

Natalie M Mahowald

List of Publications by Year in descending order

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211
papers

35,345
citations

4831

87
h-index

4511

177
g-index

256
all docs

256
docs citations

256
times ranked

29224
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of scavenging and deposition processes in global models: results from the WCRP Cambridge Workshop of 1995. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 52, 1025.	0.8	78
2	Earth, Wind, Fire, and Pollution: Aerosol Nutrient Sources and Impacts on Ocean Biogeochemistry. <i>Annual Review of Marine Science</i> , 2022, 14, 303-330.	5.1	48
3	Future PM _{2.5} emissions from metal production to meet renewable energy demand. <i>Environmental Research Letters</i> , 2022, 17, 044043.	2.2	4
4	Microplastics and nanoplastics in the marine-atmosphere environment. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 393-405.	12.2	121
5	The underappreciated role of anthropogenic sources in atmospheric soluble iron flux to the Southern Ocean. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	13
6	Improved Parameterization for the Size Distribution of Emitted Dust Aerosols Reduces Model Underestimation of Super Coarse Dust. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	13
7	COVID-19 impact on an academic Institution's greenhouse gas inventory: The case of Cornell University. <i>Journal of Cleaner Production</i> , 2022, 363, 132440.	4.6	10
8	The relationship between PM _{2.5} and anticyclonic wave activity during summer over the United States. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7575-7592.	1.9	1
9	Global Dust Cycle and Direct Radiative Effect in E3SM Version 1: Impact of Increasing Model Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	12
10	Anthropogenic Perturbations to the Atmospheric Molybdenum Cycle. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006787.	1.9	12
11	Quantifying the range of the dust direct radiative effect due to source mineralogy uncertainty. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3973-4005.	1.9	47
12	Importance of Uncertainties in the Spatial Distribution of Preindustrial Wildfires for Estimating Aerosol Radiative Forcing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089758.	1.5	1
13	Constraining the atmospheric limb of the plastic cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	232
14	Improved representation of the global dust cycle using observational constraints on dust properties and abundance. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8127-8167.	1.9	65
15	Contribution of the world's main dust source regions to the global cycle of desert dust. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8169-8193.	1.9	126
16	Short-term impacts of 2017 western North American wildfires on meteorology, the atmosphere's energy budget, and premature mortality. <i>Environmental Research Letters</i> , 2021, 16, 064065.	2.2	5
17	The EMIT mission information yield for mineral dust radiative forcing. <i>Remote Sensing of Environment</i> , 2021, 258, 112380.	4.6	19
18	Changing atmospheric acidity as a modulator of nutrient deposition and ocean biogeochemistry. <i>Science Advances</i> , 2021, 7, .	4.7	39

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19	AWESOME OCIM: A simple, flexible, and powerful tool for modeling elemental cycling in the oceans. <i>Chemical Geology</i> , 2020, 533, 119403.	1.4	15
20	A Comparison of the CMIP6 midHolocene and lig127k Simulations in CESM2. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003957.	1.3	14
21	Ejection of Dust From the Ocean as a Potential Source of Marine Ice Nucleating Particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033073.	1.2	17
22	Recent (1980 to 2015) Trends and Variability in Daily Interannual Soluble Iron Deposition from Dust, Fire, and Anthropogenic Sources. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089688.	1.5	31
23	A Mineralogy-Based Anthropogenic Combustion Iron Emission Inventory. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032114.	1.2	32
24	Natural atmospheric deposition of molybdenum: a global model and implications for tropical forests. <i>Biogeochemistry</i> , 2020, 149, 159-174.	1.7	13
25	Tropical Rains Controlling Deposition of Saharan Dust Across the North Atlantic Ocean. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086867.	1.5	21
26	Impact of Changes to the Atmospheric Soluble Iron Deposition Flux on Ocean Biogeochemical Cycles in the Anthropocene. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006448.	1.9	62
27	What goes up must come down: impacts of deposition in a sulfate geoengineering scenario. <i>Environmental Research Letters</i> , 2020, 15, 094063.	2.2	15
28	African biomass burning is a substantial source of phosphorus deposition to the Amazon, Tropical Atlantic Ocean, and Southern Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16216-16221.	3.3	100
29	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8591-8617.	1.9	60
30	Radiative Forcing of Climate: The Historical Evolution of the Radiative Forcing Concept, the Forcing Agents and their Quantification, and Applications. <i>Meteorological Monographs</i> , 2019, 59, 14.1-14.101.	5.0	52
31	Improved methodologies for Earth system modelling of atmospheric soluble iron and observation comparisons using the Mechanism of Intermediate complexity for Modelling Iron (MIMI v1.0). <i>Geoscientific Model Development</i> , 2019, 12, 3835-3862.	1.3	39
32	Paleodust Insights into Dust Impacts on Climate. <i>Journal of Climate</i> , 2019, 32, 7897-7913.	1.2	29
33	Climate-driven oscillation of phosphorus and iron limitation in the North Pacific Subtropical Gyre. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12720-12728.	3.3	44
34	Tracing and constraining anthropogenic aerosol iron fluxes to the North Atlantic Ocean using iron isotopes. <i>Nature Communications</i> , 2019, 10, 2628.	5.8	71
35	Major Impact of Dust Deposition on the Productivity of the Arabian Sea. <i>Geophysical Research Letters</i> , 2019, 46, 6736-6744.	1.5	53
36	Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671.	4.7	128

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37	Glacially sourced dust as a potentially significant source of ice nucleating particles. <i>Nature Geoscience</i> , 2019, 12, 253-258.	5.4	101
38	Climate change impacts the spread potential of wheat stem rust, a significant crop disease. <i>Environmental Research Letters</i> , 2019, 14, 124053.	2.2	47
39	Sustained climate warming drives declining marine biological productivity. <i>Science</i> , 2018, 359, 1139-1143.	6.0	276
40	Impacts of Aerosol Dry Deposition on Black Carbon Spatial Distributions and Radiative Effects in the Community Atmosphere Model CAM5. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1150-1171.	1.3	28
41	Anthropogenic combustion iron as a complex climate forcer. <i>Nature Communications</i> , 2018, 9, 1593.	5.8	86
42	Global and regional importance of the direct dust-climate feedback. <i>Nature Communications</i> , 2018, 9, 241.	5.8	162
43	Aerosol-Climate Interactions During the Last Glacial Maximum. <i>Current Climate Change Reports</i> , 2018, 4, 99-114.	2.8	24
44	Atmospheric processing of iron in mineral and combustion aerosols: development of an intermediate-complexity mechanism suitable for Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14175-14196.	1.9	41
45	Reviews and syntheses: the GESAMP atmospheric iron deposition model intercomparison study. <i>Biogeosciences</i> , 2018, 15, 6659-6684.	1.3	63
46	Aerosol trace metal leaching and impacts on marine microorganisms. <i>Nature Communications</i> , 2018, 9, 2614.	5.8	176
47	The PMIP4 contribution to CMIP6 – Part 1: Overview and over-arching analysis plan. <i>Geoscientific Model Development</i> , 2018, 11, 1033-1057.	1.3	164
48	Black carbon radiative effects highly sensitive to emitted particle size when resolving mixing-state diversity. <i>Nature Communications</i> , 2018, 9, 3446.	5.8	106
49	Aerosol Deposition Impacts on Land and Ocean Carbon Cycles. <i>Current Climate Change Reports</i> , 2017, 3, 16-31.	2.8	103
50	Comments on “Influence of measurement uncertainties on fractional solubility of iron in mineral aerosols over the oceans” <i>Journal of Geophysical Research</i> , 2017, 122, 123-125.	1.1	7
51	Parameterization-based uncertainty in future lightning flash density. <i>Geophysical Research Letters</i> , 2017, 44, 2893-2901.	1.5	43
52	Interactions between land use change and carbon cycle feedbacks. <i>Global Biogeochemical Cycles</i> , 2017, 31, 96-113.	1.9	46
53	Are the impacts of land use on warming underestimated in climate policy?. <i>Environmental Research Letters</i> , 2017, 12, 094016.	2.2	23
54	Development of a global aerosol model using a two-dimensional sectional method: 2. Evaluation and sensitivity simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1887-1920.	1.3	43

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55	Sensitivity of the interannual variability of mineral aerosol simulations to meteorological forcing dataset. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3253-3278.	1.9	14
56	The PMIP4 contribution to CMIP6 – Part 4: Scientific objectives and experimental design of the PMIP4-CMIP6 Last Glacial Maximum experiments and PMIP4 sensitivity experiments. <i>Geoscientific Model Development</i> , 2017, 10, 4035-4055.	1.3	137
57	The PMIP4 contribution to CMIP6 – Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. <i>Geoscientific Model Development</i> , 2017, 10, 3979-4003.	1.3	171
58	Projections of leaf area index in earth system models. <i>Earth System Dynamics</i> , 2016, 7, 211-229.	2.7	96
59	Estimate of changes in agricultural terrestrial nitrogen pathways and ammonia emissions from 1850 to present in the Community Earth System Model. <i>Biogeosciences</i> , 2016, 13, 3397-3426.	1.3	79
60	Potentially bioavailable iron delivery by iceberg-hosted sediments and atmospheric dust to the polar oceans. <i>Biogeosciences</i> , 2016, 13, 3887-3900.	1.3	65
61	Effects of African dust deposition on phytoplankton in the western tropical Atlantic Ocean off Barbados. <i>Global Biogeochemical Cycles</i> , 2016, 30, 716-734.	1.9	85
62	Tracing dust input to the global ocean using thorium isotopes in marine sediments: ThoroMap. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1526-1541.	1.9	55
63	Shape and size constraints on dust optical properties from the Dome C ice core, Antarctica. <i>Scientific Reports</i> , 2016, 6, 28162.	1.6	54
64	Attribution of changes in global wetland methane emissions from pre-industrial to present using CLM4.5-BGC. <i>Environmental Research Letters</i> , 2016, 11, 034020.	2.2	21
65	West African monsoon decadal variability and surface-related forcings: second West African Monsoon Modeling and Evaluation Project Experiment (WAMME II). <i>Climate Dynamics</i> , 2016, 47, 3517-3545.	1.7	39
66	Paleodust variability since the Last Glacial Maximum and implications for iron inputs to the ocean. <i>Geophysical Research Letters</i> , 2016, 43, 3944-3954.	1.5	72
67	Temperature Extremes in the Community Atmosphere Model with Stochastic Parameterizations*. <i>Journal of Climate</i> , 2016, 29, 241-258.	1.2	6
68	Multicentury changes in ocean and land contributions to the climate-carbon feedback. <i>Global Biogeochemical Cycles</i> , 2015, 29, 744-759.	1.9	63
69	The sensitivity of global climate to the episodicity of fire aerosol emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,589.	1.2	18
70	Is atmospheric phosphorus pollution altering global alpine Lake stoichiometry?. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1369-1383.	1.9	122
71	Modeling dust as component minerals in the Community Atmosphere Model: development of framework and impact on radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 537-561.	1.9	130
72	CH<sub>4</sub> parameter estimation in CLM4.5bgc using surrogate global optimization. <i>Geoscientific Model Development</i> , 2015, 8, 3285-3310.	1.3	26

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73	Seasonal and interannual variability in wetland methane emissions simulated by CLM4Me' and CAM-chem and comparisons to observations of concentrations. <i>Biogeosciences</i> , 2015, 12, 4029-4049.	1.3	20
74	Local sources of global climate forcing from different categories of land use activities. <i>Earth System Dynamics</i> , 2015, 6, 175-194.	2.7	14
75	Twelve thousand years of dust: the Holocene global dust cycle constrained by natural archives. <i>Climate of the Past</i> , 2015, 11, 869-903.	1.3	104
76	Modeling the global emission, transport and deposition of trace elements associated with mineral dust. <i>Biogeosciences</i> , 2015, 12, 5771-5792.	1.3	49
77	A model-based evaluation of tropical climate in Pangaea during the late Palaeozoic icehouse. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 425, 109-127.	1.0	38
78	The sensitivity of carbon turnover in the Community Land Model to modified assumptions about soil processes. <i>Earth System Dynamics</i> , 2014, 5, 211-221.	2.7	36
79	Simulated changes in atmospheric dust in response to a Heinrich stadial. <i>Paleoceanography</i> , 2014, 29, 30-43.	3.0	17
80	Improved dust representation in the Community Atmosphere Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 541-570.	1.3	253
81	Contributions of developed and developing countries to global climate forcing and surface temperature change. <i>Environmental Research Letters</i> , 2014, 9, 074008.	2.2	42
82	A global assessment of precipitation chemistry and deposition of sulfur, nitrogen, sea salt, base cations, organic acids, acidity and pH, and phosphorus. <i>Atmospheric Environment</i> , 2014, 93, 3-100.	1.9	650
83	The size distribution of desert dust aerosols and its impact on the Earth system. <i>Aeolian Research</i> , 2014, 15, 53-71.	1.1	468
84	Preindustrial-Control and Twentieth-Century Carbon Cycle Experiments with the Earth System Model CESM1(BGC). <i>Journal of Climate</i> , 2014, 27, 8981-9005.	1.2	156
85	Addendum to: "A global assessment of precipitation chemistry and deposition of sulfur, nitrogen, sea salt, base cations, organic acids, acidity and pH, and phosphorus". <i>Atmospheric Environment</i> , 2014, 93, 101-116.	1.9	9
86	The significance of the episodic nature of atmospheric deposition to Low Nutrient Low Chlorophyll regions. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1179-1198.	1.9	106
87	An improved dust emission model " Part 2: Evaluation in the Community Earth System Model, with implications for the use of dust source functions. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13043-13061.	1.9	86
88	Potential climate forcing of land use and land cover change. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12701-12724.	1.9	66
89	An improved dust emission model " Part 1: Model description and comparison against measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13023-13041.	1.9	150
90	Ocean-Atmosphere Interactions of Particles. <i>Springer Earth System Sciences</i> , 2014, , 171-246.	0.1	29

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91	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 2013, 94, 1339-1360.	1.7	1,848
92	The role of mineral-dust aerosols in polar temperature amplification. Nature Climate Change, 2013, 3, 487-491.	8.1	70
93	The seeds of ice in clouds. Nature, 2013, 498, 302-303.	13.7	15
94	Equatorial upwelling enhances nitrogen fixation in the Atlantic Ocean. Geophysical Research Letters, 2013, 40, 1766-1771.	1.5	55
95	The fate of phosphorus fertilizer in Amazon soya bean fields. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120154.	1.8	54
96	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. Journal of Climate, 2013, 26, 4447-4475.	1.2	48
97	Processes and patterns of oceanic nutrient limitation. Nature Geoscience, 2013, 6, 701-710.	5.4	1,627
98	Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2939-2974.	1.9	395
99	North-South asymmetry in the modeled phytoplankton community response to climate change over the 21st century. Global Biogeochemical Cycles, 2013, 27, 1274-1290.	1.9	39
100	Volcano impacts on climate and biogeochemistry in a coupled carbon-climate model. Earth System Dynamics, 2012, 3, 121-136.	2.7	8
101	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. Geoscientific Model Development, 2012, 5, 709-739.	1.3	807
102	Response to Comment on "Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum". Science, 2012, 337, 1294-1294.	6.0	5
103	The changing radiative forcing of fires: global model estimates for past, present and future. Atmospheric Chemistry and Physics, 2012, 12, 10857-10886.	1.9	212
104	Atmospheric fluxes of organic N and P to the global ocean. Global Biogeochemical Cycles, 2012, 26, .	1.9	179
105	Direct measurements of atmospheric iron, cobalt, and aluminum-derived dust deposition at Kerguelen Islands. Global Biogeochemical Cycles, 2012, 26, .	1.9	34
106	A paleogeographic approach to aerosol prescription in simulations of deep time climate. Journal of Advances in Modeling Earth Systems, 2012, 4, .	1.3	23
107	Dust transport from non-East Asian sources to the North Pacific. Geophysical Research Letters, 2012, 39, .	1.5	27
108	Atmospheric Transport and Deposition of Mineral Dust to the Ocean: Implications for Research Needs. Environmental Science & Technology, 2012, 46, 10390-10404.	4.6	187

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109	The impacts of climate, land use, and demography on fires during the 21st century simulated by CLM-CN. <i>Biogeosciences</i> , 2012, 9, 509-525.	1.3	131
110	Sensitivity of wetland methane emissions to model assumptions: application and model testing against site observations. <i>Biogeosciences</i> , 2012, 9, 2793-2819.	1.3	68
111	Comparing modeled and observed changes in mineral dust transport and deposition to Antarctica between the Last Glacial Maximum and current climates. <i>Climate Dynamics</i> , 2012, 38, 1731-1755.	1.7	86
112	Global review and synthesis of trends in observed terrestrial near-surface wind speeds: Implications for evaporation. <i>Journal of Hydrology</i> , 2012, 416-417, 182-205.	2.3	906
113	Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum. <i>Science</i> , 2011, 334, 1385-1388.	6.0	212
114	Impacts of atmospheric nutrient deposition on marine productivity: Roles of nitrogen, phosphorus, and iron. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	177
115	Impacts of anthropogenic SO _x , NO _x and NH ₃ on acidification of coastal waters and shipping lanes. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	43
116	Aerosol Impacts on Climate and Biogeochemistry. <i>Annual Review of Environment and Resources</i> , 2011, 36, 45-74.	5.6	207
117	Model insight into glacial-interglacial paleodust records. <i>Quaternary Science Reviews</i> , 2011, 30, 832-854.	1.4	56
118	Desert dust and anthropogenic aerosol interactions in the Community Climate System Model coupled-carbon-climate model. <i>Biogeosciences</i> , 2011, 8, 387-414.	1.3	47
119	Global dust model intercomparison in AeroCom phase I. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7781-7816.	1.9	839
120	Simulated variations of eolian dust from inner Asian deserts at the mid-Pliocene, last glacial maximum, and present day: contributions from the regional tectonic uplift and global climate change. <i>Climate Dynamics</i> , 2011, 37, 2289-2301.	1.7	45
121	Barriers to predicting changes in global terrestrial methane fluxes: analyses using CLM4Me, a methane biogeochemistry model integrated in CESM. <i>Biogeosciences</i> , 2011, 8, 1925-1953.	1.3	325
122	Aerosol Indirect Effect on Biogeochemical Cycles and Climate. <i>Science</i> , 2011, 334, 794-796.	6.0	367
123	Historical (1850-2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7017-7039.	1.9	2,020
124	Observed 20th century desert dust variability: impact on climate and biogeochemistry. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10875-10893.	1.9	355
125	Intercomparison and analyses of the climatology of the West African Monsoon in the West African Monsoon Modeling and Evaluation project (WAMME) first model intercomparison experiment. <i>Climate Dynamics</i> , 2010, 35, 3-27.	1.7	123
126	Fire dynamics during the 20th century simulated by the Community Land Model. <i>Biogeosciences</i> , 2010, 7, 1877-1902.	1.3	194

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127	Impacts of atmospheric nutrient inputs on marine biogeochemistry. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	138
128	Toward New Frontiers in Understanding the Link Between Dust and Climate; DUSTSPEC Workshop: Dust Records for a Changing World; Palisades, New York, 24-26 May 2010. <i>Eos</i> , 2010, 91, 360.	0.1	0
129	Carbon-nitrogen interactions regulate climate-carbon cycle feedbacks: results from an atmosphere-ocean general circulation model. <i>Biogeosciences</i> , 2009, 6, 2099-2120.	1.3	399
130	Satellite-detected fluorescence reveals global physiology of ocean phytoplankton. <i>Biogeosciences</i> , 2009, 6, 779-794.	1.3	280
131	Maintenance of Lower Tropospheric Temperature Inversion in the Saharan Air Layer by Dust and Dry Anomaly. <i>Journal of Climate</i> , 2009, 22, 5149-5162.	1.2	54
132	Skill metrics for confronting global upper ocean ecosystem-biogeochemistry models against field and remote sensing data. <i>Journal of Marine Systems</i> , 2009, 76, 95-112.	0.9	204
133	Systematic assessment of terrestrial biogeochemistry in coupled climate-carbon models. <i>Global Change Biology</i> , 2009, 15, 2462-2484.	4.2	324
134	Atmospheric Iron Deposition: Global Distribution, Variability, and Human Perturbations. <i>Annual Review of Marine Science</i> , 2009, 1, 245-278.	5.1	536
135	Mechanisms governing interannual variability in upper-ocean inorganic carbon system and air-sea CO ₂ fluxes: Physical climate and atmospheric dust. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 640-655.	0.6	169
136	A numerical study of the climate response to lowered Mediterranean Sea level during the Messinian Salinity Crisis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 279, 41-59.	1.0	40
137	Impacts of increasing anthropogenic soluble iron and nitrogen deposition on ocean biogeochemistry. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	123
138	Impact of changes in atmospheric conditions in modulating summer dust concentration at Barbados: A back-trajectory analysis. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16
139	Anthropogenic and natural contributions to regional trends in aerosol optical depth, 1980-2006. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	200
140	Toxicity of atmospheric aerosols on marine phytoplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4601-4605.	3.3	353
141	Springtime warming and reduced snow cover from carbonaceous particles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2481-2497.	1.9	492
142	Particulate absorption of solar radiation: anthropogenic aerosols vs. dust. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3935-3945.	1.9	38
143	Interannual variability in hindcasts of atmospheric chemistry: the role of meteorology. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5261-5280.	1.9	23
144	Increasing eolian dust deposition in the western United States linked to human activity. <i>Nature Geoscience</i> , 2008, 1, 189-195.	5.4	439

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145	Combustion iron distribution and deposition. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	263
146	Revisiting atmospheric dust export to the Southern Hemisphere ocean: Biogeochemical implications. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	161
147	Ocean temperature forcing by aerosols across the Atlantic tropical cyclone development region. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	51
148	Long-term variability in Saharan dust transport and its link to North Atlantic sea surface temperature. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	30
149	Modeling mineral dust emissions from the Sahara desert using new surface properties and soil database. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	197
150	Contribution of ocean, fossil fuel, land biosphere, and biomass burning carbon fluxes to seasonal and interannual variability in atmospheric CO ₂ . <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	70
151	Research Opportunities and Challenges in the Indian Ocean. <i>Eos</i> , 2008, 89, 125-126.	0.1	12
152	Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	617
153	Covariant Glacial-Interglacial Dust Fluxes in the Equatorial Pacific and Antarctica. <i>Science</i> , 2008, 320, 93-96.	6.0	214
154	Impact of variable air-sea O ₂ and CO ₂ fluxes on atmospheric potential oxygen (APO) and land-ocean carbon sink partitioning. <i>Biogeosciences</i> , 2008, 5, 875-889.	1.3	19
155	Impact of Desert Dust Radiative Forcing on Sahel Precipitation: Relative Importance of Dust Compared to Sea Surface Temperature Variations, Vegetation Changes, and Greenhouse Gas Warming. <i>Journal of Climate</i> , 2007, 20, 1445-1467.	1.2	290
156	Impact of anthropogenic atmospheric nitrogen and sulfur deposition on ocean acidification and the inorganic carbon system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14580-14585.	3.3	332
157	Global trends in visibility: implications for dust sources. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3309-3339.	1.9	222
158	Dissolved iron in the vicinity of the Crozet Islands, Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1999-2019.	0.6	155
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