Roger Seco

List of Publications by Year
in descending order

57	2,899	218677	189892
papers	citations	26 h-index	50 g-index

82	82	82	3826
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
2	Impact of heat stress on foliar biogenic volatile organic compound emission and gene expression in tomato (Solanum lycopersicum) seedlings. Elementa, 2022, 10, .	3.2	2
3	Global Perspective of Drought Impacts on Ozone Pollution Episodes. Environmental Science & Technology, 2022, 56, 3932-3940.	10.0	17
4	Impact of Drought on Isoprene Fluxes Assessed Using Field Data, Satellite-Based GLEAM Soil Moisture and HCHO Observations from OMI. Remote Sensing, 2022, 14, 2021.	4.0	5
5	Bidirectional Exchange of Biogenic Volatile Organic Compounds in Subarctic Heath Mesocosms During Autumn Climate Scenarios. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	2
6	GLOVOCS - Master compound assignment guide for proton transfer reaction mass spectrometry users. Atmospheric Environment, 2021, 244, 117929.	4.1	26
7	The role of a suburban forest in controlling vertical trace gas and OH reactivity distributions â€“ a case study for the Seoul metropolitan area. Faraday Discussions, 2021, 226, 537-550.	3.2	3
8	Contributions to OH reactivity from unexplored volatile organic compounds measured by PTR-ToF-MS â€“ a case study in a suburban forest of the Seoul metropolitan area during the Koreaâ€“United States Air Quality Study (KORUS-AQ) 2016. Atmospheric Chemistry and Physics, 2021, 21, 6331-6345.	4.9	6
9	Phenological stage of tundra vegetation controls bidirectional exchange of BVOCs in a climate change experiment on a subarctic heath. Global Change Biology, 2021, 27, 2928-2944.	9.5	10
10	Dynamics of volatile organic compounds in a western Mediterranean oak forest. Atmospheric Environment, 2021, 257, 118447.	4.1	9
11	Floral Scent Composition and Fine-Scale Timing in Two Moth-Pollinated Hawaiian Schiedea (Caryophyllaceae). Frontiers in Plant Science, 2020, 11, 1116.	3.6	13
12	PTR-TOF-MS eddy covariance measurements of isoprene and monoterpene fluxes from an eastern Amazonian rainforest. Atmospheric Chemistry and Physics, 2020, 20, 7179-7191.	4.9	21
13	Volatile organic compound fluxes in a subarctic peatland and lake. Atmospheric Chemistry and Physics, 2020, 20, 13399-13416.	4.9	28
14	Evaluation of semi-static enclosure technique for rapid surveys of biogenic volatile organic compounds (BVOCs) emission measurements. Atmospheric Environment, 2019, 212, 1-5.	4.1	14
15	Integration of airborne and ground observations of nitryl chloride in the Seoul metropolitan area and the implications on regional oxidation capacity during KORUS-AQ 2016. Atmospheric Chemistry and Physics, 2019, 19, 12779-12795.	4.9	24
16	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. Atmospheric Chemistry and Physics, 2018, 18, 467-493.	4.9	63
17	Isoprene photo-oxidation products quantify the effect of pollution on hydroxyl radicals over Amazonia. Science Advances, 2018, 4, eaar2547.	10.3	28
18	Isoprene emission response to drought and the impact on global atmospheric chemistry. Atmospheric Environment, 2018, 183, 69-83.	4.1	62

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19	Intercomparison of OH and OH reactivity measurements in a high isoprene and low NO environment during the Southern Oxidant and Aerosol Study (SOAS). Atmospheric Environment, 2018, 174, 227-236.	4.1	22
20	Constraining nucleation, condensation, and chemistry in oxidation flow reactors using size-distribution measurements and aerosol microphysical modeling. Atmospheric Chemistry and Physics, 2018, 18, 12433-12460.	4.9	12
21	A MODIS Photochemical Reflectance Index (PRI) as an Estimator of Isoprene Emissions in a Temperate Deciduous Forest. Remote Sensing, 2018, 10, 557.	4.0	10
22	The Controlling Factors of Photochemical Ozone Production in Seoul, South Korea. Aerosol and Air Quality Research, 2018, 18, 2253-2261.	2.1	18
23	Airborne observations reveal elevational gradient in tropical forest isoprene emissions. Nature Communications, 2017, 8, 15541.	12.8	53
24	Springtime ecosystem-scale monoterpene fluxes from Mediterranean pine forests across a precipitation gradient. Agricultural and Forest Meteorology, 2017, 237-238, 150-159.	4.8	15
25	Drought impacts on photosynthesis, isoprene emission and atmospheric formaldehyde in a mid-latitude forest. Atmospheric Environment, 2017, 167, 190-201.	4.1	16
26	OH reactivity in urban and suburban regions in Seoul, South Korea â€“ an East Asian megacity in a rapid transition. Faraday Discussions, 2016, 189, 231-251.	3.2	31
27	A new paradigm of quantifying ecosystem stress through chemical signatures. Ecosphere, 2016, 7, e01559.	2.2	16
28	Isoprene photochemistry over the Amazon rainforest. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6125-6130.	7.1	85
29	Photosynthesis, stomatal conductance and terpene emission response to water availability in dry and mesic Mediterranean forests. Trees - Structure and Function, 2016, 30, 749-759.	1.9	38
30	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). Atmospheric Chemistry and Physics, 2016, 16, 11563-11580.	4.9	82
31	Molecular composition of organic aerosols in central Amazonia: an ultra-high-resolution mass spectrometry study. Atmospheric Chemistry and Physics, 2016, 16, 11899-11913.	4.9	73
32	Influences of emission sources and meteorology on aerosol chemistry in a polluted urban environment: results from DISCOVER-AQ California. Atmospheric Chemistry and Physics, 2016, 16, 5427-5451.	4.9	80
33	Highly functionalized organic nitrates in the southeast United States: Contribution to secondary organic aerosol and reactive nitrogen budgets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1516-1521.	7.1	269
34	Large drought-induced variations in oak leaf volatile organic compound emissions during PINOT NOIR 2012. Chemosphere, 2016, 146, 8-21.	8.2	16
35	Ecosystemâ€scale volatile organic compound fluxes duringÂan extreme drought in a broadleaf temperate forestÂof the Missouri Ozarks (central <scp>USA</scp>). Global Change Biology, 2015, 21, 3657-3674.	9.5	76
36	An ecosystem-scale perspective of the net land methanol flux: synthesis of micrometeorological flux measurements. Atmospheric Chemistry and Physics, 2015, 15, 7413-7427.	4.9	31

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37	Instrument intercomparison of glyoxal, methyl glyoxal and NO₂ under simulated atmospheric conditions. Atmospheric Measurement Techniques, 2015, 8, 1835-1862.	3.1	50
38	A tethered-balloon PTRMS sampling approach for surveying of landscape-scale biogenic VOC fluxes. Atmospheric Measurement Techniques, 2014, 7, 2263-2271.	3.1	7
39	New Particle Formation and Growth in an Isoprene-Dominated Ozark Forest: From Sub-5Ânm to CCN-Active Sizes. Aerosol Science and Technology, 2014, 48, 1285-1298.	3.1	41
40	Metabolic responses of <scp>Q</scp>uercus ilex seedlings to wounding analysed with nuclear magnetic resonance profiling. Plant Biology, 2014, 16, 395-403.	3.8	44
41	Effects of sources and meteorology on particulate matter in the Western Mediterranean Basin: An overview of the DAURE campaign. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4978-5010.	3.3	49
42	Intensive measurements of gas, water, and energy exchange between vegetation and troposphere during the MONTES campaign in a vegetation gradient from short semi-desertic shrublands to tall wet temperate forests in the NW Mediterranean Basin. Atmospheric Environment, 2013, 75, 348-364.	4.1	9
43	Floral advertisement scent in a changing plant-pollinators market. Scientific Reports, 2013, 3, 3434.	3.3	71
44	Volatile organic compounds in the western Mediterranean basin: urban and rural winter measurements during the DAURE campaign. Atmospheric Chemistry and Physics, 2013, 13, 4291-4306.	4.9	46
45	Identification and quantification of organic aerosol from cooking and other sources in Barcelona using aerosol mass spectrometer data. Atmospheric Chemistry and Physics, 2012, 12, 1649-1665.	4.9	449
46	Seasonal changes in the daily emission rates of terpenes by Quercus ilex and the atmospheric concentrations of terpenes in the natural park of Montseny, NE Spain. Journal of Atmospheric Chemistry, 2012, 69, 215-230.	3.2	25
47	Biomass burning contributions to urban aerosols in a coastal Mediterranean City. Science of the Total Environment, 2012, 427-428, 175-190.	8.0	130
48	BIOMASS BURNING CONTRIBUTIONS TO URBAN AEROSOLS IN A COASTAL MEDITERRANEAN CITY. ISEE Conference Abstracts, 2011, 2011, .	0.0	2
49	Contrasting winter and summer VOC mixing ratios at a forest site in the Western Mediterranean Basin: the effect of local biogenic emissions. Atmospheric Chemistry and Physics, 2011, 11, 13161-13179.	4.9	85
50	Fossil versus contemporary sources of fine elemental and organic carbonaceous particulate matter during the DAURE campaign in Northeast Spain. Atmospheric Chemistry and Physics, 2011, 11, 12067-12084.	4.9	157
51	Methanol as a signal triggering isoprenoid emissions and photosynthetic performance in Quercus ilex. Acta Physiologiae Plantarum, 2011, 33, 2413-2422.	2.1	21
52	The Role of Frass and Cocoon Volatiles in Host Location by Monodontomerus aeneus, a Parasitoid of Megachilid Solitary Bees. Environmental Entomology, 2011, 40, 126-131.	1.4	16
53	Increase in isoprene and monoterpene emissions after re-watering of droughted Quercus ilex seedlings. Biologia Plantarum, 2009, 53, 351-354.	1.9	61
54	Short-chained oxygenated VOC emissions in Pinus halepensis in response to changes in water availability. Acta Physiologiae Plantarum, 2009, 31, 311-318.	2.1	44

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55	Formaldehyde emission and uptake by Mediterranean trees Quercus ilex and Pinus halepensis. Atmospheric Environment, 2008, 42, 7907-7914.	4.1	37
56	Short-chain oxygenated VOCs: Emission and uptake by plants and atmospheric sources, sinks, and concentrations. Atmospheric Environment, 2007, 41, 2477-2499.	4.1	256
57	Aspectos micrometeorolÃ³gicos da emissÃ£o de monoterpenos em uma floresta na AmazÃ´nia central. CiÃªncia E Natura, 0, 40, 150.	0.0	1