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	Enhanced wintertime oxidation of VOCs via sustained radical sources in the urban atmosphere. Environmental Pollution, 2021, 274, 116563.	7.5	15
2	Opinion: Papers that shaped tropospheric chemistry. Atmospheric Chemistry and Physics, 2021, 21, 12909-12948.	4.9	4
3	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
4	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
5	AtChem (version 1), an open-source box model for the Master Chemical Mechanism. Geoscientific Model Development, 2020, 13, 169-183.	3.6	42
6	An instrument for in situ measurement of total ozone reactivity. Atmospheric Measurement Techniques, 2020, 13, 1655-1670.	3.1	4
7	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
8	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
9	Seasonal and geographical variability of nitryl chloride and its precursors in Northern Europe. Atmospheric Science Letters, 2018, 19, e844.	1.9	19
10	Effects of halogens on European air-quality. Faraday Discussions, 2017, 200, 75-100.	3.2	43
11	Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580.	4.0	42
12	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
13	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
14	Observations of the Release of Non-methane Hydrocarbons from Fractured Shale. Environmental Science & Technology, 2014, 48, 8891-8896.	10.0	19
15	Iodine monoxide in the Western Pacific marine boundary layer. Atmospheric Chemistry and Physics, 2013, 13, 3363-3378.	4.9	66
16	Multiphase Halogen Chemistry in the Tropical Atlantic Ocean. Environmental Science & Technology, 2012, 46, 10429-10437.	10.0	50
17	Uncertainties in gas-phase atmospheric iodine chemistry. Atmospheric Environment, 2012, 57, 219-232.	4.1	41
18	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

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19	HOCl and Cl₂ observations in marine air. Atmospheric Chemistry and Physics, 2011, 11, 7617-7628.	4.9	109
20	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
21	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
22	Adaptive K-Means for Clustering Air Mass Trajectories. Lecture Notes in Computer Science, 2011, , 1-8.	1.3	9
23	Quantifying the contribution of marine organic gases to atmospheric iodine. Geophysical Research Letters, 2010, 37, .	4.0	105
24	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
25	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
26	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
27	High levels of nitryl chloride in the polluted subtropical marine boundary layer. Nature Geoscience, 2008, 1, 324-328.	12.9	403
28	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. Atmospheric Environment, 2008, 42, 5771-5786.	4.1	32
29	Night-time radical chemistry during the NAMBLEX campaign. Atmospheric Chemistry and Physics, 2007, 7, 587-598.	4.9	28
30	Measurements of PANs during the New England Air Quality Study 2002. Journal of Geophysical Research, 2007, 112, .	3.3	49
31	Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. Journal of Geophysical Research, 2006, 111, .	3.3	83
32	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
33	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
34	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
35	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
36	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

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37	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
38	Impact of halogen monoxide chemistry upon boundary layer OH and HO2concentrations at a coastal site. Geophysical Research Letters, 2005, 32, .	4.0	113
39	OH and HO₂ chemistry in clean marine air during SOAPEX-2. Atmospheric Chemistry and Physics, 2004, 4, 839-856.	4.9	92