaling. <i>Progress in Botany Fortschritte Der Botanik</i> , 2016, , 45-66.	0.3	1
32	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
33	Regulation of Autophagy by Hydrogen Sulfide. <i>Signaling and Communication in Plants</i> , 2016, , 53-75.	0.7	2
34	S-Sulfhydration: A Cysteine Posttranslational Modification in Plant Systems. <i>Plant Physiology</i> , 2015, 168, 334-342.	4.8	247
35	Signaling in the plant cytosol: cysteine or sulfide?. <i>Amino Acids</i> , 2015, 47, 2155-2164.	2.7	79
36	Assessing the transcriptional regulation of L-cysteine desulfhydrase 1 in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 683.	3.6	18

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37	Beyond toxicity. <i>Plant Signaling and Behavior</i> , 2014, 9, e27612.	2.4	19
38	The <i>TRANSPLANTA</i> collection of <i>A</i> rabidopsis lines: a resource for functional analysis of transcription factors based on their conditional overexpression. <i>Plant Journal</i> , 2014, 77, 944-953.	5.7	104
39	Cysteine and Cysteine-Related Signaling Pathways in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2014, 7, 264-276.	8.3	223
40	Hydrogen Sulfide Generated by <i>I</i> -Cysteine Desulhydrase Acts Upstream of Nitric Oxide to Modulate Abscisic Acid-Dependent Stomatal Closure $\hat{\hat{A}}$. <i>Plant Physiology</i> , 2014, 166, 2065-2076.	4.8	238
41	Sulfide as a signaling molecule in autophagy. <i>Autophagy</i> , 2013, 9, 609-611.	9.1	68
42	Transient Transcriptional Regulation of the CYS-C1 Gene and Cyanide Accumulation upon Pathogen Infection in the Plant Immune Response $\hat{\hat{A}}$. <i>Plant Physiology</i> , 2013, 162, 2015-2027.	4.8	39
43	L-Cysteine Desulhydrase 1 modulates the generation of the signaling molecule sulfide in plant cytosol. <i>Plant Signaling and Behavior</i> , 2013, 8, e24007.	2.4	54
44	S-sulfocysteine synthase function in sensing chloroplast redox status. <i>Plant Signaling and Behavior</i> , 2013, 8, e23313.	2.4	17
45	Photosynthetic Adaptation to Length of Day Is Dependent on <i>S</i> -Sulfocysteine Synthase Activity in the Thylakoid Lumen $\hat{\hat{A}}$. <i>Plant Physiology</i> , 2012, 160, 274-288.	4.8	38
46	Cysteine-Generated Sulfide in the Cytosol Negatively Regulates Autophagy and Modulates the Transcriptional Profile in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 4621-4634.	6.6	188
47	Mitochondrial Sulfide Detoxification Requires a Functional Isoform O-Acetylserine(thiol)lyase C in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2012, 5, 1217-1226.	8.3	55
48	Cysteine homeostasis plays an essential role in plant immunity. <i>New Phytologist</i> , 2012, 193, 165-177.	7.3	153
49	Inhibition of <i>Arabidopsis</i> O-Acetylserine(thiol)lyase A1 by Tyrosine Nitration. <i>Journal of Biological Chemistry</i> , 2011, 286, 578-586.	3.4	58
50	Impact of sulfur starvation on cysteine biosynthesis in T-DNA mutants deficient for compartment-specific serine-acetyltransferase. <i>Amino Acids</i> , 2010, 39, 1029-1042.	2.7	19
51	Mitochondrial $\hat{2}$ -Cyanoalanine Synthase Is Essential for Root Hair Formation in <i>Arabidopsis thaliana</i> $\hat{\hat{A}}$. <i>Plant Cell</i> , 2010, 22, 3268-3279.	6.6	110
52	<i>Arabidopsis</i> $\hat{\hat{A}}$ <i>S</i> -Sulfocysteine Synthase Activity Is Essential for Chloroplast Function and Long-Day Light-Dependent Redox Control. <i>Plant Cell</i> , 2010, 22, 403-416.	6.6	79
53	An <i>O</i> -Acetylserine(thiol)lyase Homolog with <i>I</i> -Cysteine Desulhydrase Activity Regulates Cysteine Homeostasis in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 152, 656-669.	4.8	315
54	Low abundance does not mean less importance in cysteine metabolism. <i>Plant Signaling and Behavior</i> , 2010, 5, 1028-1030.	2.4	28

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55	Analysis of cytosolic and plastidic serine acetyltransferase mutants and subcellular metabolite distributions suggests interplay of the cellular compartments for cysteine biosynthesis in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 349-367.	5.7	139
56	Implications of cysteine metabolism in the heavy metal response in <i>Trichoderma harzianum</i> and in three <i>Fusarium</i> species. <i>Chemosphere</i> , 2009, 76, 48-54.	8.2	33
57	Knocking Out Cytosolic Cysteine Synthesis Compromises the Antioxidant Capacity of the Cytosol to Maintain Discrete Concentrations of Hydrogen Peroxide in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008, 147, 562-572.	4.8	92
58	Cytosolic cysteine in redox signaling. <i>Plant Signaling and Behavior</i> , 2008, 3, 880-881.	2.4	21
59	Analysis of Cytosolic and Plastidic Serine Acetyltransferase Mutants and Subcellular Metabolite Distributions Suggests Interplay of the Cellular Compartments for Cysteine Biosynthesis in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2008, 32, 349-67.	5.7	69
60	Temperature-dependent endogenous oxygen concentration regulates microsomal oleate desaturase in developing sunflower seeds. <i>Journal of Experimental Botany</i> , 2007, 58, 3171-3181.	4.8	87
61	Molecular links between metals in the environment and plant sulfur metabolism. <i>Plant Ecophysiology</i> , 2007, , 169-195.	1.5	9
62	Evaluation of the Metal Phytoextraction Potential of Crop Legumes. Regulation of the Expression of O-Acetylserine (Thiol)Lyase under Metal Stress. <i>Plant Biology</i> , 2007, 9, 672-681.	3.8	45
63	Leaf hairs influence phytopathogenic fungus infection and confer an increased resistance when expressing a <i>Trichoderma</i> β -1,3-glucanase. <i>Journal of Experimental Botany</i> , 2006, 57, 3911-3920.	4.8	76
64	A versatile promoter for the expression of proteins in glandular and non-glandular trichomes from a variety of plants. <i>Journal of Experimental Botany</i> , 2005, 56, 2487-2494.	4.8	32
65	Increased cysteine availability is essential for cadmium tolerance and accumulation in <i>Arabidopsis thaliana</i> . <i>Plant Biotechnology Journal</i> , 2004, 2, 469-476.	8.3	182
66	The serine acetyltransferase gene family in <i>Arabidopsis thaliana</i> and the regulation of its expression by cadmium. <i>Plant Molecular Biology</i> , 2003, 51, 589-598.	3.9	97
67	Nuclear micro-probe analysis of <i>Arabidopsis thaliana</i> leaves. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 210, 401-406.	1.4	49
68	The sac Mutants of <i>Chlamydomonas reinhardtii</i> Reveal Transcriptional and Posttranscriptional Control of Cysteine Biosynthesis. <i>Plant Physiology</i> , 2002, 130, 2076-2084.	4.8	77
69	Cadmium localization and quantification in the plant <i>Arabidopsis thaliana</i> using micro-PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 189, 494-498.	1.4	56
70	6Fe9-hydrogenases in green algae: photo-fermentation and hydrogen evolution under sulfur deprivation. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 1431-1439.	7.1	130
71	Salt regulation of O-acetylserine(thiol)lyase in <i>Arabidopsis thaliana</i> and increased tolerance in yeast. <i>Plant Physiology and Biochemistry</i> , 2001, 39, 643-647.	5.8	33
72	The Cytosolic O-Acetylserine(thiol)lyase Gene Is Regulated by Heavy Metals and Can Function in Cadmium Tolerance. <i>Journal of Biological Chemistry</i> , 2001, 276, 9297-9302.	3.4	173

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73	Title is missing!. Plant and Soil, 2000, 221, 59-65.	3.7	2
74	Homology predicted structure and functional interaction of ferredoxin from the eukaryotic alga <i>Chlamydomonas reinhardtii</i> with nitrite reductase and glutamate synthase. Journal of Biological Inorganic Chemistry, 2000, 5, 713-719.	2.6	23
75	Glutathione biosynthesis in <i>Arabidopsis trichome</i> cells. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11108-11113.	7.1	162
76	Cysteine biosynthesis in <i>Chlamydomonas reinhardtii</i> . Molecular cloning and regulation of O-acetylserine(thiol)lyase. FEBS Journal, 1999, 264, 848-853.	0.2	27
77	Salt-specific regulation of the cytosolic O-acetylserine(thiol)lyase gene from <i>Arabidopsis thaliana</i> is dependent on abscisic acid. Plant Molecular Biology, 1999, 40, 729-736.	3.9	87
78	Residue GLU-91 of <i>chlamydomonas reinhardtii</i> ferredoxin is essential for the reaction of ferredoxin-nitrite reductase and ferredoxin-glutamate synthase. , 1998, , 1923-1926.		0
79	Critical Residues of <i>Chlamydomonas reinhardtii</i> Ferredoxin for Interaction with Nitrite Reductase and Glutamate Synthase Revealed by Site-Directed Mutagenesis. FEBS Journal, 1997, 250, 364-368.	0.2	28
80	Tissue-specific expression of ATCYS-3A, a gene encoding the cytosolic isoform of O-acetylserine(thiol)lyase in <i>Arabidopsis</i> . Plant Journal, 1997, 11, 347-352.	5.7	36
81	Isolation and analysis of the soybean SGA2 gene (cDNA), encoding a new member of the plant G-protein family of signal transducers. Plant Molecular Biology, 1996, 32, 1227-1234.	3.9	32
82	Isolation of a New Member of the Soybean Kunitz-Type Proteinase Inhibitors. Plant Physiology, 1995, 107, 1015-1016.	4.8	12
83	A new member of the cytosolic O-acetylserine(thiol)lyase gene family in <i>Arabidopsis thaliana</i> . FEBS Letters, 1995, 363, 1-5.	2.8	67
84	Organ-Specific Expression of O-Acetylserine(Thiol)Lyase in <i>Arabidopsis thaliana</i> . , 1995, , 2559-2562.		0
85	Temperature-conditional nuclear mutation of <i>Chlamydomonas reinhardtii</i> decreases the CO ₂ /O ₂ specificity of chloroplast ribulosebisphosphate carboxylase/oxygenase. Planta, 1994, 193, 313.	3.2	10
86	Analysis of three tissue-specific elements from the wheat Cab-1 enhancer. Plant Journal, 1993, 3, 509-518.	5.7	17
87	G-proteins in etiolated <i>Avena</i> seedlings Possible phytochrome regulation. FEBS Letters, 1991, 282, 341-346.	2.8	84
88	Immunological studies of ferredoxin-nitrite reductases and ferredoxin-glutamate synthases from photosynthetic organisms. Archives of Microbiology, 1990, 153, 230-234.	2.2	10
89	Functional properties of purified ferredoxin-glutamate synthase from <i>Chlamydomonas reinhardtii</i> . Phytochemistry, 1990, 29, 711-717.	2.9	11
90	Antigenic similarities between ferredoxin-dependent nitrite reductase and glutamate synthase from <i>Chlamydomonas reinhardtii</i> . BBA - Proteins and Proteomics, 1988, 957, 152-157.	2.1	20

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91	STUDIES ON THE <i>in vitro</i> O ₂ -DEPENDENT INACTIVATION OF NADH-GLUTAMATE SYNTHASE FROM <i>Chlamydomonas reinhardtii</i> STIMULATED BY FLAVINS. <i>Photochemistry and Photobiology</i> , 1987, 46, 353-358.	2.5	8
92	Ferredoxin-glutamate synthase from <i>Chlamydomonas reinhardtii</i> . Prosthetic groups and preliminary studies of mechanism. <i>International Journal of Biochemistry & Cell Biology</i> , 1986, 18, 531-535.	0.5	37
93	A Persulfidation-Based Protein Modification Controls Guard Cell ABA Signaling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2