

# Najda Villefranque

## List of Publications by Year in Descending Order

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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.

12  
papers

74  
citations

6  
h-index

8  
g-index

16  
ext. papers

119  
ext. citations

5.3  
avg, IF

2.48  
L-index

#	Paper	IF	Citations
12	Use of large-eddy simulations to design an adaptive sampling strategy to assess cumulus cloud heterogeneities by remotely piloted aircraft. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 335-352	4	0
11	Process-Based Climate Model Development Harnessing Machine Learning: III. The Representation of Cumulus Geometry and Their 3D Radiative Effects. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002423	7.1	1
10	Process-Based Climate Model Development Harnessing Machine Learning: II. Model Calibration From Single Column to Global. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002225	7.1	6
9	Evidence for the 3D Radiative Effects of Boundary-Layer Clouds From Observations of Direct and Diffuse Surface Solar Fluxes. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093369	4.9	0
8	A Physically Based Definition of Convectively Generated Density Currents: Detection and Characterization in Convection-Permitting Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002402	7.1	2
7	Three viewpoints on null-collision Monte Carlo algorithms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2021</b> , 260, 107402	2.1	3
6	Process-Based Climate Model Development Harnessing Machine Learning: I. A Calibration Tool for Parameterization Improvement. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002217	7.1	10
5	Convergence issues in derivatives of Monte Carlo null-collision integral formulations: A solution. <i>Journal of Computational Physics</i> , <b>2020</b> , 413, 109463	4.1	7
4	Entrapment: An Important Mechanism to Explain the Shortwave 3D Radiative Effect of Clouds. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 2019, 48-66	2.1	10
3	Object-Oriented Identification of Coherent Structures in Large Eddy Simulations: Importance of Downdrafts in Stratocumulus. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 2854-2864	4.9	15
2	A Path-Tracing Monte Carlo Library for 3-D Radiative Transfer in Highly Resolved Cloudy Atmospheres. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2449-2473	7.1	12
1	Accounting for Vertical Subgrid-Scale Heterogeneity in Low-Level Cloud Fraction Parameterizations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 2686-2705	7.1	6