Isobel J Simpson

List of Publications by Year
in descending order

51 papers	3,206 citations	156536 32 h-index	214428 50 g-index
51 all docs	51 docs citations	51 times ranked	4363 citing authors

#	Article	IF	Citations
1	CFC-11 measurements in China, Nepal, Pakistan, Saudi Arabia and South Korea (1998â€“2018): Urban, landfill fire and garbage burning sources. Environmental Chemistry, 2022, 18, 370-392.	0.7	0
2	Long-term variations of C1â€“C5 alkyl nitrates and their sources in Hong Kong. Environmental Pollution, 2021, 270, 116285.	3.7	1
3	Long-term temporal variations and source changes of halocarbons in the Greater Pearl River Delta region, China. Atmospheric Environment, 2020, 234, 117550.	1.9	12
4	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001882.	1.3	189
5	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. Elementa, 2020, 8, .	1.1	44
6	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. Atmospheric Chemistry and Physics, 2020, 20, 14617-14647.	1.9	34
7	Observations of C1â€“C5 alkyl nitrates in the Yellow River Delta, northern China: Effects of biomass burning and oil field emissions. Science of the Total Environment, 2019, 656, 129-139.	3.9	18
8	Decadal changes in emissions of volatile organic compounds (VOCs) from on-road vehicles with intensified automobile pollution control: Case study in a busy urban tunnel in south China. Environmental Pollution, 2018, 233, 806-819.	3.7	74
9	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,527.	1.2	24
10	Continued Emissions of the Ozoneâ€Depleting Substance Carbon Tetrachloride From Eastern Asia. Geophysical Research Letters, 2018, 45, 11423-11430.	1.5	37
11	A dualâ€chamber method for quantifying the effects of atmospheric perturbations on secondary organic aerosol formation from biomass burning emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6043-6058.	1.2	41
12	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6108-6129.	1.2	184
13	Leakage Rates of Refrigerants CFC-12, HCFC-22, and HFC-134a from Operating Mobile Air Conditioning Systems in Guangzhou, China: Tests inside a Busy Urban Tunnel under Hot and Humid Weather Conditions. Environmental Science and Technology Letters, 2017, 4, 481-486.	3.9	10
14	Characterization of carbon monoxide, methane and nonmethane hydrocarbons in emerging cities of Saudi Arabia and Pakistan and in Singapore. Journal of Atmospheric Chemistry, 2017, 74, 87-113.	1.4	18
15	Tropospheric volatile organic compounds in China. Science of the Total Environment, 2017, 574, 1021-1043.	3.9	169
16	Evaluation of the effectiveness of air pollution control measures in Hong Kong. Environmental Pollution, 2017, 220, 87-94.	3.7	39
17	Modeling C₁â€“C₄ Alkyl Nitrate Photochemistry and Their Impacts on O₃ Production in Urban and Suburban Environments of Hong Kong. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,539.	1.2	14
18	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). Geoscientific Model Development, 2016, 9, 1853-1890.	1.3	122

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19	Agricultural fires in the southeastern U.S. during SEAC⁴RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7383-7414.	1.2	93
20	Integrating Source Apportionment Tracers into a Bottom-up Inventory of Methane Emissions in the Barnett Shale Hydraulic Fracturing Region. Environmental Science & Technology, 2015, 49, 8175-8182.	4.6	55
21	Air Quality in Mecca and Surrounding Holy Places in Saudi Arabia During Hajj: Initial Survey. Environmental Science & Technology, 2014, 48, 8529-8537.	4.6	45
22	Ambient CFCs and HCFC-22 observed concurrently at 84 sites in the Pearl River Delta region during the 2008-2009 grid studies. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7699-7717.	1.2	19
23	Evidence of mixing between polluted convective outflow and stratospheric air in the upper troposphere during DC3. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,477.	1.2	16
24	Air quality in the Industrial Heartland of Alberta, Canada and potential impacts on human health. Atmospheric Environment, 2013, 81, 702-709.	1.9	32
25	Characterization of photochemical pollution at different elevations in mountainous areas in Hong Kong. Atmospheric Chemistry and Physics, 2013, 13, 3881-3898.	1.9	72
26	Long-term decline of global atmospheric ethane concentrations and implications for methane. Nature, 2012, 488, 490-494.	13.7	161
27	Observations of isoprene, methacrolein (MAC) and methyl vinyl ketone (MVK) at a mountain site in Hong Kong. Journal of Geophysical Research, 2012, 117, .	3.3	20
28	Boreal forest fire emissions in fresh Canadian smoke plumes: C₁-C₁₀ volatile organic compounds (VOCs), CO₂, CO, NO₂, NO, HCN and CH₃CN. Atmospheric Chemistry and Physics, 2011, 11, 6445-6463.	1.9	209
29	An ozone episode in the Pearl River Delta: Field observation and model simulation. Journal of Geophysical Research, 2010, 115, .	3.3	51
30	Emission patterns and spatiotemporal variations of halocarbons in the Pearl River Delta region, southern China. Journal of Geophysical Research, 2010, 115, .	3.3	35
31	Source origins, modeled profiles, and apportionments of halogenated hydrocarbons in the greater Pearl River Delta region, southern China. Journal of Geophysical Research, 2009, 114, .	3.3	56
32	Concurrent observations of air pollutants at two sites in the Pearl River Delta and the implication of regional transport. Atmospheric Chemistry and Physics, 2009, 9, 7343-7360.	1.9	128
33	Mechanisms that influence the formation of highâ€ozone regions in the boundary layer downwind of the Asian continent in winter and spring. Journal of Geophysical Research, 2008, 113, .	3.3	6
34	Strong evidence for negligible methyl chloroform (CH3CCl3) emissions from biomass burning. Geophysical Research Letters, 2007, 34, .	1.5	5
35	Influence of biomass burning during recent fluctuations in the slow growth of global tropospheric methane. Geophysical Research Letters, 2006, 33, .	1.5	103
36	Long-term atmospheric measurements of C1â€“C5 alkyl nitrates in the Pearl River Delta region of southeast China. Atmospheric Environment, 2006, 40, 1619-1632.	1.9	49

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37	Measurements of Trace Gases in the Inflow of South China Sea Background Air and Outflow of Regional Pollution at Tai O, Southern China. Journal of Atmospheric Chemistry, 2005, 52, 295-317.	1.4	95
38	Long-term decrease in the global atmospheric burden of tetrachloroethene (C2Cl4). Geophysical Research Letters, 2004, 31, .	1.5	38
39	Relationships of trace gases and aerosols and the emission characteristics at Lin'an, a rural site in eastern China, during spring 2001. Journal of Geophysical Research, 2004, 109, .	3.3	96
40	Carbonyl sulfide and carbon disulfide: Large-scale distributions over the western Pacific and emissions from Asia during TRACE-P. Journal of Geophysical Research, 2004, 109, .	3.3	54
41	Emissions of trace gases and particles from savanna fires in southern Africa. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	153
42	Photochemical production and evolution of selected C2â€“C5alkyl nitrates in tropospheric air influenced by Asian outflow. Journal of Geophysical Research, 2003, 108, .	3.3	53
43	Survey of whole air data from the second airborne Biomass Burning and Lightning Experiment using principal component analysis. Journal of Geophysical Research, 2003, 108, .	3.3	18
44	NMHCs and halocarbons in Asian continental outflow during the Transport and Chemical Evolution over the Pacific (TRACE-P) Field Campaign: Comparison With PEM-West B. Journal of Geophysical Research, 2003, 108, .	3.3	171
45	Dimethyl disulfide (DMDS) and dimethyl sulfide (DMS) emissions from biomass burning in Australia. Geophysical Research Letters, 2003, 30, .	1.5	63
46	Airborne measurements of cirrusâ€activated C 2 Cl 4 depletion in the upper troposphere with evidence against Cl reactions. Geophysical Research Letters, 2003, 30, .	1.5	3
47	A biomass burning source of C1-C4alkyl nitrates. Geophysical Research Letters, 2002, 29, 21-1-21-4.	1.5	38
48	Implications of the recent fluctuations in the growth rate of tropospheric methane. Geophysical Research Letters, 2002, 29, 117-1-117-4.	1.5	62
49	Impact of the leakage of liquefied petroleum gas (LPG) on Santiago Air Quality. Geophysical Research Letters, 2001, 28, 2193-2196.	1.5	53
50	Aircraft Measurements of Dimethyl Sulfide (DMS) Using a Whole Air Sampling Technique. Journal of Atmospheric Chemistry, 2001, 39, 191-213.	1.4	24
51	The Validity of Similarity Theory in the Roughness Sublayer Above Forests. Boundary-Layer Meteorology, 1998, 87, 69-99.	1.2	100