

Joel C Corbin

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,116
citations

218381

26
h-index

253896

43
g-index

96
all docs

96
docs citations

96
times ranked

2723
citing authors

#	ARTICLE	IF	CITATIONS
1	Source identification and characterization of organic nitrogen in atmospheric aerosols at a suburban site in China. <i>Science of the Total Environment</i> , 2022, 818, 151800.	3.9	3
2	Size-dependent mass absorption cross-section of soot particles from various sources. <i>Carbon</i> , 2022, 192, 438-451.	5.4	9
3	Aircraft-engine particulate matter emissions from conventional and sustainable aviation fuel combustion: comparison of measurement techniques for mass, number, and size. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3223-3242.	1.2	10
4	Effective density and metals content of particle emissions generated by a diesel engine operating under different marine fuels. <i>Journal of Aerosol Science</i> , 2021, 151, 105651.	1.8	12
5	Detailed characterization of the CAPS single-scattering albedo monitor (CAPS PM _{ssa}) as a field-deployable instrument for measuring aerosol light absorption with the extinction-minus-scattering method. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 819-851.	1.2	20
6	Brown Carbon in Primary and Aged Coal Combustion Emission. <i>Environmental Science & Technology</i> , 2021, 55, 5701-5710.	4.6	31
7	Ash-Decorated and Ash-Painted Soot from Residual and Distillate-Fuel Combustion in Four Marine Engines and One Aviation Engine. <i>Environmental Science & Technology</i> , 2021, 55, 6584-6593.	4.6	8
8	Multiphoton induced photoluminescence during time-resolved laser-induced incandescence experiments on silver and gold nanoparticles. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	8
9	Crumpled few-layer graphene: Connection between morphology and optical properties. <i>Carbon</i> , 2021, 182, 677-690.	5.4	9
10	Source-specific light absorption by carbonaceous components in the complex aerosol matrix from yearly filter-based measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12809-12833.	1.9	15
11	Particulate emissions from turbulent diffusion flames with entrained droplets: A laboratory simulation of gas flaring emissions. <i>Journal of Aerosol Science</i> , 2021, 157, 105807.	1.8	7
12	Using two-dimensional distributions to inform the mixing state of soot and salt particles produced in gas flares. <i>Journal of Aerosol Science</i> , 2021, 158, 105826.	1.8	8
13	Comparison of co-located refractory black carbon (rBC) and elemental carbon (EC) mass concentration measurements during field campaigns at several European sites. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 1379-1403.	1.2	19
14	Systematic experimental comparison of particle filtration efficiency test methods for commercial respirators and face masks. <i>Scientific Reports</i> , 2021, 11, 21979.	1.6	12
15	Measurement report: Comparison of airborne, in situ measured, lidar-based, and modeled aerosol optical properties in the central European background “ identifying sources of deviations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16745-16773.	1.9	7
16	Review of recent literature on the light absorption properties of black carbon: Refractive index, mass absorption cross section, and absorption function. <i>Aerosol Science and Technology</i> , 2020, 54, 33-51.	1.5	96
17	Characterization of particulate matter emitted by a marine engine operated with liquefied natural gas and diesel fuels. <i>Atmospheric Environment</i> , 2020, 220, 117030.	1.9	30
18	Comprehensive analysis of the air quality impacts of switching a marine vessel from diesel fuel to natural gas. <i>Environmental Pollution</i> , 2020, 266, 115404.	3.7	27

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19	Black Carbon Aerosols in the Lower Free Troposphere are Heavily Coated in Summer but Largely Uncoated in Winter at Jungfraujoch in the Swiss Alps. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088011.	1.5	9
20	Closure between particulate matter concentrations measured ex situ by thermal optical analysis and in situ by the CPMA electrometer reference mass system. <i>Aerosol Science and Technology</i> , 2020, 54, 1293-1309.	1.5	13
21	Black Carbon Particles Do Not Matter for Immersion Mode Ice Nucleation. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086764.	1.5	37
22	Characterization of few-layer graphene aerosols by laser-induced incandescence. <i>Carbon</i> , 2020, 167, 870-880.	5.4	20
23	Morphology and size of soot from gas flares as a function of fuel and water addition. <i>Fuel</i> , 2020, 279, 118478.	3.4	27
24	Typical and Atypical Morphology of Non-volatile Particles from a Diesel and Natural Gas Marine Engine. <i>Aerosol and Air Quality Research</i> , 2020, 20, 730-740.	0.9	20
25	Infrared-absorbing carbonaceous tar can dominate light absorption by marine-engine exhaust. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	2.6	71
26	Size and morphology of soot produced by a dual-fuel marine engine. <i>Journal of Aerosol Science</i> , 2019, 138, 105448.	1.8	23
27	Cloud droplet activation properties and scavenged fraction of black carbon in liquid-phase clouds at the high-alpine research station Jungfraujoch (3580 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3833-3855.	1.9	25
28	Characterization of black carbon particles generated by a propane-fueled miniature inverted soot generator. <i>Journal of Aerosol Science</i> , 2019, 135, 46-57.	1.8	25
29	Repeatability and intermediate precision of a mass concentration calibration system. <i>Aerosol Science and Technology</i> , 2019, 53, 701-711.	1.5	6
30	Droplet activation behaviour of atmospheric black carbon particles in fog as a function of their size and mixing state. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2183-2207.	1.9	17
31	Characterization and Reduction of In-Use CH ₄ Emissions from a Dual Fuel Marine Engine Using Wavelength Modulation Spectroscopy. <i>Environmental Science & Technology</i> , 2019, 53, 2892-2899.	4.6	23
32	Detection of tar brown carbon with a single particle soot photometer (SP2). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15673-15690.	1.9	22
33	Trace Metals in Soot and PM _{2.5} from Heavy-Fuel-Oil Combustion in a Marine Engine. <i>Environmental Science & Technology</i> , 2018, 52, 6714-6722.	4.6	112
34	Insights into organic-aerosol sources via a novel laser-desorption/ionization mass spectrometry technique applied to one year of PM ₁₀ samples from nine sites in central Europe. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2155-2174.	1.9	7
35	Identification of secondary aerosol precursors emitted by an aircraft turbofan. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7379-7391.	1.9	14
36	Production of particulate brown carbon during atmospheric aging of residential wood-burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17843-17861.	1.9	77

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37	Aerosol absorption profiling from the synergy of lidar and sun-photometry: the ACTRIS-2 campaigns in Germany, Greece and Cyprus. EPJ Web of Conferences, 2018, 176, 08005.	0.1	5
38	Brown Carbon Aerosol in Urban Xi'an, Northwest China: The Composition and Light Absorption Properties. Environmental Science & Technology, 2018, 52, 6825-6833.	4.6	149
39	Brown and Black Carbon Emitted by a Marine Engine Operated on Heavy Fuel Oil and Distillate Fuels: Optical Properties, Size Distributions, and Emission Factors. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6175-6195.	1.2	62
40	Revising the hygroscopicity of inorganic sea salt particles. Nature Communications, 2017, 8, 15883.	5.8	173
41	Physicochemical characteristics of black carbon aerosol and its radiative impact in a polluted urban area of China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,505.	1.2	49
42	Aqueous phase oxidation of sulphur dioxide by ozone in cloud droplets. Atmospheric Chemistry and Physics, 2016, 16, 1693-1712.	1.9	47
43	Observation of viscosity transition in α -pinene secondary organic aerosol. Atmospheric Chemistry and Physics, 2016, 16, 4423-4438.	1.9	55
44	Measurement of Aircraft Engine Non-Volatile PM Emissions: Results of the Aviation-Particle Regulatory Instrumentation Demonstration Experiment (A-PRIDE) 4 Campaign. Aerosol Science and Technology, 2015, 49, 472-484.	1.5	82
45	Black carbon surface oxidation and organic composition of beech-wood soot aerosols. Atmospheric Chemistry and Physics, 2015, 15, 11885-11907.	1.9	34
46	Peak-fitting and integration imprecision in the Aerodyne aerosol mass spectrometer: effects of mass accuracy on location-constrained fits. Atmospheric Measurement Techniques, 2015, 8, 4615-4636.	1.2	20
47	Inter-comparison of laboratory smog chamber and flow reactor systems on organic aerosol yield and composition. Atmospheric Measurement Techniques, 2015, 8, 2315-2332.	1.2	110
48	Particle Emission Characteristics of a Gas Turbine with a Double Annular Combustor. Aerosol Science and Technology, 2015, 49, 842-855.	1.5	35
49	Investigations of SP-AMS Carbon Ion Distributions as a Function of Refractory Black Carbon Particle Type. Aerosol Science and Technology, 2015, 49, 409-422.	1.5	29
50	Effective density and mass mobility exponents of particulate matter in aircraft turbine exhaust: Dependence on engine thrust and particle size. Journal of Aerosol Science, 2015, 88, 135-147.	1.8	33
51	Organic Emissions from a Wood Stove and a Pellet Stove Before and After Simulated Atmospheric Aging. Aerosol Science and Technology, 2015, 49, 1037-1050.	1.5	31
52	Mass spectrometry of refractory black carbon particles from six sources: carbon-cluster and oxygenated ions. Atmospheric Chemistry and Physics, 2014, 14, 2591-2603.	1.9	59
53	PM0.1 particles from aircraft may increase risk of vascular disease. BMJ, The, 2013, 347, f6783-f6783.	3.0	11
54	Technical Note: The single particle soot photometer fails to reliably detect PALAS soot nanoparticles. Atmospheric Measurement Techniques, 2012, 5, 3099-3107.	1.2	43

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55	Combustion particles as ice nuclei in an urban environment: Evidence from single-particle mass spectrometry. Atmospheric Environment, 2012, 51, 286-292.	1.9	42
56	Cloud and Fog Processing Enhanced Gas-to-Particle Partitioning of Trimethylamine. Environmental Science & Technology, 2011, 45, 4346-4352.	4.6	93
57	Elucidating determinants of aerosol composition through particle-type-based receptor modeling. Atmospheric Chemistry and Physics, 2011, 11, 8133-8155.	1.9	30
58	A study on the extent of neutralization of sulphate aerosol through laboratory and field experiments using an ATOFMS and a GPIC. Atmospheric Environment, 2011, 45, 6251-6256.	1.9	24
59	Characterization of Methane Emissions from a Natural Gas-Fuelled Marine Vessel under Transient Operation. , 0, , .		1