

Don Collins

List of Publications by Year in descending order

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77
papers

10,310
citations

101384

36
h-index

71532

76
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85
all docs

85
docs citations

85
times ranked

6614
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing the volatility and mixing state of ambient fine particles in the summer and winter of urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2293-2307.	1.9	2
2	The effect of black carbon aging from NO ₂ oxidation of SO ₂ on its morphology, optical and hygroscopic properties. <i>Environmental Research</i> , 2022, 212, 113238.	3.7	7
3	Long- and short-term temporal variability in cloud condensation nuclei spectra over a wide supersaturation range in the Southern Great Plains site. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6197-6215.	1.9	1
4	Design and characterization of a new oxidation flow reactor for laboratory and long-term ambient studies. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2891-2906.	1.2	7
5	Captive Aerosol Growth and Evolution (CAGE) chamber system to investigate particle growth due to secondary aerosol formation. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3351-3370.	1.2	1
6	Contrasting size-resolved hygroscopicity of fine particles derived by HTDMA and HR-ToF-AMS measurements between summer and winter in Beijing: the impacts of aerosol aging and local emissions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 915-929.	1.9	33
7	Modelling the hygroscopic growth factors of aerosol material containing a large water-soluble organic fraction, collected at the Storm Peak Laboratory. <i>Atmospheric Environment</i> , 2019, 214, 116760.	1.9	3
8	Quantifying aerosol size distributions and their temporal variability in the Southern Great Plains, USA. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11985-12006.	1.9	13
9	Laboratory measurements of light scattering properties of kaolinite dust at 532 nm. <i>Aerosol Science and Technology</i> , 2018, 52, 666-678.	1.5	4
10	Global analysis of continental boundary layer new particle formation based on long-term measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14737-14756.	1.9	113
11	Influence of Common Assumptions Regarding Aerosol Composition and Mixing State on Predicted CCN Concentration. <i>Atmosphere</i> , 2018, 9, 54.	1.0	8
12	Using different assumptions of aerosol mixing state and chemical composition to predict CCN concentrations based on field measurements in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6907-6921.	1.9	49
13	Microphysical explanation of the RH-dependent water affinity of biogenic organic aerosol and its importance for climate. <i>Geophysical Research Letters</i> , 2017, 44, 5167-5177.	1.5	74
14	Uncertainty in Predicting CCN Activity of Aged and Primary Aerosols. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,723.	1.2	39
15	Ageing and hygroscopicity variation of black carbon particles in Beijing measured by a quasi-atmospheric aerosol evolution study (QUALITY) chamber. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10333-10348.	1.9	47
16	Hygroscopic growth of water soluble organic carbon isolated from atmospheric aerosol collected at US national parks and Storm Peak Laboratory. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2555-2571.	1.9	25
17	Analysis of a Multi-Year Record of Size-Resolved Hygroscopicity Measurements from a Rural Site in the U.S.. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1489-1500.	0.9	10
18	OH-Initiated Oxidation of <i>m</i> -Xylene on Black Carbon Aging. <i>Environmental Science & Technology</i> , 2016, 50, 8605-8612.	4.6	47

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19	Markedly enhanced absorption and direct radiative forcing of black carbon under polluted urban environments. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4266-4271.	3.3	453
20	Phase state of ambient aerosol linked with water uptake and chemical aging in the southeastern US. Atmospheric Chemistry and Physics, 2016, 16, 11163-11176.	1.9	64
21	Hygroscopic Characteristics of Alkylammonium Carboxylate Aerosols. Environmental Science & Technology, 2016, 50, 2292-2300.	4.6	18
22	Evaluation of assumptions for estimating chemical light extinction at U.S. national parks. Journal of the Air and Waste Management Association, 2015, 65, 249-260.	0.9	11
23	Cloud forming potential of oligomers relevant to secondary organic aerosols. Geophysical Research Letters, 2014, 41, 6538-6545.	1.5	17
24	Role of OH-Initiated Oxidation of Isoprene in Aging of Combustion Soot. Environmental Science & Technology, 2013, 47, 2254-2263.	4.6	75
25	Chemical and hygroscopic properties of aerosol organics at Storm Peak Laboratory. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4767-4779.	1.2	34
26	Measurements of submicron aerosols in Houston, Texas during the 2009 SHARP field campaign. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,518.	1.2	56
27	The Queensland Cloud Seeding Research Program. Bulletin of the American Meteorological Society, 2012, 93, 75-90.	1.7	29
28	Racoro Extended-Term Aircraft Observations of Boundary Layer Clouds. Bulletin of the American Meteorological Society, 2012, 93, 861-878.	1.7	81
29	Relating hygroscopicity and composition of organic aerosol particulate matter. Atmospheric Chemistry and Physics, 2011, 11, 1155-1165.	1.9	326
30	Measurement of ambient aerosol hydration state at Great Smoky Mountains National Park in the southeastern United States. Atmospheric Chemistry and Physics, 2011, 11, 12085-12107.	1.9	17
31	Estimates of aqueous-phase sulfate production from tandem differential mobility analysis. Atmospheric Environment, 2011, 45, 5484-5492.	1.9	0
32	Characterization of particle cloud droplet activity and composition in the free troposphere and the boundary layer during INTEX-B. Atmospheric Chemistry and Physics, 2010, 10, 6627-6644.	1.9	50
33	The importance of aerosol mixing state and size-resolved composition on CCN concentration and the variation of the importance with atmospheric aging of aerosols. Atmospheric Chemistry and Physics, 2010, 10, 7267-7283.	1.9	206
34	Observations of ammonium salts in atmospheric nanoparticles and possible climatic implications. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6634-6639.	3.3	415
35	Influence of air mass source region on nanoparticle events and hygroscopicity in central Virginia, U.S.. Atmospheric Environment, 2009, 43, 3586-3595.	1.9	16
36	Air pollutant concentrations near three Texas roadways, Part I: Ultrafine particles. Atmospheric Environment, 2009, 43, 4513-4522.	1.9	48

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37	Air pollutant concentrations near three Texas roadways, part II: Chemical characterization and transformation of pollutants. <i>Atmospheric Environment</i> , 2009, 43, 4523-4534.	1.9	61
38	Evolution of Organic Aerosols in the Atmosphere. <i>Science</i> , 2009, 326, 1525-1529.	6.0	3,374
39	Aerosol characterization studies at Great Smoky Mountains National Park, summer 2006. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
40	Aerosol optical properties relevant to regional remote sensing of CCN activity and links to their organic mass fraction: airborne observations over Central Mexico and the US West Coast during MILAGRO/INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6727-6742.	1.9	76
41	Evolution of Asian aerosols during transpacific transport in INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7257-7287.	1.9	170
42	Open cellular structure in marine stratocumulus sheets. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	101
43	Phase changes of ambient particles in the Southern Great Plains of Oklahoma. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	28
44	Isolation of Ambient Particles of Known Critical Supersaturation: The Differential Activation Separator (DAS). <i>Aerosol Science and Technology</i> , 2008, 42, 759-772.	1.5	4
45	Fast airborne aerosol size and chemistry measurements above Mexico City and Central Mexico during the MILAGRO campaign. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4027-4048.	1.9	411
46	Physical and chemical properties of the aerosol within the southeastern Pacific marine boundary layer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	59
47	Application of aerosol hygroscopicity measured at the Atmospheric Radiation Measurement Program's Southern Great Plains site to examine composition and evolution. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	26
48	Characterization of ambient aerosol from measurements of cloud condensation nuclei during the 2003 Atmospheric Radiation Measurement Aerosol Intensive Observational Period at the Southern Great Plains site in Oklahoma. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	35
49	Comparison of methods for deriving aerosol asymmetry parameter. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	220
50	Coupling aerosol size distributions and size-resolved hygroscopicity to predict humidity-dependent optical properties and cloud condensation nuclei spectra. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	44
51	Expected impact of an aged biomass burning aerosol on cloud condensation nuclei and cloud droplet concentrations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	26
52	Temporal variation of aerosol properties at a rural continental site and study of aerosol evolution through growth law analysis. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	10
53	Contribution of secondary condensable organics to new particle formation: A case study in Houston, Texas. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	67
54	Organics in the Northeastern Pacific and their impacts on aerosol hygroscopicity in the subsaturated and supersaturated regimes. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4101-4115.	1.9	29

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55	Coupling between Land Ecosystems and the Atmospheric Hydrologic Cycle through Biogenic Aerosol Pathways. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 1738-1742.	1.7	43
56	Continuous Collection of Soluble Atmospheric Particles with a Wetted Hydrophilic Filter. <i>Analytical Chemistry</i> , 2005, 77, 8031-8040.	3.2	20
57	Diurnal variations in the hygroscopic growth cycles of ambient aerosol populations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	15
58	Daily, Seasonal, and Spatial Trends in PM _{2.5} Mass and Composition in Southeast Texas Special Issue of <i>Aerosol Science and Technology</i> on Findings from the Fine Particulate Matter Supersites Program. <i>Aerosol Science and Technology</i> , 2004, 38, 14-26.	1.5	76
59	Integration of size distributions and size-resolved hygroscopicity measured during the Houston Supersite for compositional categorization of the aerosol. <i>Atmospheric Environment</i> , 2004, 38, 3285-3303.	1.9	66
60	The Scanning DMA Transfer Function. <i>Aerosol Science and Technology</i> , 2004, 38, 833-850.	1.5	65
61	Direct measurement of the hydration state of ambient aerosol populations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	45
62	Use of In Situ Data to Test a Raman Lidar-Based Cloud Condensation Nuclei Remote Sensing Method. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 387-394.	0.5	21
63	Fast Mixing Condensation Nucleus Counter: Application to Rapid Scanning Differential Mobility Analyzer Measurements. <i>Aerosol Science and Technology</i> , 2002, 36, 678-689.	1.5	75
64	Clear-column radiative closure during ACE-Asia: Comparison of multiwavelength extinction derived from particle size and composition with results from Sun photometry. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 7-1-AAC 7-22.	3.3	64
65	Improved Inversion of Scanning DMA Data. <i>Aerosol Science and Technology</i> , 2002, 36, 1-9.	1.5	139
66	Aerosol particle chemical characteristics measured from aircraft in the lower troposphere during ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 185-200.	0.8	7
67	In situ aerosol-size distributions and clear-column radiative closure during ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 498-525.	0.8	38
68	Clear-sky closure studies of lower tropospheric aerosol and water vapor during ACE-2 using airborne sunphotometer, airborne in-situ, space-borne, and ground-based measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 568-593.	0.8	42
69	CCN measurements during ACE-2 and their relationship to cloud microphysical properties. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 843-867.	0.8	82
70	Regional aerosol optical depth characteristics from satellite observations: ACE-1, TARFOX and ACE-2 results. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 484-497.	0.8	4
71	Shipboard sunphotometer measurements of aerosol optical depth spectra and columnar water vapor during ACE-2, and comparison with selected land, ship, aircraft, and satellite measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 594-619.	0.8	23
72	Influence of humidity on the aerosol scattering coefficient and its effect on the upwelling radiance during ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 546-567.	0.8	73

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73	Airborne analysis of the Los Angeles aerosol. <i>Atmospheric Environment</i> , 2000, 34, 4155-4173.	1.9	28
74	In situ aerosol-size distributions and clear-column radiative closure during ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 498-525.	0.8	52
75	THE SCANNING FLOW DMA. <i>Journal of Aerosol Science</i> , 2000, 31, 1129-1144.	1.8	19
76	Formation of Organic Aerosols from the Oxidation of Biogenic Hydrocarbons. <i>Journal of Atmospheric Chemistry</i> , 1997, 26, 189-222.	1.4	736
77	Gas/Particle Partitioning and Secondary Organic Aerosol Yields. <i>Environmental Science & Technology</i> , 1996, 30, 2580-2585.	4.6	1,383