D R Blake

List of Publications by Citations

603	36,405	104	154
papers	citations	h-index	g-index
634	40,107	7.6	6.58
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
603	Three decades of global methane sources and sinks. *Nature Geoscience*, **2013**, 6, 813-823	18	1273
602	The global methane budget 2000–2012. *Earth System Science Data*, **2016**, 8, 697-751	10.4	628
601	Transport of Asian air pollution to North America. *Geophysical Research Letters*, **1999**, 26, 711-714	4.8	467
600	The Global Methane Budget 2000–2017. *Earth System Science Data*, **2020**, 12, 1561-1623	10.4	420
599	Physical, chemical, and optical properties of regional hazes dominated by smoke in Brazil. *Journal of Geophysical Research*, **1998**, 103, 32059-32080		379
598	Continuing worldwide increase in tropospheric methane, 1978 to 1987. *Science*, **1988**, 239, 1129-31	32.2	370
597	Evidence from the Pacific troposphere for large global sources of oxygenated organic compounds. *Nature*, **2001**, 410, 1078-81	47.5	326
596	Origin of ozone and NOx in the tropical troposphere: A photochemical analysis of aircraft observations over the South Atlantic basin. *Journal of Geophysical Research*, **1996**, 101, 24235-24250		303
595	Acetone in the atmosphere: Distribution, sources, and sinks. *Journal of Geophysical Research*, **1994**, 99, 1805		295
594	Air quality during the 2008 Beijing Olympics: secondary pollutants and regional impact. *Atmospheric Chemistry and Physics*, **2010**, 10, 7603-7615	6.8	290
593	Volatile organic compounds in 43 Chinese cities. *Atmospheric Environment*, **2005**, 39, 5979-5990	5.3	276
592	Emission factors of hydrocarbons, halocarbons, trace gases and particles from biomass burning in Brazil. *Journal of Geophysical Research*, **1998**, 103, 32107-32118		271
591	Description of the analysis of a wide range of volatile organic compounds in whole air samples collected during PEM-tropics A and B. *Analytical Chemistry*, **2001**, 73, 3723-31	7.7	271
590	Urban leakage of liquefied petroleum gas and its impact on Mexico city air quality. *Science*, **1995**, 269, 953-6	32.2	257
589	Hydrocarbon and halocarbon measurements as photochemical and dynamical indicators of atmospheric hydroxyl, atomic chlorine, and vertical mixing obtained during Lagrangian flights. *Journal of Geophysical Research*, **1996**, 101, 4331-4340		255
588	ENERGY ANDMATERIALFLOWTHROUGH THEURBANECOSYSTEM. *Annual Review of Environment and Resources*, **2000**, 25, 685-740		247
587	Global budget of methanol: Constraints from atmospheric observations. *Journal of Geophysical Research*, **2005**, 110,		229

586	The spontaneous combustion of coal and its by-products in the Witbank and Sasolburg coalfields of South Africa. *International Journal of Coal Geology*, **2007**, 72, 124-140	5.4	229
585	Potential impact of iodine on tropospheric levels of ozone and other critical oxidants. *Journal of Geophysical Research*, **1996**, 101, 2135-2147		226
584	Distribution and fate of selected oxygenated organic species in the troposphere and lower stratosphere over the Atlantic. *Journal of Geophysical Research*, **2000**, 105, 3795-3805		225
583	Chemical data quantify Deepwater Horizon hydrocarbon flow rate and environmental distribution. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 20246-53	11.1	223
582	Airborne measurement of OH reactivity during INTEX-B. *Atmospheric Chemistry and Physics*, **2009**, 9, 163683	6.8	222
581	Convective transport of biomass burning emissions over Brazil during TRACE A. *Journal of Geophysical Research*, **1996**, 101, 23993-24012		220
580	Determination of urban volatile organic compound emission ratios and comparison with an emissions database. *Journal of Geophysical Research*, **2007**, 112,		215
579	Ground-level ozone in four Chinese cities: precursors, regional transport and heterogeneous processes. *Atmospheric Chemistry and Physics*, **2014**, 14, 13175-13188	6.8	209
578	Monoaromatic compounds in ambient air of various cities: a focus on correlations between the xylenes and ethylbenzene. *Atmospheric Environment*, **2001**, 35, 135-149	5.3	194
577	Analysis of the atmospheric distribution, sources, and sinks of oxygenated volatile organic chemicals based on measurements over the Pacific during TRACE-P. *Journal of Geophysical Research* , **2004**, 109,		191
576	Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations. *Atmospheric Chemistry and Physics*, **2010**, 10, 9739-9760	6.8	187
575	Space-based formaldehyde measurements as constraints on volatile organic compound emissions in east and south Asia and implications for ozone. *Journal of Geophysical Research*, **2007**, 112,		185
574	The Tropical Forest and Fire Emissions Experiment: overview and airborne fire emission factor measurements. *Atmospheric Chemistry and Physics*, **2007**, 7, 5175-5196	6.8	184
573	Gaseous and particulate emissions from prescribed burning in Georgia. *Environmental Science & Technology*, **2005**, 39, 9049-56	10.2	183
572	Mixing ratios of volatile organic compounds (VOCs) in the atmosphere of Karachi, Pakistan. *Atmospheric Environment*, **2002**, 36, 3429-3443	5.3	180
571	Evolution of gases and particles from a savanna fire in South Africa. *Journal of Geophysical Research* , **2003**, 108, n/a-n/a		180
570	Photochemistry in biomass burning plumes and implications for tropospheric ozone over the tropical South Atlantic. *Journal of Geophysical Research*, **1998**, 103, 8401-8423		179
569	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	6.8	178

568	Measurements of nonmethane hydrocarbons in 28 United States cities. *Atmospheric Environment*, **2008**, 42, 170-182	5.3	175
567	Biomass burning emissions and vertical distribution of atmospheric methyl halides and other reduced carbon gases in the South Atlantic region. *Journal of Geophysical Research*, **1996**, 101, 24151-24164		174
566	The tropical forest and fire emissions experiment: Emission, chemistry, and transport of biogenic volatile organic compounds in the lower atmosphere over Amazonia. *Journal of Geophysical Research*, **2007**, 112,		173
565	Evolution of mixing state of black carbon particles: Aircraft measurements over the western Pacific in March 2004. *Geophysical Research Letters*, **2007**, 34,	4.8	168
564	Characterization of trace gases measured over Alberta oil sands mining operations: 76 speciated C₂[illegible]₁₀ volatile organic compounds (VOCs), CO₂, CH₄, CO, NO, NO₂, NO_y, O₃ and SO₂.	6.8	168
563	Asian outflow and trans-Pacific transport of carbon monoxide and ozone pollution: An integrated satellite, aircraft, and model perspective. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		166
562	Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. *Journal of Geophysical Research*, **2011**, 116,		163
561	Distributions of brominated organic compounds in the troposphere and lower stratosphere. *Journal of Geophysical Research*, **1999**, 104, 21513-21535		166
560	Processes influencing ozone levels in Alaskan forest fire plumes during long-range transport over the North Atlantic. *Journal of Geophysical Research*, **2007**, 112,		158
559	Regional-scale chemical transport modeling in support of the analysis of observations obtained during the TRACE-P experiment. *Journal of Geophysical Research*, **2003**, 108,		152
558	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,		152
557	Reactive nitrogen and ozone over the western Pacific: Distribution, partitioning, and sources. *Journal of Geophysical Research*, **1996**, 101, 1793-1808		151
556	Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources. *Atmospheric Chemistry and Physics*, **2012**, 12, 1423-1447	6.8	149
555	Breath ethanol and acetone as indicators of serum glucose levels: an initial report. *Diabetes Technology and Therapeutics*, **2005**, 7, 115-23	7.9	144
554	Photosynthetic control of atmospheric carbonyl sulfide during the growing season. *Science*, **2008**, 322, 1085-8	32.2	148
553	Influence of plumes from biomass burning on atmospheric chemistry over the equatorial and tropical South Atlantic during CITE 3. *Journal of Geophysical Research*, **1994**, 99, 12793		147
552	Reduced methane growth rate explained by decreased Northern Hemisphere microbial sources. *Nature*, **2011**, 476, 194-7	47.5	146
551	Formaldehyde distribution over North America: Implications for satellite retrievals of formaldehyde columns and isoprene emission. *Journal of Geophysical Research*, **2006**, 111,		144

550	Quantifying sources of methane using light alkanes in the Los Angeles basin, California. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 4974-4990	4.3	140
549	HOx chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		142
548	Photochemistry of HO x in the upper troposphere at northern midlatitudes. *Journal of Geophysical Research*, **2000**, 105, 3877-3892		141
547	Low ozone in the marine boundary layer of the tropical Pacific Ocean: Photochemical loss, chlorine atoms, and entrainment. *Journal of Geophysical Research*, **1996**, 101, 1907-1917		141
546	Recent decreases in fossil-fuel emissions of ethane and methane derived from firn air. *Nature*, **2011** , 476, 198-201	47.5	140
545	Evaluating regional emission estimates using the TRACE-P observations. *Journal of Geophysical Research*, **2003**, 108,		140
544	Methane emissions from the 2015 Aliso Canyon blowout in Los Angeles, CA. *Science*, **2016**, 351, 1317-20	32.2	136
543	Organic aerosol formation downwind from the Deepwater Horizon oil spill. *Science*, **2011**, 331, 1295-9	32.2	137
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541	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. *Atmospheric Chemistry and Physics*, **2012**, 12, 3939-3949	6.8	136
540	Comprehensive laboratory measurements of biomass-burning emissions: 2. First intercomparison of open-path FTIR, PTR-MS, and GC-MS/FID/ECD. *Journal of Geophysical Research*, **2004**, 109,		137
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538	Methyl iodide: Atmospheric budget and use as a tracer of marine convection in global models. *Journal of Geophysical Research*, **2002**, 107, ACH 8-1-ACH 8-12		135
537	Measurements of reactive trace gases and variable O₃ formation rates in some South Carolina biomass burning plumes. *Atmospheric Chemistry and Physics*, **2013**, 13, 1141-1165	6.8	135
536	Ambient mixing ratios of nonmethane hydrocarbons (NMHCs) in two major urban centers of the Pearl River Delta (PRD) region: Guangzhou and Dongguan. *Atmospheric Environment*, **2008**, 42, 4393-4408	5.3	134
535	Global budget of ethane and regional constraints on U.S. sources. *Journal of Geophysical Research*, **2008**, 113,		132
534	Evolution of mixing state of black carbon in polluted air from Tokyo. *Geophysical Research Letters*, **2007**, 34,	4.8	132
533	Assessment of ozone photochemistry in the western North Pacific as inferred from PEM-West A observations during the fall 1991. *Journal of Geophysical Research*, **1996**, 101, 2111-2134		131

532	Seasonal changes in the transport of pollutants into the Arctic troposphere-model study. *Journal of Geophysical Research*, **2003**, 108,		131
531	Emissions of trace gases and particles from savanna fires in southern Africa. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		131
530	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEACRS) and ground-based (SOAS) observations in the Southeast US. *Atmospheric Chemistry and Physics*, **2016**, 16, 5969-5991	6.8	127
529	Impaired glucose tolerance, but not impaired fasting glucose, is associated with increased levels of coronary heart disease risk factors: results from the Baltimore Longitudinal Study on Aging. *Diabetes*, **2004**, 53, 2095-100	0.7	126
528	Aerosols from biomass burning over the tropical South Atlantic region: Distributions and impacts. *Journal of Geophysical Research*, **1996**, 101, 24117-24137		124
527	Ozone production and hydrocarbon reactivity in Hong Kong, Southern China. *Atmospheric Chemistry and Physics*, **2007**, 7, 557-573	6.8	124
526	In situ measurements of HCN and CH3CN over the Pacific Ocean: Sources, sinks, and budgets. *Journal of Geophysical Research*, **2003**, 108,		124
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521	Three-dimensional distribution of nonmenthane hydrocarbons and halocarbons over the northwestern Pacific during the 1991 Pacific Exploratory Mission (PEM-West A). *Journal of Geophysical Research*, **1996**, 101, 1763-1778		121
520	Biomass burning and urban air pollution over the Central Mexican Plateau. *Atmospheric Chemistry and Physics*, **2009**, 9, 4929-4944	6.8	119
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508	Tropospheric hydroxyl and atomic chlorine concentrations, and mixing timescales determined from hydrocarbon and halocarbon measurements made over the Southern Ocean. *Journal of Geophysical Research*, **1999**, 104, 21819-21828		109
507	Atmospheric chemistry in the Arctic and subarctic: Influence of natural fires, industrial emissions, and stratospheric inputs. *Journal of Geophysical Research*, **1992**, 97, 16731		109
506	Assessment of upper tropospheric HOx sources over the tropical Pacific based on NASA GTE/PEM data: Net effect on HOx and other photochemical parameters. *Journal of Geophysical Research*, **1999**, 104, 16255-16273		108
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502	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	6.8	104
501	Chemical characteristics of continental outflow from Asia to the troposphere over the western Pacific Ocean during February-March 1994: Results from PEM-West B. *Journal of Geophysical Research*, **1997**, 102, 28255-28274		105
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495	Oxidative capacity and radical chemistry in the polluted atmosphere of Hong Kong and Pearl River Delta region: analysis of a severe photochemical smog episode. *Atmospheric Chemistry and Physics*, **2016**, 16, 9891-9903	6.8	101
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473	Measurements of Pollution in the Troposphere (MOPITT) validation exercises during summer 2004 field campaigns over North America. *Journal of Geophysical Research*, **2007**, 112,		88
472	Influence of biomass burning during recent fluctuations in the slow growth of global tropospheric methane. *Geophysical Research Letters*, **2006**, 33,	4.8	88
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447	Origin of tropospheric ozone at remote high northern latitudes in summer. *Journal of Geophysical Research*, **1996**, 101, 4175-4188		75
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