

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
g-index

87
all docs

87
docs citations

87
times ranked

5898
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Source Apportionment of Ambient Volatile Organic Compounds in Beijing. <i>Environmental Science & Technology</i> , 2007, 41, 4348-4353.	10.0	273
4	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
5	Validation of Atmospheric VOC Measurements by Proton-Transfer- Reaction Mass Spectrometry Using a Gas-Chromatographic Preseparation Method. <i>Environmental Science & Technology</i> , 2003, 37, 2494-2501.	10.0	248
6	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
7	Intermediate-Volatility Organic Compounds: A Large Source of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 13743-13750.	10.0	221
8	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
9	Proton-Transfer-Reaction Mass Spectrometry as a New Tool for Real Time Analysis of Root-Secreted Volatile Organic Compounds in Arabidopsis. <i>Plant Physiology</i> , 2004, 135, 47-58.	4.8	204
10	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
11	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	189
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	Comparison of air pollutant emissions among mega-cities. <i>Atmospheric Environment</i> , 2009, 43, 6435-6441.	4.1	123
24	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
25	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
26	Nonmethane hydrocarbon and oxy hydrocarbon measurements during the 2002 New England Air Quality Study. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	108
27	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
28	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. <i>Journal of Geophysical Research</i> , 1998, 103, 22473-22490.	3.3	106
29	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
30	Evolution of alkyl nitrates with air mass age. <i>Journal of Geophysical Research</i> , 1995, 100, 22805.	3.3	104
31	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
32	Measurements of volatile organic compounds during the 2006 TexAQSGoMACCS campaign: Industrial influences, regional characteristics, and diurnal dependencies of the OH reactivity. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	103
33	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. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	99
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	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
36	Uptake of COS by growing vegetation: A major tropospheric sink. <i>Journal of Geophysical Research</i> , 1988, 93, 14186-14192.	3.3	96

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37	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
38	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. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	91
39	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
40	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
41	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
42	An MCM modeling study of nitryl 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
43	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
44	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
45	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
46	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
47	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. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	75
48	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
49	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
50	Temporal Changes in U.S. Benzene Emissions Inferred from Atmospheric Measurements. <i>Environmental Science & Technology</i> , 2005, 39, 1403-1408.	10.0	61
51	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
52	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: A Performance, Intercomparison, and Compound Identification. <i>Environmental Science & Technology</i> , 2005, 39, 5390-5397.	10.0	60
53	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
54	Photochemistry of formaldehyde during the 1993 Tropospheric OH Photochemistry Experiment. <i>Journal of Geophysical Research</i> , 1997, 102, 6283-6296.	3.3	58

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55	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5361-5370.	4.9	54
56	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
57	Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekdayâ€weekend effect. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5018-5028.	3.3	54
58	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
59	Nonmethane hydrocarbon measurements during the Tropospheric OH Photochemistry Experiment. <i>Journal of Geophysical Research</i> , 1997, 102, 6315-6324.	3.3	53
60	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. <i>Journal of Geophysical Research</i> , 2003, 108, ACH 4-1-ACH 4-12.	3.3	48
61	Observation of daytime N ₂ O ₅ in the marine boundary layer during New England Air Quality Study-Intercontinental Transport and Chemical Transformation 2004. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	44
62	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
63	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
64	Increasing atmospheric burden of ethanol in the United States. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	41
65	Quantitation of the losses of gaseous sulfur compounds to enclosure walls. <i>Environmental Science & Technology</i> , 1987, 21, 810-815.	10.0	39
66	Evaluation of ozone precursor source types using principal component analysis of ambient air measurements in rural Alabama. <i>Journal of Geophysical Research</i> , 1995, 100, 22853.	3.3	38
67	Analysis of the isoprene chemistry observed during the New England Air Quality Study (NEAQS) 2002 intensive experiment. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	34
68	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
69	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
70	Volatile organic compound emissions from switchgrass cultivars used as biofuel crops. <i>Atmospheric Environment</i> , 2011, 45, 3333-3337.	4.1	30
71	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
72	Alkyl nitrate measurements during STERAO 1996 and NARE 1997: Intercomparison and survey of results. <i>Journal of Geophysical Research</i> , 2001, 106, 23043-23053.	3.3	15

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73	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
74	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
75	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
76	Inter-comparison of Laser Photoacoustic Spectroscopy and Gas Chromatography Techniques for Measurements of Ethene in the Atmosphere. <i>Environmental Science & Technology</i> , 2005, 39, 4581-4585.	10.0	8
77	Simulating the Weekly Cycle of NO _x + VOC + HO _x + O ₃ Photochemical System in the South Coast of California During CalNex's 2010 Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3532-3555.	3.3	8
78	A portable and inexpensive method for quantifying ambient intermediate volatility organic compounds. <i>Atmospheric Environment</i> , 2014, 94, 126-133.	4.1	7
79	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