

Gavin McMeeking

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

6,492
citations

66234

42
h-index

88477

70
g-index

90
all docs

90
docs citations

90
times ranked

5812
citing authors

#	ARTICLE	IF	CITATIONS
1	Fates and spatial variations of accumulation mode particles in a multi-zone indoor environment during the HOMEChem campaign. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1029-1039.	1.7	20
2	Revisiting particle dry deposition and its role in radiative effect estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26076-26082.	3.3	73
3	Aerosol Mass and Optical Properties, Smoke Influence on O ₃ , and High NO ₃ Production Rates in a Western U.S. City Impacted by Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032791.	1.2	24
4	Performance Assessment of Portable Optical Particle Spectrometer (POPS). <i>Sensors</i> , 2020, 20, 6294.	2.1	11
5	Development of a new correction algorithm applicable to any filter-based absorption photometer. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2865-2886.	1.2	14
6	Measurements of Ice Nucleating Particles in Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8065-8075.	1.2	31
7	Light Absorption by Ambient Black and Brown Carbon and its Dependence on Black Carbon Coating State for Two California, USA, Cities in Winter and Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1550-1577.	1.2	99
8	In situ measurements of trace gases, PM, and aerosol optical properties during the 2017 NW US wildfire smoke event. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3905-3926.	1.9	45
9	Inter-comparison of black carbon measurement methods for simulated open biomass burning emissions. <i>Atmospheric Environment</i> , 2019, 206, 156-169.	1.9	34
10	Near-Surface Refractory Black Carbon Observations in the Atmosphere and Snow in the McMurdo Dry Valleys, Antarctica, and Potential Impacts of Foehn Winds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2877-2887.	1.2	20
11	A novel inversion method to determine the mass distribution of non-refractory coatings on refractory black carbon using a centrifugal particle mass analyzer and single particle soot photometer. <i>Aerosol Science and Technology</i> , 2018, 52, 567-578.	1.5	13
12	Refractory black carbon at the Whistler Peak High Elevation Research Site – Measurements and simulations. <i>Atmospheric Environment</i> , 2018, 181, 34-46.	1.9	4
13	Strong impact of wildfires on the abundance and aging of black carbon in the lowermost stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11595-E11603.	3.3	89
14	Direct Measurements of Dry and Wet Deposition of Black Carbon Over a Grassland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,277.	1.2	25
15	Characterizing the evolution of physical properties and mixing state of black carbon particles: from near a major highway to the broader urban plume in Los Angeles. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11991-12010.	1.9	9
16	Open-path, closed-path, and reconstructed aerosol extinction at a rural site. <i>Journal of the Air and Waste Management Association</i> , 2018, 68, 824-835.	0.9	2
17	Rapidly evolving ultrafine and fine mode biomass smoke physical properties: Comparing laboratory and field results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5750-5768.	1.2	27
18	Ice-nucleating particle emissions from biomass combustion and the potential importance of soot aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5888-5903.	1.2	42

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19	Measurements of the impact of atmospheric aging on physical and optical properties of ambient black carbon particles in Los Angeles. <i>Atmospheric Environment</i> , 2016, 142, 496-504.	1.9	30
20	Abundance of fluorescent biological aerosol particles at temperatures conducive to the formation of mixed-phase and cirrus clouds. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8205-8225.	1.9	50
21	Quantification of online removal of refractory black carbon using laser-induced incandescence in the single particle soot photometer. <i>Aerosol Science and Technology</i> , 2016, 50, 679-692.	1.5	6
22	Sea spray aerosol as a unique source of ice nucleating particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5797-5803.	3.3	323
23	Observations and analysis of organic aerosol evolution in some prescribed fire smoke plumes. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6323-6335.	1.9	78
24	Investigating the links between ozone and organic aerosol chemistry in a biomass burning plume from a prescribed fire in California chaparral. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6667-6688.	1.9	96
25	Seasonal and diurnal trends in black carbon properties and co-pollutants in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9693-9709.	1.9	45
26	Integrating laboratory and field data to quantify the immersion freezing ice nucleation activity of mineral dust particles. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 393-409.	1.9	315
27	Airborne observations of regional variation in fluorescent aerosol across the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1153-1170.	1.2	93
28	A New Method to Determine the Number Concentrations of Refractory Black Carbon Ice Nucleating Particles. <i>Aerosol Science and Technology</i> , 2014, 48, 1264-1275.	1.5	14
29	Characterizing elemental, equivalent black, and refractory black carbon aerosol particles: a review of techniques, their limitations and uncertainties. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 99-122.	1.9	186
30	High Relative Humidity as a Trigger for Widespread Release of Ice Nuclei. <i>Aerosol Science and Technology</i> , 2014, 48, i-v.	1.5	80
31	Impacts of nonrefractory material on light absorption by aerosols emitted from biomass burning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,272.	1.2	69
32	Organic aerosol emission ratios from the laboratory combustion of biomass fuels. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,850.	1.2	31
33	Aerosol emissions from prescribed fires in the United States: A synthesis of laboratory and aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,826-11,849.	1.2	116
34	Characteristics of atmospheric ice nucleating particles associated with biomass burning in the US: Prescribed burns and wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10458-10470.	1.2	73
35	Airborne characterization of smoke marker ratios from prescribed burning. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10535-10545.	1.9	47
36	The mass and number size distributions of black carbon aerosol over Europe. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4917-4939.	1.9	96

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37	Absorptivity of brown carbon in fresh and photo-chemically aged biomass-burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7683-7693.	1.9	297
38	Measurements of reactive trace gases and variable O ₃ formation rates in some South Carolina biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1141-1165.	1.9	170
39	Airborne observations of aerosol microphysical properties and particle ageing processes in the troposphere above Europe. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11533-11554.	1.9	13
40	Evolution of trace gases and particles emitted by a chaparral fire in California. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1397-1421.	1.9	300
41	Aerosol scattering and absorption during the EUCAARI-LONGREX flights of the Facility for Airborne Atmospheric Measurements (FAAM) BAe-146: can measurements and models agree?. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7251-7267.	1.9	24
42	Airborne measurements of trace gases and aerosols over the London metropolitan region. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5163-5187.	1.9	43
43	Studies of propane flame soot acting as heterogeneous ice nuclei in conjunction with single particle soot photometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9549-9561.	1.9	58
44	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	1.9	278
45	South East Pacific atmospheric composition and variability sampled along 20° S during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5237-5262.	1.9	119
46	Black carbon aerosol mixing state, organic aerosols and aerosol optical properties over the United Kingdom. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9037-9052.	1.9	86
47	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1065-1082.	1.9	79
48	Influences on the fraction of hydrophobic and hydrophilic black carbon in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5099-5112.	1.9	101
49	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.	1.9	329
50	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8151-8171.	1.9	105
51	Optical closure experiments for biomass smoke aerosols. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9017-9026.	1.9	45
52	Black carbon measurements in the boundary layer over western and northern Europe. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9393-9414.	1.9	155
53	Airborne measurements of the spatial distribution of aerosol chemical composition across Europe and evolution of the organic fraction. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4065-4083.	1.9	184
54	Water uptake and chemical composition of fresh aerosols generated in open burning of biomass. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5165-5178.	1.9	104

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55	Deposition of reactive nitrogen during the Rocky Mountain Airborne Nitrogen and Sulfur (RoMANS) study. <i>Environmental Pollution</i> , 2010, 158, 862-872.	3.7	71
56	Measured and modeled humidification factors of fresh smoke particles from biomass burning: role of inorganic constituents. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6179-6194.	1.9	33
57	Biomass burning smoke aerosol properties measured during Fire Laboratory at Missoula Experiments (FLAME). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
58	Using High Time Resolution Aerosol and Number Size Distribution Measurements to Estimate Atmospheric Extinction. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 1049-1060.	0.9	11
59	Aerosol physical, chemical and optical properties during the Rocky Mountain Airborne Nitrogen and Sulfur study. <i>Atmospheric Environment</i> , 2009, 43, 1932-1939.	1.9	28
60	Emissions of trace gases and aerosols during the open combustion of biomass in the laboratory. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	336
61	Ice nuclei emissions from biomass burning. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	125
62	Towards closing the gap between hygroscopic growth and activation for secondary organic aerosol – Part 2: Theoretical approaches. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3999-4009.	1.9	130
63	Towards closing the gap between hygroscopic growth and activation for secondary organic aerosol: Part 1 – Evidence from measurements. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3987-3997.	1.9	191
64	A method for smoke marker measurements and its potential application for determining the contribution of biomass burning from wildfires and prescribed fires to ambient PM _{2.5} organic carbon. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	186
65	Covering science as a Mass Media Fellow. <i>Eos</i> , 2006, 87, 116.	0.1	0
66	Smoke-impacted regional haze in California during the summer of 2002. <i>Agricultural and Forest Meteorology</i> , 2006, 137, 25-42.	1.9	55
67	Hygroscopic growth behavior of a carbon-dominated aerosol in Yosemite National Park. <i>Atmospheric Environment</i> , 2005, 39, 1393-1404.	1.9	113
68	Hygroscopic properties of an organic-laden aerosol. <i>Atmospheric Environment</i> , 2005, 39, 4969-4982.	1.9	62
69	Observations of smoke-influenced aerosol during the Yosemite Aerosol Characterization Study: Size distributions and chemical composition. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	40
70	Intercomparison and closure calculations using measurements of aerosol species and optical properties during the Yosemite Aerosol Characterization Study. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	69
71	Observations of smoke-influenced aerosol during the Yosemite Aerosol Characterization Study: 2. Aerosol scattering and absorbing properties. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	17