

Ernest Weingartner

List of Publications by Year in descending order

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182
papers

23,341
citations

11235

73
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12638

137
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203
docs citations

203
times ranked

11268
citing authors

#	ARTICLE	IF	CITATIONS
1	Hygroscopic properties of submicrometer atmospheric aerosol particles measured with H-TDMA instruments in various environments—a review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 432.	0.8	401
2	Comparing black-carbon- and aerosol-absorption-measuring instruments—a new system using lab-generated soot coated with controlled amounts of secondary organic matter. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 561-572.	1.2	20
3	Single Aerosol Particle Detection by Acoustic Impaction. <i>IEEE Sensors Journal</i> , 2022, 22, 11584-11593.	2.4	0
4	A dual-wavelength photothermal aerosol absorption monitor: design, calibration and performance. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3805-3825.	1.2	6
5	A global study of hygroscopicity-driven light-scattering enhancement in the context of other in situ aerosol optical properties. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13031-13050.	1.9	7
6	A global model—measurement evaluation of particle light scattering coefficients at elevated relative humidity. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10231-10258.	1.9	19
7	A single-beam photothermal interferometer for in situ measurements of aerosol light absorption. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 7097-7111.	1.2	12
8	A global view on the effect of water uptake on aerosol particle light scattering. <i>Scientific Data</i> , 2019, 6, 157.	2.4	28
9	A European aerosol phenomenology—6: scattering properties of atmospheric aerosol particles from 28 ACTRIS sites. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7877-7911.	1.9	76
10	Ambient and laboratory observations of organic ammonium salts in PM ₁ . <i>Faraday Discussions</i> , 2017, 200, 331-351.	1.6	14
11	A Review of More than 20 Years of Aerosol Observation at the High Altitude Research Station Jungfraujoch, Switzerland (3580 m asl). <i>Aerosol and Air Quality Research</i> , 2016, 16, 764-788.	0.9	55
12	The role of low-volatility organic compounds in initial particle growth in the atmosphere. <i>Nature</i> , 2016, 533, 527-531.	13.7	540
13	Ion-induced nucleation of pure biogenic particles. <i>Nature</i> , 2016, 533, 521-526.	13.7	528
14	New particle formation in the free troposphere: A question of chemistry and timing. <i>Science</i> , 2016, 352, 1109-1112.	6.0	348
15	A European aerosol phenomenology-5: Climatology of black carbon optical properties at 9 regional background sites across Europe. <i>Atmospheric Environment</i> , 2016, 145, 346-364.	1.9	132
16	Development of an airborne sensor for reliable detection of volcanic ash. , 2016, , .		0
17	Reduced anthropogenic aerosol radiative forcing caused by biogenic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12053-12058.	3.3	107
18	Contribution of new particle formation to the total aerosol concentration at the high-altitude site Jungfraujoch (3580 m asl, Switzerland). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,692.	1.2	21

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19	Vertical profiling of aerosol hygroscopic properties in the planetary boundary layer during the PEGASOS campaigns. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7295-7315.	1.9	17
20	Chemical and physical influences on aerosol activation in liquid clouds: a study based on observations from the Jungfraujoch, Switzerland. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4043-4061.	1.9	14
21	Studying the vertical aerosol extinction coefficient by comparing in situ airborne data and elastic backscatter lidar. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4539-4554.	1.9	33
22	Ice residual properties in mixed-phase clouds at the high-alpine Jungfraujoch site. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12343-12362.	1.2	25
23	Analysis of long-term aerosol size distribution data from Jungfraujoch with emphasis on free tropospheric conditions, cloud influence, and air mass transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9459-9480.	1.2	69
24	Single-particle characterization of ice-nucleating particles and ice particle residuals sampled by three different techniques. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4161-4178.	1.9	38
25	A synthesis of cloud condensation nuclei counter (CCNC) measurements within the EUCAARI network. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12211-12229.	1.9	58
26	Sensitivity estimations for cloud droplet formation in the vicinity of the high-alpine research station Jungfraujoch (3580 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10309-10323.	1.9	14
27	Dual-wavelength light-scattering technique for selective detection of volcanic ash particles in the presence of water droplets. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 5213-5222.	1.2	12
28	The Ice Selective Inlet: a novel technique for exclusive extraction of pristine ice crystals in mixed-phase clouds. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 3087-3106.	1.2	20
29	The white-light humidified optical particle spectrometer (WHOPS) – a novel airborne system to characterize aerosol hygroscopicity. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 921-939.	1.2	15
30	Influence of water uptake on the aerosol particle light scattering coefficients of the Central European aerosol. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2014, 66, 22716.	0.8	61
31	Investigation of the Planetary Boundary Layer in the Swiss Alps Using Remote Sensing and In Situ Measurements. <i>Boundary-Layer Meteorology</i> , 2014, 151, 317-334.	1.2	41
32	Oxidation Products of Biogenic Emissions Contribute to Nucleation of Atmospheric Particles. <i>Science</i> , 2014, 344, 717-721.	6.0	456
33	Predicting hygroscopic growth using single particle chemical composition estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9567-9577.	1.2	16
34	Size-dependent particle activation properties in fog during the ParisFog 2012/13 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10517-10533.	1.9	49
35	Investigation of the effective peak supersaturation for liquid-phase clouds at the high-alpine site Jungfraujoch, Switzerland (3580 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1123-1139.	1.9	50
36	Surface-to-mountaintop transport characterised by radon observations at the Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12763-12779.	1.9	45

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37	Variations in tropospheric submicron particle size distributions across the European continent 2008–2009. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4327-4348.	1.9	41
38	Hygroscopic properties of fresh and aged wood burning particles. <i>Journal of Aerosol Science</i> , 2013, 56, 15-29.	1.8	78
39	Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.	13.7	774
40	Role of organics in particle nucleation: From the lab to global model. , 2013, , .		1
41	Aerosol nucleation and growth in a mixture of sulfuric acid/alpha-pinene oxidation products at the CERN CLOUD chamber. , 2013, , .		0
42	Particle nucleation events at the high Alpine station Jungfraujoch. , 2013, , .		0
43	Evolution of nanoparticle composition in CLOUD in presence of sulphuric acid, ammonia and organics. , 2013, , .		1
44	A Compact and Portable Deposition Chamber to Study Nanoparticles in Air-Exposed Tissue. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2013, 26, 228-235.	0.7	17
45	CCN activity and volatility of β -caryophyllene secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2283-2297.	1.9	33
46	Aerosol decadal trends – Part 1: In-situ optical measurements at GAW and IMPROVE stations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 869-894.	1.9	126
47	Effects of relative humidity on aerosol light scattering: results from different European sites. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10609-10631.	1.9	184
48	Evolution of particle composition in CLOUD nucleation experiments. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5587-5600.	1.9	33
49	Black carbon physical properties and mixing state in the European megacity Paris. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5831-5856.	1.9	174
50	Hygroscopic mixing state of urban aerosol derived from size-resolved cloud condensation nuclei measurements during the MEGAPOLI campaign in Paris. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6431-6446.	1.9	48
51	Effect of photochemical ageing on the ice nucleation properties of diesel and wood burning particles. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 761-772.	1.9	50
52	Aerosol decadal trends – Part 2: In-situ aerosol particle number concentrations at GAW and ACTRIS stations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 895-916.	1.9	78
53	Holzfeuerungen: eine bedeutende Quelle von Feinstaub in der Schweiz. <i>Schweizerische Zeitschrift Fur Forstwesen</i> , 2013, 164, 420-427.	0.5	0
54	Mobility particle size spectrometers: harmonization of technical standards and data structure to facilitate high quality long-term observations of atmospheric particle number size distributions. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 657-685.	1.2	689

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55	Evaluating the capabilities and uncertainties of droplet measurements for the fog droplet spectrometer (FM-100). <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2237-2260.	1.2	75
56	The regional aerosol-climate model REMO-HAM. <i>Geoscientific Model Development</i> , 2012, 5, 1323-1339.	1.3	19
57	Spatial variation of aerosol optical properties around the high-alpine site Jungfraujoch (3580 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7231-7249.	1.9	55
58	Contribution of sulfuric acid and oxidized organic compounds to particle formation and growth. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9427-9439.	1.9	76
59	A new method to discriminate secondary organic aerosols from different sources using high-resolution aerosol mass spectra. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2189-2203.	1.9	32
60	A 17 month climatology of the cloud condensation nuclei number concentration at the high alpine site Jungfraujoch. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	65
61	Role of sulphuric acid, ammonia and galactic cosmic rays in atmospheric aerosol nucleation. <i>Nature</i> , 2011, 476, 429-433.	13.7	1,114
62	Climatology of aerosol radiative properties in the free troposphere. <i>Atmospheric Research</i> , 2011, 102, 365-393.	1.8	121
63	Relating hygroscopicity and composition of organic aerosol particulate matter. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1155-1165.	1.9	326
64	Ice nuclei properties within a Saharan dust event at the Jungfraujoch in the Swiss Alps. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4725-4738.	1.9	128
65	Aerosol climatology and planetary boundary influence at the Jungfraujoch analyzed by synoptic weather types. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5931-5944.	1.9	92
66	Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in Switzerland in spring 2010. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10011-10030.	1.9	87
67	Volatility and hygroscopicity of aging secondary organic aerosol in a smog chamber. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11477-11496.	1.9	119
68	Aging induced changes on NEXAFS fingerprints in individual combustion particles. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11777-11791.	1.9	17
69	Primary versus secondary contributions to particle number concentrations in the European boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12007-12036.	1.9	110
70	Chemical composition and mixing-state of ice residuals sampled within mixed phase clouds. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2805-2816.	1.9	55
71	Number size distributions and seasonality of submicron particles in Europe 2008–2009. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5505-5538.	1.9	214
72	Aerosol and trace gas vehicle emission factors measured in a tunnel using an Aerosol Mass Spectrometer and other on-line instrumentation. <i>Atmospheric Environment</i> , 2011, 45, 2182-2192.	1.9	73

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73	Relating cloud condensation nuclei activity and oxidation level of α -pinene secondary organic aerosols. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	57
74	Changes of hygroscopicity and morphology during ageing of diesel soot. <i>Environmental Research Letters</i> , 2011, 6, 034026.	2.2	138
75	Investigations of primary and secondary particulate matter of different wood combustion appliances with a high-resolution time-of-flight aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5945-5957.	1.9	215
76	Comparison of ambient aerosol extinction coefficients obtained from in-situ, MAX-DOAS and LIDAR measurements at Cabauw. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2603-2624.	1.9	126
77	Characterization and intercomparison of aerosol absorption photometers: result of two intercomparison workshops. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 245-268.	1.2	284
78	Impact of aftertreatment devices on primary emissions and secondary organic aerosol formation potential from in-use diesel vehicles: results from smog chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11545-11563.	1.9	178
79	EUCAARI ion spectrometer measurements at 12 European sites – analysis of new particle formation events. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7907-7927.	1.9	248
80	Measured and predicted aerosol light scattering enhancement factors at the high alpine site Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2319-2333.	1.9	92
81	Widening the gap between measurement and modelling of secondary organic aerosol properties?. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2577-2593.	1.9	60
82	Effects of relative humidity on aerosol light scattering in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3875-3890.	1.9	124
83	Single particle characterization of black carbon aerosols at a tropospheric alpine site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7389-7407.	1.9	109
84	Measured and modelled cloud condensation nuclei number concentration at the high alpine site Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7891-7906.	1.9	104
85	13-month climatology of the aerosol hygroscopicity at the free tropospheric site Jungfraujoch (3580 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7843-7858.	1.9	98
86	Results from the CERN pilot CLOUD experiment. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1635-1647.	1.9	96
87	New particle formation and ultrafine charged aerosol climatology at a high altitude site in the Alps (Jungfraujoch, 3580 m a.s.l., Switzerland). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9333-9349.	1.9	84
88	Measurement of relative humidity dependent light scattering of aerosols. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 39-50.	1.2	88
89	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4775-4793.	1.9	212
90	Evidence for the role of organics in aerosol particle formation under atmospheric conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6646-6651.	3.3	403

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91	Subarctic atmospheric aerosol composition: 3. Measured and modeled properties of cloud condensation nuclei. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	78
92	Light scattering enhancement factors in the marine boundary layer (Mace Head, Ireland). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
93	Physical Properties, Chemical Composition, and Cloud Forming Potential of Particulate Emissions from a Marine Diesel Engine at Various Load Conditions. <i>Environmental Science & Technology</i> , 2010, 44, 3800-3805.	4.6	92
94	Intercomparison study of six HTDMAs: results and recommendations. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 363-378.	1.2	125
95	Deposition Uniformity and Particle Size Distribution of Ambient Aerosol Collected with a Rotating Drum Impactor. <i>Aerosol Science and Technology</i> , 2009, 43, 891-901.	1.5	16
96	Water uptake of clay and desert dust aerosol particles at sub- and supersaturated water vapor conditions. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7804.	1.3	100
97	Influence of gas-to-particle partitioning on the hygroscopic and droplet activation behaviour of α -pinene secondary organic aerosol. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8091.	1.3	59
98	Influence of particle chemical composition on the phase of cold clouds at a high-altitude alpine site in Switzerland. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	30
99	Subarctic atmospheric aerosol composition: 2. Hygroscopic growth properties. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	34
100	Analysis of the hygroscopic and volatile properties of ammonium sulphate seeded and unseeded SOA particles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 721-732.	1.9	118
101	A study of wood burning and traffic aerosols in an Alpine valley using a multi-wavelength Aethalometer. <i>Atmospheric Environment</i> , 2008, 42, 101-112.	1.9	330
102	Using Aerosol Light Absorption Measurements for the Quantitative Determination of Wood Burning and Traffic Emission Contributions to Particulate Matter. <i>Environmental Science & Technology</i> , 2008, 42, 3316-3323.	4.6	629
103	Cloud forming potential of secondary organic aerosol under near atmospheric conditions. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	145
104	Aerosol processing in mixed-phase clouds in ECHAM5: Model description and comparison to observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	33
105	Black carbon enrichment in atmospheric ice particle residuals observed in lower tropospheric mixed phase clouds. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	111
106	In situ determination of atmospheric aerosol composition as a function of hygroscopic growth. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	28
107	The influence of small aerosol particles on the properties of water and ice clouds. <i>Faraday Discussions</i> , 2008, 137, 205-222.	1.6	43
108	Experimental studies on particle emissions from cruising ship, their characteristic properties, transformation and atmospheric lifetime in the marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2387-2403.	1.9	182

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109	Chemical composition of free tropospheric aerosol for PM1 and coarse mode at the high alpine site Jungfrauoch. Atmospheric Chemistry and Physics, 2008, 8, 407-423.	1.9	144
110	Changes of fatty acid aerosol hygroscopicity induced by ozonolysis under humid conditions. Atmospheric Chemistry and Physics, 2008, 8, 4683-4690.	1.9	41
111	A combined particle trap/HTDMA hygroscopicity study of mixed inorganic/organic aerosol particles. Atmospheric Chemistry and Physics, 2008, 8, 5589-5601.	1.9	147
112	Hygroscopicity of the submicrometer aerosol at the high-alpine site Jungfrauoch, 3580 m a.s.l., Switzerland. Atmospheric Chemistry and Physics, 2008, 8, 5715-5729.	1.9	100
113	Scavenging of black carbon in mixed phase clouds at the high alpine site Jungfrauoch. Atmospheric Chemistry and Physics, 2007, 7, 1797-1807.	1.9	123
114	Counterflow Virtual Impactor Based Collection of Small Ice Particles in Mixed-Phase Clouds for the Physico-Chemical Characterization of Tropospheric Ice Nuclei: Sampler Description and First Case Study. Aerosol Science and Technology, 2007, 41, 848-864.	1.5	83
115	Hygroscopic growth and water uptake kinetics of two-phase aerosol particles consisting of ammonium sulfate, adipic and humic acid mixtures. Journal of Aerosol Science, 2007, 38, 157-171.	1.8	206
116	Long-term trend analysis of aerosol variables at the high-alpine site Jungfrauoch. Journal of Geophysical Research, 2007, 112, .	3.3	92
117	Aerosol partitioning between the interstitial and the condensed phase in mixed-phase clouds. Journal of Geophysical Research, 2007, 112, .	3.3	80
118	Iron, manganese and copper emitted by cargo and passenger trains in Zürich (Switzerland): Size-segregated mass concentrations in ambient air. Atmospheric Environment, 2007, 41, 878-889.	1.9	92
119	Contribution of railway traffic to local PM10 concentrations in Switzerland. Atmospheric Environment, 2007, 41, 923-933.	1.9	76
120	Aerosol Formation from Isoprene: Determination of Particle Nucleation and Growth Rates. , 2007, , 989-993.		0
121	Hygroscopic and Volatile Properties of Ultrafine Particles in the Eucalypt Forests: Comparison with Chamber Experiments and the Role of Sulphates in New Particle Formation. , 2007, , 689-693.		1
122	Partitioning of Aerosol Particles in Mixed-phase Clouds at a High Alpine Site. , 2007, , 565-569.		0
123	Online gas and aerosol measurement of water soluble carboxylic acids in Zurich. Journal of Geophysical Research, 2006, 111, .	3.3	54
124	Laboratory observation of oligomers in the aerosol from isoprene/NOx photooxidation. Geophysical Research Letters, 2006, 33, .	1.5	152
125	Volatility measurements of photochemically and nebulizer-generated organic aerosol particles. Journal of Aerosol Science, 2006, 37, 1025-1051.	1.8	47
126	The effect of physical and chemical aerosol properties on warm cloud droplet activation. Atmospheric Chemistry and Physics, 2006, 6, 2593-2649.	1.9	690

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127	Seasonal and diurnal characteristics of water soluble inorganic compounds in the gas and aerosol phase in the Zurich area. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1895-1904.	1.9	35
128	Effect of humidity on nitric acid uptake to mineral dust aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2147-2160.	1.9	125
129	Aerosol and NO _x emission factors and submicron particle number size distributions in two road tunnels with different traffic regimes. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2215-2230.	1.9	43
130	Dynamics of host plant use and species diversity in <i>Polygonia</i> butterflies (Nymphalidae). <i>Journal of Evolutionary Biology</i> , 2006, 19, 483-491.	0.8	64
131	On the effects of organic matter and sulphur-containing compounds on the CCN activation of combustion particles. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3187-3203.	1.9	77
132	Vertical distribution of aerosol particles and NO _x close to a motorway. <i>Atmospheric Environment</i> , 2005, 39, 5710-5721.	1.9	49
133	Secondary organic aerosols from anthropogenic and biogenic precursors. <i>Faraday Discussions</i> , 2005, 130, 265.	1.6	245
134	Secondary Organic Aerosol Formation by Irradiation of 1,3,5-Trimethylbenzene+NO _x +H ₂ O in a New Reaction Chamber for Atmospheric Chemistry and Physics. <i>Environmental Science & Technology</i> , 2005, 39, 2668-2678.	4.6	191
135	Trace Metals in Ambient Air: Hourly Size-Segregated Mass Concentrations Determined by Synchrotron-XRF. <i>Environmental Science & Technology</i> , 2005, 39, 5754-5762.	4.6	64
136	Adaptation of Dry Nephelometer Measurements to Ambient Conditions at the Jungfrauoch. <i>Environmental Science & Technology</i> , 2005, 39, 2219-2228.	4.6	54
137	Real-World Emission Factors of Fine and Ultrafine Aerosol Particles for Different Traffic Situations in Switzerland. <i>Environmental Science & Technology</i> , 2005, 39, 8341-8350.	4.6	101
138	Aerosol single particle composition at the Jungfrauoch. <i>Journal of Aerosol Science</i> , 2005, 36, 123-145.	1.8	59
139	Effect of humidity on aerosol light absorption and its implications for extinction and the single scattering albedo illustrated for a site in the lower free troposphere. <i>Journal of Aerosol Science</i> , 2005, 36, 958-972.	1.8	87
140	Generation of Submicron Arizona Test Dust Aerosol: Chemical and Hygroscopic Properties. <i>Aerosol Science and Technology</i> , 2005, 39, 452-460.	1.5	95
141	Identification of Polymers as Major Components of Atmospheric Organic Aerosols. <i>Science</i> , 2004, 303, 1659-1662.	6.0	947
142	A European aerosol phenomenology "1": physical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe. <i>Atmospheric Environment</i> , 2004, 38, 2561-2577.	1.9	494
143	Identification of Organic Acids in Secondary Organic Aerosol and the Corresponding Gas Phase from Chamber Experiments. <i>Analytical Chemistry</i> , 2004, 76, 6535-6540.	3.2	110
144	Aerosol partitioning in natural mixed-phase clouds. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	39

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145	Properties of jet engine combustion particles during the PartEmis experiment: Particle size spectra (d) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 5	1.5	4
146	Hygroscopic properties of water-soluble matter and humic-like organics in atmospheric fine aerosol. Atmospheric Chemistry and Physics, 2004, 4, 35-50.	1.9	242
147	Separate determination of PM<SUB align=right>10 emission factors of road traffic for tailpipe emissions and emissions from abrasion and resuspension processes. International Journal of Environment and Pollution, 2004, 22, 312.	0.2	78
148	Roadside measurements of particulate matter size distribution. Atmospheric Environment, 2003, 37, 5273-5281.	1.9	56
149	Simultaneous dry and ambient measurements of aerosol size distributions at the Jungfrauoch. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 808-819.	0.8	11
150	Seasonal variation of water-soluble ions of the aerosol at the high-alpine site Jungfrauoch (3580 m) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	64
151	Properties of jet engine combustion particles during the PartEmis experiment: Hygroscopicity at subsaturated conditions. Geophysical Research Letters, 2003, 30, .	1.5	57
152	Properties of jet engine combustion particles during the PartEmis experiment: Microphysics and Chemistry. Geophysical Research Letters, 2003, 30, .	1.5	37
153	Properties of jet engine combustion particles during the PartEmis experiment. Hygroscopic growth at supersaturated conditions. Geophysical Research Letters, 2003, 30, .	1.5	37
154	Absorption of light by soot particles: determination of the absorption coefficient by means of aethalometers. Journal of Aerosol Science, 2003, 34, 1445-1463.	1.8	1,035
155	Coating of soot and (NH ₄) ₂ SO ₄ particles by ozonolysis products of Î±-pinene. Journal of Aerosol Science, 2003, 34, 1297-1321.	1.8	179
156	Carbon mass determinations during the AIDA soot aerosol campaign 1999. Journal of Aerosol Science, 2003, 34, 1399-1420.	1.8	42
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