

# Donifan O Barahona

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,221  
citations

516710

16  
h-index

414414

32  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1610  
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential Link Between Ice Nucleation and Climate Model Spread in Arctic Amplification. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
2	Earth system model parameter adjustment using a Green's functions approach. <i>Geoscientific Model Development</i> , 2022, 15, 2309-2324.	3.6	2
3	The Impacts of Immersion Ice Nucleation Parameterizations on Arctic Mixed-Phase Stratiform Cloud Properties and the Arctic Radiation Budget in GEOS-5. <i>Journal of Climate</i> , 2022, 35, 4049-4070.	3.2	1
4	Effect of volcanic emissions on clouds during the 2008 and 2018 Kilauea degassing events. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7749-7771.	4.9	8
5	The response of the Amazon ecosystem to the photosynthetically active radiation fields: integrating impacts of biomass burning aerosol and clouds in the NASA GEOS Earth system model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14177-14197.	4.9	5
6	A Dusty Atmospheric River Brings Floods to the Middle East. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095441.	4.0	9
7	GEOS-5.2S Version 2: The GMAO High-Resolution Coupled Model and Assimilation System for Seasonal Prediction. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031767.	3.3	52
8	Bias-Free Estimation of Ice Nucleation Efficiencies. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086033.	4.0	3
9	Linkage among ice crystal microphysics, mesoscale dynamics, and cloud and precipitation structures revealed by collocated microwave radiometer and multifrequency radar observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12633-12653.	4.9	13
10	Implementation of a comprehensive ice crystal formation parameterization for cirrus and mixed-phase clouds in the EMAC model (based on MESSy 2.53). <i>Geoscientific Model Development</i> , 2018, 11, 4021-4041.	3.6	12
11	On the thermodynamic and kinetic aspects of immersion ice nucleation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17119-17141.	4.9	10
12	Dust Impacts on the 2012 Hurricane Nadine Track during the NASA HS3 Field Campaign. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 2473-2489.	1.7	15
13	Direct estimation of the global distribution of vertical velocity within cirrus clouds. <i>Scientific Reports</i> , 2017, 7, 6840.	3.3	33
14	Understanding cirrus ice crystal number variability for different heterogeneous ice nucleation spectra. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2611-2629.	4.9	12
15	Thermodynamic derivation of the activation energy for ice nucleation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13819-13831.	4.9	16
16	Quantifying sensitivities of ice crystal number and sources of ice crystal number variability in CAM 5.1 using the adjoint of a physically based cirrus formation parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2834-2854.	3.3	6
17	Development of two-moment cloud microphysics for liquid and ice within the NASA Goddard Earth Observing System Model (GEOS-5). <i>Geoscientific Model Development</i> , 2014, 7, 1733-1766.	3.6	78
18	Analysis of the effect of water activity on ice formation using a new thermodynamic framework. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7665-7680.	4.9	20

#	ARTICLE	IF	CITATIONS
19	Assessing aerosol indirect effect through ice clouds in CAM5. , 2013, , .		2
20	Performance of McRAS-AC in the GEOS-5 AGCM: aerosol-cloud-microphysics, precipitation, cloud radiative effects, and circulation. Geoscientific Model Development, 2013, 6, 57-79.	3.6	13
21	Cirrus cloud seeding has potential to cool climate. Geophysical Research Letters, 2013, 40, 178-182.	4.0	64
22	Saharan dust event impacts on cloud formation and radiation over Western Europe. Atmospheric Chemistry and Physics, 2012, 12, 4045-4063.	4.9	146
23	Sensitivity studies of dust ice nuclei effect on cirrus clouds with the Community Atmosphere Model CAM5. Atmospheric Chemistry and Physics, 2012, 12, 12061-12079.	4.9	83
24	On the ice nucleation spectrum. Atmospheric Chemistry and Physics, 2012, 12, 3733-3752.	4.9	37
25	Sensitivity of cirrus and mixed-phase clouds to the ice nuclei spectra in McRAS-AC: single column model simulations. Atmospheric Chemistry and Physics, 2012, 12, 10679-10692.	4.9	11
26	Global distribution of cloud droplet number concentration, autoconversion rate, and aerosol indirect effect under diabatic droplet activation. Journal of Geophysical Research, 2011, 116, .	3.3	19
27	Dynamical states of low temperature cirrus. Atmospheric Chemistry and Physics, 2011, 11, 3757-3771.	4.9	35
28	Comprehensively accounting for the effect of giant CCN in cloud activation parameterizations. Atmospheric Chemistry and Physics, 2010, 10, 2467-2473.	4.9	106
29	Parameterizing the competition between homogeneous and heterogeneous freezing in cirrus cloud formation " monodisperse ice nuclei. Atmospheric Chemistry and Physics, 2009, 9, 369-381.	4.9	76
30	Parameterizing the competition between homogeneous and heterogeneous freezing in ice cloud formation " polydisperse ice nuclei. Atmospheric Chemistry and Physics, 2009, 9, 5933-5948.	4.9	106
31	Parameterization of cirrus cloud formation in large-scale models: Homogeneous nucleation. Journal of Geophysical Research, 2008, 113, .	3.3	81
32	Parameterization of cloud droplet formation in large-scale models: Including effects of entrainment. Journal of Geophysical Research, 2007, 112, .	3.3	58
33	Effect of water activity on the lipase catalyzed esterification of geraniol in ionic liquid [bmim]PF6. Biotechnology and Bioengineering, 2006, 93, 318-324.	3.3	72