Peter H Mcmurry

List of Publications by Year
in descending order

220	22,426	6592 79	10424 139
papers	citations	h-index	g-index

226	226	226	9492
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Aerosol number size distributions from 3 to 500 nm diameter in the arctic marine boundary layer during summer and autumn. Tellus, Series B: Chemical and Physical Meteorology, 2022, 48, 197.	0.8	124
2	Method to assess performance of scanning mobility particle sizer (SMPS) instruments and software. Aerosol Science and Technology, 2018, 52, 609-613.	1.5	11
3	Accuracy of recovered moments for narrow mobility distributions obtained with commonly used inversion algorithms for mobility size spectrometers. Aerosol Science and Technology, 2018, 52, 614-625.	1.5	8
4	Vertically resolved concentration and liquid water content of atmospheric nanoparticles at the US DOE Southern Great Plains site. Atmospheric Chemistry and Physics, 2018, 18, 311-326.	1.9	31
5	Resolving nanoparticle growth mechanisms from size- and time-dependent growth rate analysis. Atmospheric Chemistry and Physics, 2018, 18, 1307-1323.	1.9	28
6	New particle formation in the sulfuric acidâ€“dimethylamineâ€“water system: reevaluation of CLOUD chamber measurements and comparison to an aerosol nucleation and growth model. Atmospheric Chemistry and Physics, 2018, 18, 845-863.	1.9	92
7	Characterization of the TSI model 3086 differential mobility analyzer for classifying aerosols down to 1Ânm. Aerosol Science and Technology, 2018, 52, 748-756.	1.5	19
8	Errors in nanoparticle growth rates inferred from measurements in chemically reacting aerosol systems. Atmospheric Chemistry and Physics, 2018, 18, 8979-8993.	1.9	17
9	Stationary characteristics in bipolar diffusion charging of aerosols: Improving the performance of electrical mobility size spectrometers. Aerosol Science and Technology, 2018, 52, 809-813.	1.5	12
10	Computational Fluid Dynamics Studies of a Flow Reactor: Free Energies of Clusters of Sulfuric Acid with NH₃ or Dimethyl Amine. Journal of Physical Chemistry A, 2017, 121, 3976-3990.	1.1	16
11	The dynamic behavior of nucleating aerosols in constant reaction rate systems: Dimensional analysis and generic numerical solutions. Aerosol Science and Technology, 2017, 51, 1057-1070.	1.5	14
12	Characterization of nanosized silica size standards. Aerosol Science and Technology, 2017, 51, 936-945.	1.5	26
13	Diamineâ€sulfuric acid reactions are a potent source of new particle formation. Geophysical Research Letters, 2016, 43, 867-873.	1.5	78
14	Multiple new-particle growth pathways observed at the US DOE Southern Great Plains field site. Atmospheric Chemistry and Physics, 2016, 16, 9321-9348.	1.9	35
15	Chemical ionization of clusters formed from sulfuric acid and dimethylamine or diamines. Atmospheric Chemistry and Physics, 2016, 16, 12513-12529.	1.9	30
16	Analysis of heterogeneous water vapor uptake by metal iodide cluster ions via differential mobility analysis-mass spectrometry. Journal of Chemical Physics, 2015, 143, 104204.	1.2	32
17	The Bipolar Diffusion Charging of Nanoparticles: A Review and Development of Approaches for Non-Spherical Particles. Aerosol Science and Technology, 2015, 49, 1181-1194.	1.5	53
18	Sulfuric acid nucleation: An experimental study of the effect of seven bases. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1933-1950.	1.2	153

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19	The electrical mobilities and scalar friction factors of modest-to-high aspect ratio particles in the transition regime. Journal of Aerosol Science, 2015, 82, 24-39.	1.8	20
20	Toward Reconciling Measurements of Atmospherically Relevant Clusters by Chemical Ionization Mass Spectrometry and Mobility Classification/Vapor Condensation. Aerosol Science and Technology, 2015, 49, i-iii.	1.5	18
21	Aerosol Charge Fractions Downstream of Six Bipolar Chargers: Effects of Ion Source, Source Activity, and Flowrate. Aerosol Science and Technology, 2014, 48, 1207-1216.	1.5	35
22	Mobility Analysis of 2Ânm to 11Ânm Aerosol Particles with an Aspirating Drift Tube Ion Mobility Spectrometer. Aerosol Science and Technology, 2014, 48, 108-118.	1.5	20
23	Analysis of heterogeneous uptake by nanoparticles via differential mobility analysisâ€“drift tube ion mobility spectrometry. Physical Chemistry Chemical Physics, 2014, 16, 6968-6979.	1.3	24
24	Stabilization of sulfuric acid dimers by ammonia, methylamine, dimethylamine, and trimethylamine. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7502-7514.	1.2	167
25	Quantitative and time-resolved nanoparticle composition measurements during new particle formation. Faraday Discussions, 2013, 165, 25.	1.6	31
26	Fineâ€particle emissions from solid biofuel combustion studied with singleâ€particle mass spectrometry: Identification of markers for organics, soot, and ash components. Journal of Geophysical Research D: Atmospheres, 2013, 118, 859-870.	1.2	41
27	Acid-base chemical reaction model for nucleation rates in the polluted atmospheric boundary layer. , 2013, , .		2
28	A fast-scanning DMA train for precision quantification of early nanoparticle growth. , 2013, , .		3
29	Aerosol mixing state, hygroscopic growth and cloud activation efficiency during MIRAGE 2006. Atmospheric Chemistry and Physics, 2013, 13, 5049-5062.	1.9	60
30	Dependence of particle nucleation and growth on high-molecular-weight gas-phase products during ozonolysis of Î±-pinene. Atmospheric Chemistry and Physics, 2013, 13, 7631-7644.	1.9	66
31	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. Atmospheric Measurement Techniques, 2012, 5, 657-685.	1.2	689
32	Modification of Laminar Flow Ultrafine Condensation Particle Counters for the Enhanced Detection of 1 nm Condensation Nuclei. Aerosol Science and Technology, 2012, 46, 309-315.	1.5	75
33	Production of Residue-Free Nanoparticles by Atomization of Aqueous Solutions. Aerosol Science and Technology, 2012, 46, 354-360.	1.5	18
34	Acidâ€“base chemical reaction model for nucleation rates in the polluted atmospheric boundary layer. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18713-18718.	3.3	169
35	Size and time-resolved growth rate measurements of 1 to 5 nm freshly formed atmospheric nuclei. Atmospheric Chemistry and Physics, 2012, 12, 3573-3589.	1.9	138
36	Sulfuric acid nucleation: power dependencies, variation with relative humidity, and effect of bases. Atmospheric Chemistry and Physics, 2012, 12, 4399-4411.	1.9	132

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37	Identification of the biogenic compounds responsible for sizeâ€dependent nanoparticle growth. Geophysical Research Letters, 2012, 39, .	1.5	61
38	Characterization of agglomerates by simultaneous measurement of mobility, vacuum aerodynamic diameter and mass. Journal of Aerosol Science, 2012, 44, 24-45.	1.8	31
39	Mass-mobility characterization of flame-made ZrO2 aerosols: Primary particle diameter and extent of aggregation. Journal of Colloid and Interface Science, 2012, 387, 12-23.	5.0	69
40	Ambient Pressure Proton Transfer Mass Spectrometry: Detection of Amines and Ammonia. Environmental Science & Technology, 2011, 45, 8881-8888.	4.6	107
41	Impact Dynamics of Colloidal Quantum Dot Solids. Langmuir, 2011, 27, 12677-12683.	1.6	8
42	Deposition of silica agglomerates in a cast of human lung airways: Enhancement relative to spheres of equal mobility and aerodynamic diameter. Journal of Aerosol Science, 2011, 42, 508-516.	1.8	27
43	Emissions from Ethanol-Gasoline Blends: A Single Particle Perspective. Atmosphere, 2011, 2, 182-200.	1.0	40
44	A statistical proxy for sulphuric acid concentration. Atmospheric Chemistry and Physics, 2011, 11, 11319-11334.	1.9	124
45	Observation of neutral sulfuric acid-amine containing clusters in laboratory and ambient measurements. Atmospheric Chemistry and Physics, 2011, 11, 10823-10836.	1.9	120
46	Special Issue on Aerosol Measurements in the 1 nm Range. Aerosol Science and Technology, 2011, 45, i-i.	1.5	10
47	First Measurements of Neutral Atmospheric Cluster and 1â€“2 nm Particle Number Size Distributions During Nucleation Events. Aerosol Science and Technology, 2011, 45, ii-v.	1.5	105
48	Atmospheric ions and nucleation: a review of observations. Atmospheric Chemistry and Physics, 2011, 11, 767-798.	1.9	228
49	Emissions from soy biodiesel blends: A single particle perspective. Atmospheric Environment, 2011, 45, 3406-3413.	1.9	13
50	Electrical Mobility Spectrometer Using a Diethylene Glycol Condensation Particle Counter for Measurement of Aerosol Size Distributions Down to 1 nm. Aerosol Science and Technology, 2011, 45, 510-521.	1.5	149
51	Transfer Functions and Penetrations of Five Differential Mobility Analyzers for Sub-2 nm Particle Classification. Aerosol Science and Technology, 2011, 45, 480-492.	1.5	79
52	An improved criterion for new particle formation in diverse atmospheric environments. Atmospheric Chemistry and Physics, 2010, 10, 8469-8480.	1.9	151
53	The role of cluster energy nonaccommodation in atmospheric sulfuric acid nucleation. Journal of Chemical Physics, 2010, 132, 024304.	1.2	21
54	Micropattern Deposition of Colloidal Semiconductor Nanocrystals by Aerodynamic Focusing. Aerosol Science and Technology, 2010, 44, 55-60.	1.5	10

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55	Chemical ionization mass spectrometric measurements of atmospheric neutral clusters using the clusterâ€CIMS. Journal of Geophysical Research, 2010, 115, .	3.3	110
56	A comparative study of nucleation parameterizations: 1. Examination and evaluation of the formulations. Journal of Geophysical Research, 2010, 115, .	3.3	45
57	A comparative study of nucleation parameterizations: 2. Threeâ€dimensional model application and evaluation. Journal of Geophysical Research, 2010, 115, .	3.3	33
58	Sources and properties of Amazonian aerosol particles. Reviews of Geophysics, 2010, 48, .	9.0	283
59	Observations of aminium 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
60	Rapid Characterization of Agglomerate Aerosols by In Situ Massâ^'Mobility Measurements. Langmuir, 2009, 25, 8248-8254.	1.6	65
61	Processing of Soot by Controlled Sulphuric Acid and Water Condensationâ€"Mass and Mobility Relationship. Aerosol Science and Technology, 2009, 43, 629-640.	1.5	178
62	Introducing Aerosol Research Letters (ARL). Aerosol Science and Technology, 2009, 43, 961-961.	1.5	0
63	Sampling Nanoparticles for Chemical Analysis by Low Resolution Electrical Mobility Classification. Environmental Science & Technology, 2009, 43, 4653-4658.	4.6	48
64	Effect of Working Fluid on Sub-2 nm Particle Detection with a Laminar Flow Ultrafine Condensation Particle Counter. Aerosol Science and Technology, 2009, 43, 81-96.	1.5	169
65	Formation of highly hygroscopic soot aerosols upon internal mixing with sulfuric acid vapor. Journal of Geophysical Research, 2009, 114, .	3.3	172
66	The potential contribution of organic salts to new particle growth. Atmospheric Chemistry and Physics, 2009, 9, 2949-2957.	1.9	163
67	Estimating nanoparticle growth rates from sizeâ€dependent charged fractions: Analysis of new particle formation events in Mexico City. Journal of Geophysical Research, 2008, 113, .	3.3	107
68	Importance of the Number of Acid Molecules and the Strength of the Base for Double-Ion Formation in (H₂SO₄)_mÂ·BaseÂ·(H₂O)₆ Clusters. Journal of the American Chemical Society, 2008, 130, 14144-14147.	6.6	34
69	Variability in morphology, hygroscopicity, and optical properties of soot aerosols during atmospheric processing. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10291-10296.	3.3	678
70	Equations Governing Single and Tandem DMA Configurations and a New Lognormal Approximation to the Transfer Function. Aerosol Science and Technology, 2008, 42, 421-432.	1.5	185
71	An Ultrafine, Water-Based Condensation Particle Counter and its Evaluation under Field Conditions. Aerosol Science and Technology, 2008, 42, 862-871.	1.5	32
72	Tandem Measurements of Aerosol Propertiesâ€"A Review of Mobility Techniques with Extensions. Aerosol Science and Technology, 2008, 42, 801-816.	1.5	71

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73	The Aerosol Community Mourns the Loss of a Giant Sheldon K. Friedlander 1927â€“2007. Aerosol Science and Technology, 2007, 41, 895-897.	1.5	0
74	Multiangle Light-Scattering Measurements of Refractive Index of Submicron Atmospheric Particles. Aerosol Science and Technology, 2007, 41, 549-569.	1.5	40
75	Sheldon K. Friedlander. Journal of Aerosol Science, 2007, 38, 479-480.	1.8	0
76	Nanostructured SiC by chemical vapor deposition and nanoparticle impaction. Surface and Coatings Technology, 2007, 202, 871-875.	2.2	11
77	Characteristics of regional nucleation events in urban East St. Louis. Atmospheric Environment, 2007, 41, 4119-4127.	1.9	97
78	Detecting Below 3 nm Particles Using Ethylene Glycol-based Ultrafine Condensation Particle Counter. , 2007, , 649-653.		1
79	Estimating Nanoparticle Growth Rates from Size-Dependent Charged Fractions â€“ Analysis of New Particle Formation Events in Mexico City. , 2007, , 897-901.		0
80	Particulate Matter: A Strategic Vision for Transportation-Related Research. Environmental Science & Technology, 2006, 40, 5593-5599.	4.6	21
81	Chemical and Physical Properties of Ultrafine Diesel Exhaust Particles Sampled Downstream of a Catalytic Trap. Environmental Science & Technology, 2006, 40, 5502-5507.	4.6	57
82	Taisto Raunemaa (1939â€“2006). Journal of Aerosol Science, 2006, 37, 1649-1650.	1.8	0
83	Evaluation of Fine Particle Number Concentrations in CMAQ. Aerosol Science and Technology, 2006, 40, 985-996.	1.5	20
84	Instruction Manual for the Aerodynamic Lens Calculator. Aerosol Science and Technology, 2006, 40, 1-10.	1.5	9
85	An experimental study of nanoparticle focusing with aerodynamic lenses. International Journal of Mass Spectrometry, 2006, 258, 30-36.	0.7	32
86	Analysis of nanostructured coatings synthesized by ballistic impaction of nanoparticles. Thin Solid Films, 2006, 515, 1147-1151.	0.8	10
87	Hypersonic Plasma Particle Depositionâ€”A Hybrid between Plasma Spraying and Vapor Deposition. Journal of Thermal Spray Technology, 2006, 15, 822-826.	1.6	18
88	Nanoparticle-Coated Silicon Nanowires. Journal of Nanoparticle Research, 2006, 8, 995-1002.	0.8	8
89	Measuring particle size-dependent physicochemical structure in airborne single walled carbon nanotube agglomerates. Journal of Nanoparticle Research, 2006, 9, 85-92.	0.8	39
90	In situstructure characterization of airborne carbon nanofibres by a tandem mobilityâ€“mass analysis. Nanotechnology, 2006, 17, 3613-3621.	1.3	61

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91	A Design Tool for Aerodynamic Lens Systems. Aerosol Science and Technology, 2006, 40, 320-334.	1.5	92
92	Effect of process parameters on the structure of Siâ€“Tiâ€“N nanostructured coatings deposited by hypersonic plasma particle deposition. Surface and Coatings Technology, 2005, 200, 1524-1529.	2.2	3
93	System for In Situ Characterization of Nanoparticles Synthesized in a Thermal Plasma Process. Plasma Chemistry and Plasma Processing, 2005, 25, 439-453.	1.1	27
94	Synthesis and Deposition of Nanoparticles Using a Hypersonically Expanded Plasma. AIP Conference Proceedings, 2005, , .	0.3	0
95	Nanoparticles and the Environment. Journal of the Air and Waste Management Association, 2005, 55, 1411-1417.	0.9	32
96	Aerodynamic Focusing of Nanoparticles: II. Numerical Simulation of Particle Motion Through Aerodynamic Lenses. Aerosol Science and Technology, 2005, 39, 624-636.	1.5	79
97	Aerodynamic Focusing of Nanoparticles: I. Guidelines for Designing Aerodynamic Lenses for Nanoparticles. Aerosol Science and Technology, 2005, 39, 611-623.	1.5	101
98	Chemical composition of atmospheric nanoparticles during nucleation events in Atlanta. Journal of Geophysical Research, 2005, 110, .	3.3	121
99	Hygroscopicity and volatility of 4â€“10 nm particles during summertime atmospheric nucleation events in urban Atlanta. Journal of Geophysical Research, 2005, 110, .	3.3	74
100	Growth rates of freshly nucleated atmospheric particles in Atlanta. Journal of Geophysical Research, 2005, 110, .	3.3	154
101	Preface to topical collection on new particle formation in Atlanta. Journal of Geophysical Research, 2005, 110, .	3.3	16
102	Aerosol size distributions measured at the South Pole during ISCAT. Atmospheric Environment, 2004, 38, 5493-5500.	1.9	67
103	Measurement of Inherent Material Density of Nanoparticle Agglomerates. Journal of Nanoparticle Research, 2004, 6, 267-272.	0.8	263
104	Structural Properties of Diesel Exhaust Particles Measured by Transmission Electron Microscopy (TEM): Relationships to Particle Mass and Mobility. Aerosol Science and Technology, 2004, 38, 881-889.	1.5	294
105	Measurements of Mexico City nanoparticle size distributions: Observations of new particle formation and growth. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	127
106	Formation and growth rates of ultrafine atmospheric particles: a review of observations. Journal of Aerosol Science, 2004, 35, 143-176.	1.8	2,034
107	Atmospheric Measurements of Sub-20 nm Diameter Particle Chemical Composition by Thermal Desorption Chemical Ionization Mass Spectrometry. Aerosol Science and Technology, 2004, 38, 100-110.	1.5	162
108	Measurement of Inherent Material Density of Nanoparticle Agglomerates. , 2004, 6, 267.		1

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109	A closure study of aerosol mass concentration measurements: comparison of values obtained with filters and by direct measurements of mass distributions. Atmospheric Environment, 2003, 37, 1223-1230.	1.9	51
110	On-line measurements of diesel nanoparticle composition and volatility. Atmospheric Environment, 2003, 37, 1199-1210.	1.9	343
111	Superhard silicon nanospheres. Journal of the Mechanics and Physics of Solids, 2003, 51, 979-992.	2.3	212
112	Relationship between Particle Mass and Mobility for Diesel Exhaust Particles. Environmental Science & Technology, 2003, 37, 577-583.	4.6	444
113	Size-Dependent Mixing Characteristics of Volatile and Nonvolatile Components in Diesel Exhaust Aerosols. Environmental Science & Technology, 2003, 37, 5487-5495.	4.6	155
114	An experimental and numerical study of particle nucleation and growth during low-pressure thermal decomposition of silane. Journal of Aerosol Science, 2003, 34, 691-711.	1.8	46
115	Thermal Desorption Chemical Ionization Mass Spectrometer for Ultrafine Particle Chemical Composition. Aerosol Science and Technology, 2003, 37, 471-475.	1.5	118
116	Formation of highly uniform silicon nanoparticles in high density silane plasmas. Journal of Applied Physics, 2003, 94, 2277-2283.	1.1	46
117	SIZE DISTRIBUTIONS OF 3â€“10 NM ATMOSPHERIC PARTICLES: IMPLICATIONS FOR NUCLEATION MECHANISMS. , 2003, , 79-102.		0
118	Size Distributions of 3â€“100-nm Urban Atlanta Aerosols: Measurement and Observations. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2002, 15, 169-178.	1.2	41
119	The Relationship between Mass and Mobility for Atmospheric Particles: A New Technique for Measuring Particle Density. Aerosol Science and Technology, 2002, 36, 227-238.	1.5	391
120	Sizing Small Sulfuric Acid Particles with an Ultrafine Particle Condensation Nucleus Counter. Aerosol Science and Technology, 2002, 36, 554-559.	1.5	17
121	Chapter 17 A review of atmospheric aerosol measurements. Developments in Environmental Science, 2002, , 443-517.	0.5	7
122	Comparisons of aerosol properties measured by impactors and light scattering from individual particles: refractive index, number and volume concentrations, and size distributions. Atmospheric Environment, 2002, 36, 1853-1861.	1.9	23
123	A new method for measuring the dependence of particle size distributions on relative humidity, with application to the Southeastern Aerosol and Visibility Study. Journal of Geophysical Research, 2001, 106, 14935-14949.	3.3	18
124	Unexpected high levels of NO observed at South Pole. Geophysical Research Letters, 2001, 28, 3625-3628.	1.5	183
125	Chemical Analysis of Diesel Engine Nanoparticles Using a Nano-DMA/Thermal Desorption Particle Beam Mass Spectrometer. Environmental Science & Technology, 2001, 35, 2233-2243.	4.6	300
126	Measurement of Atlanta Aerosol Size Distributions: Observations of Ultrafine Particle Events. Aerosol Science and Technology, 2001, 34, 75-87.	1.5	295

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127	Novel measurements of atmospheric aerosol properties. AIP Conference Proceedings, 2000, , .	0.3	2
128	A review of atmospheric aerosol measurements. Atmospheric Environment, 2000, 34, 1959-1999.	1.9	693
129	White-light Detection for Nanoparticle Sizing with the TSI Ultrafine Condensation Particle Counter. Journal of Nanoparticle Research, 2000, 2, 85-90.	0.8	21
130	Focused nanoparticle-beam deposition of patterned microstructures. Applied Physics Letters, 2000, 77, 910-912.	1.5	95
131	Particle transport in a parallel-plate semiconductor reactor: Chamber modification and design criterion for enhanced process cleanliness. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2198.	0.9	14
132	The History of Condensation Nucleus Counters. Aerosol Science and Technology, 2000, 33, 297-322.	1.5	182
133	Size distributions of 3â€“10 nm atmospheric particles: implications for nucleation mechanisms. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 2625-2642.	1.6	53
134	Estimation of water uptake by organic compounds in submicron aerosols measured during the Southeastern Aerosol and Visibility Study. Journal of Geophysical Research, 2000, 105, 1471-1479.	3.3	164
135	Title is missing!. Journal of Nanoparticle Research, 1999, 1, 31-42.	0.8	18
136	Thermal plasma deposition of nanostructured films. IEEE Transactions on Plasma Science, 1999, 27, 46-47.	0.6	9
137	Sampling at controlled relative humidity with a cascade impactor. Atmospheric Environment, 1999, 33, 1049-1056.	1.9	34
138	New Particle Formation in the Remote Troposphere: A Comparison of Observations at Various Sites. Geophysical Research Letters, 1999, 26, 307-310.	1.5	240
139	Particle production near marine clouds: Sulfuric acid and predictions from classical binary nucleation. Geophysical Research Letters, 1999, 26, 2425-2428.	1.5	66
140	Hypersonic plasma particle deposition of nanostructured silicon and silicon carbide. Journal of Aerosol Science, 1998, 29, 707-720.	1.8	115
141	Inversion of ultrafine condensation nucleus counter pulse height distributions to obtain nanoparticle (â^¼3â€“10nm) size distributions. Journal of Aerosol Science, 1998, 29, 601-615.	1.8	55
142	Secondary Electron Yield Measurements as a Means for Probing Organic Films on Aerosol Particles. Aerosol Science and Technology, 1998, 28, 77-90.	1.5	16
143	Aerodynamic Lens System for Producing Particle Beams at Stratospheric Pressures. Aerosol Science and Technology, 1998, 29, 50-56.	1.5	41
144	A study of new particle formation and growth involving biogenic and trace gas species measured during ACE 1. Journal of Geophysical Research, 1998, 103, 16385-16396.	3.3	184

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145	Optical shape fraction measurements of submicrometre laboratory and atmospheric aerosols. Measurement Science and Technology, 1998, 9, 183-196.	1.4	57
146	Investigation of Particle Generation during the Lowâ€Pressure Chemical Vapor Deposition of Borophosphosilicate Glass Films. Journal of the Electrochemical Society, 1998, 145, 2051-2057.	1.3	9
147	Modal Aerosol Dynamics Modeling. Aerosol Science and Technology, 1997, 27, 673-688.	1.5	229
148	Nanostructured materials production by hypersonic plasma particle deposition. Scripta Materialia, 1997, 9, 129-132.	0.5	52
149	New particle formation at a remote continental site: Assessing the contributions of SO2and organic precursors. Journal of Geophysical Research, 1997, 102, 6331-6339.	3.3	98
150	H2SO4vapor pressure of sulfuric acid and ammonium sulfate solutions. Journal of Geophysical Research, 1997, 102, 3725-3735.	3.3	100
151	Spatial Distribution of Chemical Components in Aerosol Particles as Determined from Secondary Electron Yield Measurements: Implications for Mechanisms of Multicomponent Aerosol Crystallization. Journal of Colloid and Interface Science, 1997, 193, 250-258.	5.0	10
152	Elemental composition and morphology of individual particles separated by size and hygroscopicity with the TDMA. Atmospheric Environment, 1996, 30, 101-108.	1.9	100
153	Effects of particle shape and chemical composition on the electron impact charging properties of submicron inorganic particles. Journal of Aerosol Science, 1996, 27, 587-606.	1.8	25
154	Fine particle size distributions at the Mauna Loa Observatory, Hawaii. Journal of Geophysical Research, 1996, 101, 14767-14775.	3.3	44
155	Issues in aerosol measurement for optics assessments. Journal of Geophysical Research, 1996, 101, 19189-19197.	3.3	65
156	Distinction of Coal Dust Particles from Liquid Droplets by Variations in Azimuthal Light Scattering. Journal of Occupational and Environmental Hygiene, 1996, 11, 637-645.	0.5	10
157	Particle beam mass spectrometer measurements of particle formation during low pressure chemical vapor deposition of polysilicon and SiO2 films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 582-587.	0.9	17
158	Ultrafine Aerosol Measurement Using a Condensation Nucleus Counter with Pulse Height Analysis. Aerosol Science and Technology, 1996, 25, 200-213.	1.5	94
159	MEASURED ATMOSPHERIC NEW PARTICLE FORMATION RATES: IMPLICATIONS FOR NUCLEATION MECHANISMS. Chemical Engineering Communications, 1996, 151, 53-64.	1.5	358
160	Modification of the TSI 3025 Condensation Particle Counter for Pulse Height Analysis. Aerosol Science and Technology, 1996, 25, 214-218.	1.5	26
161	Electron Impact Charging Properties of Size-Selected, Submicrometer Organic Particles. The Journal of Physical Chemistry, 1995, 99, 5126-5138.	2.9	44
162	Nanoparticle formation using a plasma expansion process. Plasma Chemistry and Plasma Processing, 1995, 15, 581-606.	1.1	133

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163	Growth of monodisperse, submicron aerosol particles exposed to SO2, H2O2, and NH3. Journal of Atmospheric Chemistry, 1995, 20, 117-139.	1.4	16
164	Synthesis of nanophase silicon, carbon, and silicon carbide powders using a plasma expansion process. Journal of Materials Research, 1995, 10, 2073-2084.	1.2	31
165	Generating Particle Beams of Controlled Dimensions and Divergence: I. Theory of Particle Motion in Aerodynamic Lenses and Nozzle Expansions. Aerosol Science and Technology, 1995, 22, 293-313.	1.5	459
166	Particle beam mass spectrometry of submicron particles charged to saturation in an electron beam. Journal of Aerosol Science, 1995, 26, 745-756.	1.8	60
167	Distinguishing Between Spherical and Nonspherical Particles by Measuring the Variability in Azimuthal Light Scattering. Aerosol Science and Technology, 1995, 23, 373-391.	1.5	34
168	Generating Particle Beams of Controlled Dimensions and Divergence: II. Experimental Evaluation of Particle Motion in Aerodynamic Lenses and Nozzle Expansions. Aerosol Science and Technology, 1995, 22, 314-324.	1.5	393
169	Organics alter hygroscopic behavior of atmospheric particles. Journal of Geophysical Research, 1995, 100, 18755.	3.3	533
170	Size- and Composition-Dependent Response of the DAWN-A Multiangle Single-Particle Optical Detector. Aerosol Science and Technology, 1994, 20, 345-362.	1.5	33
171	Mie Theory Evaluation of Species Contributions to 1990 Wintertime Visibility Reduction in the Grand Canyon. Journal of the Air and Waste Management Association, 1994, 44, 153-162.	0.6	71
172	Measurements of relative humidity-dependent bounce and density for atmospheric particles using the DMA-impactor technique. Atmospheric Environment, 1994, 28, 1739-1746.	1.9	110
173	Effects of water condensation and evaporation on diesel chain-agglomerate morphology. Journal of Aerosol Science, 1994, 25, 447-459.	1.8	55
174	A Method to Increase Control Efficiencies of Wet Scrubbers for Submicron Particles and Particulate Metals. Journal of the Air and Waste Management Association, 1994, 44, 184-194.	0.6	10
175	Intercomparison of Four Methods to Determine Size Distributions of Low-Concentration (âˆ¼ 100 cmâˆ'3), Ultrafine Aerosols (3 <Dp< 10 nm) with Illustrative Data from the Arctic. Aerosol Science and Technology, 1994, 21, 95-109.	1.5	40
176	Thermal plasma synthesis of ultrafine iron particles. Journal of Aerosol Science, 1993, 24, 367-382.	1.8	119
177	Intercomparison of three methods to determine size distributions of ultrafine aerosols with low number concentrations. Journal of Aerosol Science, 1993, 24, 551-554.	1.8	8
178	13 O 02 Distinguishing between spherical and irregular shaped aerosol particles in the submicron size range using the Dawn-A single particle optical detector. Journal of Aerosol Science, 1993, 24, S79-S80.	1.8	3
179	Design and evaluation of a novel diffusion separator for measuring gas/particle distributions of semivolatile organic compounds. Environmental Science & Technology, 1993, 27, 2441-2449.	4.6	27
180	Particle contamination in low pressure organometallic chemical vapor deposition reactors: Methods of particle detection and causes of particle formation using a liquid alane (AlH3) precursor. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 3026-3033.	0.9	11

#	Article	IF	Citations
181	Aluminum Particle Formation in the GaS Phase of a Low Pressure Chemical Vapor Deposition Reactor Using Dimethylethylamine Alane (AlH₃) as a Precursor. Materials Research Society Symposia Proceedings, 1992, 282, 317.	0.1	5
182	Evaporative losses of fine particulate nitrates during sampling. Atmospheric Environment Part A General Topics, 1992, 26, 3305-3312.	1.3	135
183	Measurement of Particle Density by Inertial Classification of Differential Mobility Analyzerâ€“Generated Monodisperse Aerosols. Aerosol Science and Technology, 1992, 17, 199-212.	1.5	156
184	High-resolution aerodynamic spectrometry of submicron particles: sheathed variable-cut impactors vs other devices. Journal of Aerosol Science, 1992, 23, 11-26.	1.8	15
185	Reply to the comment on "Theoretical analysis of evaporative losses of adsorbed or absorbed species during atmospheric aerosol sampling". Environmental Science & Technology, 1991, 25, 1649-1650.	4.6	0
186	An Ultrafine Aerosol Condensation Nucleus Counter. Aerosol Science and Technology, 1991, 14, 48-65.	1.5	407
187	Theoretical analysis of evaporative losses of adsorbed or absorbed species during atmospheric aerosol sampling. Environmental Science & Technology, 1991, 25, 456-459.	4.6	96
188	Optical counter response to monodisperse atmospheric aerosols. Atmospheric Environment Part A General Topics, 1991, 25, 463-468.	1.3	49
189	Effect of Flow-induced Relative Humidity Changes on Size Cuts for Sulfuric Acid Droplets in the Microorifice Uniform Deposit Impactor (MOUDI). Aerosol Science and Technology, 1991, 14, 266-277.	1.5	33
190	Detection of aluminum particles during the chemical vapor deposition of aluminum films using tertiaryamine complexes of alane (AlH3). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 2782-2784.	0.9	30
191	Time-Dependent Aerosol Models and Homogeneous Nucleation Rates. Aerosol Science and Technology, 1990, 13, 465-477.	1.5	130
192	Comparison of Sampling Methods for Carbonaceous Aerosols in Ambient Air. Aerosol Science and Technology, 1990, 12, 200-213.	1.5	78
193	Effect of the Tolman Surface Tension Correction on Nucleation in Chemically Reacting Systems. Aerosol Science and Technology, 1990, 13, 183-195.	1.5	10
194	Hypersonic impaction of ultrafine particles. Journal of Aerosol Science, 1990, 21, 169-187.	1.8	88
195	Inertial impaction of fine particles at moderate reynolds numbers and in the transonic regime with a thin-plate orifice nozzle. Journal of Aerosol Science, 1990, 21, 889-909.	1.8	86
196	On the sensitivity of particle size to relative humidity for Los Angeles aerosols. Atmospheric Environment, 1989, 23, 497-507.	1.1	256
197	Nucleation and Growth of Aerosol in Chemically Reacting Systems: A Theoretical Study of the Near-Collision-Controlled Regime. Aerosol Science and Technology, 1989, 11, 120-132.	1.5	90
198	A Device for Generating Singly Charged Particles in the 0.1â€“1.0Î¼m Diameter Range. Aerosol Science and Technology, 1989, 10, 451-462.	1.5	25

#	Article	IF	Citations
199	Size Distributions of Ambient Organic and Elemental Carbon. Aerosol Science and Technology, 1989, 10, 430-437.	1.5	90
200	Vapor pressures and surface free energies of C14-C18 monocarboxylic acids and C5 and C6 dicarboxylic acids. Environmental Science & Technology, 1989, 23, 1519-1523.	4.6	128
201	Modelling particle formation and growth in a plasma synthesis reactor. Plasma Chemistry and Plasma Processing, 1988, 8, 145-157.	1.1	57
202	Unipolar Diffusion Charging of Ultrafine Aerosols. Aerosol Science and Technology, 1988, 8, 173-187.	1.5	106
203	Mass accommodation coefficient for HO₂ radicals on aqueous particles. Journal of Geophysical Research, 1987, 92, 4163-4170.	3.3	168
204	Evaporation Rates of Monodisperse Organic Aerosols in the 0.02- to 0.2-Î¼m-Diameter Range. Aerosol Science and Technology, 1987, 6, 247-260.	1.5	63
205	Application of the tandem differential mobility analyzer to studies of droplet growth or evaporation. Journal of Aerosol Science, 1986, 17, 771-787.	1.8	451
206	Laboratory and Field Studies of Gas-Aerosol Reactions. , 1986, , 41-55.		0
207	Aerosol Wall Losses in Electrically Charged Chambers. Aerosol Science and Technology, 1985, 4, 249-268.	1.5	162
208	Gas and aerosol wall losses in Teflon film smog chambers. Environmental Science & Technology, 1985, 19, 1176-1182.	4.6	179
209	Response characteristics for four different condensation nucleus counters to particles in the 3â€“50 nm diameter range. Journal of Aerosol Science, 1985, 16, 443-456.	1.8	59
210	A Sample Extraction Diluter for Ultrafine Aerosol Sampling. Aerosol Science and Technology, 1984, 3, 441-451.	1.5	20
211	Kenneth T. Whitby 1995â€”1983. Aerosol Science and Technology, 1984, 3, 121-123.	1.5	0
212	New particle formation in the presence of an aerosol: Rates, time scales, and sub-0.01 Î¼m size distributions. Journal of Colloid and Interface Science, 1983, 95, 72-80.	5.0	79
213	The coupling of nucleation and diffusion near an aerosol particle. Journal of Colloid and Interface Science, 1983, 92, 584-587.	5.0	7
214	Study of the ammonia (gas)-sulfuric acid (aerosol) reaction rate. Environmental Science & Technology, 1983, 17, 347-352.	4.6	116
215	On Simultaneous Coagulation and Diffusional Loss of Free Molecule Aerosols in Turbulent Pipe Flow. Aerosol Science and Technology, 1982, 1, 163-178.	1.5	8
216	A New Rotating Coarse Particle Sampler. Aerosol Science and Technology, 1982, 2, 69-78.	1.5	11

#	Article	IF	Citations
217	Experimental study of simultaneous coagulation and diffusional loss of free molecule aerosols in turbulent pipe flow. Journal of Colloid and Interface Science, 1982, 88, 522-529.	5.0	9
218	Reply of McMurry and Friedlander to comments by Kuhlman and Reist on â€œaerosol formation in reacting gases: Relationship of surface area to rate of gas-to-particle conversionâ€• Journal of Colloid and Interface Science, 1980, 74, 307.	5.0	0
219	Photochemical aerosol formation from SO2: A theoretical analysis of smog chamber data. Journal of Colloid and Interface Science, 1980, 78, 513-527.	5.0	98
220	Aerosol formation in reacting gases: Relation of surface area to rate of gas-to-particle conversion. Journal of Colloid and Interface Science, 1978, 64, 248-257.	5.0	42