

# Cecilia Gotor

## List of Publications by Year in descending order

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93  
papers

12,056  
citations

53794

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43889

91  
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97  
all docs

97  
docs citations

97  
times ranked

18613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (edition	9.1	1,430
3	An <i>O</i> -Acetylserine(thiol)lyase Homolog with <i>C</i> -Cysteine Desulfhydrase Activity Regulates Cysteine Homeostasis in Arabidopsis. <i>Plant Physiology</i> , 2010, 152, 656-669.	4.8	315
4	<i>S</i> -Sulfhydration: A Cysteine Posttranslational Modification in Plant Systems. <i>Plant Physiology</i> , 2015, 168, 334-342.	4.8	247
5	Hydrogen Sulfide Generated by <i>C</i> -Cysteine Desulfhydrase Acts Upstream of Nitric Oxide to Modulate Abscisic Acid-Dependent Stomatal Closure Å Å. <i>Plant Physiology</i> , 2014, 166, 2065-2076.	4.8	238
6	Persulfidation proteome reveals the regulation of protein function by hydrogen sulfide in diverse biological processes in Arabidopsis. <i>Journal of Experimental Botany</i> , 2017, 68, 4915-4927.	4.8	233
7	Cysteine and Cysteine-Related Signaling Pathways in Arabidopsis thaliana. <i>Molecular Plant</i> , 2014, 7, 264-276.	8.3	223
8	Hydrogen Sulfide Signaling in Plants: Emerging Roles of Protein Persulfidation. <i>Frontiers in Plant Science</i> , 2018, 9, 1369.	3.6	205
9	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
10	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
11	Increased cysteine availability is essential for cadmium tolerance and accumulation in Arabidopsis thaliana. <i>Plant Biotechnology Journal</i> , 2004, 2, 469-476.	8.3	182
12	The Cytosolic <i>O</i> -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
13	Glutathione biosynthesis in Arabidopsis trichome cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 11108-11113.	7.1	162
14	Cysteine homeostasis plays an essential role in plant immunity. <i>New Phytologist</i> , 2012, 193, 165-177.	7.3	153
15	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
16	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
17	Signaling by hydrogen sulfide and cyanide through post-translational modification. <i>Journal of Experimental Botany</i> , 2019, 70, 4251-4265.	4.8	116
18	Hydrogen sulfide, a signaling molecule in plant stress responses. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 146-160.	8.5	114

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19	Mitochondrial $\hat{I}^2$ -Cyanoalanine Synthase Is Essential for Root Hair Formation in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2010, 22, 3268-3279.	6.6	110
20	The <i>TRANSPLANTA</i> collection of <i>Arabidopsis</i> 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
21	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
22	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
23	Salt-specific regulation of the cytosolic O-acetylserine(thiol)lyase gene from <i>Arabidopsis thaliana</i> is dependent on abscisic acid. <i>Plant Molecular Biology</i> , 1999, 40, 729-736.	3.9	87
24	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
25	G-proteins in etiolated <i>Avena</i> seedlings Possible phytochrome regulation. <i>FEBS Letters</i> , 1991, 282, 341-346.	2.8	84
26	Hydrogen Sulfide: From a Toxic Molecule to a Key Molecule of Cell Life. <i>Antioxidants</i> , 2020, 9, 621.	5.1	83
27	<i>Arabidopsis</i> $\hat{A}$ <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
28	Signaling in the plant cytosol: cysteine or sulfide?. <i>Amino Acids</i> , 2015, 47, 2155-2164.	2.7	79
29	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
30	The <i>sac</i> 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
31	Leaf hairs influence phytopathogenic fungus infection and confer an increased resistance when expressing a <i>Trichoderma</i> $\hat{A}$ -1,3-glucanase. <i>Journal of Experimental Botany</i> , 2006, 57, 3911-3920.	4.8	76
32	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
33	Sulfide as a signaling molecule in autophagy. <i>Autophagy</i> , 2013, 9, 609-611.	9.1	68
34	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
35	A new member of the cytosolic O-acetylserine(thiol)lyase gene family in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 1995, 363, 1-5.	2.8	67
36	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

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37	Inhibition of Arabidopsis O-Acetylserine(thiol)lyase A1 by Tyrosine Nitration. Journal of Biological Chemistry, 2011, 286, 578-586.	3.4	58
38	Abscisic acid-triggered guard cell cysteine desulfhydrase function and in situ hydrogen sulfide production contributes to heme oxygenase-modulated stomatal closure. Plant, Cell and Environment, 2020, 43, 624-636.	5.7	57
39	Cadmium localization and quantification in the plant Arabidopsis thaliana using micro-PIXE. Nuclear Instruments & Methods in Physics Research B, 2002, 189, 494-498.	1.4	56
40	Mitochondrial Sulfide Detoxification Requires a Functional Isoform O-Acetylserine(thiol)lyase C in Arabidopsis thaliana. Molecular Plant, 2012, 5, 1217-1226.	8.3	55
41	Hydrogen sulfide signaling in plant adaptations to adverse conditions: molecular mechanisms. Journal of Experimental Botany, 2021, 72, 5893-5904.	4.8	55
42	L-Cysteine Desulfhydrase 1 modulates the generation of the signaling molecule sulfide in plant cytosol. Plant Signaling and Behavior, 2013, 8, e24007.	2.4	54
43	Negative regulation of autophagy by sulfide in Arabidopsis thaliana is independent of reactive oxygen species. Plant Physiology, 2016, 171, pp.00110.2016.	4.8	50
44	Persulfidation of ATG18a regulates autophagy under ER stress in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	50
45	Nuclear micro-probe analysis of Arabidopsis thaliana leaves. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 401-406.	1.4	49
46	Evaluation of the Metal Phytoextraction Potential of Crop Legumes. Regulation of the Expression of O-Acetylserine (Thiol)Lyase under Metal Stress. Plant Biology, 2007, 9, 672-681.	3.8	45
47	Effect of cadmium in the microalga Chlorella sorokiniana: A proteomic study. Ecotoxicology and Environmental Safety, 2021, 207, 111301.	6.0	44
48	HCN Regulates Cellular Processes through Posttranslational Modification of Proteins by S-cyanylation. Plant Physiology, 2019, 179, 107-123.	4.8	43
49	Transient Transcriptional Regulation of the CYS-C1 Gene and Cyanide Accumulation upon Pathogen Infection in the Plant Immune Response. Plant Physiology, 2013, 162, 2015-2027.	4.8	39
50	Photosynthetic Adaptation to Length of Day Is Dependent on S-Sulfocysteine Synthase Activity in the Thylakoid Lumen. Plant Physiology, 2012, 160, 274-288.	4.8	38
51	Multilevel Regulation of Peroxisomal Proteome by Post-Translational Modifications. International Journal of Molecular Sciences, 2019, 20, 4881.	4.1	38
52	Ferredoxin-glutamate synthase from Chlamydomonas reinhardtii. Prosthetic groups and preliminary studies of mechanism. International Journal of Biochemistry & Cell Biology, 1986, 18, 531-535.	0.5	37
53	Tissue-specific expression of ATCYS-3A, a gene encoding the cytosolic isoform of O-acetylserine(thiol)lyase in Arabidopsis. Plant Journal, 1997, 11, 347-352.	5.7	36
54	Label-Free Quantitative Proteomic Analysis of Nitrogen Starvation in Arabidopsis Root Reveals New Aspects of H2S Signaling by Protein Persulfidation. Antioxidants, 2021, 10, 508.	5.1	34

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55	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
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	Isolation and analysis of the soybean SGA2 gene (cDNA), encoding a new member of the plant G-protein family of signal transducers. <i>Plant Molecular Biology</i> , 1996, 32, 1227-1234.	3.9	32
58	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
59	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
60	Critical Residues of <i>Chlamydomonas reinhardtii</i> Ferredoxin for Interaction with Nitrite Reductase and Glutamate Synthase Revealed by Site-Directed Mutagenesis. <i>FEBS Journal</i> , 1997, 250, 364-368.	0.2	28
61	Low abundance does not mean less importance in cysteine metabolism. <i>Plant Signaling and Behavior</i> , 2010, 5, 1028-1030.	2.4	28
62	Cysteine biosynthesis in <i>Chlamydomonas reinhardtii</i> . Molecular cloning and regulation of O-acetylserine(thiol)lyase. <i>FEBS Journal</i> , 1999, 264, 848-853.	0.2	27
63	$\text{N}^{1/2}$ -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
64	Homology predicted structure and functional interaction of ferredoxin from the eukaryotic alga <i>Chlamydomonas reinhardtii</i> with nitrite reductase and glutamate synthase. <i>Journal of Biological Inorganic Chemistry</i> , 2000, 5, 713-719.	2.6	23
65	Cytosolic cysteine in redox signaling. <i>Plant Signaling and Behavior</i> , 2008, 3, 880-881.	2.4	21
66	Antigenic similarities between ferredoxin-dependent nitrite reductase and glutamate synthase from <i>Chlamydomonas reinhardtii</i> . <i>BBA - Proteins and Proteomics</i> , 1988, 957, 152-157.	2.1	20
67	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
68	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
69	Beyond toxicity. <i>Plant Signaling and Behavior</i> , 2014, 9, e27612.	2.4	19
70	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
71	Activation of Endogenous $\text{H}_2\text{S}$ Biosynthesis or Supplementation with Exogenous $\text{H}_2\text{S}$ Enhances Adipose Tissue Adipogenesis and Preserves Adipocyte Physiology in Humans. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 319-340.	5.4	18
72	Analysis of three tissue-specific elements from the wheat Cab-1 enhancer. <i>Plant Journal</i> , 1993, 3, 509-518.	5.7	17

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73	S-sulfocysteine synthase function in sensing chloroplast redox status. <i>Plant Signaling and Behavior</i> , 2013, 8, e23313.	2.4	17
74	H <sub>2</sub> S action in plant life cycle. <i>Plant Growth Regulation</i> , 2021, 94, 1-9.	3.4	16
75	Isolation of a New Member of the Soybean Kunitz-Type Proteinase Inhibitors. <i>Plant Physiology</i> , 1995, 107, 1015-1016.	4.8	12
76	Functional properties of purified ferredoxin-glutamate synthase from <i>Chlamydomonas reinhardtii</i> . <i>Photochemistry</i> , 1990, 29, 711-717.	2.9	11
77	Persulfidation is the mechanism underlying sulfide-signaling of autophagy. <i>Autophagy</i> , 2022, 18, 695-697.	9.1	11
78	Immunological studies of ferredoxin-nitrite reductases and ferredoxin-glutamate synthases from photosynthetic organisms. <i>Archives of Microbiology</i> , 1990, 153, 230-234.	2.2	10
79	Temperature-conditional nuclear mutation of <i>Chlamydomonas reinhardtii</i> decreases the CO <sub>2</sub> /O <sub>2</sub> specificity of chloroplast ribulosebiphosphate carboxylase/oxygenase. <i>Planta</i> , 1994, 193, 313.	3.2	10
80	Role of mitochondrial cyanide detoxification in <i>Arabidopsis</i> root hair development. <i>Plant Signaling and Behavior</i> , 2018, 13, e1537699.	2.4	10
81	Molecular links between metals in the environment and plant sulfur metabolism. <i>Plant Ecophysiology</i> , 2007, , 169-195.	1.5	9
82	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
83	Hydroxynitrile lyase defends <i>Arabidopsis</i> against <i>Tetranychus urticae</i> . <i>Plant Physiology</i> , 2022, 189, 2244-2258.	4.8	9
84	STUDIES ON THE in vitro O <sub>2</sub> -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
85	Mutation in <i>Arabidopsis</i> $\hat{1}^2$ -cyanoalanine synthase overcomes NADPH oxidase action in response to pathogens. <i>Journal of Experimental Botany</i> , 2021, 72, 4535-4547.	4.8	8
86	Hydrogen Sulfide: A Key Role in Autophagy Regulation from Plants to Mammals. <i>Antioxidants</i> , 2022, 11, 327.	5.1	8
87	Title is missing!. <i>Plant and Soil</i> , 2000, 221, 59-65.	3.7	2
88	Regulation of Autophagy by Hydrogen Sulfide. <i>Signaling and Communication in Plants</i> , 2016, , 53-75.	0.7	2
89	A Persulfidation-Based Protein Modification Controls Guard Cell ABA Signaling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
90	Advances in Plant Sulfur Metabolism and Signaling. <i>Progress in Botany Fortschritte Der Botanik</i> , 2016, , 45-66.	0.3	1

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91	Dataset for proteomic analysis of <i>Chlorella sorokiniana</i> cells under cadmium stress. <i>Data in Brief</i> , 2020, 33, 106544.	1.0	0
92	Organ-Specific Expression of O-Acetylserine(Thiol)Lyase in <i>Arabidopsis thaliana</i> . , 1995, , 2559-2562.		0
93	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