Paul A Ginoux

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133 papers	19,368 citations	52 h-index	139 g-index
172 ext. papers	21,591 ext. citations	6.6 avg, IF	6.16 L-index

#	Paper	IF	Citations
133	ENVIRONMENTAL CHARACTERIZATION OF GLOBAL SOURCES OF ATMOSPHERIC SOIL DUST IDENTIFIED WITH THE NIMBUS 7 TOTAL OZONE MAPPING SPECTROMETER (TOMS) ABSORBING AEROSOL PRODUCT. *Reviews of Geophysics*, **2002**, 40, 2-1	23.1	2000
132	Sources and distributions of dust aerosols simulated with the GOCART model. *Journal of Geophysical Research*, **2001**, 106, 20255-20273		1355
131	GFDL® CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. *Journal of Climate*, **2006**, 19, 643-674	4.4	1313
130	Tropospheric Aerosol Optical Thickness from the GOCART Model and Comparisons with Satellite and Sun Photometer Measurements. *Journals of the Atmospheric Sciences*, **2002**, 59, 461-483	2.1	1004
129	Analysis and quantification of the diversities of aerosol life cycles within AeroCom. *Atmospheric Chemistry and Physics*, **2006**, 6, 1777-1813	6.8	991
128	Global-scale attribution of anthropogenic and natural dust sources and their emission rates based on MODIS Deep Blue aerosol products. *Reviews of Geophysics*, **2012**, 50,	23.1	800
127	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. *Journal of Climate*, **2011**, 24, 3484-3519	4.4	768
126	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	6.8	765
125	Global dust model intercomparison in AeroCom phase I. *Atmospheric Chemistry and Physics*, **2011**, 11, 7781-7816	6.8	662
124	Atmospheric composition change – global and regional air quality. *Atmospheric Environment*, **2009**, 43, 5268-5350	5.3	592
123	An AeroCom initial assessment – optical properties in aerosol component modules of global models. *Atmospheric Chemistry and Physics*, **2006**, 6, 1815-1834	6.8	575
122	Evaluation of black carbon estimations in global aerosol models. *Atmospheric Chemistry and Physics*, **2009**, 9, 9001-9026	6.8	510
121	A Long-Term Record of Aerosol Optical Depth from TOMS Observations and Comparison to AERONET Measurements. *Journals of the Atmospheric Sciences*, **2002**, 59, 398-413	2.1	456
120	Dust transport and deposition observed from the Terra-Moderate Resolution Imaging Spectroradiometer (MODIS) spacecraft over the Atlantic Ocean. *Journal of Geophysical Research*, **2005**, 110,		427
119	Global and regional decreases in tropospheric oxidants from photochemical effects of aerosols. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		390
118	Long-term simulation of global dust distribution with the GOCART model: correlation with North Atlantic Oscillation. *Environmental Modelling and Software*, **2004**, 19, 113-128	5.2	353
117	Global air quality and climate. *Chemical Society Reviews*, **2012**, 41, 6663-83	58.5	334

116	Ocean primary production and climate: Global decadal changes. *Geophysical Research Letters*, **2003**, 30,	4.9	275
115	Assessment of the global impact of aerosols on tropospheric oxidants. *Journal of Geophysical Research*, **2005**, 110,		252
114	Intercontinental transport of pollution and dust aerosols: implications for regional air quality. *Atmospheric Chemistry and Physics*, **2007**, 7, 5501-5517	6.8	237
113	Monthly averages of aerosol properties: A global comparison among models, satellite data, and AERONET ground data. *Journal of Geophysical Research*, **2003**, 108,		218
112	The effect of harmonized emissions on aerosol properties in global models an AeroCom experiment. *Atmospheric Chemistry and Physics*, **2007**, 7, 4489-4501	6.8	205
111	Long-range transport of Saharan dust to northern Europe: The 11 16 October 2001 outbreak observed with EARLINET. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		189
110	Phytoplankton and iron: validation of a global three-dimensional ocean biogeochemical model. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2003**, 50, 3143-3169	2.3	178
109	Distribution, transport, and deposition of mineral dust in the Southern Ocean and Antarctica: Contribution of major sources. *Journal of Geophysical Research*, **2008**, 113,		166
108	Mineral dust aerosols in the NASA Goddard Institute for Space Sciences ModelE atmospheric general circulation model. *Journal of Geophysical Research*, **2006**, 111,		159
107	Interpretation of TOMS observations of tropical tropospheric ozone with a global model and in situ observations. *Journal of Geophysical Research*, **2002**, 107, ACH 4-1		154
106	Case study of a Chinese dust plume reaching the French Alps. *Geophysical Research Letters*, **2003**, 30,	4.9	152
105	Links between topography, wind, deflation, lakes and dust: The case of the Bod Depression, Chad. *Geophysical Research Letters*, **2006**, 33,	4.9	151
104	Constraining the magnitude of the global dust cycle by minimizing the difference between a model and observations. *Journal of Geophysical Research*, **2006**, 111,		146
103	Aerosol distribution in the Northern Hemisphere during ACE-Asia: Results from global model, satellite observations, and Sun photometer measurements. *Journal of Geophysical Research*, **2004**, 109,		142
102	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, n/a-n/a		137
101	Structure and Performance of GFDL CM4.0 Climate Model. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 3691-3727	7.1	128
100	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 735-769	7.1	122
99	Retrieving global aerosol sources from satellites using inverse modeling. *Atmospheric Chemistry and Physics*, **2008**, 8, 209-250	6.8	117

98	Have Australian rainfall and cloudiness increased due to the remote effects of Asian anthropogenic aerosols?. *Journal of Geophysical Research*, **2007**, 112,		111
97	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. *Journal of Advances in Modeling Earth Systems*, **2018**, 10, 691-734	7.1	100
96	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2019MS002015	7.1	97
95	Identification of anthropogenic and natural dust sources using Moderate Resolution Imaging Spectroradiometer (MODIS) Deep Blue level 2 data. *Journal of Geophysical Research*, **2010**, 115,		93
94	Impact of preindustrial to present-day changes in short-lived pollutant emissions on atmospheric composition and climate forcing. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 8086-8110	4.4	91
93	Uncertainty in Model Climate Sensitivity Traced to Representations of Cumulus Precipitation Microphysics. *Journal of Climate*, **2016**, 29, 543-560	4.4	89
92	A Comparison of Model- and Satellite-Derived Aerosol Optical Depth and Reflectivity. *Journals of the Atmospheric Sciences*, **2002**, 59, 441-460	2.1	87
91	Monitoring the impact of desert dust outbreaks for air quality for health studies. *Environment International*, **2019**, 130, 104867	12.9	84
90	Modeling the Interactions between Aerosols and Liquid Water Clouds with a Self-Consistent Cloud Scheme in a General Circulation Model. *Journals of the Atmospheric Sciences*, **2007**, 64, 1189-1209	2.1	80
89	Two-moment bulk stratiform cloud microphysics in the GFDL AM3 GCM: description, evaluation, and sensitivity tests. *Atmospheric Chemistry and Physics*, **2010**, 10, 8037-8064	6.8	78
88	A global aerosol model forecast for the ACE-Asia field experiment. *Journal of Geophysical Research*, **2003**, 108,		68
87	Evaluation of aerosol distribution and optical depth in the Geophysical Fluid Dynamics Laboratory coupled model CM2.1 for present climate. *Journal of Geophysical Research*, **2006**, 111,		61
86	Atmospheric iron delivery and surface ocean biological activity in the Southern Ocean and Patagonian region. *Geophysical Research Letters*, **2003**, 30,	4.9	58
85	Empirical TOMS index for dust aerosol: Applications to model validation and source characterization. *Journal of Geophysical Research*, **2003**, 108,		57
84	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth. *Atmospheric Chemistry and Physics*, **2016**, 16, 1459-1477	6.8	55
83	Effects of nonsphericity on mineral dust modeling. *Journal of Geophysical Research*, **2003**, 108,		55
82	The effect of the dynamic surface bareness on dust source function, emission, and distribution. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 871-886	4.4	54
81	Evaluating inter-continental transport of fine aerosols: (1) Methodology, global aerosol distribution and optical depth. *Atmospheric Environment*, **2009**, 43, 4327-4338	5.3	52

80	Retrieving the composition and concentration of aerosols over the Indo-Gangetic basin using CALIOP and AERONET data. *Geophysical Research Letters*, **2009**, 36,	4.9	52
79	Radiative Forcing of Saharan Dust: GOCART Model Simulations Compared with ERBE Data. *Journals of the Atmospheric Sciences*, **2002**, 59, 736-747	2.1	51
78	Experiment for Regional Sources and Sinks of Oxidants (EXPRESSO): An overview. *Journal of Geophysical Research*, **1999**, 104, 30609-30624		51
77	Response of a coupled chemistry-climate model to changes in aerosol emissions: Global impact on the hydrological cycle and the tropospheric burdens of OH, ozone, and NOx. *Geophysical Research Letters*, **2005**, 32,	4.9	49
76	Biogenic volatile organic compound emissions in central Africa during the Experiment for the Regional Sources and Sinks of Oxidants (EXPRESSO) biomass burning season. *Journal of Geophysical Research*, **1999**, 104, 30659-30671		46
75	Projection of American dustiness in the late 21 century due to climate change. *Scientific Reports*, **2017**, 7, 5553	4.9	44
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73	Transport of Patagonian dust to Antarctica. *Journal of Geophysical Research*, **2010**, 115,		43
72	An empirically derived emission algorithm for wind-blown dust. *Journal of Geophysical Research*, **2010**, 115,		43
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70	Do MODIS-defined dust sources have a geomorphological signature?. *Geophysical Research Letters*, **2016**, 43, 2606-2613	4.9	40
69	Assessing boreal forest fire smoke aerosol impacts on U.S. air quality: A case study using multiple data sets. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		40
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67	CLUBB as a unified cloud parameterization: Opportunities and challenges. *Geophysical Research Letters*, **2015**, 42, 4540-4547	4.9	39
66	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms. *Atmospheric Chemistry and Physics*, **2018**, 18, 13265-13281	6.8	39
65	Exploring the relationship between surface PM_{2.5} and meteorology in Northern India. *Atmospheric Chemistry and Physics*, **2018**, 18, 10157-10175	6.8	34
64	How reliable are CMIP5 models in simulating dust optical depth?. *Atmospheric Chemistry and Physics* , **2018**, 18, 12491-12510	6.8	34
63	Mixing of dust and NH₃ observed globally over anthropogenic dust sources. *Atmospheric Chemistry and Physics*, **2012**, 12, 7351-7363	6.8	33

62	Evaluation of tropical and extratropical Southern Hemisphere African aerosol properties simulated by a climate model. *Journal of Geophysical Research*, **2009**, 114,		32
61	Forecasting dust storms using the CARMA-dust model and MM5 weather data. *Environmental Modelling and Software*, **2004**, 19, 129-140	5.2	31
60	The impact of the Pacific Decadal Oscillation on springtime dust activity in Syria. *Atmospheric Chemistry and Physics*, **2016**, 16, 13431-13448	6.8	30
59	Direct Insertion of MODIS Radiances in a Global Aerosol Transport Model. *Journals of the Atmospheric Sciences*, **2007**, 64, 808-827	2.1	30
58	Sensitivity of scattering and absorbing aerosol direct radiative forcing to physical climate factors. *Journal of Geophysical Research*, **2012**, 117,		29
57	Photochemistry and budget of ozone during the Mauna Loa Observatory Photochemistry Experiment (MLOPEX 2). *Journal of Geophysical Research*, **1999**, 104, 30275-30307		29
56	Satellite-based global volcanic SO2 emissions and sulfate direct radiative forcing during 2005–2012. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 3446-3464	4.4	29
55	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	6.8	29
54	Development of High-Resolution Dynamic Dust Source Function -A Case Study with a Strong Dust Storm in a Regional Model. *Atmospheric Environment*, **2017**, 159, 11-25	5.3	27
53	Inferring the composition and concentration of aerosols by combining AERONET and MPLNET data: Comparison with other measurements and utilization to evaluate GCM output. *Journal of Geophysical Research*, **2009**, 114,		27
52	Climate-vegetation interaction and amplification of Australian dust variability. *Geophysical Research Letters*, **2016**, 43, 11,823	4.9	25
51	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Characteristics. *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2019MS002032	7.1	25
50	Global Emissions of Mineral Aerosol: Formulation and Validation using Satellite Imagery. *Advances in Global Change Research*, **2004**, 239-267	1.2	25
49	The Response of the Tropical Atlantic and West African Climate to Saharan Dust in a Fully Coupled GCM. *Journal of Climate*, **2015**, 28, 7071-7092	4.4	24
48	Inferring ice formation processes from global-scale black carbon profiles observed in the remote atmosphere and model simulations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		24
47	Ocean Biogeochemistry in GFDL's Earth System Model 4.1 and Its Response to Increasing Atmospheric CO2. *Journal of Advances in Modeling Earth Systems*, **2020**, 12, e2019MS002043	7.1	24
46	Gas-aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. *Geophysical Research Letters*, **2017**, 44, 8084-8093	4.9	23
45	Geophysical Fluid Dynamics Laboratory general circulation model investigation of the indirect radiative effects of anthropogenic sulfate aerosol. *Journal of Geophysical Research*, **2005**, 110,		23

44	Air quality impacts from the electrification of light-duty passenger vehicles in the United States. *Atmospheric Environment*, **2019**, 208, 95-102	5.3	22
43	Climatic factors contributing to long-term variations in surface fine dust concentration in the United States. *Atmospheric Chemistry and Physics*, **2018**, 18, 4201-4215	6.8	20
42	Global dust model intercomparison in AeroCom phase I		20
41	The Climatological Effect of Saharan Dust on Global Tropical Cyclones in a Fully Coupled GCM. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 5538-5559	4.4	20
40	Corrigendum to "Evaluation of black carbon estimations in global aerosol models" published in Atmos. Chem. Phys., 9, 9001-9026, 2009. *Atmospheric Chemistry and Physics*, **2010**, 10, 79-81	6.8	16
39	Toward understanding the dust deposition in Antarctica during the Last Glacial Maximum: Sensitivity studies on plausible causes. *Journal of Geophysical Research*, **2010**, 115,		14
38	Disproving the Bodélé Depression as the Primary Source of Dust Fertilizing the Amazon Rainforest. *Geophysical Research Letters*, **2020**, 47, e2020GL088020	4.9	13
37	Analysis and quantification of the diversities of aerosol life cycles within AeroCom		13
36	Comparing multiple model-derived aerosol optical properties to spatially collocated ground-based and satellite measurements. *Atmospheric Chemistry and Physics*, **2017**, 17, 4451-4475	6.8	12
35	Mineral aerosol contamination of TIROS Operational Vertical Sounder (TOVS) temperature and moisture retrievals. *Journal of Geophysical Research*, **2003**, 108,		12
34	Evaluation of climate model aerosol trends with ground-based observations over the last 2´decades – an AeroCom and CMIP6 analysis. *Atmospheric Chemistry and Physics*, **2020**, 20, 13355-13378	6.8	12
33	Quantifying the range of the dust direct radiative effect due to source mineralogy uncertainty. *Atmospheric Chemistry and Physics*, **2021**, 21, 3973-4005	6.8	11
32	Retrieving the global distribution of the threshold of wind erosion from satellite data and implementing it into the Geophysical Fluid Dynamics Laboratory land–atmosphere model (GFDL AM4.0/LM4.0). *Atmospheric Chemistry and Physics*, **2020**, 20, 55-81	6.8	8
31	Assessing the Influence of COVID-19 on the Shortwave Radiative Fluxes Over the East Asian Marginal Seas. *Geophysical Research Letters*, **2021**, 48, e2020GL091699	4.9	8
30	How well do aerosol retrievals from satellites and representation in global circulation models match ground-based AERONET aerosol statistics?. *Advances in Global Change Research*, **2001**, 103-158	1.2	7
29	Revisiting the Impact of Sea Salt on Climate Sensitivity. *Geophysical Research Letters*, **2020**, 47, e2019GL085601	4.9	7
28	The Earth Surface Mineral Dust Source Investigation: An Earth Science Imaging Spectroscopy Mission **2020**,		7
27	Mineral dust cycle in the Multiscale Online Nonhydrostatic AtmospheRe CHemistry model (MONARCH) Version 2.0		7

26	Global dust optical depth climatology derived from CALIOP and MODIS aerosol retrievals on decadal timescales: regional and interannual variability. *Atmospheric Chemistry and Physics*, **2021**, 21, 13369-13395	6.8	7
25	Multi-model evaluation of aerosol optical properties in the AeroCom phase III Control experiment, using ground and space based columnar observations from AERONET, MODIS, AATSR and a merged satellite product as well as surface in-situ observations from GAW sites		6
24	Seasonal Prediction Potential for Springtime Dustiness in the United States. *Geophysical Research Letters*, **2019**, 46, 9163-9173	4.9	5
23	Intercontinental transport of pollution and dust aerosols: implications for regional air quality		5
22	Evaluation of black carbon estimations in global aerosol models		5
21	Linear Relation Between Shifting ITCZ and Dust Hemispheric Asymmetry. *Geophysical Research Letters*, **2020**, 47, e2020GL090499	4.9	5
20	Aerosol absorption in global models from AeroCom phase III. *Atmospheric Chemistry and Physics*, **2021**, 21, 15929-15947	6.8	4
19	Mineral dust cycle in the Multiscale Online Nonhydrostatic AtmospheRe CHemistry model (MONARCH) Version 2.0. *Geoscientific Model Development*, **2021**, 14, 6403-6444	6.3	4
18	The MONARCH high-resolution reanalysis of desert dust aerosol over Northern Africa, the Middle East and Europe (2007–2016)		4
17	The Impacts of the Dust Radiative Effect on Vegetation Growth in the Sahel. *Global Biogeochemical Cycles*, **2019**, 33, 1582-1593	5.9	4
16	Toward Improved Cloud-Phase Simulation with a Mineral Dust and Temperature-Dependent Parameterization for Ice Nucleation in Mixed-Phase Clouds. *Journals of the Atmospheric Sciences*, **2019**, 76, 3655-3667	2.1	3
15	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth		3
14	The effect of harmonized emissions on aerosol properties in global models – an AeroCom experiment		3
13	Retrieving global sources of aerosols from MODIS observations by inverting GOCART model		3
12	Evaluation of climate model aerosol trends with ground-based observations over the last two decades – an AeroCom and CMIP6 analysis		3
11	Grid-independent high-resolution dust emissions (v1.0) for chemical transport models: application to GEOS-Chem (12.5.0). *Geoscientific Model Development*, **2021**, 14, 4249-4260	6.3	3
10	Space Observations of Dust in East Asia **2017**, 365-383		2
9	Assessing the contribution of the ENSO and MJO to Australian dust activity based on satellite- and ground-based observations. *Atmospheric Chemistry and Physics*, **2021**, 21, 8511-8530	6.8	2

8	Global Dust Optical Depth Climatology Derived from CALIOP and MODIS Aerosol Retrievals on Decadal Time Scales: Regional and Interannual Variability		2
7	Oceanic and Atmospheric Drivers of Post-El-Niño Chlorophyll Rebound in the Equatorial Pacific. *Geophysical Research Letters*, **2022**, 49,	4.9	2
6	Retrieving sources of fine aerosols from MODIS and AERONET observations by inverting GOCART model **2004**,		1
5	Inferring iron-oxide species content in atmospheric mineral dust from DSCOVR EPIC observations. *Atmospheric Chemistry and Physics*, **2022**, 22, 1395-1423	6.8	1
4	Exploring the relationship between surface PM_{2.5} and meteorology in Northern India **2018**,		1
3	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms **2018**,		1
2	Understanding Top-of-Atmosphere Flux Bias in the AeroCom Phase III Models: A Clear-Sky Perspective. *Journal of Advances in Modeling Earth Systems*, **2021**, 13, e2021MS002584	7.1	1
1	Bitz, Ginoux, Jacobson, Nizkorodov, and Yang Receive 2013 Atmospheric Sciences Ascent Awards: Response. *Eos*, **2014**, 95, 265-265	1.5	