Anthony S Wexler

List of Publications by Year
in descending order

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188	10,120	44069	42399
papers	citations	48 h-index	92 g-index

196	196	196	7969
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The occurrence of sulfuric acid-water nucleation in plumes: urban environment. Tellus, Series B: Chemical and Physical Meteorology, 2022, 48, 65.	1.6	20
2	A highly efficient cloth facemask design. Aerosol Science and Technology, 2022, 56, 12-28.	3.1	9
3	Improving quantitative analysis of spark-induced breakdown spectroscopy: Multivariate calibration of metal particles using machine learning. Journal of Aerosol Science, 2022, 159, 105874.	3.8	4
4	Chronic exposure to ambient traffic-related air pollution (TRAP) alters gut microbial abundance and bile acid metabolism in a transgenic rat model of Alzheimerâ€™s disease. Toxicology Reports, 2022, 9, 432-444.	3.3	7
5	Emulating Near-Roadway Exposure to Traffic-Related Air Pollution via Real-Time Emissions from a Major Freeway Tunnel System. Environmental Science & Technology, 2022, 56, 7083-7095.	10.0	3
6	Hippocampal but Not Serum Cytokine Levels Are Altered by Traffic-Related Air Pollution in TgF344-AD and Wildtype Fischer 344 Rats in a Sex- and Age-Dependent Manner. Frontiers in Cellular Neuroscience, 2022, 16, 861733.	3.7	2
7	An instrument for direct measurement of emissions: cooling tower example. Atmospheric Measurement Techniques, 2022, 15, 2547-2556.	3.1	2
8	Conservation laws in a neural network architecture: enforcing the atom balance of a Julia-based photochemical model (v0.2.0). Geoscientific Model Development, 2022, 15, 3417-3431.	3.6	13
9	Quantification of major particulate matter species from a single filter type using infrared spectroscopy â€“ application to a large-scale monitoring network. Atmospheric Measurement Techniques, 2022, 15, 2685-2702.	3.1	2
10	Chronic exposure to traffic-related air pollution reduces lipid mediators of linoleic acid and soluble epoxide hydrolase in serum of female rats. Environmental Toxicology and Pharmacology, 2022, 93, 103875.	4.0	2
11	A step-wise ion hydration model of aqueous electrolyte solution: The 1:1 punch. Fluid Phase Equilibria, 2022, 559, 113498.	2.5	4
12	Raoult was right after all: Statistical mechanics derivation and volumetric validation. Fluid Phase Equilibria, 2021, 531, 112899.	2.5	4
13	Insights on the Working Principles of Secondary Electrospray Ionization High-Resolution Mass Spectrometry for Quantitative Analysis of Aerosol Chemical Composition. Aerosol Science and Engineering, 2021, 5, 147-155.	1.9	3
14	Use of low-cost air sensors to augment regulatory networks. Journal of the Air and Waste Management Association, 2021, 71, 680-681.	1.9	1
15	The Effects of Chronic Exposure to Ambient Traffic-Related Air Pollution on Alzheimerâ€™s Disease Phenotypes in Wildtype and Genetically Predisposed Male and Female Rats. Environmental Health Perspectives, 2021, 129, 57005.	6.0	35
16	Expiratory aerosol particle escape from surgical masks due to imperfect sealing. Scientific Reports, 2021, 11, 12110.	3.3	47
17	Non-respiratory particles emitted by guinea pigs in airborne disease transmission experiments. Scientific Reports, 2021, 11, 17490.	3.3	7
18	The performance of an inexpensive spark-induced breakdown spectroscopy instrument for near real-time analysis of toxic metal particles. Atmospheric Environment, 2021, 264, 118666.	4.1	6

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19	Reconciling Measurement and Prediction of Free and Solvated Water in Solution. ACS Omega, 2020, 5, 8754-8765.	3.5	8
20	Efficacy of masks and face coverings in controlling outward aerosol particle emission from expiratory activities. Scientific Reports, 2020, 10, 15665.	3.3	284
21	Developmental exposure to near roadway pollution produces behavioral phenotypes relevant to neurodevelopmental disorders in juvenile rats. Translational Psychiatry, 2020, 10, 289.	4.8	21
22	Influenza A virus is transmissible via aerosolized fomites. Nature Communications, 2020, 11, 4062.	12.8	83
23	Pathological Cardiopulmonary Evaluation of Rats Chronically Exposed to Traffic-Related Air Pollution. Environmental Health Perspectives, 2020, 128, 127003.	6.0	22
24	Effects of early life exposure to traffic-related air pollution on brain development in juvenile Sprague-Dawley rats. Translational Psychiatry, 2020, 10, 166.	4.8	41
25	Effect of voicing and articulation manner on aerosol particle emission during human speech. PLoS ONE, 2020, 15, e0227699.	2.5	138
26	Quantification of toxic metals using machine learning techniques and spark emission spectroscopy. Atmospheric Measurement Techniques, 2020, 13, 5369-5377.	3.1	8
27	A mass- and energy-conserving framework for using machine learning to speed computations: a photochemistry example. Geoscientific Model Development, 2020, 13, 4435-4442.	3.6	8
28	Effect of voicing and articulation manner on aerosol particle emission during human speech. , 2020, 15, e0227699.		0
29	Effect of voicing and articulation manner on aerosol particle emission during human speech. , 2020, 15, e0227699.		0
30	Effect of voicing and articulation manner on aerosol particle emission during human speech. , 2020, 15, e0227699.		0
31	Effect of voicing and articulation manner on aerosol particle emission during human speech. , 2020, 15, e0227699.		0
32	Raoult Was Right After All. ACS Omega, 2019, 4, 12848-12852.	3.5	17
33	Atmospheric particulate matter characterization by Fourier transform infrared spectroscopy: a review of statistical calibration strategies for carbonaceous aerosol quantification in US measurement networks. Atmospheric Measurement Techniques, 2019, 12, 525-567.	3.1	17
34	Deliberating performance targets workshop: Potential paths for emerging PM2.5 and O3 air sensor progress. Atmospheric Environment: X, 2019, 2, 100031.	1.4	36
35	Aerosol emission and superemission during human speech increase with voice loudness. Scientific Reports, 2019, 9, 2348.	3.3	709
36	Statistical Mechanics of Multilayer Sorption: Surface Concentration Modeling and XPS Measurement. Journal of Physical Chemistry Letters, 2018, 9, 1461-1464.	4.6	7

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37	Ambient aerosol composition by infrared spectroscopy and partial least squares in the chemical speciation network: Multilevel modeling for elemental carbon. Aerosol Science and Technology, 2018, 52, 642-654.	3.1	5
38	Architecture of the rat nephron-arterial network: analysis with micro-computed tomography. American Journal of Physiology - Renal Physiology, 2017, 313, F351-F360.	2.7	16
39	Dynamic Mechanical Interactions Between Neighboring Airspaces Determine Cyclic Opening and Closure in Injured Lung. Critical Care Medicine, 2017, 45, 687-694.	0.9	33
40	Comparison of Manual and Automated Measurements of Tracheobronchial Airway Geometry in Three Balb/c Mice. Anatomical Record, 2017, 300, 2046-2057.	1.4	7
41	Characterization of the 8-stage Rotating Drum Impactor under low concentration conditions. Journal of Aerosol Science, 2016, 100, 140-154.	3.8	6
42	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model â€" Part 2: Assessing the influence of vapor wall losses. Atmospheric Chemistry and Physics, 2016, 16, 3041-3059.	4.9	57
43	Allergic Airway Inflammation is Differentially Exacerbated by Daytime and Nighttime Ultrafine and Submicron Fine Ambient Particles: Heme Oxygenase-1 as an Indicator of PM-Mediated Allergic Inflammation. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 254-266.	2.3	39
44	Compositional variance in extracted particulate matter using different filter extraction techniques. Atmospheric Environment, 2015, 107, 24-34.	4.1	35
45	Isotherm-Based Thermodynamic Model for Electrolyte and Nonelectrolyte Solutions Incorporating Long- and Short-Range Electrostatic Interactions. Journal of Physical Chemistry A, 2015, 119, 3244-3252.	2.5	16
46	Growth of Ammonium Bisulfate Clusters by Adsorption of Oxygenated Organic Molecules. Journal of Physical Chemistry A, 2015, 119, 11191-11198.	2.5	11
47	Parameter Interpretation and Reduction for a Unified Statistical Mechanical Surface Tension Model. Journal of Physical Chemistry Letters, 2015, 6, 3384-3389.	4.6	14
48	Pulmonary inflammatory effects of source-oriented particulate matter from California's San Joaquin Valley. Atmospheric Environment, 2015, 119, 174-181.	4.1	24
49	Retrospective source attribution for source-oriented sampling. Atmospheric Environment, 2015, 119, 228-239.	4.1	4
50	Biological Dose Response to PM2.5: Effect of Particle Extraction Method on Platelet and Lung Responses. Toxicological Sciences, 2015, 143, 349-359.	3.1	53
51	Spatial, temporal and size distribution of particulate matter and its chemical constituents in Faisalabad, Pakistan. Atmosfera, 2015, 28, 99-116.	0.8	38
52	Turbulent dispersion via fan-generated flows. Physics of Fluids, 2014, 26, 055114.	4.0	4
53	A high-efficiency, low-bias method for extracting particulate matter from filter and impactor substrates. Atmospheric Environment, 2014, 90, 87-95.	4.1	41
54	Measurements of size- and time-resolved elemental concentrations at a California dairy farm. Atmospheric Environment, 2014, 94, 773-781.	4.1	3

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55	An Isotherm-Based Thermodynamic Model of Multicomponent Aqueous Solutions, Applicable Over the Entire Concentration Range. Journal of Physical Chemistry A, 2013, 117, 3198-3213.	2.5	39
56	US EPA particulate matter research centers: summary of research results for 2005â€“2011. Air Quality, Atmosphere and Health, 2013, 6, 333-355.	3.3	45
57	Collection of Liquid Phase Particles by Microfabricated Electrostatic Precipitator. Journal of Microelectromechanical Systems, 2013, 22, 1010-1019.	2.5	11
58	Micro corona based particle steering air filter. Sensors and Actuators A: Physical, 2013, 196, 8-15.	4.1	15
59	Statistical Mechanics of Multilayer Sorption: Surface Tension. Journal of Physical Chemistry Letters, 2013, 4, 1723-1726.	4.6	31
60	Adsorption of organic molecules may explain growth of newly nucleated clusters and new particle formation. Geophysical Research Letters, 2013, 40, 2834-2838.	4.0	22
61	Adsorption of organic molecules may explain growth of newly nucleated clusters and new particle formation. , 2013, , .		0
62	Influence of Season and Location on Pulmonary Response to California's San Joaquin Valley Airborne Particulate Matter. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2012, 75, 253-271.	2.3	17
63	Visual Steering and Verification of Mass Spectrometry Data Factorization in Air Quality Research. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2275-2284.	4.4	10
64	Direct Surface Analysis of Time-Resolved Aerosol Impactor Samples with Ultrahigh-Resolution Mass Spectrometry. Analytical Chemistry, 2012, 84, 9858-9864.	6.5	27
65	Statistical Mechanics of Multilayer Sorption: 2. Systems Containing Multiple Solutes. Journal of Physical Chemistry C, 2012, 116, 1850-1864.	3.1	32
66	Imaging extra-thoracic airways and deposited particles in laboratory animals. Journal of Aerosol Science, 2012, 45, 40-49.	3.8	3
67	A Comprehensive Breath Plume Model for Disease Transmission via Expiratory Aerosols. PLoS ONE, 2012, 7, e37088.	2.5	43
68	Particle deposition in juvenile rat lungs: A model study. Journal of Aerosol Science, 2011, 42, 567-579.	3.8	4
69	Statistical Mechanics of Multilayer Sorption: Extension of the Brunauerâ€“Emmettâ€“Teller (BET) and Guggenheimâ€“Andersonâ€“de Boer (GAB) Adsorption Isotherms. Journal of Physical Chemistry C, 2011, 115, 16474-16487.	3.1	64
70	Postnatal growth of tracheobronchial airways of Sprague-Dawley rats. Journal of Anatomy, 2011, 218, 717-725.	1.5	9
71	Detecting Alterations in Pulmonary Airway Development with Airway-by-Airway Comparison. Annals of Biomedical Engineering, 2011, 39, 1805-1814.	2.5	8
72	Simulated annealing implementation with shorter Markov chain length to reduce computational burden and its application to the analysis of pulmonary airway architecture. Computers in Biology and Medicine, 2011, 41, 707-715.	7.0	7

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73	Susceptibility to Inhaled Flame-Generated Ultrafine Soot in Neonatal and Adult Rat Lungs. Toxicological Sciences, 2011, 124, 472-486.	3.1	31
74	Disruption of tracheobronchial airway growth following postnatal exposure to ozone and ultrafine particles. Inhalation Toxicology, 2011, 23, 520-531.	1.6	11
75	Impact of the Versatile Aerosol Concentration Enrichment System (VACES) on Gas Phase Species. Aerosol Science and Technology, 2010, 44, 1113-1121.	3.1	17
76	Small particles disrupt postnatal airway development. Journal of Applied Physiology, 2010, 109, 1115-1124.	2.5	31
77	An interactive teaching device simulating intussusception reduction. Pediatric Radiology, 2010, 40, 1810-1815.	2.0	16
78	A phenomenological model that predicts forces generated when electrical stimulation is superimposed on submaximal volitional contractions. Journal of Applied Physiology, 2010, 108, 1595-1604.	2.5	12
79	Age specific responses to acute inhalation of diffusion flame soot particles: Cellular injury and the airway antioxidant response. Inhalation Toxicology, 2010, 22, 70-83.	1.6	14
80	Surface Tensions of Inorganic Multicomponent Aqueous Electrolyte Solutions and Melts. Journal of Physical Chemistry A, 2010, 114, 12216-12230.	2.5	117
81	Airborne particles in the San Joaquin Valley may affect human health. California Agriculture, 2010, 64, 12-16.	0.8	31
82	A predictive mathematical model of muscle forces for children with cerebral palsy. Developmental Medicine and Child Neurology, 2009, 51, 949-958.	2.1	3
83	Electrical Mobility Separation of Airborne Particles Using Integrated Microfabricated Corona Ionizer and Separator Electrodes. Journal of Microelectromechanical Systems, 2009, 18, 4-13.	2.5	20
84	Bifurcation Model for Characterization of Pulmonary Architecture. Anatomical Record, 2008, 291, 379-389.	1.4	24
85	Pulmonary Architecture in the Conducting Regions of Six Rats. Anatomical Record, 2008, 291, 916-926.	1.4	28
86	Expiration rate drives human airway design. Journal of Theoretical Biology, 2008, 253, 381-387.	1.7	2
87	Transport profiles in the conducting airways of the human lung. International Journal of Heat and Mass Transfer, 2008, 51, 5552-5561.	4.8	9
88	Modeling urban and regional aerosolsâ€"Application of the CMAQ-UCD Aerosol Model to Tampa, a coastal urban site. Atmospheric Environment, 2008, 42, 3179-3191.	4.1	34
89	Interactions between boreal wildfire and urban emissions. Journal of Geophysical Research, 2008, 113, .	3.3	35
90	Size-dependent deposition of particles in the human lung at steady-state breathing. Journal of Aerosol Science, 2008, 39, 266-276.	3.8	61

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91	Extratropical waves transport boreal wildfire emissions and drive regional air quality dynamics. Journal of Geophysical Research, 2008, 113, .	3.3	7
92	Design, Fabrication, and Testing of a Microfabricated Corona Ionizer. Journal of Microelectromechanical Systems, 2008, 17, 115-123.	2.5	33
93	What Have We Learned from Highly Time-Resolved Measurements during EPAâ€™s Supersites Program and Related Studies?. Journal of the Air and Waste Management Association, 2008, 58, 303-319.	1.9	45
94	Supplemental Material to "Advances in Integrated and Continuous Measurements for Particle Mass and Chemical Composition". Journal of the Air and Waste Management Association, 2008, 58, .	0.1	0
95	Interpreting activity in H2Oâ€“H2SO4 binary nucleation. Journal of Chemical Physics, 2007, 127, 124316.	3.0	5
96	Thermophoretic Sampler and its Application in Ultrafine Particle Collection. Aerosol Science and Technology, 2007, 41, 624-629.	3.1	12
97	Particle deposition in the pulmonary region of the human lung: A semi-empirical model of single breath transport and deposition. Journal of Aerosol Science, 2007, 38, 228-245.	3.8	30
98	Particle deposition in the pulmonary region of the human lung: Multiple breath aerosol transport and deposition. Journal of Aerosol Science, 2007, 38, 509-519.	3.8	24
99	Effects of activation pattern on nonisometric human skeletal muscle performance. Journal of Applied Physiology, 2007, 102, 1985-1991.	2.5	20
100	Interaction of epithelium with mesenchyme affects global features of lung architecture: a computer model of development. Journal of Applied Physiology, 2007, 102, 294-305.	2.5	16
101	Fine particle counting with aerodynamic particle focusing and corona charging. Atmospheric Environment, 2007, 41, 5271-5279.	4.1	7
102	Identification of sources of atmospheric PM at the Pittsburgh Supersiteâ€”Part III: Source characterization. Atmospheric Environment, 2007, 41, 3974-3992.	4.1	23
103	P-14 NUMERICAL ANALYSIS OF THE MECHANICAL PROPERTIES IN NORMAL AND DISEASED LUNG USING A SINGLE ALVEOLAR DUCT MODEL. The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S102.	0.0	0
104	Marine particle nucleation: Observation at Bodega Bay, California. Journal of Geophysical Research, 2006, 111, .	3.3	24
105	Cross flow ion mobility spectrometry: Theory and initial prototype testing. International Journal of Mass Spectrometry, 2006, 258, 13-20.	1.5	18
106	Mathematical model that predicts lower leg motion in response to electrical stimulation. Journal of Biomechanics, 2006, 39, 2826-2836.	2.1	14
107	Identification of sources of atmospheric PM at the Pittsburgh Supersite, Part I: Single particle analysis and filter-based positive matrix factorization. Atmospheric Environment, 2006, 40, 411-423.	4.1	40
108	An asynchronous time-stepping (ATS) integrator for atmospheric applications: Aerosol dynamics. Atmospheric Environment, 2006, 40, 4574-4588.	4.1	11

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109	Characterization of Short-Term Particulate Matter Events by Real-Time Single Particle Mass Spectrometry. Aerosol Science and Technology, 2006, 40, 873-882.	3.1	8
110	Design of a Slot Nanoparticle Virtual Impactor. Aerosol Science and Technology, 2006, 40, 737-743.	3.1	16
111	Particleâ€“Focusing Characteristics of Matched Aerodynamic Lenses. Aerosol Science and Technology, 2005, 39, 222-230.	3.1	6
112	Thermodynamics of carbonates and hydrates related to heterogeneous reactions involving mineral aerosol. Journal of Geophysical Research, 2005, 110, .	3.3	44
113	Size distribution of sea-salt emissions as a function of relative humidity. Atmospheric Environment, 2005, 39, 3373-3379.	4.1	100
114	Evolution of particle number distribution near roadways. Part III: Traffic analysis and on-road size resolved particulate emission factors. Atmospheric Environment, 2005, 39, 4155-4166.	4.1	90
115	Predicting optimal electrical stimulation for repetitive human muscle activation. Journal of Electromyography and Kinesiology, 2005, 15, 300-309.	1.7	19
116	Size-resolved fine and ultrafine particle composition in Baltimore, Maryland. Journal of Geophysical Research, 2005, 110, .	3.3	40
117	A new method for multicomponent activity coefficients of electrolytes in aqueous atmospheric aerosols. Journal of Geophysical Research, 2005, 110, .	3.3	99
118	Speciation of size-resolved individual ultrafine particles in Pittsburgh, Pennsylvania. Journal of Geophysical Research, 2005, 110, .	3.3	43
119	The character of single particle sulfate in Baltimore. Atmospheric Environment, 2004, 38, 5311-5320.	4.1	21
120	Number concentrations of fine and ultrafine particles containing metals. Atmospheric Environment, 2004, 38, 3263-3273.	4.1	50
121	Ultrafine nitrate particle events in Baltimore observed by real-time single particle mass spectrometry. Atmospheric Environment, 2004, 38, 3215-3223.	4.1	35
122	Evolution of particle number distribution near roadwaysâ€”Part I: analysis of aerosol dynamics and its implications for engine emission measurement. Atmospheric Environment, 2004, 38, 6643-6653.	4.1	200
123	Evolution of particle number distribution near roadways. Part II: the â€˜Road-to-Ambientâ€™ process. Atmospheric Environment, 2004, 38, 6655-6665.	4.1	246
124	Measurement and numerical simulation of soot particle size distribution functions in a laminar premixed ethylene-oxygen-argon flame. Combustion and Flame, 2003, 133, 173-188.	5.2	230
125	A comparison of particle mass spectrometers during the 1999 Atlanta Supersite Project. Journal of Geophysical Research, 2003, 108, .	3.3	90
126	Size-resolved ultrafine particle composition analysis 2. Houston. Journal of Geophysical Research, 2003, 108, .	3.3	60

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127	Mass Spectrometry of Individual Particles between 50 and 750 nm in Diameter at the Baltimore Supersite. Environmental Science & Technology, 2003, 37, 3268-3274.	10.0	61
128	Mathematical models for fatigue minimization during functional electrical stimulation. Journal of Electromyography and Kinesiology, 2003, 13, 575-588.	1.7	57
129	Particle Focusing Characteristics of Sonic Jets. Aerosol Science and Technology, 2003, 37, 907-915.	3.1	14
130	Performance of a Single Ultrafine Particle Mass Spectrometer. Aerosol Science and Technology, 2002, 36, 583-592.	3.1	50
131	Atmospheric aerosol models for systems including the ions H+, NH4+, Na+, SO42â˜, NO3â˜, Clâ˜, Brâ˜, and H2O. Journal of Geophysical Research, 2002, 107, ACH 14-1.	3.3	509
132	A hypothesis for growth of fresh atmospheric nuclei. Journal of Geophysical Research, 2002, 107, AAC 15-1-AAC 15-6.	3.3	70
133	A predictive fatigue model. I. Predicting the effect of stimulation frequency and pattern on fatigue. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2002, 10, 48-58.	4.9	51
134	A predictive fatigue model. II. Predicting the effect of resting times on fatigue. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2002, 10, 59-67.	4.9	34
135	Modeling the number distributions of urban and regional aerosols: theoretical foundations. Atmospheric Environment, 2002, 36, 1863-1874.	4.1	62
136	Modeling the length dependence of isometric force in human quadriceps muscles. Journal of Biomechanics, 2002, 35, 919-930.	2.1	22
137	Application of the ART-2a Algorithm to Laser Ablation Aerosol Mass Spectrometry of Particle Standards. Analytical Chemistry, 2001, 73, 2338-2344.	6.5	81
138	Modelling turbulent collision of bidisperse inertial particles. Journal of Fluid Mechanics, 2001, 433, 77-104.	3.4	130
139	Statistical mechanical description and modelling of turbulent collision of inertial particles. Journal of Fluid Mechanics, 2000, 415, 117-153.	3.4	303
140	A predictive model of fatigue in human skeletal muscles. Journal of Applied Physiology, 2000, 89, 1322-1332.	2.5	97
141	Development of a mathematical model that predicts optimal muscle activation patterns by using brief trains. Journal of Applied Physiology, 2000, 88, 917-925.	2.5	62
142	High Speed Particle Beam Generation: A Dynamic Focusing Mechanism for Selecting Ultrafine Particles. Aerosol Science and Technology, 2000, 33, 87-104.	3.1	56
143	HIGH-SPEED PARTICLE BEAM GENERATION: SIMPLE FOCUSING MECHANISMS. Journal of Aerosol Science, 1999, 30, 719-738.	3.8	26
144	MODELING AEROSOL BOLUS DISPERSION IN HUMAN AIRWAYS. Journal of Aerosol Science, 1999, 30, 1345-1362.	3.8	33

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145	Laser desorption ionization of size resolved liquid microdroplets. Analytica Chimica Acta, 1998, 359, 185-191.	5.4	4
146	Title is missing!. Journal of Atmospheric Chemistry, 1998, 30, 345-370.	3.2	13
147	Thermodynamic Model of the System H+â^'NH4+â^'SO42-â^'NO3-â^'H2O at Tropospheric Temperatures. Journal of Physical Chemistry A, 1998, 102, 2137-2154.	2.5	695
148	Particles do not increase vapor deposition in human airways. Journal of Aerosol Science, 1998, 29, 197-204.	3.8	13
149	Laser desorption/ionization of single ultrafine multicomponent aerosols. Journal of Aerosol Science, 1998, 29, S1193-S1194.	3.8	0
150	On the collision rate of small particles in isotropic turbulence. I. â€‰Zero-inertia case. Physics of Fluids, 1998, 10, 266-276.	4.0	97
151	Laser Desorption/Ionization of Single Ultrafine Multicomponent Aerosols. Environmental Science & Technology, 1998, 32, 3218-3223.	10.0	42
152	Where Do Particulate Toxins Reside? An Improved Paradigm for the Structure and Dynamics of the Urban Mid-Atlantic Aerosol. Environmental Science & Technology, 1998, 32, 2547-2555.	10.0	103
153	Thermodynamic Model of the System H+â^'NH4+â^'Na+â^'SO42-â^'NO3-â^'Cl-â^'H2O at 298.15 K. Journal of Physical Chemistry A, 1998, 102, 2155-2171.	2.5	505
154	Deliquescence Behavior of Multicomponent Aerosols. Journal of Physical Chemistry A, 1998, 102, 173-180.	2.5	84
155	Statistical mechanical descriptions of turbulent coagulation. Physics of Fluids, 1998, 10, 2647-2651.	4.0	107
156	On the collision rate of small particles in isotropic turbulence. II. Finite inertia case. Physics of Fluids, 1998, 10, 1206-1216.	4.0	115
157	Two-step, predictive, isometric force model tested on data from human and rat muscles. Journal of Applied Physiology, 1998, 85, 2176-2189.	2.5	43
158	Real-Time Monitoring of the Surface and Total Composition of Aerosol Particles. Aerosol Science and Technology, 1997, 26, 291-300.	3.1	62
159	Particle growth in high-speed particle beam inlets. Journal of Aerosol Science, 1997, 28, 223-238.	3.8	24
160	A mathematical model that predicts skeletal muscle force. IEEE Transactions on Biomedical Engineering, 1997, 44, 337-348.	4.2	88
161	On-line analysis of aqueous aerosols by laser desorption ionization. International Journal of Mass Spectrometry and Ion Processes, 1997, 163, 29-37.	1.8	57
162	Laser desorption/ionization of ultrafine aerosol particles. Rapid Communications in Mass Spectrometry, 1997, 11, 993-996.	1.5	53

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163	Laser desorption/ionization of ultrafine aerosol particles. Rapid Communications in Mass Spectrometry, 1997, 11, 993-996.	1.5	1
164	Matrix-Assisted Laser Desorption/Ionization of Size- and Composition-Selected Aerosol Particles. Analytical Chemistry, 1996, 68, 3595-3601.	6.5	53
165	Multicomponent Aerosol Crystallization. Journal of Colloid and Interface Science, 1996, 183, 68-77.	9.4	79
166	Chromium speciation in aerosols by rapid single-particle mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1995, 151, 77-87.	1.8	37
167	The interdependence of aerosol processes and mixing in point source plumes. Atmospheric Environment, 1995, 29, 361-375.	4.1	16
168	Growth laws for atmospheric aerosol particles: An examination of the bimodality of the accumulation mode. Atmospheric Environment, 1995, 29, 3263-3275.	4.1	110
169	On-line chemical analysis of aerosols by rapid single-particle mass spectrometry. Journal of Aerosol Science, 1995, 26, 535-545.	3.8	102
170	MS of INDIVIDUAL AEROSOL PARTICLES. Analytical Chemistry, 1995, 67, 721A-726A.	6.5	47
171	Quantitation of Ionic Species in Single Microdroplets by Online Laser Desorption/Ionization. Analytical Chemistry, 1994, 66, 3681-3687.	6.5	68
172	The effect of solution non-ideality on membrane transport in three-dimensional models of the renal concentrating mechanism. Bulletin of Mathematical Biology, 1994, 56, 515-546.	1.9	17
173	Modelling urban and regional aerosolsâ€"I. model development. Atmospheric Environment, 1994, 28, 531-546.	4.1	212
174	Secondary organic aerosol formation and transport â€" II. Predicting the ambient secondary organic aerosol size distribution. Atmospheric Environment Part A General Topics, 1993, 27, 2403-2416.	1.3	143
175	Analysis of aerosol ammonium nitrate: Departures from equilibrium during SCAQS. Atmospheric Environment Part A General Topics, 1992, 26, 579-591.	1.3	93
176	Second-generation inorganic aerosol model. Atmospheric Environment Part A General Topics, 1991, 25, 2731-2748.	1.3	382
177	Numerical methods for three-dimensional models of the urine concentrating mechanism. Applied Mathematics and Computation, 1991, 45, 219-240.	2.2	9
178	The distribution of ammonium salts among a size and composition dispersed aerosol. Atmospheric Environment Part A General Topics, 1990, 24, 1231-1246.	1.3	229
179	An algorithm for exact evaluation of multivariate functions and their derivatives to any order. Computational Statistics and Data Analysis, 1988, 6, 1-6.	1.2	8
180	An invariant-imbedding solution of general linear two-point boundary-value problems. Applied Mathematics and Computation, 1988, 26, 237-244.	2.2	6

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