Michael Schulz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9332830/publications.pdf

Version: 2024-02-01

		8755	5255
172	31,846	75	165
papers	citations	h-index	g-index

234	234	234	19201
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Uncertainties in assessing radiative forcing by mineral dust. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 491.	1.6	111
2	Biomass burning aerosols in most climate models are too absorbing. Nature Communications, 2021, 12, 277.	12.8	84
3	AeroCom phase III multi-model evaluation of the aerosol life cycle and optical properties using ground- and space-based remote sensing as well as surface in situ observations. Atmospheric Chemistry and Physics, 2021, 21, 87-128.	4.9	96
4	Effective radiative forcing from emissions of reactive gases and aerosols â€“ a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874.	4.9	65
5	AEROCOM and AEROSAT AAOD and SSA study â€“ PartÂ1: Evaluation and intercomparison of satellite measurements. Atmospheric Chemistry and Physics, 2021, 21, 6895-6917.	4.9	27
6	Evaluation of natural aerosols in CRESCENDO Earth system models (ESMs): mineral dust. Atmospheric Chemistry and Physics, 2021, 21, 10295-10335.	4.9	20
7	Energy Budget Constraints on the Time History of Aerosol Forcing and Climate Sensitivity. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033622.	3.3	25
8	Understanding Topâ€ofâ€Atmosphere Flux Bias in the AeroCom Phase III Models: A Clearâ€Sky Perspective. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002584.	3.8	4
9	Shutdown of Southern Ocean convection controls long-term greenhouse gas-induced warming. Nature Geoscience, 2021, 14, 724-731.	12.9	19
10	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. Atmospheric Chemistry and Physics, 2021, 21, 1105-1126.	4.9	39
11	Aerosol absorption in global models from AeroCom phase III. Atmospheric Chemistry and Physics, 2021, 21, 15929-15947.	4.9	27
12	Bounding Global Aerosol Radiative Forcing of Climate Change. Reviews of Geophysics, 2020, 58, e2019RG000660.	23.0	424
13	Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. Atmospheric Chemistry and Physics, 2020, 20, 8381-8404.	4.9	18
14	Prediction of source contributions to urban background PM₁₀ concentrations in European cities: a case study for an episode in December 2016 using EMEP/MSC-W rv4.15 and LOTOS-EUROS v2.0 â€“ Part 1: The country contributions. Geoscientific Model Development, 2020, 13, 1787-1807.	3.6	17
15	A global modelâ€“measurement evaluation of particle light scattering coefficients at elevated relative humidity. Atmospheric Chemistry and Physics, 2020, 20, 10231-10258.	4.9	19
16	Effects of global ship emissions on European air pollution levels. Atmospheric Chemistry and Physics, 2020, 20, 11399-11422.	4.9	47
17	An AeroComâ€“AeroSat study: intercomparison of satellite AOD datasets for aerosol model evaluation. Atmospheric Chemistry and Physics, 2020, 20, 12431-12457.	4.9	40
18	Evaluation of climate model aerosol trends with ground-based observations over the last 2Âdecades â€“ an AeroCom and CMIP6 analysis. Atmospheric Chemistry and Physics, 2020, 20, 13355-13378.	4.9	38

#	Article	IF	Citations
19	Historical and future changes in air pollutants from CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 14547-14579.	4.9	105
20	Bias in CMIP6 models as compared to observed regional dimming and brightening. Atmospheric Chemistry and Physics, 2020, 20, 16023-16040.	4.9	25
21	Cloudy-sky contributions to the direct aerosol effect. Atmospheric Chemistry and Physics, 2020, 20, 8855-8865.	4.9	8
22	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663.	4.9	30
23	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 2020, 13, 4353-4392.	3.1	65
24	Ocean biogeochemistry in the Norwegian Earth System Model version 2 (NorESM2). Geoscientific Model Development, 2020, 13, 2393-2431.	3.6	68
25	Overview of the Norwegian Earth System Model (NorESM2) and key climate response of CMIP6 DECK, historical, and scenario simulations. Geoscientific Model Development, 2020, 13, 6165-6200.	3.6	280
26	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. Earth System Dynamics, 2019, 10, 379-452.	7.1	46
27	African dust deposition in Puerto Rico: Analysis of a 20-year rainfall chemistry record and comparison with models. Atmospheric Environment, 2019, 216, 116907.	4.1	17
28	The CAMS reanalysis of atmospheric composition. Atmospheric Chemistry and Physics, 2019, 19, 3515-3556.	4.9	524
29	Asian and Transâ€Pacific Dust: A Multimodel and Multiremote Sensing Observation Analysis. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13534-13559.	3.3	24
30	Global and regional trends of atmospheric sulfur. Scientific Reports, 2019, 9, 953.	3.3	166
31	Spatial Representativeness Error in the Groundâ€Level Observation Networks for Black Carbon Radiation Absorption. Geophysical Research Letters, 2018, 45, 2106-2114.	4.0	18
32	Aerosol Absorption: Progress Towards Global and Regional Constraints. Current Climate Change Reports, 2018, 4, 65-83.	8.6	103
33	Climate Response to Aerosol Geoengineering: A Multimethod Comparison. Journal of Climate, 2018, 31, 6319-6340.	3.2	20
34	Concentrations and radiative forcing of anthropogenic aerosols from 1750 to 2014 simulated with the OsloÂCTM3 and CEDS emission inventory. Geoscientific Model Development, 2018, 11, 4909-4931.	3.6	35
35	Strong impacts on aerosol indirect effects from historical oxidant changes. Atmospheric Chemistry and Physics, 2018, 18, 7669-7690.	4.9	34
36	Long-range transport impacts on surface aerosol concentrations and the contributions to haze events in China: an HTAP2 multi-model study. Atmospheric Chemistry and Physics, 2018, 18, 15581-15600.	4.9	12

#	Article	IF	Citations
37	The effects of intercontinental emission sources on European air pollution levels. Atmospheric Chemistry and Physics, 2018, 18, 13655-13672.	4.9	34
38	A production-tagged aerosol module for Earth system models, OsloAero5.3 â€“ extensions and updates for CAM5.3-Oslo. Geoscientific Model Development, 2018, 11, 3945-3982.	3.6	44
39	On the spatio-temporal representativeness of observations. Atmospheric Chemistry and Physics, 2017, 17, 9761-9780.	4.9	84
40	Aerosols at the poles: an AeroCom Phase II multi-model evaluation. Atmospheric Chemistry and Physics, 2017, 17, 12197-12218.	4.9	58
41	Investigation of global particulate nitrate from the AeroCom phaseÂIII experiment. Atmospheric Chemistry and Physics, 2017, 17, 12911-12940.	4.9	99
42	Multi-model simulations of aerosol and ozone radiative forcing due to anthropogenic emission changes during the periodÂ1990â€“2015. Atmospheric Chemistry and Physics, 2017, 17, 2709-2720.	4.9	87
43	Technical note: Coordination and harmonization of the multi-scale, multi-model activities HTAP2, AQMEII3, and MICS-Asia3: simulations, emission inventories, boundary conditions, and modelÂoutputÂformats. Atmospheric Chemistry and Physics, 2017, 17, 1543-1555.	4.9	81
44	Uncertainty assessment and applicability of an inversion method for volcanic ash forecasting. Atmospheric Chemistry and Physics, 2017, 17, 9205-9222.	4.9	4
45	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. Geoscientific Model Development, 2017, 10, 585-607.	3.6	202
46	The operational eEMEP model version 10.4 for volcanic SO₂ and ash forecasting. Geoscientific Model Development, 2017, 10, 1927-1943.	3.6	3
47	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). Remote Sensing, 2016, 8, 421.	4.0	131
48	Evaluation of the aerosol vertical distribution in global aerosol models through comparison against CALIOP measurements: AeroCom phase II results. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7254-7283.	3.3	80
49	Recommendations for diagnosing effective radiative forcing from climate models for CMIP6. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,460.	3.3	161
50	Global and regional radiative forcing from 20â€¯% reductions in BC, OC and SO₄ â€“ an HTAP2 multi-model study. Atmospheric Chemistry and Physics, 2016, 16, 13579-13599.	4.9	42
51	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models. Atmospheric Chemistry and Physics, 2016, 16, 3525-3561.	4.9	75
52	What controls the vertical distribution of aerosol? Relationships between process sensitivity in HadGEM3â€“UKCA and inter-model variation from AeroCom Phase II. Atmospheric Chemistry and Physics, 2016, 16, 2221-2241.	4.9	82
53	Forecasting the northern African dust outbreak towards Europe in April 2011: a model intercomparison. Atmospheric Chemistry and Physics, 2016, 16, 4967-4986.	4.9	32
54	Multi-model evaluation of short-lived pollutant distributions over east Asia during summer 2008. Atmospheric Chemistry and Physics, 2016, 16, 10765-10792.	4.9	17

#	Article	IF	Citations
55	Will a perfect model agree with perfect observations? The impact of spatial sampling. Atmospheric Chemistry and Physics, 2016, 16, 6335-6353.	4.9	108
56	A model study of the pollution effects of the first 3 months of the Holuhraun volcanic fissure: comparison with observations and air pollution effects. Atmospheric Chemistry and Physics, 2016, 16, 9745-9760.	4.9	8
57	Modeling the distribution and seasonality ofNeogloboquadrina pachydermain the North Atlantic Ocean during Heinrich Stadial 1. Paleoceanography, 2016, 31, 986-1010.	3.0	19
58	Aerosol singleâ€scattering albedo over the global oceans: Comparing PARASOL retrievals with AERONET, OMI, and AeroCom models estimates. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9814-9836.	3.3	58
59	The MACC-II 2007â€“2008 reanalysis: atmospheric dust evaluation and characterization over northern Africa and the Middle East. Atmospheric Chemistry and Physics, 2015, 15, 3991-4024.	4.9	76
60	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. Atmospheric Chemistry and Physics, 2015, 15, 9413-9433.	4.9	145
61	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	4.9	365
62	Validation of reactive gases and aerosols in the MACC global analysis and forecast system. Geoscientific Model Development, 2015, 8, 3523-3543.	3.6	49
63	Performance of European chemistry transport models as function of horizontal resolution. Atmospheric Environment, 2015, 112, 90-105.	4.1	85
64	Evaluation of seven European aerosol optical depth retrieval algorithms for climate analysis. Remote Sensing of Environment, 2015, 162, 295-315.	11.0	112
65	Arctic sea ice and atmospheric circulation under the GeoMIP G1 scenario. Journal of Geophysical Research D: Atmospheres, 2014, 119, 567-583.	3.3	45
66	Impacts of intercontinental transport of anthropogenic fine particulate matter on human mortality. Air Quality, Atmosphere and Health, 2014, 7, 369-379.	3.3	64
67	Sources, sinks, and transatlantic transport of North African dust aerosol: A multimodel analysis and comparison with remote sensing data. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6259-6277.	3.3	88
68	Upward adjustment needed for aerosol radiative forcing uncertainty. Nature Climate Change, 2014, 4, 230-232.	18.8	19
69	The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895.	4.9	363
70	A global model simulation of present and future nitrate aerosols and their direct radiative forcing of climate. Atmospheric Chemistry and Physics, 2014, 14, 11031-11063.	4.9	167
71	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. Atmospheric Chemistry and Physics, 2014, 14, 12465-12477.	4.9	157
72	An AeroCom assessment of black carbon in Arctic snow and sea ice. Atmospheric Chemistry and Physics, 2014, 14, 2399-2417.	4.9	86

#	Article	IF	Citations
73	A new method for evaluating the impact of vertical distribution on aerosol radiative forcing in general circulation models. Atmospheric Chemistry and Physics, 2014, 14, 877-897.	4.9	29
74	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. Atmospheric Chemistry and Physics, 2014, 14, 4679-4713.	4.9	148
75	Forcings and feedbacks in the GeoMIP ensemble for a reduction in solar irradiance and increase in CO₂. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5226-5239.	3.3	19
76	Numerical Dust Models. , 2014, , 201-222.		7
77	Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 8320-8332.	3.3	226
78	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. Climate Dynamics, 2013, 40, 2123-2165.	3.8	1,425
79	Aerosol and ozone changes as forcing for climate evolution between 1850 and 2100. Climate Dynamics, 2013, 40, 2223-2250.	3.8	157
80	Bounding the role of black carbon in the climate system: A scientific assessment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5380-5552.	3.3	4,319
81	Globalâ€scale seasonally resolved black carbon vertical profiles over the Pacific. Geophysical Research Letters, 2013, 40, 5542-5547.	4.0	124
82	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. Geoscientific Model Development, 2013, 6, 179-206.	3.6	388
83	Aerosolâ€“climate interactions in the Norwegian Earth System Model â€“ NorESM1-M. Geoscientific Model Development, 2013, 6, 207-244.	3.6	158
84	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. Atmospheric Chemistry and Physics, 2013, 13, 1853-1877.	4.9	779
85	Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment. Atmospheric Chemistry and Physics, 2013, 13, 2347-2379.	4.9	94
86	Black carbon vertical profiles strongly affect its radiative forcing uncertainty. Atmospheric Chemistry and Physics, 2013, 13, 2423-2434.	4.9	223
87	Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2939-2974.	4.9	395
88	Host model uncertainties in aerosol radiative forcing estimates: results from the AeroCom Prescribed intercomparison study. Atmospheric Chemistry and Physics, 2013, 13, 3245-3270.	4.9	143
89	Seaâ€salt injections into the lowâ€latitude marine boundary layer: The transient response in three Earth system models. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,195.	3.3	35
90	A multimodel assessment of the influence of regional anthropogenic emission reductions on aerosol direct radiative forcing and the role of intercontinental transport. Journal of Geophysical Research D: Atmospheres, 2013, 118, 700-720.	3.3	49

#	Article	IF	Citations
91	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,036.	3.3	202
92	Aerosol retrieval experiments in the ESA Aerosol_cci project. Atmospheric Measurement Techniques, 2013, 6, 1919-1957.	3.1	76
93	Solar irradiance reduction to counteract radiative forcing from a quadrupling of CO₂: climate responses simulated by four earth system models. Earth System Dynamics, 2012, 3, 63-78.	7.1	132
94	Aerosols in the CALIOPE air quality modelling system: evaluation and analysis of PM levels, optical depths and chemical composition over Europe. Atmospheric Chemistry and Physics, 2012, 12, 3363-3392.	4.9	63
95	Application of the CALIOP layer product to evaluate the vertical distribution of aerosols estimated by global models: AeroCom phase I results. Journal of Geophysical Research, 2012, 117, .	3.3	170
96	Atmospheric Transport and Deposition of Mineral Dust to the Ocean: Implications for Research Needs. Environmental Science & Technology, 2012, 46, 10390-10404.	10.0	187
97	Aerosol analysis and forecast in the European Centre for Medium-Range Weather Forecasts Integrated Forecast System: 3. Evaluation by means of case studies. Journal of Geophysical Research, 2011, 116, .	3.3	53
98	Production flux of sea spray aerosol. Reviews of Geophysics, 2011, 49, .	23.0	458
99	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	4.9	278
100	Soot microphysical effects on liquid clouds, a multi-model investigation. Atmospheric Chemistry and Physics, 2011, 11, 1051-1064.	4.9	58
101	Atmospheric dust modeling from meso to global scales with the online NMMB/BSC-Dust model â€“ Part 1: Model description, annual simulations and evaluation. Atmospheric Chemistry and Physics, 2011, 11, 13001-13027.	4.9	198
102	Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816.	4.9	839
103	The Geoengineering Model Intercomparison Project (GeoMIP). Atmospheric Science Letters, 2011, 12, 162-167.	1.9	314
104	Maritime aerosol network as a component of AERONET â€“ first results and comparison with global aerosol models and satellite retrievals. Atmospheric Measurement Techniques, 2011, 4, 583-597.	3.1	152
105	Aerosol Analysis and Forecast in the ECMWF Integrated Forecast System: Evaluation by Means of Case Studies. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 525-528.	0.2	1
106	A multi-model analysis of vertical ozone profiles. Atmospheric Chemistry and Physics, 2010, 10, 5759-5783.	4.9	70
107	African dust deposition to Florida: Temporal and spatial variability and comparisons to models. Journal of Geophysical Research, 2010, 115, .	3.3	100
108	Globalâ€scale black carbon profiles observed in the remote atmosphere and compared to models. Geophysical Research Letters, 2010, 37, .	4.0	172

#	Article	IF	Citations
109	Spatial scales of climate response to inhomogeneous radiative forcing. Journal of Geophysical Research, 2010, 115, .	3.3	79
110	Increase in African dust flux at the onset of commercial agriculture in the Sahel region. Nature, 2010, 466, 226-228.	27.8	247
111	Atmospheric composition change: Climateâ€“Chemistry interactions. Atmospheric Environment, 2009, 43, 5138-5192.	4.1	243
112	Measuring atmospheric composition change. Atmospheric Environment, 2009, 43, 5351-5414.	4.1	160
113	Imprint of North-Atlantic abrupt climate changes on western European loess deposits as viewed in a dust emission model. Quaternary Science Reviews, 2009, 28, 2851-2866.	3.0	61
114	Multimodel estimates of intercontinental sourceâ€“receptor relationships for ozone pollution. Journal of Geophysical Research, 2009, 114, .	3.3	430
115	Aerosol analysis and forecast in the European Centre for Mediumâ€Range Weather Forecasts Integrated Forecast System: Forward modeling. Journal of Geophysical Research, 2009, 114, .	3.3	360
116	Modeling the seasonal distribution of planktonic foraminifera during the Last Glacial Maximum. Paleoceanography, 2009, 24, .	3.0	40
117	LMDzT-INCA dust forecast model developments and associated validation efforts. IOP Conference Series: Earth and Environmental Science, 2009, 7, 012014.	0.3	9
118	Aerosol indirect effects â€“ general circulation model intercomparison and evaluation with satellite data. Atmospheric Chemistry and Physics, 2009, 9, 8697-8717.	4.9	418
119	Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026.	4.9	585
120	What Do We Know about Large-scale Changes of Aerosols, Clouds, and the Radiation Budget?. , 2009, , 401-432.		8
121	Regional modeling of carbonaceous aerosols over Europeâ€”focus on secondary organic aerosols. Journal of Atmospheric Chemistry, 2008, 61, 175-202.	3.2	157
122	What does temporal variability in aeolian dust deposition contribute to seaâ€surface iron and chlorophyll distributions?. Geophysical Research Letters, 2008, 35, .	4.0	55
123	Overview of the Dust and Biomassâ€burning Experiment and African Monsoon Multidisciplinary Analysis Special Observing Periodâ€0. Journal of Geophysical Research, 2008, 113, .	3.3	188
124	Consistent simulation of bromine chemistry from the marine boundary layer to the stratosphere â€“ Part 1: Model description, sea salt aerosols and pH. Atmospheric Chemistry and Physics, 2008, 8, 5899-5917.	4.9	30
125	A multi-model assessment of pollution transport to the Arctic. Atmospheric Chemistry and Physics, 2008, 8, 5353-5372.	4.9	419
126	The effect of harmonized emissions on aerosol properties in global models â€“ an AeroCom experiment. Atmospheric Chemistry and Physics, 2007, 7, 4489-4501.	4.9	228

#	Article	IF	Citations
127	Reevaluation of Mineral aerosol radiative forcings suggests a better agreement with satellite and AERONET data. Atmospheric Chemistry and Physics, 2007, 7, 81-95.	4.9	393
128	Assimilation of POLDER aerosol optical thickness into the LMDz-INCA model: Implications for the Arctic aerosol burden. Journal of Geophysical Research, 2007, 112, .	3.3	64
129	Causes of the reduction in uncertainty in the anthropogenic radiative forcing of climate between IPCC (2001) and IPCC (2007). Geophysical Research Letters, 2007, 34, .	4.0	43
130	Single-particle measurements of midlatitude black carbon and light-scattering aerosols from the boundary layer to the lower stratosphere. Journal of Geophysical Research, 2006, 111, .	3.3	594
131	An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. Atmospheric Chemistry and Physics, 2006, 6, 1815-1834.	4.9	697
132	Emissions of primary aerosol and precursor gases in the years 2000 and 1750 prescribed data-sets for AeroCom. Atmospheric Chemistry and Physics, 2006, 6, 4321-4344.	4.9	912
133	Radiative forcing by aerosols as derived from the AeroCom present-day and pre-industrial simulations. Atmospheric Chemistry and Physics, 2006, 6, 5225-5246.	4.9	633
134	A review of measurement-based assessments of the aerosol direct radiative effect and forcing. Atmospheric Chemistry and Physics, 2006, 6, 613-666.	4.9	745
135	Analysis and quantification of the diversities of aerosol life cycles within AeroCom. Atmospheric Chemistry and Physics, 2006, 6, 1777-1813.	4.9	1,202
136	The aerosol-climate model ECHAM5-HAM. Atmospheric Chemistry and Physics, 2005, 5, 1125-1156.	4.9	990
137	The vertical distribution of aerosol over Europeâ€"synthesis of one year of EARLINET aerosol lidar measurements and aerosol transport modeling with LMDzT-INCA. Atmospheric Environment, 2005, 39, 2933-2943.	4.1	47
138	Aerosol optical depths and direct radiative perturbations by species and source type. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	82
139	Estimates of global multicomponent aerosol optical depth and direct radiative perturbation in the Laboratoire de MÃ©tÃ©orologie Dynamique general circulation model. Journal of Geophysical Research, 2005, 110, .	3.3	144
140	Flux divergence of nitric acid in the marine atmospheric surface layer. Journal of Geophysical Research, 2005, 110, .	3.3	15
141	Global modeling of heterogeneous chemistry on mineral aerosol surfaces: Influence on tropospheric ozone chemistry and comparison to observations. Journal of Geophysical Research, 2004, 109, .	3.3	231
142	Significant dust simulation differences in nudged and climatological operation mode of the AGCM ECHAM. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	51
143	Global Emissions of Mineral Aerosol: Formulation and Validation using Satellite Imagery. Advances in Global Change Research, 2004, , 239-267.	1.6	30
144	Sea-salt aerosol source functions and emissions. Advances in Global Change Research, 2004, , 333-359.	1.6	78

#	Article	IF	Citations
145	Open-ocean aerosol composition obtained during 15 months on a North Sea ferry. Atmospheric Environment, 2003, 37, 133-143.	4.1	17
146	Deposition of nitrogen into the North Sea. Atmospheric Environment, 2003, 37, 145-165.	4.1	33
147	Monthly averages of aerosol properties: A global comparison among models, satellite data, and AERONET ground data. Journal of Geophysical Research, 2003, 108, .	3.3	258
148	Atmospheric nitrogen inputs into the North Sea: effect on productivity. Continental Shelf Research, 2003, 23, 1743-1755.	1.8	48
149	Improving the seasonal cycle and interannual variations of biomass burning aerosol sources. Atmospheric Chemistry and Physics, 2003, 3, 1211-1222.	4.9	85
150	The Global Distribution of Acidifying Wet Deposition. Environmental Science & Technology, 2002, 36, 4382-4388.	10.0	248
151	Influence of the source formulation on modeling the atmospheric global distribution of sea salt aerosol. Journal of Geophysical Research, 2001, 106, 27509-27524.	3.3	167
152	Atmospheric input of nitrogen into the North Sea: ANICE project overview. Continental Shelf Research, 2001, 21, 2073-2094.	1.8	41
153	Aerosol composition and related optical properties in the marine boundary layer over the Baltic Sea. Journal of Aerosol Science, 2001, 32, 933-955.	3.8	18
154	Modeling the atmospheric distribution of mineral aerosol: Comparison with ground measurements and satellite observations for yearly and synoptic timescales over the North Atlantic. Journal of Geophysical Research, 2000, 105, 1997-2012.	3.3	62
155	The North Sea Experiment 1991 (NOSE): A Lagrangian-type experiment. , 2000, , 13-23.		0
156	Transformation of Polluted Air Masses when Transported over Sea with respect to Deposition Processes. , 2000, , 85-88.		0
157	Aerosol and Rain Chemistry in the Marine Environment. , 2000, , 65-79.		0
158	The atmospheric impact on fluxes of nitrogen, POPs and energy in the German Bight. Ocean Dynamics, 1999, 51, 133-154.	0.2	16
159	Dust sources and deposition during the last glacial maximum and current climate: A comparison of model results with paleodata from ice cores and marine sediments. Journal of Geophysical Research, 1999, 104, 15895-15916.	3.3	595
160	Modeling the mineralogy of atmospheric dust sources. Journal of Geophysical Research, 1999, 104, 22243-22256.	3.3	398
161	Non-rain deposition significantly modifies rain samples at a coastal site. Atmospheric Environment, 1998, 32, 3445-3455.	4.1	11
162	Uncertainties in assessing radiative forcing by mineral dust. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 491-505.	1.6	101

#	Article	IF	Citations
163	Role of aerosol size distribution and source location in a three-dimensional simulation of a Saharan dust episode tested against satellite-derived optical thickness. Journal of Geophysical Research, 1998, 103, 10579-10592.	3.3	162
164	Wet deposition in a global size-dependent aerosol transport model: 1. Comparison of a 1 year210Pb simulation with ground measurements. Journal of Geophysical Research, 1998, 103, 11429-11445.	3.3	71
165	Wet deposition in a global size-dependent aerosol transport model: 2. Influence of the scavenging scheme on210Pb vertical profiles, surface concentrations, and deposition. Journal of Geophysical Research, 1998, 103, 28875-28891.	3.3	55
166	Nitrogen fluxes in the German Bight. Marine Pollution Bulletin, 1997, 34, 382-394.	5.0	47
167	Application of total-reflection X-ray fluorescence for the determination of lead, calcium and zinc in size-fractionated marine aerosols. Spectrochimica Acta, Part B: Atomic Spectroscopy, 1997, 52, 995-1001.	2.9	15
168	Importance of the Source Term and of the Size Distribution to Model the Mineral Dust Cycle. Environmental Science and Technology Library, 1996, , 69-76.	0.1	14
169	Intercomparison of elemental concentrations in total and size-fractionated aerosol samples collected during the mace head experiment, April 1991. Atmospheric Environment, 1995, 29, 837-849.	4.1	18
170	High atmospheric nitrogen deposition events over the North Sea. Marine Pollution Bulletin, 1993, 26, 698-703.	5.0	35
171	The use of short term measurements of trace element size-distributions to investigate aerosol dynamics in a marine Lagrangian-type experiment. Journal of Aerosol Science, 1992, 23, 703-706.	3.8	3
172	Variability of aerosol size distributions above the North Sea and its implication to dry deposition estimates. Journal of Aerosol Science, 1989, 20, 1229-1232.	3.8	16