

Susannah Burrows

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

6,423
citations

186265

28
h-index

182427

51
g-index

79
all docs

79
docs citations

79
times ranked

7005
citing authors

#	ARTICLE	IF	CITATIONS
1	Primary biological aerosol particles in the atmosphere: a review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 15598.	1.6	988
2	A numerical framework for simulating the atmospheric variability of supermicron marine biogenic ice nucleating particles. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 847-859.	4.9	9
3	OCEANFILMS (Organic Compounds from Ecosystems to Aerosols: Natural Films and Interfaces via) Tj ETQq1 1 0.784314 rgBT /Overlo climate model and impacts on clouds. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5223-5251.	4.9	14
4	Iceâ€Nucleating Particles That Impact Clouds and Climate: Observational and Modeling Research Needs. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	29
5	Diurnal Rainfall Response to the Physiological and Radiative Effects of CO₂ in Tropical Forests in the Energy Exascale Earth System Model v1. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	1
6	Effective radiative forcing of anthropogenic aerosols in E3SM version 1: historical changes, causality, decomposition, and parameterization sensitivities. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 9129-9160.	4.9	16
7	A Graph Theoretical Intercomparison of Atmospheric Chemical Mechanisms. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090481.	4.0	9
8	Effects of marine organic aerosols as sources of immersion-mode ice-nucleating particles on high-latitude mixed-phase clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2305-2327.	4.9	34
9	Simulated Dust Transport in the Convective Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033429.	3.3	3
10	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5015-5061.	4.9	54
11	Empirical formulation for multiple groups of primary biological ice nucleating particles from field observations over Amazonia. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	5
12	Development of Heterogeneous Ice Nucleation Rate Coefficient Parameterizations From Ambient Measurements. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095359.	4.0	8
13	Separating the Wheat from the Chaff: Comparative Visual Cues for Transparent Diagnostics of Competing Models. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2020, 26, 1043-1053.	4.4	11
14	Aerosols in the E3SM Version 1: New Developments and Their Impacts on Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001851.	3.8	68
15	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystemâ€™Climate Responses to Historical Changes in Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001766.	3.8	65
16	Investigating controls on sea ice algal production using E3SMv1.1-BGC. <i>Annals of Glaciology</i> , 2020, 61, 51-72.	1.4	16
17	An Atmospheric Aerosol Short Course for Early Career Scientists. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1562-E1567.	3.3	0
18	Numerical Representations of Marine Iceâ€Nucleating Particles in Remote Marine Environments Evaluated Against Observations. <i>Geophysical Research Letters</i> , 2019, 46, 7838-7847.	4.0	36

#	ARTICLE	IF	CITATIONS
19	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2377-2411.	3.8	168
20	E3SMv0â€”HiLAT: A Modified Climate System Model Targeted for the Study of Highâ€”Latitude Processes. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2814-2843.	3.8	9
21	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2089-2129.	3.8	404
22	Impact of numerical choices on water conservation in the E3SM Atmosphere Model version 1 (EAMv1). <i>Geoscientific Model Development</i> , 2018, 11, 1971-1988.	3.6	33
23	The Impact of Divalent Cations on the Enrichment of Soluble Saccharides in Primary Sea Spray Aerosol. <i>Atmosphere</i> , 2018, 9, 476.	2.3	19
24	Fungal spores as a source of sodium salt particles in the Amazon basin. <i>Nature Communications</i> , 2018, 9, 4793.	12.8	31
25	Science questions and knowledge gaps to study microbial transport and survival in Asian and African dust plumes reaching North America. <i>Aerobiologia</i> , 2018, 34, 425-435.	1.7	28
26	Characterizing the Relative Importance Assigned to Physical Variables by Climate Scientists when Assessing Atmospheric Climate Model Fidelity. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 1101-1113.	4.3	6
27	Does Marine Surface Tension Have Global Biogeography? Addition for the OCEANFILMS Package. <i>Atmosphere</i> , 2018, 9, 216.	2.3	10
28	Impacts of Shifts in Phytoplankton Community on Clouds and Climate via the Sulfur Cycle. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1005-1026.	4.9	27
29	The role of jet and film drops in controlling the mixing state of submicron sea spray aerosol particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6978-6983.	7.1	147
30	Empirical Analysis of the Subjective Impressions and Objective Measures of Domain Scientists' Visual Analytic Judgments. , 2017, , .		14
31	Contribution of feldspar and marine organic aerosols to global ice nucleating particle concentrations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3637-3658.	4.9	144
32	The Ocean's Vital Skin: Toward an Integrated Understanding of the Sea Surface Microlayer. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	137
33	Planning the Next Decade of Coordinated Research to Better Understand and Simulate Marine Low Clouds. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1699-1702.	3.3	13
34	Potential sea salt aerosol sources from frost flowers in the panâ€”Arctic region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,840.	3.3	17
35	Bioaerosols in the Earth system: Climate, health, and ecosystem interactions. <i>Atmospheric Research</i> , 2016, 182, 346-376.	4.1	609
36	OCEANFILMSâ€”2: Representing coadsorption of saccharides in marine films and potential impacts on modeled marine aerosol chemistry. <i>Geophysical Research Letters</i> , 2016, 43, 8306-8313.	4.0	38

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37	Abundance of fluorescent biological aerosol particles at temperatures conducive to the formation of mixed-phase and cirrus clouds. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8205-8225.	4.9	50
38	Comprehensive mapping and characteristic regimes of aerosol effects on the formation and evolution of pyro-convective clouds. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10325-10348.	4.9	19
39	Natural aerosols explain seasonal and spatial patterns of Southern Ocean cloud albedo. <i>Science Advances</i> , 2015, 1, e1500157.	10.3	144
40	Global distribution and surface activity of macromolecules in offline simulations of marine organic chemistry. <i>Biogeochemistry</i> , 2015, 126, 25-56.	3.5	15
41	A marine biogenic source of atmospheric ice-nucleating particles. <i>Nature</i> , 2015, 525, 234-238.	27.8	475
42	Prospects for simulating macromolecular surfactant chemistry at the ocean-atmosphere boundary. <i>Environmental Research Letters</i> , 2014, 9, 064012.	5.2	30
43	Sources and composition of submicron organic mass in marine aerosol particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,977.	3.3	106
44	A physically based framework for modeling the organic fractionation of sea spray aerosol from bubble film Langmuir equilibria. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13601-13629.	4.9	124
45	Ice nucleation by fungal spores from the classes <i>Agaricomycetes</i> , <i>Ustilaginomycetes</i> , and <i>Eurotiomycetes</i> , and the effect on the atmospheric transport of these spores. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8611-8630.	4.9	57
46	Estimating bacteria emissions from inversion of atmospheric transport: sensitivity to modelled particle characteristics. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5473-5488.	4.9	19
47	Ice nuclei in marine air: biogenic particles or dust?. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 245-267.	4.9	226
48	Contribution of cryptogamic covers to the global cycles of carbon and nitrogen. <i>Nature Geoscience</i> , 2012, 5, 459-462.	12.9	711
49	Biogeography in the air: fungal diversity over land and oceans. <i>Biogeosciences</i> , 2012, 9, 1125-1136.	3.3	152
50	How important is biological ice nucleation in clouds on a global scale?. <i>Environmental Research Letters</i> , 2010, 5, 024009.	5.2	245
51	Bacteria in the global atmosphere – Part 2: Modeling of emissions and transport between different ecosystems. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9281-9297.	4.9	284
52	Bacteria in the global atmosphere – Part 1: Review and synthesis of literature data for different ecosystems. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9263-9280.	4.9	471
53	High-latitude remote sensing of mesospheric wind speeds and carbon monoxide. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13