

# John Backman

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,424  
citations

361296

20  
h-index

345118

36  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochemical degradation affects the light absorption of water-soluble brown carbon in the South Asian outflow. <i>Science Advances</i> , 2019, 5, eaau8066.	4.7	123
2	Characteristics and source apportionment of black carbon in the Helsinki metropolitan area, Finland. <i>Atmospheric Environment</i> , 2018, 190, 87-98.	1.9	118
3	Aerosol size distribution seasonal characteristics measured in Tiksi, Russian Arctic. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1271-1287.	1.9	97
4	Seasonality of aerosol optical properties in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11599-11622.	1.9	80
5	European aerosol phenomenology – 6: scattering properties of atmospheric aerosol particles from 28 ACTRIS sites. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7877-7911.	1.9	76
6	Seasonal cycle, size dependencies, and source analyses of aerosol optical properties at the SMEAR II measurement station in Hyytiälä, Finland. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4445-4468.	1.9	72
7	On Aethalometer measurement uncertainties and an instrument correction factor for the Arctic. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 5039-5062.	1.2	70
8	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4353-4392.	1.2	65
9	South African EUCAARI measurements: seasonal variation of trace gases and aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1847-1864.	1.9	62
10	Multidecadal trend analysis of in situ aerosol radiative properties around the world. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8867-8908.	1.9	58
11	On the diurnal cycle of urban aerosols, black carbon and the occurrence of new particle formation events in springtime São Paulo, Brazil. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11733-11751.	1.9	55
12	Long-term volatility measurements of submicron atmospheric aerosol in Hyytiälä, Finland. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10771-10786.	1.9	45
13	Changes in black carbon emissions over Europe due to COVID-19 lockdowns. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2675-2692.	1.9	40
14	Variation of Absorption Ångström Exponent in Aerosols From Different Emission Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034094.	1.2	37
15	Low hygroscopic scattering enhancement of boreal aerosol and the implications for a columnar optical closure study. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7247-7267.	1.9	32
16	The importance of the representation of air pollution emissions for the modeled distribution and radiative effects of black carbon in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11159-11183.	1.9	30
17	Optical and geometrical aerosol particle properties over the United Arab Emirates. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8909-8922.	1.9	29
18	Light-absorption of dust and elemental carbon in snow in the Indian Himalayas and the Finnish Arctic. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1403-1416.	1.2	27

#	ARTICLE	IF	CITATIONS
19	Multi-year statistical and modeling analysis of submicrometer aerosol number size distributions at a rain forest site in Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10255-10274.	1.9	26
20	Ground-based observation of clusters and nucleation-mode particles in the Amazon. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13245-13264.	1.9	26
21	Influence of biogenic emissions from boreal forests on aerosol–cloud interactions. <i>Nature Geoscience</i> , 2022, 15, 42-47.	5.4	25
22	Primary sources control the variability of aerosol optical properties in the Antarctic Peninsula. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 70, 1414571.	0.8	23
23	Driving Factors of Aerosol Properties Over the Foothills of Central Himalayas Based on 8.5 Years Continuous Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,421.	1.2	20
24	Anthropogenic fine aerosols dominate the wintertime regime over the northern Indian Ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 70, 1464871.	0.8	19
25	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6723-6748.	1.2	19
26	Differences in aerosol absorption Å...ngstrÅm exponents between correction algorithms for a particle soot absorption photometer measured on the South African Highveld. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 4285-4298.	1.2	17
27	Prescribed burning of logging slash in the boreal forest of Finland: emissions and effects on meteorological quantities and soil properties. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4473-4502.	1.9	17
28	Asian Emissions Explain Much of the Arctic Black Carbon Events. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091913.	1.5	16
29	In-situ observations of Eyjafjallajökull ash particles by hot-air balloon. <i>Atmospheric Environment</i> , 2012, 48, 104-112.	1.9	14
30	Carbon clusters in 50nm urban air aerosol particles quantified by laser desorption/ionization aerosol mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2014, 358, 17-24.	0.7	14
31	Impacts of volatilisation on light scattering and filter-based absorption measurements: a case study. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1205-1216.	1.2	13
32	Absorption instruments inter-comparison campaign at the Arctic Pallas station. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 5397-5413.	1.2	12
33	Changes in aerosol size distributions over the Indian Ocean during different meteorological conditions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1792756.	0.8	7
34	Aerosol particle characteristics measured in the United Arab Emirates and their response to mixing in the boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 481-503.	1.9	5
35	Aerosol optical properties calculated from size distributions, filter samples and absorption photometer data at Dome C, Antarctica, and their relationships with seasonal cycles of sources. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5033-5069.	1.9	3
36	Sensitivity analysis of the meteorological preprocessor MPP-FMI 3.0 using algorithmic differentiation. <i>Geoscientific Model Development</i> , 2017, 10, 3793-3803.	1.3	1

#	ARTICLE	IF	CITATIONS
37	New aerosol particle formation in Amazonia. , 2013, , .		0
38	The Sensitivity of the Predictions of a Roadside Dispersion Model to Meteorological Variables: Evaluation Using Algorithmic Differentiation. Springer Proceedings in Complexity, 2018, , 89-94.	0.2	0