Roberto Sommariva

List of Publications by Year
in descending order

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39	3,109	257450	302126
papers	citations	24	39
		h-index	g-index

66	66	66	3788
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tropospheric ozone and its precursors from the urban to the global scale from air quality to short-lived climate forcer. Atmospheric Chemistry and Physics, 2015, 15, 8889-8973.	4.9	942
2	High levels of nitryl chloride in the polluted subtropical marine boundary layer. Nature Geoscience, 2008, 1, 324-328.	12.9	403
3	Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. Atmospheric Chemistry and Physics, 2009, 9, 3027-3042.	4.9	128
4	Impact of halogen monoxide chemistry upon boundary layer OH and HO2concentrations at a coastal site. Geophysical Research Letters, 2005, 32, .	4.0	113
5	HOCl and Cl₂ observations in marine air. Atmospheric Chemistry and Physics, 2011, 11, 7617-7628.	4.9	109
6	The oxidative capacity of the troposphere: Coupling of field measurements of OH and a global chemistry transport model. Faraday Discussions, 2005, 130, 425.	3.2	108
7	Quantifying the contribution of marine organic gases to atmospheric iodine. Geophysical Research Letters, 2010, 37, .	4.0	105
8	OH and HO₂ chemistry in clean marine air during SOAPEX-2. Atmospheric Chemistry and Physics, 2004, 4, 839-856.	4.9	92
9	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. Journal of Geophysical Research, 2006, 111, .	3.3	83
10	OH and HO₂ chemistry during NAMBLEX: roles of oxygenates, halogen oxides and heterogeneous uptake. Atmospheric Chemistry and Physics, 2006, 6, 1135-1153.	4.9	82
11	Peroxy radical chemistry and the control of ozone photochemistry at Mace Head, Ireland during the summer of 2002. Atmospheric Chemistry and Physics, 2006, 6, 2193-2214.	4.9	70
12	Iodine monoxide in the Western Pacific marine boundary layer. Atmospheric Chemistry and Physics, 2013, 13, 3363-3378.	4.9	66
13	The North Atlantic Marine Boundary Layer Experiment(NAMBLEX). Overview of the campaign held at Mace Head, Ireland, in summer 2002. Atmospheric Chemistry and Physics, 2006, 6, 2241-2272.	4.9	65
14	Validity and limitations of simple reaction kinetics to calculate concentrations of organic compounds from ion counts in PTR-MS. Atmospheric Measurement Techniques, 2019, 12, 6193-6208.	3.1	53
15	Multiphase Halogen Chemistry in the Tropical Atlantic Ocean. Environmental Science & Technology, 2012, 46, 10429-10437.	10.0	50
16	Measurements of PANs during the New England Air Quality Study 2002. Journal of Geophysical Research, 2007, 112, .	3.3	49
17	Observation of daytime N2 O5 in the marine boundary layer during New England Air Quality Study-Intercontinental Transport and Chemical Transformation 2004. Journal of Geophysical Research, 2006, 111, .	3.3	44
18	Effects of halogens on European air-quality. Faraday Discussions, 2017, 200, 75-100.	3.2	43

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19	Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580.	4.0	42
20	AtChem (version 1), an open-source box model for the Master Chemical Mechanism. Geoscientific Model Development, 2020, 13, 169-183.	3.6	42
21	Emissions and photochemistry of oxygenated VOCs in urban plumes in the Northeastern United States. Atmospheric Chemistry and Physics, 2011, 11, 7081-7096.	4.9	41
22	Uncertainties in gas-phase atmospheric iodine chemistry. Atmospheric Environment, 2012, 57, 219-232.	4.1	41
23	Radicals in the marine boundary layer during NEAQS 2004: a model study of day-time and night-time sources and sinks. Atmospheric Chemistry and Physics, 2009, 9, 3075-3093.	4.9	33
24	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. Atmospheric Environment, 2008, 42, 5771-5786.	4.1	32
25	Night-time radical chemistry during the NAMBLEX campaign. Atmospheric Chemistry and Physics, 2007, 7, 587-598.	4.9	28
26	In situ ozone production is highly sensitive to volatile organic compounds in Delhi, India. Atmospheric Chemistry and Physics, 2021, 21, 13609-13630.	4.9	28
27	Investigation of vehicle cold start primary NO2 emissions inferred from ambient monitoring data in the UK and their implications for urban air quality. Atmospheric Environment, 2019, 199, 402-414.	4.1	26
28	Ambient formaldehyde measurements made at a remote marine boundary layer site during the NAMBLEX campaign â€“ a comparison of data from chromatographic and modified Hantzsch techniques. Atmospheric Chemistry and Physics, 2006, 6, 2711-2726.	4.9	22
29	Observations of the Release of Non-methane Hydrocarbons from Fractured Shale. Environmental Science & Technology, 2014, 48, 8891-8896.	10.0	19
30	Seasonal and geographical variability of nitryl chloride and its precursors in Northern Europe. Atmospheric Science Letters, 2018, 19, e844.	1.9	19
31	Regional variation of the dimethyl sulfide oxidation mechanism in the summertime marine boundary layer in the Gulf of Maine. Journal of Geophysical Research, 2009, 114, .	3.3	17
32	Enhanced wintertime oxidation of VOCs via sustained radical sources in the urban atmosphere. Environmental Pollution, 2021, 274, 116563.	7.5	15
33	Ozone production in remote oceanic and industrial areas derived from ship based measurements of peroxy radicals during TexAQS 2006. Atmospheric Chemistry and Physics, 2011, 11, 2471-2485.	4.9	13
34	Quantification of within-vehicle exposure to NOx and particles: Variation with outside air quality, route choice and ventilation options. Atmospheric Environment, 2020, 240, 117810.	4.1	13
35	Modelled and measured concentrations of peroxy radicals and nitrate radical in the U.S. Gulf Coast region during TexAQS 2006. Journal of Atmospheric Chemistry, 2011, 68, 331-362.	3.2	11
36	Adaptive K-Means for Clustering Air Mass Trajectories. Lecture Notes in Computer Science, 2011, , 1-8.	1.3	9

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37	Consumption of reactive halogen species from sea-salt aerosol by secondary organic aerosol: slowing down the bromine explosion. Environmental Chemistry, 2015, 12, 476.	1.5	5
38	An instrument for in situ measurement of total ozone reactivity. Atmospheric Measurement Techniques, 2020, 13, 1655-1670.	3.1	4
39	Opinion: Papers that shaped tropospheric chemistry. Atmospheric Chemistry and Physics, 2021, 21, 12909-12948.	4.9	4