Tami Bond

List of Publications by Citations

111 papers	22,518 citations	52 h-index	117 g-index
117 ext. papers	25,108 ext. citations	6.9 avg, IF	6.65 L-index

#	Paper	IF	Citations
111	Bounding the role of black carbon in the climate system: A scientific assessment. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 5380-5552	4.4	3330
110	Light Absorption by Carbonaceous Particles: An Investigative Review. *Aerosol Science and Technology*, **2006**, 40, 27-67	3.4	1871
109	Historical (1850–2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. *Atmospheric Chemistry and Physics*, **2010**, 10, 7017-7039	6.8	1724
108	A technology-based global inventory of black and organic carbon emissions from combustion. *Journal of Geophysical Research*, **2004**, 109,		1653
107	An inventory of gaseous and primary aerosol emissions in Asia in the year 2000. *Journal of Geophysical Research*, **2003**, 108,		1594
106	Calibration and Intercomparison of Filter-Based Measurements of Visible Light Absorption by Aerosols. *Aerosol Science and Technology*, **1999**, 30, 582-600	3.4	783
105	Emissions of primary aerosol and precursor gases in the years 2000 and 1750 prescribed data-sets for AeroCom. *Atmospheric Chemistry and Physics*, **2006**, 6, 4321-4344	6.8	765
104	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980–2010 period. *Climatic Change*, **2011**, 109, 163-190	4.5	623
103	Historical emissions of black and organic carbon aerosol from energy-related combustion, 1850–2000. *Global Biogeochemical Cycles*, **2007**, 21, n/a-n/a	5.9	601
102	Historical (1750–2014) anthropogenic emissions of reactive gases and aerosols from the Community Emissions Data System (CEDS). *Geoscientific Model Development*, **2018**, 11, 369-408	6.3	585
101	Evaluation of black carbon estimations in global aerosol models. *Atmospheric Chemistry and Physics*, **2009**, 9, 9001-9026	6.8	510
100	Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. *Global Biogeochemical Cycles*, **2008**, 22, n/a-n/a	5.9	504
99	Light absorption by organic carbon from wood combustion. *Atmospheric Chemistry and Physics*, **2010**, 10, 1773-1787	6.8	495
98	Limitations in the enhancement of visible light absorption due to mixing state. *Journal of Geophysical Research*, **2006**, 111,		470
97	Spectral absorption properties of atmospheric aerosols. *Atmospheric Chemistry and Physics*, **2007**, 7, 5937–5943	6.8	441
96	Black carbon emissions in China. *Atmospheric Environment*, **2001**, 35, 4281-4296	5.3	438
95	Critical assessment of the current state of scientific knowledge, terminology, and research needs concerning the role of organic aerosols in the atmosphere, climate, and global change. *Atmospheric Chemistry and Physics*, **2006**, 6, 2017-2038	6.8	394

94	All-time releases of mercury to the atmosphere from human activities. *Environmental Science & Technology*, **2011**, 45, 10485-91	10.3	342
93	Spectral dependence of visible light absorption by carbonaceous particles emitted from coal combustion. *Geophysical Research Letters*, **2001**, 28, 4075-4078	4.9	250
92	Color of brown carbon: A model for ultraviolet and visible light absorption by organic carbon aerosol. *Geophysical Research Letters*, **2007**, 34,	4.9	246
91	Laboratory and field investigations of particulate and carbon monoxide emissions from traditional and improved cookstoves. *Atmospheric Environment*, **2009**, 43, 1170-1181	5.3	240
90	Can reducing black carbon emissions counteract global warming?. *Environmental Science & Technology*, **2005**, 39, 5921-6	10.3	235
89	Emission factors and real-time optical properties of particles emitted from traditional wood burning cookstoves. *Environmental Science & Technology*, **2006**, 40, 6750-7	10.3	232
88	Combustion iron distribution and deposition. *Global Biogeochemical Cycles*, **2008**, 22, n/a-n/a	5.9	225
87	Global impacts of aerosols from particular source regions and sectors. *Journal of Geophysical Research*, **2007**, 112,		191
86	Attribution of climate forcing to economic sectors. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 3382-7	11.5	186
85	Analysis of Multi-angle Imaging SpectroRadiometer (MISR) aerosol optical depths over greater India during winter 2001–2004. *Geophysical Research Letters*, **2004**, 31,	4.9	170
84	On the future of carbonaceous aerosol emissions. *Journal of Geophysical Research*, **2004**, 109,		165
83	Export efficiency of black carbon aerosol in continental outflow: Global implications. *Journal of Geophysical Research*, **2005**, 110,		154
82	A global modeling study on carbonaceous aerosol microphysical characteristics and radiative effects. *Atmospheric Chemistry and Physics*, **2010**, 10, 7439-7456	6.8	125
81	How much can the vertical distribution of black carbon affect its global direct radiative forcing?. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	124
80	Asian aerosols: current and year 2030 distributions and implications to human health and regional climate change. *Environmental Science & Technology*, **2009**, 43, 5811-7	10.3	124
79	Light absorption properties and radiative effects of primary organic aerosol emissions. *Environmental Science & Technology*, **2015**, 49, 4868-77	10.3	119
78	Household light makes global heat: high black carbon emissions from kerosene wick lamps. *Environmental Science & Technology*, **2012**, 46, 13531-8	10.3	118
77	Aerosol direct radiative effects over the northwest Atlantic, northwest Pacific, and North Indian Oceans: estimates based on in-situ chemical and optical measurements and chemical transport modeling. *Atmospheric Chemistry and Physics*, **2006**, 6, 1657-1732	6.8	115

76	A laboratory comparison of the global warming impact of five major types of biomass cooking stoves. *Energy for Sustainable Development*, **2008**, 12, 56-65	5.4	110
75	Yellow Beads and Missing Particles: Trouble Ahead for Filter-Based Absorption Measurements. *Aerosol Science and Technology*, **2007**, 41, 630-637	3.4	108
74	Quantifying immediate radiative forcing by black carbon and organic matter with the Specific Forcing Pulse. *Atmospheric Chemistry and Physics*, **2011**, 11, 1505-1525	6.8	106
73	Primary particle emissions from residential coal burning: Optical properties and size distributions. *Journal of Geophysical Research*, **2002**, 107, ICC 9-1-ICC 9-14		100
72	Gas/particle partitioning and global distribution of polycyclic aromatic hydrocarbons--a modelling approach. *Chemosphere*, **2009**, 76, 98-106	8.4	98
71	Compositional characterization of PM2.5 emitted from in-use diesel vehicles. *Atmospheric Environment*, **2010**, 44, 15-22	5.3	95
70	Global atmospheric impacts of residential fuels. *Energy for Sustainable Development*, **2004**, 8, 20-32	5.4	91
69	Global biofuel use, 1850–2000. *Global Biogeochemical Cycles*, **2007**, 21, n/a-n/a	5.9	89
68	Global emission projections of particulate matter (PM): I. Exhaust emissions from on-road vehicles. *Atmospheric Environment*, **2011**, 45, 4830-4844	5.3	76
67	Chemical, microphysical and optical properties of primary particles from the combustion of biomass fuels. *Environmental Science & Technology*, **2008**, 42, 8829-34	10.3	76
66	Black carbon absorption at the global scale is affected by particle-scale diversity in composition. *Nature Communications*, **2016**, 7, 12361	17.4	74
65	Emissions from South Asian brick production. *Environmental Science & Technology*, **2014**, 48, 6477-83	10.3	59
64	Assessment of air pollutant emissions from brick kilns. *Atmospheric Environment*, **2014**, 98, 549-553	5.3	58
63	Two hundred fifty years of aerosols and climate: the end of the age of aerosols. *Atmospheric Chemistry and Physics*, **2014**, 14, 537-549	6.8	57
62	Can warming particles enter global climate discussions?. *Environmental Research Letters*, **2007**, 2, 045030	6.2	55
61	Light Absorption by Primary Particle Emissions from a Lignite Burning Plant. *Environmental Science & Technology*, **1999**, 33, 3887-3891	10.3	54
60	Characterizing biofuel combustion with patterns of real-time emission data (PaRTED). *Environmental Science & Technology*, **2012**, 46, 6110-7	10.3	53
59	Measuring Organic Carbon and Black Carbon in Rainwater: Evaluation of Methods. *Aerosol Science and Technology*, **2014**, 48, 239-250	3.4	52

58	Climate-relevant properties of diesel particulate emissions: results from a piggyback study in Bangkok, Thailand. *Environmental Science & Technology*, **2009**, 43, 4213-8	10.3	50
57	Truncation and Angular-Scattering Corrections for Absorbing Aerosol in the TSI 3563 Nephelometer. *Aerosol Science and Technology*, **2009**, 43, 866-871	3.4	47
56	Quantifying the emission of light-absorbing particles: Measurements tailored to climate studies. *Geophysical Research Letters*, **1998**, 25, 337-340	4.9	41
55	Black Carbon Emissions from Associated Natural Gas Flaring. *Environmental Science & Technology*, **2016**, 50, 2075-81	10.3	40
54	Explaining variance in black carbon aging timescale. *Atmospheric Chemistry and Physics*, **2015**, 15, 3173-3191	5.1	38
53	Global emission projections for the transportation sector using dynamic technology modeling. *Atmospheric Chemistry and Physics*, **2014**, 14, 5709-5733	6.8	37
52	Revisiting Thermal-Optical Analyses of Carbonaceous Aerosol Using a Physical Model. *Aerosol Science and Technology*, **2008**, 42, 930-948	3.4	37
51	Laboratory-Measured Optical Properties of Inorganic and Organic Aerosols at Relative Humidities up to 95%. *Aerosol Science and Technology*, **2012**, 46, 178-190	3.4	36
50	Toward Reduced Representation of Mixing State for Simulating Aerosol Effects on Climate. *Bulletin of the American Meteorological Society*, **2017**, 98, 971-980	6.1	34
49	Impact of Changes to the Atmospheric Soluble Iron Deposition Flux on Ocean Biogeochemical Cycles in the Anthropocene. *Global Biogeochemical Cycles*, **2020**, 34, e2019GB006448	5.9	33
48	Linking future aerosol radiative forcing to shifts in source activities. *Geophysical Research Letters*, **2007**, 34,	4.9	33
47	Emissions from residential combustion considering end-uses and spatial constraints: Part II, emission reduction scenarios. *Atmospheric Environment*, **2016**, 124, 1-11	5.3	32
46	Climate-relevant properties of primary particulate emissions from oil and natural gas combustion. *Atmospheric Environment*, **2006**, 40, 3574-3587	5.3	31
45	Emission Measurements from Traditional Biomass Cookstoves in South Asia and Tibet. *Environmental Science & Technology*, **2019**, 53, 3306-3314	10.3	29
44	Climate-Relevant Particulate Emission Characteristics of a Coal Fired Heating Plant. *Environmental Science & Technology*, **1999**, 33, 3881-3886	10.3	26
43	Black carbon emissions in Russia: A critical review. *Atmospheric Environment*, **2017**, 163, 9-21	5.3	25
42	Field Emission Measurements of Solid Fuel Stoves in Yunnan, China Demonstrate Dominant Causes of Uncertainty in Household Emission Inventories. *Environmental Science & Technology*, **2019**, 53, 3323-3330	10.3	24
41	Historical (1850–2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application		24

40	Global emission projections of particulate matter (PM): II. Uncertainty analyses of on-road vehicle exhaust emissions. *Atmospheric Environment*, **2014**, 87, 189-199	5.3	22
39	Health and climate impacts of future United States land freight modelled with global-to-urban models. *Nature Sustainability*, **2019**, 2, 105-112	22.1	21
38	Light absorption of organic aerosol from pyrolysis of corn stalk. *Atmospheric Environment*, **2016**, 144, 249-256	5.3	21
37	Impacts of household sources on air pollution at village and regional scales in India. *Atmospheric Chemistry and Physics*, **2019**, 19, 7719-7742	6.8	18
36	Emission Projections for Long-Haul Freight Trucks and Rail in the United States through 2050. *Environmental Science & Technology*, **2015**, 49, 11569-76	10.3	18
35	Carbonaceous aerosols in the industrial era. *Eos*, **2004**, 85, 241	1.5	18
34	Seasonal fuel consumption, stoves, and end-uses in rural households of the far-western development region of Nepal. *Environmental Research Letters*, **2017**, 12, 125011	6.2	17
33	Large reductions in urban black carbon concentrations in the United States between 1965 and 2000. *Atmospheric Environment*, **2017**, 151, 17-23	5.3	16
32	Emissions from residential combustion considering end-uses and spatial constraints: Part I, methods and spatial distribution. *Atmospheric Environment*, **2016**, 125, 126-139	5.3	16
31	Corrigendum to "Evaluation of black carbon estimations in global aerosol models" published in Atmos. Chem. Phys., 9, 9001-9026, 2009. *Atmospheric Chemistry and Physics*, **2010**, 10, 79-81	6.8	16
30	Historical (1750–2014) anthropogenic emissions of reactive gases and aerosols from the Community Emission Data System (CEDS) **2017**,		15
29	When is cloud condensation nuclei activity sensitive to particle characteristics at emission?. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 13,476-13,488	4.4	14
28	Light absorption by organic carbon from wood combustion **2009**,		12
27	Quantifying Proximity, Confinement, and Interventions in Disease Outbreaks: A Decision Support Framework for Air-Transported Pathogens. *Environmental Science & Technology*, **2021**, 55, 2890-2898	10.3	12
26	A Mineralogy-Based Anthropogenic Combustion-Iron Emission Inventory. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD032114	4.4	11
25	Modeling emission rates and exposures from outdoor cooking. *Atmospheric Environment*, **2017**, 164, 50-60	5.3	10
24	Recent (1980 to 2015) Trends and Variability in Daily-to-Interannual Soluble Iron Deposition from Dust, Fire, and Anthropogenic Sources. *Geophysical Research Letters*, **2020**, 47, e2020GL089688	4.9	10
23	Simulating aerosol chamber experiments with the particle-resolved aerosol model PartMC. *Aerosol Science and Technology*, **2017**, 51, 856-867	3.4	9

22	Spectral absorption properties of atmospheric aerosols		9
21	Effectiveness of mitigation measures in reducing future primary particulate matter emissions from on-road vehicle exhaust. *Environmental Science & Technology*, **2014**, 48, 14455-63	10.3	8
20	Earth, Wind, Fire, and Pollution: Aerosol Nutrient Sources and Impacts on Ocean Biogeochemistry. *Annual Review of Marine Science*, **2021**,	15.4	7
19	A complete transition to clean household energy can save one-quarter of the healthy life lost to particulate matter pollution exposure in India. *Environmental Research Letters*, **2020**, 15, 094096	6.2	6
18	Two hundred fifty years of aerosols and climate: the end of the age of aerosols		5
17	Evaluation of black carbon estimations in global aerosol models		5
16	Constraining a Historical Black Carbon Emission Inventory of the United States for 1960–2000. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 4004-4025	4.4	4
15	Plume-exit modeling to determine cloud condensation nuclei activity of aerosols from residential biofuel combustion. *Atmospheric Chemistry and Physics*, **2017**, 17, 9399-9415	6.8	4
14	Quantifying immediate radiative forcing by black carbon and organic matter with the Specific Forcing Pulse		4
13	Prediction of organic aerosol precursor emission from the pyrolysis of thermally thick wood. *Fuel*, **2020**, 269, 117333	7.1	3
12	Investigating the Linear Dependence of Direct and Indirect Radiative Forcing on Emission of Carbonaceous Aerosols in a Global Climate Model. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 1657-1672	4.4	3
11	A global modeling study on carbonaceous aerosol microphysical characteristics and radiative forcing		3
10	Personal exposure to PM of indoor and outdoor origin in two neighboring Chinese communities with contrasting household fuel use patterns. *Science of the Total Environment*, **2021**, 800, 149421	10.2	3
9	Catalytic Combustion of Natural Gas Over Supported Platinum: Flow Reactor Experiments and Detailed Numerical Modeling **1996**,		2
8	Emissions Measurements from Household Solid Fuel Use in Haryana, India: Implications for Climate and Health Co-benefits. *Environmental Science & Technology*, **2021**, 55, 3201-3209	10.3	2
7	Impacts of Household Sources on Air Pollution at Village and Regional Scales in India **2018**,		2
6	Quantifying proximity, confinement, and interventions in disease outbreaks: a decision support framework for air-transported pathogens		1
5	Global emission projections for the transportation sector using dynamic technology modeling		1

4	Technical note: Pyrolysis principles explain time-resolved organic aerosol release from biomass burning. *Atmospheric Chemistry and Physics*, **2021**, 21, 15605-15618	6.8	0
3	A conceptual framework for evaluating cooking systems. *Environmental Research Letters*,	6.2	
2	Effect of discrepancies caused by model resolution on model-measurement comparison for surface black carbon. *Atmospheric Environment*, **2021**, 247, 118178	5.3	
1	Future PM2.5 emissions from metal production to meet renewable energy demand. *Environmental Research Letters*, **2022**, 17, 044043	6.2	