Stephen R Springston

List of Publications by Year
in descending order

100 papers	6,339 citations	50170 46 h-index	79541 73 g-index
135 all docs	135 docs citations	135 times ranked	5516 citing authors

#	Article	IF	Citations
1	Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	6
2	Aircraft measurements of aerosol and trace gas chemistry in the eastern North Atlantic. Atmospheric Chemistry and Physics, 2021, 21, 7983-8002.	1.9	19
3	Dilution impacts on smoke aging: evidence in Biomass Burning Observation Project (BBOP) data. Atmospheric Chemistry and Physics, 2021, 21, 6839-6855.	1.9	23
4	Vertical profiles of trace gas and aerosol properties over the eastern North Atlantic: variations with season and synoptic condition. Atmospheric Chemistry and Physics, 2021, 21, 11079-11098.	1.9	14
5	Comparison of aircraft measurements during GoAmazon2014/5 and ACRIDICON-CHUVA. Atmospheric Measurement Techniques, 2020, 13, 661-684.	1.2	12
6	Efficient Nighttime Biogenic SOA Formation in a Polluted Residual Layer. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031583.	1.2	14
7	Rapid evolution of aerosol particles and their optical properties downwind of wildfires in the western US. Atmospheric Chemistry and Physics, 2020, 20, 13319-13341.	1.9	44
8	Identifying a regional aerosol baseline in the eastern North Atlantic using collocated measurements and a mathematical algorithm to mask high-submicron-number-concentration aerosol events. Atmospheric Chemistry and Physics, 2020, 20, 7553-7573.	1.9	7
9	Overview of the HI-SCALE Field Campaign: A New Perspective on Shallow Convective Clouds. Bulletin of the American Meteorological Society, 2019, 100, 821-840.	1.7	44
10	Contributions of biomass-burning, urban, and biogenic emissions to the concentrations and light-absorbing properties of particulate matter in central Amazonia during the dry season. Atmospheric Chemistry and Physics, 2019, 19, 7973-8001.	1.9	36
11	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	5.8	131
12	Spherical tarball particles form through rapid chemical and physical changes of organic matter in biomass-burning smoke. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19336-19341.	3.3	70
13	Atmospheric Radiation Measurement (ARM) Aerosol Observing Systems (AOS) for Surface-Based In Situ Atmospheric Aerosol and Trace Gas Measurements. Journal of Atmospheric and Oceanic Technology, 2019, 36, 2429-2447.	0.5	19
14	Secondary organic aerosol formation from ambient air in an oxidation flow reactor in central Amazonia. Atmospheric Chemistry and Physics, 2018, 18, 467-493.	1.9	63
15	Isoprene photo-oxidation products quantify the effect of pollution on hydroxyl radicals over Amazonia. Science Advances, 2018, 4, eaar2547.	4.7	28
16	Marine boundary layer aerosol in the eastern North Atlantic: seasonal variations and key controlling processes. Atmospheric Chemistry and Physics, 2018, 18, 17615-17635.	1.9	51
17	High summertime aerosol organic functional group concentrations from marine and seabird sources at Ross Island, Antarctica, during AWARE. Atmospheric Chemistry and Physics, 2018, 18, 8571-8587.	1.9	31
18	The Ascension Island Boundary Layer in the Remote Southeast Atlantic is Often Smoky. Geophysical Research Letters, 2018, 45, 4456-4465.	1.5	77

#	Article	IF	Citations
19	Aircraft observations of the chemical composition and aging of aerosol in the Manaus urban plume during GoAmazon 2014/5. Atmospheric Chemistry and Physics, 2018, 18, 10773-10797.	1.9	32
20	Formation and evolution of tar balls from northwestern US wildfires. Atmospheric Chemistry and Physics, 2018, 18, 11289-11301.	1.9	67
21	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6108-6129.	1.2	184
22	Influence of urban pollution on the production of organic particulate matter from isoprene epoxydiols in central Amazonia. Atmospheric Chemistry and Physics, 2017, 17, 6611-6629.	1.9	45
23	CCN activity and organic hygroscopicity of aerosols downwind of an urban region in central Amazonia: seasonal and diel variations and impact of anthropogenic emissions. Atmospheric Chemistry and Physics, 2017, 17, 11779-11801.	1.9	71
24	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations. Elementa, 2017, 5, .	1.1	172
25	Regional Influence of Aerosol Emissions from Wildfires Driven by Combustion Efficiency: Insights from the BBOP Campaign. Environmental Science & Technology, 2016, 50, 8613-8622.	4.6	89
26	Influences of upwind emission sources and atmospheric processing on aerosol chemistry and properties at a rural location in the Northeastern U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6049-6065.	1.2	35
27	Model representations of aerosol layers transported from North America over the Atlantic Ocean during the Twoâ€Column Aerosol Project. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9814-9848.	1.2	15
28	Isoprene photochemistry over the Amazon rainforest. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6125-6130.	3.3	85
29	The Twoâ€Column Aerosol Project: Phase Iâ€"Overview and impact of elevated aerosol layers on aerosol optical depth. Journal of Geophysical Research D: Atmospheres, 2016, 121, 336-361.	1.2	33
30	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. Nature, 2016, 539, 416-419.	13.7	112
31	Deriving brown carbon from multiwavelength absorption measurements: method and application to AERONET and Aethalometer observations. Atmospheric Chemistry and Physics, 2016, 16, 12733-12752.	1.9	123
32	What do correlations tell us about anthropogenicâ€"biogenic interactions and SOA formation in the Sacramento plume during CARES?. Atmospheric Chemistry and Physics, 2016, 16, 1729-1746.	1.9	6
33	Cloud microphysical relationships and their implication on entrainment and mixing mechanism for the stratocumulus clouds measured during the VOCALS project. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5047-5069.	1.2	50
34	Subâ€3â€‰nm particles observed at the coastal and continental sites in the United States. Journal of Geophysical Research D: Atmospheres, 2014, 119, 860-879.	1.2	26
35	Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. Atmospheric Chemistry and Physics, 2014, 14, 10013-10060.	1.9	62
36	Chemical composition and sources of coastal marine aerosol particles during the 2008 VOCALS-REx campaign. Atmospheric Chemistry and Physics, 2014, 14, 5057-5072.	1.9	9

#	ARTICLE	IF	CITATIONS
37	Sub-3 nm particle observations in the atmosphere of two sites in Eastern United States. , 2013, , .		1
38	Enhanced SOA formation from mixed anthropogenic and biogenic emissions during the CARES campaign. Atmospheric Chemistry and Physics, 2013, 13, 2091-2113.	1.9	146
39	Transport and mixing patterns over Central California during the carbonaceous aerosol and radiative effects study (CARES). Atmospheric Chemistry and Physics, 2012, 12, 1759-1783.	1.9	67
40	Aerosol concentration and size distribution measured below, in, and above cloud from the DOE G-1 during VOCALS-REx. Atmospheric Chemistry and Physics, 2012, 12, 207-223.	1.9	65
41	Evaluating WRF-Chem aerosol indirect effects in Southeast Pacific marine stratocumulus during VOCALS-REx. Atmospheric Chemistry and Physics, 2012, 12, 3045-3064.	1.9	77
42	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). Atmospheric Chemistry and Physics, 2012, 12, 7647-7687.	1.9	94
43	Observations of the first aerosol indirect effect in shallow cumuli. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	43
44	Measurements of volatile organic compounds at a suburban ground site (T1) in Mexico City during the MILAGRO 2006 campaign: measurement comparison, emission ratios, and source attribution. Atmospheric Chemistry and Physics, 2011, 11, 2399-2421.	1.9	127
45	South East Pacific atmospheric composition and variability sampled along 20Â° S during VOCALS-REx. Atmospheric Chemistry and Physics, 2011, 11, 5237-5262.	1.9	119
46	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. Atmospheric Chemistry and Physics, 2011, 11, 627-654.	1.9	272
47	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. Atmospheric Chemistry and Physics, 2010, 10, 2353-2375.	1.9	131
48	Nighttime chemical evolution of aerosol and trace gases in a power plant plume: Implications for secondary organic nitrate and organosulfate aerosol formation, NO₃ radical chemistry, and N₂O₅ heterogeneous hydrolysis. Journal of Geophysical Research, 2010, 115, .	3.3	67
49	Overview of the Cumulus Humilis Aerosol Processing Study. Bulletin of the American Meteorological Society, 2009, 90, 1653-1668.	1.7	33
50	The time evolution of aerosol size distribution over the Mexico City plateau. Atmospheric Chemistry and Physics, 2009, 9, 4261-4278.	1.9	60
51	Aircraft and ground-based measurements of hydroperoxides during the 2006 MILAGRO field campaign. Atmospheric Chemistry and Physics, 2008, 8, 7619-7636.	1.9	26
52	The time evolution of aerosol composition over the Mexico City plateau. Atmospheric Chemistry and Physics, 2008, 8, 1559-1575.	1.9	250
53	The T1-T2 study: evolution of aerosol properties downwind of Mexico City. Atmospheric Chemistry and Physics, 2007, 7, 1585-1598.	1.9	124
54	Noise Characteristics of an Instrumental Particle Absorbance Technique. Aerosol Science and Technology, 2007, 41, 1110-1116.	1.5	27

#	Article	IF	Citations
55	Aircraft observations of aerosol composition and ageing in New England and Mid-Atlantic States during the summer 2002 New England Air Quality Study field campaign. Journal of Geophysical Research, 2007, 112, .	3.3	87
56	Observation of ambient aerosol particle growth due to inâ€cloud processes within boundary layers. Journal of Geophysical Research, 2007, 112, .	3.3	10
57	Trace-gas mixing in isolated urban boundary layers: Results from the 2001 Phoenix sunrise experiment. Atmospheric Environment, 2006, 40, 50-57.	1.9	4
58	Chemical evolution of an isolated power plant plume during the TexAQS 2000 study. Atmospheric Environment, 2005, 39, 3431-3443.	1.9	32
59	A comparative study of ozone production in five U.S. metropolitan areas. Journal of Geophysical Research, 2005, 110, .	3.3	107
60	Ground-based and aircraft measurements of trace gases in Phoenix, Arizona (1998). Atmospheric Environment, 2004, 38, 4941-4956.	1.9	12
61	Origin and properties of plumes of high ozone observed during the Texas 2000 Air Quality Study (TexAQS 2000). Journal of Geophysical Research, 2004, 109, .	3.3	61
62	An ozone episode in the Philadelphia metropolitan area. Journal of Geophysical Research, 2004, 109, .	3.3	10
63	Photochemical age determinations in the Phoenix metropolitan area. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	60
64	Ozone production efficiency and NOxdepletion in an urban plume: Interpretation of field observations and implications for evaluating O3-NOx-VOC sensitivity. Journal of Geophysical Research, 2003, 108, .	3.3	81
65	Correction to â€œOzone production rate and hydrocarbon reactivity in 5 urban areas: A cause of high ozone concentration in Houstonâ€. Geophysical Research Letters, 2003, 30, .	1.5	30
66	A comparative study of O3formation in the Houston urban and industrial plumes during the 2000 Texas Air Quality Study. Journal of Geophysical Research, 2003, 108, .	3.3	77
67	Quantitative Analysis of Hydroperoxyl Radical Using Flow Injection Analysis with Chemiluminescence Detection. Analytical Chemistry, 2003, 75, 4696-4700.	3.2	29
68	Ozone production efficiency in an urban area. Journal of Geophysical Research, 2002, 107, ACH 23-1-ACH 23-12.	3.3	104
69	Ozone production rate and hydrocarbon reactivity in 5 urban areas: A cause of high ozone concentration in Houston. Geophysical Research Letters, 2002, 29, 105-1-105-4.	1.5	160
70	Sensitivity of ozone production rate to ozone precursors. Geophysical Research Letters, 2001, 28, 2903-2906.	1.5	60
71	Ozone production in the New York City urban plume. Journal of Geophysical Research, 2000, 105, 14495-14511.	3.3	93
72	Analysis of O3formation during a stagnation episode in central Tennessee in summer 1995. Journal of Geophysical Research, 2000, 105, 9107-9119.	3.3	37

#	Article	IF	Citations
73	NOylifetimes and O3production efficiencies in urban and power plant plumes: Analysis of field data. Journal of Geophysical Research, 2000, 105, 9165-9176.	3.3	52
74	Analysis of the processing of Nashville urban emissions on July 3 and July 18, 1995. Journal of Geophysical Research, 2000, 105, 9155-9164.	3.3	37
75	Ozone production and transport near Nashville, Tennessee: Results from the 1994 study at New Hendersonville. Journal of Geophysical Research, 2000, 105, 9137-9153.	3.3	26
76	Photochemistry of O3and related compounds over southern Nova Scotia. Journal of Geophysical Research, 1998, 103, 13519-13529.	3.3	11
77	Formation mechanisms and chemical characteristics of elevated photochemical layers over the northeast United States. Journal of Geophysical Research, 1998, 103, 10631-10647.	3.3	29
78	Intercomparison of ground-based NOymeasurement techniques. Journal of Geophysical Research, 1998, 103, 22261-22280.	3.3	109
79	Atmospheric chemistry and distribution of formaldehyde and several multioxygenated carbonyl compounds during the 1995 Nashville/Middle Tennessee Ozone Study. Journal of Geophysical Research, 1998, 103, 22449-22462.	3.3	146
80	Measurements of peroxides and related species during the 1995 summer intensive of the Southern Oxidants Study in Nashville, Tennessee. Journal of Geophysical Research, 1998, 103, 22361-22373.	3.3	49
81	Characterization of the Nashville urban plume on July 3 and July 18, 1995. Journal of Geophysical Research, 1998, 103, 28129-28148.	3.3	78
82	Dependence of ozone production on NO and hydrocarbons in the troposphere. Geophysical Research Letters, 1997, 24, 2299-2302.	1.5	147
83	Transport of ozone and sulfur to the North Atlantic atmosphere during the North Atlantic Regional Experiment. Journal of Geophysical Research, 1996, 101, 29091-29104.	3.3	32
84	Measurement of O3and related compounds over southern Nova Scotia: 2. Photochemical age and vertical transport. Journal of Geophysical Research, 1996, 101, 29061-29074.	3.3	10
85	Measurement of O3and related compounds over southern Nova Scotia: 1. Vertical distributions. Journal of Geophysical Research, 1996, 101, 29043-29060.	3.3	20
86	Peroxy radical concentration and ozone formation rate at a rural site in the southeastern United States. Journal of Geophysical Research, 1995, 100, 7263-7273.	3.3	81
87	Ozone formation at a rural site in the southeastern United States. Journal of Geophysical Research, 1994, 99, 3469.	3.3	199
88	Tropospheric Sampling with Aircraft. Advances in Chemistry Series, 1993, , 101-132.	0.6	2
89	Cryogenic-focusing, ohmically heated on-column trap for capillary gas chromatography. Journal of Chromatography A, 1990, 517, 67-75.	1.8	10
90	Non-extractable stationary phases for gas chromatography cross-linked by exposure to low-temperature plasmas. Journal of Chromatography A, 1989, 473, 79-92.	1.8	4

#	Article	IF	Citations
91	Capillary gas chromatographic separation of alkyl nitrates and peroxycarboxylic nitric anhydrides. Analytical Chemistry, 1989, 61, 771-772.	3.2	29
92	Continuous particle fractionation based on gravitational sedimentation in split-flow thin cells. Analytical Chemistry, 1987, 59, 344-350.	3.2	104
93	Stationary-phase phenomena in capillary supercritical fluid chromatography. Analytical Chemistry, 1986, 58, 997-1002.	3.2	52
94	Coiling-induced secondary flow in capillary supercritical fluid chromatography. Analytical Chemistry, 1986, 58, 2699-2704.	3.2	13
95	Mobile-phase solute mass transfer in supercritical fluid chromatography. Analytical Chemistry, 1984, 56, 1762-1766.	3.2	35
96	Immobilization of silicone stationary phases for capillary chromatography through the action of azoisobutyronitrile. Journal of Chromatography A, 1983, 267, 395-398.	1.8	12
97	Fundamentals of column performance in supercritical fluid chromatography. Journal of Chromatography A, 1983, 279, 417-422.	1.8	23
98	Instrumental aspects of capillary supercritical fluid chromatography. Analytical Chemistry, 1982, 54, 1090-1093.	3.2	139
99	Capillary Supercritical Fluid Chromatography. Analytical Chemistry, 1981, 53, 407A-414A.	3.2	135
100	Kinetic optimization of capillary supercritical fluid chromatography using carbon dioxide as the mobile phase. Chromatographia, 1981, 14, 679-684.	0.7	39