Charles O Stanier

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2358107/publications.pdf

Version: 2024-02-01

64 papers	5,464 citations	117625 34 h-index	128289 60 g-index
70 all docs	70 docs citations	70 times ranked	5505 citing authors

#	Article	IF	Citations
1	Impacts of lake breeze meteorology on ozone gradient observations along Lake Michigan shorelines in Wisconsin. Atmospheric Environment, 2022, 269, 118834.	4.1	10
2	Observations of the Development and Vertical Structure of the Lake Breeze Circulation During the 2017 Lake Michigan Ozone Study. Journals of the Atmospheric Sciences, 2022, , .	1.7	6
3	Assessment of university classroom ventilation during the COVID-19 pandemic. Journal of Occupational and Environmental Hygiene, 2022, 19, 295-301.	1.0	3
4	PM2.5 chemistry, organosulfates, and secondary organic aerosol during the 2017 Lake Michigan Ozone Study. Atmospheric Environment, 2021, 244, 117939.	4.1	31
5	Multi-model intercomparisons of air quality simulations for the KORUS-AQ campaign. Elementa, 2021, 9, .	3.2	41
6	Characterization of ground-based atmospheric pollution and meteorology sampling stations during the Lake Michigan Ozone Study 2017. Journal of the Air and Waste Management Association, 2021, 71, 866-889.	1.9	11
7	Overview of the Lake Michigan Ozone Study 2017. Bulletin of the American Meteorological Society, 2021, 102, E2207-E2225.	3.3	20
8	Lung cell exposure to secondary photochemical aerosols generated from OH oxidation of cyclic siloxanes. Chemosphere, 2020, 241, 125126.	8.2	7
9	Sensitivity of Meteorological Skill to Selection of WRFâ€Chem Physical Parameterizations and Impact on Ozone Prediction During the Lake Michigan Ozone Study (LMOS). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031971.	3.3	32
10	A multiphase CMAQ version 5.0 adjoint. Geoscientific Model Development, 2020, 13, 2925-2944.	3.6	15
11	Sensitivity of Ozone Production to NO_x and VOC Along the Lake Michigan Coastline. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10989-11006.	3.3	43
12	Physical properties of secondary photochemical aerosol from OH oxidation of a cyclic siloxane. Atmospheric Chemistry and Physics, 2019, 19, 1649-1664.	4.9	24
13	Impacts of New Particle Formation on Short-term Meteorology and Air Quality as Determined by the NPF-explicit WRF-Chem in the Midwestern United States. Aerosol and Air Quality Research, 2019, 19, 204-220.	2.1	6
14	Size distribution of vehicle emitted primary particles measured in a traffic tunnel. Atmospheric Environment, 2018, 191, 9-18.	4.1	20
15	10-Month characterization of the aerosol number size distribution and related air quality and meteorology at the Bondville, IL Midwestern background site. Atmospheric Environment, 2017, 154, 348-361.	4.1	11
16	Comprehensive atmospheric modeling of reactive cyclic siloxanes and their oxidation products. Atmospheric Chemistry and Physics, 2017, 17, 8357-8370.	4.9	35
17	A framework for expanding aqueous chemistry in the Community Multiscale Air Quality (CMAQ) model version 5.1. Geoscientific Model Development, 2017, 10, 1587-1605.	3.6	50
18	Reply to Comment on â€˜Premature deaths attributed to source-specific BC emissions in six urban US regionsâ€™. Environmental Research Letters, 2016, 11, 098002.	5.2	0

#	Article	IF	Citations
19	From soilscapes to landscapes: A landscapeâ€oriented approach to simulate soil organic carbon dynamics in intensively managed landscapes. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2375-2401.	3.0	41
20	Premature deaths attributed to source-specific BC emissions in six urban US regions. Environmental Research Letters, 2015, 10, 114014.	5.2	14
21	Health impacts and economic losses assessment of the 2013 severe haze event in Beijing area. Science of the Total Environment, 2015, 511, 553-561.	8.0	237
22	Uncontrolled combustion of shredded tires in a landfill â€“ Part 1: Characterization of gaseous and particulate emissions. Atmospheric Environment, 2015, 104, 195-204.	4.1	95
23	Uncontrolled combustion of shredded tires in a landfill â€“ Part 2: Population exposure, public health response, and an air quality index for urban fires. Atmospheric Environment, 2015, 104, 273-283.	4.1	49
24	Differences Between Magnitudes and Health Impacts of BC Emissions Across the United States Using 12 km Scale Seasonal Source Apportionment. Environmental Science & Technology, 2015, 49, 4362-4371.	10.0	20
25	Modeled aerosol nitrate formation pathways during wintertime in the Great Lakes region of North America. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,420.	3.3	38
26	CO₂, CO, and CH₄ measurements from tall towers in the NOAA Earth System Research Laboratory's Global Greenhouse Gas Reference Network: instrumentation, uncertainty analysis, and recommendations for future high-accuracy greenhouse gas monitoring efforts. Atmospheric Measurement Techniques, 2014, 7, 647-687.	3.1	199
27	Silicon is a Frequent Component of Atmospheric Nanoparticles. Environmental Science & Technology, 2014, 48, 11137-11145.	10.0	50
28	On the Spatio-Temporal Relationship Between MODIS AOD and PM2.5 Particulate Matter Measurements. Journal of Data Science, 2014, 12, 255-275.	0.9	1
29	Development and application of an aerosol screening model for size-resolved urban aerosols. Research Report (health Effects Institute), 2014, , 3-79.	1.6	2
30	Cyclic siloxanes in air, including identification of high levels in Chicago and distinct diurnal variation. Chemosphere, 2013, 92, 905-910.	8.2	112
31	Determination of seasonal, diurnal, and height resolved average number concentration in a pollution impacted rural continental location. , 2013, , .		0
32	Overview of the LADCO winter nitrate study: hourly ammonia, nitric acid and PM_{2.5} composition at an urban and rural site pair during PM_{2.5} episodes in the US Great Lakes region. Atmospheric Chemistry and Physics, 2012, 12, 11037-11056.	4.9	35
33	Abiotic Mechanism for the Formation of Atmospheric Nitrous Oxide from Ammonium Nitrate. Environmental Science & Technology, 2011, 45, 2691-2697.	10.0	40
34	A Kinetic Study of Ozone Decomposition on Illuminated Oxide Surfaces. Journal of Physical Chemistry A, 2011, 115, 11979-11987.	2.5	55
35	Size-resolved aerosol emission factors and new particle formation/growth activity occurring in Mexico City during the MILAGRO 2006 Campaign. Atmospheric Chemistry and Physics, 2011, 11, 8861-8881.	4.9	28
36	The atmospheric lifetimes and concentrations of cyclic methylsiloxanes octamethylcyclotetrasiloxane (D4) and decamethylcyclopentasiloxane (D5) and the influence of heterogeneous uptake. Atmospheric Environment, 2011, 45, 3181-3191.	4.1	49

#	Article	IF	Citations
37	Heterogeneous uptake of octamethylcyclotetrasiloxane (D4) and decamethylcyclopentasiloxane (D5) onto mineral dust aerosol under variable RH conditions. Atmospheric Environment, 2009, 43, 4060-4069.	4.1	24
38	Effect of Ozone and Relative Humidity on the Heterogeneous Uptake of Octamethylcyclotetrasiloxane and Decamethylcyclopentasiloxane on Model Mineral Dust Aerosol Components. Journal of Physical Chemistry A, 2009, 113, 7030-7038.	2.5	21
39	Parameterization of secondary organic aerosol mass fractions from smog chamber data. Atmospheric Environment, 2008, 42, 2276-2299.	4.1	79
40	Photosynthetic Control of Atmospheric Carbonyl Sulfide During the Growing Season. Science, 2008, 322, 1085-1088.	12.6	196
41	Ozonolysis of Î±-pinene: parameterization of secondary organic aerosol mass fraction. Atmospheric Chemistry and Physics, 2007, 7, 3811-3821.	4.9	166
42	Measurements of the Volatility of Aerosols from Î±-Pinene Ozonolysis. Environmental Science & Technology, 2007, 41, 2756-2763.	10.0	114
43	Ozonolysis ofÎ±-pinene at atmospherically relevant concentrations: Temperature dependence of aerosol mass fractions (yields). Journal of Geophysical Research, 2007, 112, .	3.3	175
44	Analysis of anthropogenic CO2signal in ICARTT using a regional chemical transport model and observed tracers. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 199-210.	1.6	8
45	Preface to special section on Particulate Matter Supersites Program and Related Studies. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	6
46	Coupled Partitioning, Dilution, and Chemical Aging of Semivolatile Organics. Environmental Science & Technology, 2006, 40, 2635-2643.	10.0	1,301
47	Modeling Semivolatile Organic Aerosol Mass Emissions from Combustion Systems. Environmental Science & Technology, 2006, 40, 2671-2677.	10.0	145
48	Critical factors determining the variation in SOA yields from terpene ozonolysis: A combined experimental and computational study. Faraday Discussions, 2005, 130, 295.	3.2	97
49	In situ concentration of semi-volatile aerosol using water-condensation technology. Journal of Aerosol Science, 2005, 36, 866-880.	3.8	45
50	Atmospheric volatile organic compound measurements during the Pittsburgh Air Quality Study: Results, interpretation, and quantification of primary and secondary contributions. Journal of Geophysical Research, 2005, 110, .	3.3	168
51	Water content of ambient aerosol during the Pittsburgh Air Quality Study. Journal of Geophysical Research, 2005, 110, .	3.3	85
52	Modeling of in situ ultrafine atmospheric particle formation in the eastern United States. Journal of Geophysical Research, 2005, 110, .	3.3	68
53	Mining airborne particulate size distribution data by positive matrix factorization. Journal of Geophysical Research, 2005, 110, .	3.3	23
54	Investigation of the relationship between chemical composition and size distribution of airborne particles by partial least squares and positive matrix factorization. Journal of Geophysical Research, 2005, 110, .	3.3	37

#	Article	IF	Citations
55	Mass balance closure and the Federal Reference Method for PM2.5 in Pittsburgh, Pennsylvania. Atmospheric Environment, 2004, 38, 3305-3318.	4.1	98
56	Ambient aerosol size distributions and number concentrations measured during the Pittsburgh Air Quality Study (PAQS). Atmospheric Environment, 2004, 38, 3275-3284.	4.1	232
57	Nucleation Events During the Pittsburgh Air Quality Study: Description and Relation to Key Meteorological, Gas Phase, and Aerosol Parameters Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 253-264.	3.1	263
58	A Method for the In Situ Measurement of Fine Aerosol Water Content of Ambient Aerosols: The Dry-Ambient Aerosol Size Spectrometer (DAASS) Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 215-228.	3.1	61
59	Advanced Factor Analysis on Pittsburgh Particle Size-Distribution Data Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 118-132.	3.1	107
60	An Algorithm for Combining Electrical Mobility and Aerodynamic Size Distributions Data when Measuring Ambient Aerosol Special Issue ofAerosol Science and Technologyon Findings from the Fine Particulate Matter Supersites Program. Aerosol Science and Technology, 2004, 38, 229-238.	3.1	200
61	Insights into the Chemistry of New Particle Formation and Growth Events in Pittsburgh Based on Aerosol Mass Spectrometry. Environmental Science & Technology, 2004, 38, 4797-4809.	10.0	259
62	Atmospheric Aerosol Chemical and Physical Processes. , 2003, , 265-280.		0
63	Effects of Sampling Conditions on the Size Distribution of Fine Particulate Matter Emitted from a Pilot-Scale Pulverized-Coal Combustor. Energy & Fuels, 2002, 16, 302-310.	5.1	54
64	Can heatâ€pumps provide routes to decarbonization of building thermal control in the US Midwest?. Energy Science and Engineering, 0, , .	4.0	1