

Brett B Palm

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

3,955
citations

101543

36
h-index

133252

59
g-index

129
all docs

129
docs citations

129
times ranked

3752
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of brown carbon in wildfire plumes. <i>Geophysical Research Letters</i> , 2015, 42, 4623-4630.	4.0	284
2	Biomass burning dominates brown carbon absorption in the rural southeastern United States. <i>Geophysical Research Letters</i> , 2015, 42, 653-664.	4.0	212
3	Characterization of a real-time tracer for isoprene epoxydiols-derived secondary organic aerosol (IEPOX-SOA) from aerosol mass spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11807-11833.	4.9	185
4	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6108-6129.	3.3	184
5	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
6	Modeling the Radical Chemistry in an Oxidation Flow Reactor: Radical Formation and Recycling, Sensitivities, and the OH Exposure Estimation Equation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4418-4432.	2.5	126
7	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2943-2970.	4.9	122
8	HO ₂ radical chemistry in oxidation flow reactors with low-pressure mercury lamps systematically examined by modeling. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 4863-4890.	3.1	118
9	Non-OH chemistry in oxidation flow reactors for the study of atmospheric chemistry systematically examined by modeling. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4283-4305.	4.9	117
10	Impact of Thermal Decomposition on Thermal Desorption Instruments: Advantage of Thermogram Analysis for Quantifying Volatility Distributions of Organic Species. <i>Environmental Science & Technology</i> , 2017, 51, 8491-8500.	10.0	117
11	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. <i>Environmental Science & Technology</i> , 2019, 53, 8682-8694.	10.0	111
12	Quantification of organic aerosol and brown carbon evolution in fresh wildfire plumes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29469-29477.	7.1	100
13	Agricultural fires in the southeastern U.S. during SEAC ⁴ RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7383-7414.	3.3	93
14	Semicontinuous measurements of gas-particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1527-1546.	4.9	89
15	Elemental composition of organic aerosol: The gap between ambient and laboratory measurements. <i>Geophysical Research Letters</i> , 2015, 42, 4182-4189.	4.0	84
16	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11563-11580.	4.9	82
17	Trends in sulfate and organic aerosol mass in the Southeast U.S.: Impact on aerosol optical depth and radiative forcing. <i>Geophysical Research Letters</i> , 2014, 41, 7701-7709.	4.0	77
18	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11779-11801.	4.9	71

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19	Ambient Gas-Particle Partitioning of Tracers for Biogenic Oxidation. <i>Environmental Science & Technology</i> , 2016, 50, 9952-9962.	10.0	69
20	Comprehensive characterization of atmospheric organic carbon at a forested site. <i>Nature Geoscience</i> , 2017, 10, 748-753.	12.9	66
21	Phase state of ambient aerosol linked with water uptake and chemical aging in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11163-11176.	4.9	64
22	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 467-493.	4.9	63
23	Size-resolved aerosol composition and its link to hygroscopicity at a forested site in Colorado. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2657-2667.	4.9	62
24	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6345-6367.	4.9	62
25	Secondary organic aerosol formation from in situ OH, O ₃ , and NO ₃ oxidation of ambient forest air in an oxidation flow reactor. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5331-5354.	4.9	57
26	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WECAN Aircraft Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033838.	3.3	54
27	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	53
28	Anthropogenic influences on the physical state of submicron particulate matter over a tropical forest. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1759-1773.	4.9	52
29	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. <i>Environmental Science & Technology</i> , 2020, 54, 5954-5963.	10.0	51
30	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6611-6629.	4.9	45
31	Effects of gas-wall interactions on measurements of semivolatile compounds and small polar molecules. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3137-3149.	3.1	45
32	Observation and Control of Shock Waves in Individual Nanoplasmas. <i>Physical Review Letters</i> , 2014, 112, 115004.	7.8	43
33	Estimating the contribution of organic acids to northern hemispheric continental organic aerosol. <i>Geophysical Research Letters</i> , 2015, 42, 6084-6090.	4.0	43
34	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032657.	3.3	41
35	Photoelectron Spectroscopy of CdSe Nanocrystals in the Gas Phase: A Direct Measure of the Evanescent Electron Wave Function of Quantum Dots. <i>Nano Letters</i> , 2013, 13, 2924-2930.	9.1	40
36	Organosulfates in aerosols downwind of an urban region in central Amazon. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 1546-1558.	3.5	40

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37	Laboratory Studies on Secondary Organic Aerosol Formation from Crude Oil Vapors. <i>Environmental Science & Technology</i> , 2013, 47, 12566-12574.	10.0	38
38	Contributions of biomass-burning, urban, and biogenic emissions to the concentrations and light-absorbing properties of particulate matter in central Amazonia during the dry season. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7973-8001.	4.9	36
39	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033484.	3.3	36
40	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16293-16317.	4.9	34
41	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	32
42	Variability and Time of Day Dependence of Ozone Photochemistry in Western Wildfire Plumes. <i>Environmental Science & Technology</i> , 2021, 55, 10280-10290.	10.0	31
43	Mapping Nanoscale Absorption of Femtosecond Laser Pulses Using Plasma Explosion Imaging. <i>ACS Nano</i> , 2014, 8, 8810-8818.	14.6	30
44	Urban influence on the concentration and composition of submicron particulate matter in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12185-12206.	4.9	30
45	Solvents Effects on Charge Transfer from Quantum Dots. <i>Journal of the American Chemical Society</i> , 2015, 137, 3759-3762.	13.7	29
46	Model Evaluation of New Techniques for Maintaining High-NO Conditions in Oxidation Flow Reactors for the Study of OH-Initiated Atmospheric Chemistry. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 72-86.	2.7	26
47	Materials Properties and Solvated Electron Dynamics of Isolated Nanoparticles and Nanodroplets Probed with Ultrafast Extreme Ultraviolet Beams. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 609-615.	4.6	23
48	Natural and Anthropogenically Influenced Isoprene Oxidation in Southeastern United States and Central Amazon. <i>Environmental Science & Technology</i> , 2020, 54, 5980-5991.	10.0	22
49	Observations of sesquiterpenes and their oxidation products in central Amazonia during the wet and dry seasons. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10433-10457.	4.9	22
50	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1086-1097.	3.3	21
51	Performance of a new coaxial ion-molecule reaction region for low-pressure chemical ionization mass spectrometry with reduced instrument wall interactions. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5829-5844.	3.1	20
52	Resolving Ambient Organic Aerosol Formation and Aging Pathways with Simultaneous Molecular Composition and Volatility Observations. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 391-402.	2.7	19
53	Observations of Manaus urban plume evolution and interaction with biogenic emissions in GoAmazon 2014/5. <i>Atmospheric Environment</i> , 2018, 191, 513-524.	4.1	17
54	Observations and Modeling of NO _x Photochemistry and Fate in Fresh Wildfire Plumes. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2652-2667.	2.7	17

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55	A systematic re-evaluation of methods for quantification of bulk particle-phase organic nitrates using real-time aerosol mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 459-483.	3.1	15
56	Fragmentation inside proton-transfer-reaction-based mass spectrometers limits the detection of ROOR and ROOH peroxides. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1811-1827.	3.1	14
57	Heterogeneous Nucleation Drives Particle Size Segregation in Sequential Ozone and Nitrate Radical Oxidation of Catechol. <i>Environmental Science & Technology</i> , 2021, 55, 15637-15645.	10.0	13
58	Constraining nucleation, condensation, and chemistry in oxidation flow reactors using size-distribution measurements and aerosol microphysical modeling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12433-12460.	4.9	12
59	Aerosol pH indicator and organosulfate detectability from aerosol mass spectrometry measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2237-2260.	3.1	12
60	Empirical Insights Into the Fate of Ammonia in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033730.	3.3	12
61	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021, 55, 15646-15657.	10.0	11
62	Complexity in the Evolution, Composition, and Spectroscopy of Brown Carbon in Aircraft Measurements of Wildfire Plumes. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	10
63	Exploration of oxidative chemistry and secondary organic aerosol formation in the Amazon during the wet season: explicit modeling of the Manaus urban plume with GECKO-A. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5995-6014.	4.9	9
64	Machine Learning Uncovers Aerosol Size Information From Chemistry and Meteorology to Quantify Potential Cloud-Forming Particles. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	7
65	Spatially Resolved Photochemistry Impacts Emissions Estimates in Fresh Wildfire Plumes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095443.	4.0	7
66	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 582-596.	2.7	7
67	Laser Ablation-Aerosol Mass Spectrometry-Chemical Ionization Mass Spectrometry for Ambient Surface Imaging. <i>Analytical Chemistry</i> , 2018, 90, 4046-4053.	6.5	6
68	Interferences with aerosol acidity quantification due to gas-phase ammonia uptake onto acidic sulfate filter samples. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6193-6213.	3.1	6
69	Wildfire-driven changes in the abundance of gas-phase pollutants in the city of Boise, ID during summer 2018. <i>Atmospheric Pollution Research</i> , 2022, 13, 101269.	3.8	5
70	Formation and Evolution of Catechol-Derived SOA Mass, Composition, Volatility, and Light Absorption. <i>ACS Earth and Space Chemistry</i> , 0, .	2.7	3
71	Ultrafast electronic structures and dynamics of CdSe nanocrystals revealed by gas phase time-resolved photoelectron spectroscopy. , 2014, , .		0
72	Ultrafast Dynamics of Individual, Isolated Nanoparticles and Nanoplasmas in Intense Laser Fields. , 2014, , .		0

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73	Femtosecond Dynamics of Solvated Electrons in Nanodroplets Probed with Extreme Ultraviolet Beams. , 2016, , .		0