

William C Kuster

List of Publications by Year in descending order

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79
papers

7,989
citations

36303

51
h-index

64796

79
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87
all docs

87
docs citations

87
times ranked

5898
citing authors

#	ARTICLE	IF	CITATIONS
1	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11201-11224.	4.9	60
2	Simulating the Weekly Cycle of NO _x + VOC + HO _x + O ₃ Photochemical System in the South Coast of California During CalNex 2010 Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3532-3555.	3.3	8
3	An improved, automated whole air sampler and gas chromatography mass spectrometry analysis system for volatile organic compounds in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 291-313.	3.1	54
4	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7411-7433.	4.9	137
5	Biomass burning emissions and potential air quality impacts of volatile organic compounds and other trace gases from fuels common in the US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13915-13938.	4.9	177
6	Intermediate-Volatility Organic Compounds: A Large Source of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 13743-13750.	10.0	221
7	A portable and inexpensive method for quantifying ambient intermediate volatility organic compounds. <i>Atmospheric Environment</i> , 2014, 94, 126-133.	4.1	7
8	Emission factor ratios, SOA mass yields, and the impact of vehicular emissions on SOA formation. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2383-2397.	4.9	83
9	Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3427-3440.	4.9	90
10	An MCM modeling study of nitril chloride (ClNO ₂) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3789-3800.	4.9	87
11	Droplet activation properties of organic aerosols observed at an urban site during CalNex LA. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2903-2917.	3.3	73
12	Source Signature of Volatile Organic Compounds from Oil and Natural Gas Operations in Northeastern Colorado. <i>Environmental Science & Technology</i> , 2013, 47, 1297-1305.	10.0	305
13	Emission ratios of anthropogenic volatile organic compounds in northern mid-latitude megacities: Observations versus emission inventories in Los Angeles and Paris. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2041-2057.	3.3	210
14	Detailed chemical characterization of unresolved complex mixtures in atmospheric organics: Insights into emission sources, atmospheric processing, and secondary organic aerosol formation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6783-6796.	3.3	69
15	Coupling field and laboratory measurements to estimate the emission factors of identified and unidentified trace gases for prescribed fires. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 89-116.	4.9	266
16	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9233-9257.	3.3	231
17	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4974-4990.	3.3	167
18	Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekday-weekend effect. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5018-5028.	3.3	54

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19	The impact of shipping, agricultural, and urban emissions on single particle chemistry observed aboard the R/V <i>Atlantis</i> during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5003-5017.	3.3	33
20	Vertically Resolved Measurements of Nighttime Radical Reservoirs in Los Angeles and Their Contribution to the Urban Radical Budget. <i>Environmental Science & Technology</i> , 2012, 46, 10965-10973.	10.0	127
21	Organosulfates as Tracers for Secondary Organic Aerosol (SOA) Formation from 2-Methyl-3-Buten-2-ol (MBO) in the Atmosphere. <i>Environmental Science & Technology</i> , 2012, 46, 9437-9446.	10.0	128
22	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	189
23	Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	97
24	The sea breeze/land breeze circulation in Los Angeles and its influence on nitryl chloride production in this region. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
25	Increasing atmospheric burden of ethanol in the United States. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	41
26	Evidence of rapid production of organic acids in an urban air mass. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	89
27	Measurements of volatile organic compounds at a suburban ground site (T1) in Mexico City during the MILAGRO 2006 campaign: measurement comparison, emission ratios, and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2399-2421.	4.9	127
28	Ozone production in remote oceanic and industrial areas derived from ship based measurements of peroxy radicals during TexAQS 2006. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2471-2485.	4.9	13
29	Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10219-10241.	4.9	81
30	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model " Part 2: Application to BEARPEX-2007 observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1269-1294.	4.9	85
31	Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7669-7686.	4.9	329
32	Emissions and photochemistry of oxygenated VOCs in urban plumes in the Northeastern United States. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7081-7096.	4.9	41
33	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8883-8897.	4.9	41
34	The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	99
35	Volatile organic compound emissions from switchgrass cultivars used as biofuel crops. <i>Atmospheric Environment</i> , 2011, 45, 3333-3337.	4.1	30
36	Modelled and measured concentrations of peroxy radicals and nitrate radical in the U.S. Gulf Coast region during TexAQS 2006. <i>Journal of Atmospheric Chemistry</i> , 2011, 68, 331-362.	3.2	11

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37	VOC identification and inter-comparison from laboratory biomass burning using PTR-MS and PIT-MS. <i>International Journal of Mass Spectrometry</i> , 2011, 303, 6-14.	1.5	123
38	Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8966-8971.	7.1	166
39	Correction for Roberts et al., Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17234-17234.	7.1	6
40	Investigation of the correlation between odd oxygen and secondary organic aerosol in Mexico City and Houston. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8947-8968.	4.9	107
41	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5361-5370.	4.9	54
42	Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10223-10236.	4.9	104
43	Development and validation of a portable gas phase standard generation and calibration system for volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 683-691.	3.1	61
44	Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	89
45	Comparison of air pollutant emissions among mega-cities. <i>Atmospheric Environment</i> , 2009, 43, 6435-6441.	4.1	123
46	Source Identification of Reactive Hydrocarbons and Oxygenated VOCs in the Summertime in Beijing. <i>Environmental Science & Technology</i> , 2009, 43, 75-81.	10.0	92
47	Regional variation of the dimethyl sulfide oxidation mechanism in the summertime marine boundary layer in the Gulf of Maine. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	17
48	Measurements of volatile organic compounds during the 2006 TexAQ/GoMACCS campaign: Industrial influences, regional characteristics, and diurnal dependencies of the OH reactivity. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	103
49	Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3425-3442.	4.9	114
50	In-situ ambient quantification of monoterpenes, sesquiterpenes, and related oxygenated compounds during BEARPEX 2007: implications for gas- and particle-phase chemistry. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5505-5518.	4.9	172
51	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7623-7641.	4.9	105
52	A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. <i>Atmospheric Environment</i> , 2008, 42, 5771-5786.	4.1	32
53	Comparison of receptor models for source apportionment of volatile organic compounds in Beijing, China. <i>Environmental Pollution</i> , 2008, 156, 174-183.	7.5	161
54	Source Apportionment of Ambient Volatile Organic Compounds in Beijing. <i>Environmental Science & Technology</i> , 2007, 41, 4348-4353.	10.0	273

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55	Vertical profiles in NO ₃ and N ₂ O ₅ measured from an aircraft: Results from the NOAA P ³ and surface platforms during the New England Air Quality Study 2004. Journal of Geophysical Research, 2007, 112, .	3.3	75
56	Analysis of the isoprene chemistry observed during the New England Air Quality Study (NEAQS) 2002 intensive experiment. Journal of Geophysical Research, 2006, 111, .	3.3	34
57	Observation of daytime N ₂ O ₅ 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
58	Reactivity and loss mechanisms of NO ₃ and N ₂ O ₅ in a polluted marine environment: Results from in situ measurements during New England Air Quality Study 2002. Journal of Geophysical Research, 2006, 111, .	3.3	99
59	Temporal Changes in U.S. Benzene Emissions Inferred from Atmospheric Measurements. Environmental Science & Technology, 2005, 39, 1403-1408.	10.0	61
60	Inter-comparison of Laser Photoacoustic Spectroscopy and Gas Chromatography Techniques for Measurements of Ethene in the Atmosphere. Environmental Science & Technology, 2005, 39, 4581-4585.	10.0	8
61	Online Volatile Organic Compound Measurements Using a Newly Developed Proton-Transfer Ion-Trap Mass Spectrometry Instrument during New England Air Quality Study/Intercontinental Transport and Chemical Transformation 2004: Performance, Intercomparison, and Compound Identification. Environmental Science & Technology, 2005, 39, 5390-5397.	10.0	60
62	Proton-Transfer-Reaction Mass Spectrometry as a New Tool for Real Time Analysis of Root-Secreted Volatile Organic Compounds in Arabidopsis. Plant Physiology, 2004, 135, 47-58.	4.8	204
63	Nonmethane hydrocarbon and oxy hydrocarbon measurements during the 2002 New England Air Quality Study. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	108
64	Validation of Atmospheric VOC Measurements by Proton-Transfer- Reaction Mass Spectrometry Using a Gas-Chromatographic Preseparation Method. Environmental Science & Technology, 2003, 37, 2494-2501.	10.0	248
65	Use of proton-transfer-reaction mass spectrometry to characterize volatile organic compound sources at the La Porte super site during the Texas Air Quality Study 2000. Journal of Geophysical Research, 2003, 108, .	3.3	91
66	An examination of the chemistry of peroxy-carboxylic nitric anhydrides and related volatile organic compounds during Texas Air Quality Study 2000 using ground-based measurements. Journal of Geophysical Research, 2003, 108, ACH 4-1-ACH 4-12.	3.3	48
67	Alkyl nitrate measurements during STERAO 1996 and NARE 1997: Intercomparison and survey of results. Journal of Geophysical Research, 2001, 106, 23043-23053.	3.3	15
68	Measurements of PAN, PPN, and MPAN made during the 1994 and 1995 Nashville Intensives of the Southern Oxidant Study: Implications for regional ozone production from biogenic hydrocarbons. Journal of Geophysical Research, 1998, 103, 22473-22490.	3.3	106
69	Nonmethane hydrocarbon measurements during the Tropospheric OH Photochemistry Experiment. Journal of Geophysical Research, 1997, 102, 6315-6324.	3.3	53
70	Photochemistry of formaldehyde during the 1993 Tropospheric OH Photochemistry Experiment. Journal of Geophysical Research, 1997, 102, 6283-6296.	3.3	58
71	Evaluation of ozone precursor source types using principal component analysis of ambient air measurements in rural Alabama. Journal of Geophysical Research, 1995, 100, 22853.	3.3	38
72	Evolution of alkyl nitrates with air mass age. Journal of Geophysical Research, 1995, 100, 22805.	3.3	104

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73	Hydrocarbon measurements in the southeastern United States: The Rural Oxidants in the Southern Environment (ROSE) Program 1990. <i>Journal of Geophysical Research</i> , 1995, 100, 25945.	3.3	191
74	The observation of a C ₅ alcohol emission in a North American pine forest. <i>Geophysical Research Letters</i> , 1993, 20, 1039-1042.	4.0	145
75	Uptake of COS by growing vegetation: A major tropospheric sink. <i>Journal of Geophysical Research</i> , 1988, 93, 14186-14192.	3.3	96
76	Quantitation of the losses of gaseous sulfur compounds to enclosure walls. <i>Environmental Science & Technology</i> , 1987, 21, 810-815.	10.0	39
77	The measurement of natural sulfur emissions from soils and vegetation: Three sites in the Eastern United States revisited. <i>Journal of Atmospheric Chemistry</i> , 1987, 5, 439-467.	3.2	138
78	Calibration and tests of the filter-collection method for measuring clean-air, ambient levels of nitric acid. <i>Atmospheric Environment</i> , 1983, 17, 1355-1364.	1.0	76
79	Emission ratios of anthropogenic VOC in northern mid-latitude megacities: observations vs. emission inventories in Los Angeles and Paris.. <i>Journal of Geophysical Research</i> , 0, , .	3.3	10