

Mary E Whelan

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

973
citations

567281

15
h-index

580821

25
g-index

43
all docs

43
docs citations

43
times ranked

1533
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021, 229, 2413-2445.	7.3	286
2	Reviews and syntheses: Carbonyl sulfide as a multi-scale tracer for carbon and water cycles. <i>Biogeosciences</i> , 2018, 15, 3625-3657.	3.3	98
3	Atmospheric carbonyl sulfide sources from anthropogenic activity: Implications for carbon cycle constraints. <i>Geophysical Research Letters</i> , 2015, 42, 3004-3010.	4.0	83
4	Salt marsh vegetation as a carbonyl sulfide (COS) source to the atmosphere. <i>Atmospheric Environment</i> , 2013, 73, 131-137.	4.1	74
5	Carbonyl sulfide exchange in soils for better estimates of ecosystem carbon uptake. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3711-3726.	4.9	54
6	Global gridded anthropogenic emissions inventory of carbonyl sulfide. <i>Atmospheric Environment</i> , 2018, 183, 11-19.	4.1	40
7	Peak growing season gross uptake of carbon in North America is largest in the Midwest USA. <i>Nature Climate Change</i> , 2017, 7, 450-454.	18.8	39
8	Carbonyl sulfide produced by abiotic thermal and photodegradation of soil organic matter from wheat field substrate. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 54-62.	3.0	33
9	Coupled Biological and Abiotic Mechanisms Driving Carbonyl Sulfide Production in Soils. <i>Soil Systems</i> , 2018, 2, 37.	2.6	24
10	Large methyl halide emissions from south Texas salt marshes. <i>Biogeosciences</i> , 2014, 11, 6427-6434.	3.3	23
11	Carbonyl sulfide: comparing a mechanistic representation of the vegetation uptake in a land surface model and the leaf relative uptake approach. <i>Biogeosciences</i> , 2021, 18, 2917-2955.	3.3	21
12	COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric CO ₂ seasonal cycle amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
13	Evaluation of carbonyl sulfide biosphere exchange in the Simple Biosphere Model (SiB4). <i>Biogeosciences</i> , 2021, 18, 6547-6565.	3.3	21
14	Soil exchange rates of COS and CO ₁₈ O differ with the diversity of microbial communities and their carbonic anhydrase enzymes. <i>ISME Journal</i> , 2019, 13, 290-300.	9.8	20
15	Seasonal Evolution of Canopy Stomatal Conductance for a Prairie and Maize Field in the Midwestern United States from Continuous Carbonyl Sulfide Fluxes. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085652.	4.0	16
16	Large Uptake of Atmospheric OCS Observed at a Moist Old Growth Forest: Controls and Implications for Carbon Cycle Applications. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3424-3438.	3.0	15
17	Large variability in ecosystem models explains uncertainty in a critical parameter for quantifying GPP with carbonyl sulphide. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 26329.	1.6	14
18	Gridded anthropogenic emissions inventory and atmospheric transport of carbonyl sulfide in the U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2169-2178.	3.3	14

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19	Reduced sulfur trace gas exchange between a seasonally dry grassland and the atmosphere. <i>Biogeochemistry</i> , 2016, 128, 267-280.	3.5	13
20	Ecosystem fluxes of carbonyl sulfide in an old-growth forest: temporal dynamics and responses to diffuse radiation and heat waves. <i>Biogeosciences</i> , 2018, 15, 7127-7139.	3.3	13
21	Plant Uptake of Atmospheric Carbonyl Sulfide in Coast Redwood Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3391-3404.	3.0	11
22	Global modelling of soil carbonyl sulfide exchanges. <i>Biogeosciences</i> , 2022, 19, 2427-2463.	3.3	10
23	Covariation of Airborne Biogenic Tracers (CO ₂ , COS, and CO) Supports Stronger Than Expected Growing Season Photosynthetic Uptake in the Southeastern US. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006956.	4.9	7
24	Scientific Communities Striving for a Common Cause: Innovations in Carbon Cycle Science. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1537-E1543.	3.3	6
25	Exploring the Potential of Using Carbonyl Sulfide to Track the Urban Biosphere Signal. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034106.	3.3	2