

# Anthony S Wexler

## List of Publications by Year in descending order

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188  
papers

10,120  
citations

44069

48  
h-index

42399

92  
g-index

196  
all docs

196  
docs citations

196  
times ranked

7969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol emission and superemission during human speech increase with voice loudness. <i>Scientific Reports</i> , 2019, 9, 2348.	3.3	709
2	Thermodynamic Model of the System $H^+NH_4^+SO_4^{2-}NO_3^-H_2O$ at Tropospheric Temperatures. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2137-2154.	2.5	695
3	Atmospheric aerosol models for systems including the ions $H^+$ , $NH_4^+$ , $Na^+$ , $SO_4^{2-}$ , $NO_3^-$ , $Cl^-$ , $Br^-$ , and $H_2O$ . <i>Journal of Geophysical Research</i> , 2002, 107, ACH 14-1.	3.3	509
4	Thermodynamic Model of the System $H^+NH_4^+Na^+SO_4^{2-}NO_3^-Cl^-H_2O$ at 298.15 K. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2155-2171.	2.5	505
5	Second-generation inorganic aerosol model. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 2731-2748.	1.3	382
6	Statistical mechanical description and modelling of turbulent collision of inertial particles. <i>Journal of Fluid Mechanics</i> , 2000, 415, 117-153.	3.4	303
7	Efficacy of masks and face coverings in controlling outward aerosol particle emission from expiratory activities. <i>Scientific Reports</i> , 2020, 10, 15665.	3.3	284
8	Evolution of particle number distribution near roadways. Part II: the "Road-to-Ambient"™ process. <i>Atmospheric Environment</i> , 2004, 38, 6655-6665.	4.1	246
9	Measurement and numerical simulation of soot particle size distribution functions in a laminar premixed ethylene-oxygen-argon flame. <i>Combustion and Flame</i> , 2003, 133, 173-188.	5.2	230
10	The distribution of ammonium salts among a size and composition dispersed aerosol. <i>Atmospheric Environment Part A General Topics</i> , 1990, 24, 1231-1246.	1.3	229
11	Modelling urban and regional aerosols—i. model development. <i>Atmospheric Environment</i> , 1994, 28, 531-546.	4.1	212
12	Evolution of particle number distribution near roadways—Part I: analysis of aerosol dynamics and its implications for engine emission measurement. <i>Atmospheric Environment</i> , 2004, 38, 6643-6653.	4.1	200
13	Secondary organic aerosol formation and transport — II. Predicting the ambient secondary organic aerosol size distribution. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2403-2416.	1.3	143
14	Effect of voicing and articulation manner on aerosol particle emission during human speech. <i>PLoS ONE</i> , 2020, 15, e0227699.	2.5	138
15	Modelling turbulent collision of bidisperse inertial particles. <i>Journal of Fluid Mechanics</i> , 2001, 433, 77-104.	3.4	130
16	Surface Tensions of Inorganic Multicomponent Aqueous Electrolyte Solutions and Melts. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12216-12230.	2.5	117
17	On the collision rate of small particles in isotropic turbulence. II. Finite inertia case. <i>Physics of Fluids</i> , 1998, 10, 1206-1216.	4.0	115
18	Growth laws for atmospheric aerosol particles: An examination of the bimodality of the accumulation mode. <i>Atmospheric Environment</i> , 1995, 29, 3263-3275.	4.1	110

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19	Statistical mechanical descriptions of turbulent coagulation. <i>Physics of Fluids</i> , 1998, 10, 2647-2651.	4.0	107
20	Where Do Particulate Toxins Reside? An Improved Paradigm for the Structure and Dynamics of the Urban Mid-Atlantic Aerosol. <i>Environmental Science &amp; Technology</i> , 1998, 32, 2547-2555.	10.0	103
21	On-line chemical analysis of aerosols by rapid single-particle mass spectrometry. <i>Journal of Aerosol Science</i> , 1995, 26, 535-545.	3.8	102
22	Size distribution of sea-salt emissions as a function of relative humidity. <i>Atmospheric Environment</i> , 2005, 39, 3373-3379.	4.1	100
23	A new method for multicomponent activity coefficients of electrolytes in aqueous atmospheric aerosols. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	99
24	On the collision rate of small particles in isotropic turbulence. I. $\lambda \ll r$ case. <i>Physics of Fluids</i> , 1998, 10, 266-276.	4.0	97
25	A predictive model of fatigue in human skeletal muscles. <i>Journal of Applied Physiology</i> , 2000, 89, 1322-1332.	2.5	97
26	Analysis of aerosol ammonium nitrate: Departures from equilibrium during SCAQS. <i>Atmospheric Environment Part A General Topics</i> , 1992, 26, 579-591.	1.3	93
27	A comparison of particle mass spectrometers during the 1999 Atlanta Supersite Project. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	90
28	Evolution of particle number distribution near roadways. Part III: Traffic analysis and on-road size resolved particulate emission factors. <i>Atmospheric Environment</i> , 2005, 39, 4155-4166.	4.1	90
29	A mathematical model that predicts skeletal muscle force. <i>IEEE Transactions on Biomedical Engineering</i> , 1997, 44, 337-348.	4.2	88
30	Deliquescence Behavior of Multicomponent Aerosols. <i>Journal of Physical Chemistry A</i> , 1998, 102, 173-180.	2.5	84
31	Influenza A virus is transmissible via aerosolized fomites. <i>Nature Communications</i> , 2020, 11, 4062.	12.8	83
32	Application of the ART-2a Algorithm to Laser Ablation Aerosol Mass Spectrometry of Particle Standards. <i>Analytical Chemistry</i> , 2001, 73, 2338-2344.	6.5	81
33	Multicomponent Aerosol Crystallization. <i>Journal of Colloid and Interface Science</i> , 1996, 183, 68-77.	9.4	79
34	A hypothesis for growth of fresh atmospheric nuclei. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 15-1-AAC 15-6.	3.3	70
35	Quantitation of Ionic Species in Single Microdroplets by Online Laser Desorption/Ionization. <i>Analytical Chemistry</i> , 1994, 66, 3681-3687.	6.5	68
36	Statistical Mechanics of Multilayer Sorption: Extension of the Brunauer-Emmett-Teller (BET) and Guggenheim-Anderson-de Boer (GAB) Adsorption Isotherms. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16474-16487.	3.1	64

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37	Real-Time Monitoring of the Surface and Total Composition of Aerosol Particles. <i>Aerosol Science and Technology</i> , 1997, 26, 291-300.	3.1	62
38	Development of a mathematical model that predicts optimal muscle activation patterns by using brief trains. <i>Journal of Applied Physiology</i> , 2000, 88, 917-925.	2.5	62
39	Modeling the number distributions of urban and regional aerosols: theoretical foundations. <i>Atmospheric Environment</i> , 2002, 36, 1863-1874.	4.1	62
40	Mass Spectrometry of Individual Particles between 50 and 750 nm in Diameter at the Baltimore Supersite. <i>Environmental Science &amp; Technology</i> , 2003, 37, 3268-3274.	10.0	61
41	Size-dependent deposition of particles in the human lung at steady-state breathing. <i>Journal of Aerosol Science</i> , 2008, 39, 266-276.	3.8	61
42	Size-resolved ultrafine particle composition analysis 2. Houston. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
43	On-line analysis of aqueous aerosols by laser desorption ionization. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 163, 29-37.	1.8	57
44	Mathematical models for fatigue minimization during functional electrical stimulation. <i>Journal of Electromyography and Kinesiology</i> , 2003, 13, 575-588.	1.7	57
45	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model " Part 2: Assessing the influence of vapor wall losses. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3041-3059.	4.9	57
46	High Speed Particle Beam Generation: A Dynamic Focusing Mechanism for Selecting Ultrafine Particles. <i>Aerosol Science and Technology</i> , 2000, 33, 87-104.	3.1	56
47	Matrix-Assisted Laser Desorption/Ionization of Size- and Composition-Selected Aerosol Particles. <i>Analytical Chemistry</i> , 1996, 68, 3595-3601.	6.5	53
48	Laser desorption/ionization of ultrafine aerosol particles. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 993-996.	1.5	53
49	Biological Dose Response to PM2.5: Effect of Particle Extraction Method on Platelet and Lung Responses. <i>Toxicological Sciences</i> , 2015, 143, 349-359.	3.1	53
50	A predictive fatigue model. I. Predicting the effect of stimulation frequency and pattern on fatigue. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2002, 10, 48-58.	4.9	51
51	Performance of a Single Ultrafine Particle Mass Spectrometer. <i>Aerosol Science and Technology</i> , 2002, 36, 583-592.	3.1	50
52	Number concentrations of fine and ultrafine particles containing metals. <i>Atmospheric Environment</i> , 2004, 38, 3263-3273.	4.1	50
53	Fluid waves in renal tubules. <i>Biophysical Journal</i> , 1986, 50, 805-813.	0.5	47
54	MS of INDIVIDUAL AEROSOL PARTICLES. <i>Analytical Chemistry</i> , 1995, 67, 721A-726A.	6.5	47

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55	Expiratory aerosol particle escape from surgical masks due to imperfect sealing. <i>Scientific Reports</i> , 2021, 11, 12110.	3.3	47
56	What Have We Learned from Highly Time-Resolved Measurements during EPA's Supersites Program and Related Studies?. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 303-319.	1.9	45
57	US EPA particulate matter research centers: summary of research results for 2005-2011. <i>Air Quality, Atmosphere and Health</i> , 2013, 6, 333-355.	3.3	45
58	Thermodynamics of carbonates and hydrates related to heterogeneous reactions involving mineral aerosol. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	44
59	Two-step, predictive, isometric force model tested on data from human and rat muscles. <i>Journal of Applied Physiology</i> , 1998, 85, 2176-2189.	2.5	43
60	Speciation of size-resolved individual ultrafine particles in Pittsburgh, Pennsylvania. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	43
61	A Comprehensive Breath Plume Model for Disease Transmission via Expiratory Aerosols. <i>PLoS ONE</i> , 2012, 7, e37088.	2.5	43
62	Laser Desorption/Ionization of Single Ultrafine Multicomponent Aerosols. <i>Environmental Science &amp; Technology</i> , 1998, 32, 3218-3223.	10.0	42
63	A high-efficiency, low-bias method for extracting particulate matter from filter and impactor substrates. <i>Atmospheric Environment</i> , 2014, 90, 87-95.	4.1	41
64	Effects of early life exposure to traffic-related air pollution on brain development in juvenile Sprague-Dawley rats. <i>Translational Psychiatry</i> , 2020, 10, 166.	4.8	41
65	Size-resolved fine and ultrafine particle composition in Baltimore, Maryland. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	40
66	Identification of sources of atmospheric PM at the Pittsburgh Supersite, Part I: Single particle analysis and filter-based positive matrix factorization. <i>Atmospheric Environment</i> , 2006, 40, 411-423.	4.1	40
67	An Isotherm-Based Thermodynamic Model of Multicomponent Aqueous Solutions, Applicable Over the Entire Concentration Range. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3198-3213.	2.5	39
68	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. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2015, 78, 254-266.	2.3	39
69	Spatial, temporal and size distribution of particulate matter and its chemical constituents in Faisalabad, Pakistan. <i>Atmosfera</i> , 2015, 28, 99-116.	0.8	38
70	Chromium speciation in aerosols by rapid single-particle mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 151, 77-87.	1.8	37
71	Deliberating performance targets workshop: Potential paths for emerging PM2.5 and O3 air sensor progress. <i>Atmospheric Environment: X</i> , 2019, 2, 100031.	1.4	36
72	Ultrafine nitrate particle events in Baltimore observed by real-time single particle mass spectrometry. <i>Atmospheric Environment</i> , 2004, 38, 3215-3223.	4.1	35

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73	Interactions between boreal wildfire and urban emissions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	35
74	Compositional variance in extracted particulate matter using different filter extraction techniques. <i>Atmospheric Environment</i> , 2015, 107, 24-34.	4.1	35
75	The Effects of Chronic Exposure to Ambient Traffic-Related Air Pollution on Alzheimer's Disease Phenotypes in Wildtype and Genetically Predisposed Male and Female Rats. <i>Environmental Health Perspectives</i> , 2021, 129, 57005.	6.0	35
76	A predictive fatigue model. II. Predicting the effect of resting times on fatigue. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2002, 10, 59-67.	4.9	34
77	Modeling urban and regional aerosols—Application of the CMAQ-UCD Aerosol Model to Tampa, a coastal urban site. <i>Atmospheric Environment</i> , 2008, 42, 3179-3191.	4.1	34
78	MODELING AEROSOL BOLUS DISPERSION IN HUMAN AIRWAYS. <i>Journal of Aerosol Science</i> , 1999, 30, 1345-1362.	3.8	33
79	Design, Fabrication, and Testing of a Microfabricated Corona Ionizer. <i>Journal of Microelectromechanical Systems</i> , 2008, 17, 115-123.	2.5	33
80	Dynamic Mechanical Interactions Between Neighboring Airspaces Determine Cyclic Opening and Closure in Injured Lung. <i>Critical Care Medicine</i> , 2017, 45, 687-694.	0.9	33
81	Statistical Mechanics of Multilayer Sorption: 2. Systems Containing Multiple Solutes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1850-1864.	3.1	32
82	Small particles disrupt postnatal airway development. <i>Journal of Applied Physiology</i> , 2010, 109, 1115-1124.	2.5	31
83	Susceptibility to Inhaled Flame-Generated Ultrafine Soot in Neonatal and Adult Rat Lungs. <i>Toxicological Sciences</i> , 2011, 124, 472-486.	3.1	31
84	Statistical Mechanics of Multilayer Sorption: Surface Tension. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1723-1726.	4.6	31
85	Airborne particles in the San Joaquin Valley may affect human health. <i>California Agriculture</i> , 2010, 64, 12-16.	0.8	31
86	Particle deposition in the pulmonary region of the human lung: A semi-empirical model of single breath transport and deposition. <i>Journal of Aerosol Science</i> , 2007, 38, 228-245.	3.8	30
87	Pulmonary Architecture in the Conducting Regions of Six Rats. <i>Anatomical Record</i> , 2008, 291, 916-926.	1.4	28
88	Direct Surface Analysis of Time-Resolved Aerosol Impactor Samples with Ultrahigh-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 9858-9864.	6.5	27
89	HIGH-SPEED PARTICLE BEAM GENERATION: SIMPLE FOCUSING MECHANISMS. <i>Journal of Aerosol Science</i> , 1999, 30, 719-738.	3.8	26
90	Particle growth in high-speed particle beam inlets. <i>Journal of Aerosol Science</i> , 1997, 28, 223-238.	3.8	24

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91	Marine particle nucleation: Observation at Bodega Bay, California. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	24
92	Particle deposition in the pulmonary region of the human lung: Multiple breath aerosol transport and deposition. <i>Journal of Aerosol Science</i> , 2007, 38, 509-519.	3.8	24
93	Bifurcation Model for Characterization of Pulmonary Architecture. <i>Anatomical Record</i> , 2008, 291, 379-389.	1.4	24
94	Pulmonary inflammatory effects of source-oriented particulate matter from California's San Joaquin Valley. <i>Atmospheric Environment</i> , 2015, 119, 174-181.	4.1	24
95	Identification of sources of atmospheric PM at the Pittsburgh Supersiteâ€”Part III: Source characterization. <i>Atmospheric Environment</i> , 2007, 41, 3974-3992.	4.1	23
96	Automatic evaluation of derivatives. <i>Applied Mathematics and Computation</i> , 1987, 24, 19-46.	2.2	22
97	Modeling the length dependence of isometric force in human quadriceps muscles. <i>Journal of Biomechanics</i> , 2002, 35, 919-930.	2.1	22
98	Adsorption of organic molecules may explain growth of newly nucleated clusters and new particle formation. <i>Geophysical Research Letters</i> , 2013, 40, 2834-2838.	4.0	22
99	Pathological Cardiopulmonary Evaluation of Rats Chronically Exposed to Traffic-Related Air Pollution. <i>Environmental Health Perspectives</i> , 2020, 128, 127003.	6.0	22
100	The character of single particle sulfate in Baltimore. <i>Atmospheric Environment</i> , 2004, 38, 5311-5320.	4.1	21
101	Developmental exposure to near roadway pollution produces behavioral phenotypes relevant to neurodevelopmental disorders in juvenile rats. <i>Translational Psychiatry</i> , 2020, 10, 289.	4.8	21
102	The occurrence of sulfuric acid-water nucleation in plumes: urban environment. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 48, 65.	1.6	20
103	Effects of activation pattern on nonisometric human skeletal muscle performance. <i>Journal of Applied Physiology</i> , 2007, 102, 1985-1991.	2.5	20
104	Electrical Mobility Separation of Airborne Particles Using Integrated Microfabricated Corona Ionizer and Separator Electrodes. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 4-13.	2.5	20
105	Predicting optimal electrical stimulation for repetitive human muscle activation. <i>Journal of Electromyography and Kinesiology</i> , 2005, 15, 300-309.	1.7	19
106	Cross flow ion mobility spectrometry: Theory and initial prototype testing. <i>International Journal of Mass Spectrometry</i> , 2006, 258, 13-20.	1.5	18
107	The effect of solution non-ideality on membrane transport in three-dimensional models of the renal concentrating mechanism. <i>Bulletin of Mathematical Biology</i> , 1994, 56, 515-546.	1.9	17
108	Impact of the Versatile Aerosol Concentration Enrichment System (VACES) on Gas Phase Species. <i>Aerosol Science and Technology</i> , 2010, 44, 1113-1121.	3.1	17

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109	Influence of Season and Location on Pulmonary Response to California's San Joaquin Valley Airborne Particulate Matter. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2012, 75, 253-271.	2.3	17
110	Raoult Was Right After All. <i>ACS Omega</i> , 2019, 4, 12848-12852.	3.5	17
111	Atmospheric particulate matter characterization by Fourier transform infrared spectroscopy: a review of statistical calibration strategies for carbonaceous aerosol quantification in US measurement networks. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 525-567.	3.1	17
112	The interdependence of aerosol processes and mixing in point source plumes. <i>Atmospheric Environment</i> , 1995, 29, 361-375.	4.1	16
113	Design of a Slot Nanoparticle Virtual Impactor. <i>Aerosol Science and Technology</i> , 2006, 40, 737-743.	3.1	16
114	Interaction of epithelium with mesenchyme affects global features of lung architecture: a computer model of development. <i>Journal of Applied Physiology</i> , 2007, 102, 294-305.	2.5	16
115	An interactive teaching device simulating intussusception reduction. <i>Pediatric Radiology</i> , 2010, 40, 1810-1815.	2.0	16
116	Isotherm-Based Thermodynamic Model for Electrolyte and Nonelectrolyte Solutions Incorporating Long- and Short-Range Electrostatic Interactions. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3244-3252.	2.5	16
117	Architecture of the rat nephron-arterial network: analysis with micro-computed tomography. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F351-F360.	2.7	16
118	Micro corona based particle steering air filter. <i>Sensors and Actuators A: Physical</i> , 2013, 196, 8-15.	4.1	15
119	Particle Focusing Characteristics of Sonic Jets. <i>Aerosol Science and Technology</i> , 2003, 37, 907-915.	3.1	14
120	Mathematical model that predicts lower leg motion in response to electrical stimulation. <i>Journal of Biomechanics</i> , 2006, 39, 2826-2836.	2.1	14
121	Age specific responses to acute inhalation of diffusion flame soot particles: Cellular injury and the airway antioxidant response. <i>Inhalation Toxicology</i> , 2010, 22, 70-83.	1.6	14
122	Parameter Interpretation and Reduction for a Unified Statistical Mechanical Surface Tension Model. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3384-3389.	4.6	14
123	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1998, 30, 345-370.	3.2	13
124	Particles do not increase vapor deposition in human airways. <i>Journal of Aerosol Science</i> , 1998, 29, 197-204.	3.8	13
125	Conservation laws in a neural network architecture: enforcing the atom balance of a Julia-based photochemical model (v0.2.0). <i>Geoscientific Model Development</i> , 2022, 15, 3417-3431.	3.6	13
126	Thermophoretic Sampler and its Application in Ultrafine Particle Collection. <i>Aerosol Science and Technology</i> , 2007, 41, 624-629.	3.1	12



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127	A phenomenological model that predicts forces generated when electrical stimulation is superimposed on submaximal volitional contractions. <i>Journal of Applied Physiology</i> , 2010, 108, 1595-1604.	2.5	12
128	An asynchronous time-stepping (ATS) integrator for atmospheric applications: Aerosol dynamics. <i>Atmospheric Environment</i> , 2006, 40, 4574-4588.	4.1	11
129	Disruption of tracheobronchial airway growth following postnatal exposure to ozone and ultrafine particles. <i>Inhalation Toxicology</i> , 2011, 23, 520-531.	1.6	11
130	Collection of Liquid Phase Particles by Microfabricated Electrostatic Precipitator. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 1010-1019.	2.5	11
131	Growth of Ammonium Bisulfate Clusters by Adsorption of Oxygenated Organic Molecules. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11191-11198.	2.5	11
132	Interaction and intensity borrowing between aromatic ring stretching and carboxylate ion antisymmetric stretching modes in benzoate salts. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1967, 23, 1319-1326.	0.1	10
133	Visual Steering and Verification of Mass Spectrometry Data Factorization in Air Quality Research. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2012, 18, 2275-2284.	4.4	10
134	Numerical methods for three-dimensional models of the urine concentrating mechanism. <i>Applied Mathematics and Computation</i> , 1991, 45, 219-240.	2.2	9
135	Transport profiles in the conducting airways of the human lung. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 5552-5561.	4.8	9
136	Postnatal growth of tracheobronchial airways of Sprague-Dawley rats. <i>Journal of Anatomy</i> , 2011, 218, 717-725.	1.5	9
137	A highly efficient cloth facemask design. <i>Aerosol Science and Technology</i> , 2022, 56, 12-28.	3.1	9
138	An algorithm for exact evaluation of multivariate functions and their derivatives to any order. <i>Computational Statistics and Data Analysis</i> , 1988, 6, 1-6.	1.2	8
139	Characterization of Short-Term Particulate Matter Events by Real-Time Single Particle Mass Spectrometry. <i>Aerosol Science and Technology</i> , 2006, 40, 873-882.	3.1	8
140	Detecting Alterations in Pulmonary Airway Development with Airway-by-Airway Comparison. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1805-1814.	2.5	8
141	Reconciling Measurement and Prediction of Free and Solvated Water in Solution. <i>ACS Omega</i> , 2020, 5, 8754-8765.	3.5	8
142	Quantification of toxic metals using machine learning techniques and spark emission spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5369-5377.	3.1	8
143	A mass- and energy-conserving framework for using machine learning to speed computations: a photochemistry example. <i>Geoscientific Model Development</i> , 2020, 13, 4435-4442.	3.6	8
144	Fine particle counting with aerodynamic particle focusing and corona charging. <i>Atmospheric Environment</i> , 2007, 41, 5271-5279.	4.1	7

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145	Extratropical waves transport boreal wildfire emissions and drive regional air quality dynamics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	7
146	Simulated annealing implementation with shorter Markov chain length to reduce computational burden and its application to the analysis of pulmonary airway architecture. <i>Computers in Biology and Medicine</i> , 2011, 41, 707-715.	7.0	7
147	Comparison of Manual and Automated Measurements of Tracheobronchial Airway Geometry in Three Balb/c Mice. <i>Anatomical Record</i> , 2017, 300, 2046-2057.	1.4	7
148	Statistical Mechanics of Multilayer Sorption: Surface Concentration Modeling and XPS Measurement. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1461-1464.	4.6	7
149	Non-respiratory particles emitted by guinea pigs in airborne disease transmission experiments. <i>Scientific Reports</i> , 2021, 11, 17490.	3.3	7
150	Chronic exposure to ambient traffic-related air pollution (TRAP) alters gut microbial abundance and bile acid metabolism in a transgenic rat model of Alzheimer's disease. <i>Toxicology Reports</i> , 2022, 9, 432-444.	3.3	7
151	An invariant-embedding solution of general linear two-point boundary-value problems. <i>Applied Mathematics and Computation</i> , 1988, 26, 237-244.	2.2	6
152	Particle Focusing Characteristics of Matched Aerodynamic Lenses. <i>Aerosol Science and Technology</i> , 2005, 39, 222-230.	3.1	6
153	Characterization of the 8-stage Rotating Drum Impactor under low concentration conditions. <i>Journal of Aerosol Science</i> , 2016, 100, 140-154.	3.8	6
154	The performance of an inexpensive spark-induced breakdown spectroscopy instrument for near real-time analysis of toxic metal particles. <i>Atmospheric Environment</i> , 2021, 264, 118666.	4.1	6
155	Interpreting activity in H <sub>2</sub> O-H <sub>2</sub> SO <sub>4</sub> binary nucleation. <i>Journal of Chemical Physics</i> , 2007, 127, 124316.	3.0	5
156	Ambient aerosol composition by infrared spectroscopy and partial least squares in the chemical speciation network: Multilevel modeling for elemental carbon. <i>Aerosol Science and Technology</i> , 2018, 52, 642-654.	3.1	5
157	Solution of nonlinear boundary value problems coupled to a system of algebraic equations using quasilinearization. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1987, 11, 691-696.	1.1	4
158	Laser desorption ionization of size resolved liquid microdroplets. <i>Analytica Chimica Acta</i> , 1998, 359, 185-191.	5.4	4
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