

Bastiaan van Dienenhoven

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,982
citations

236833

25
h-index

265120

42
g-index

80
all docs

80
docs citations

80
times ranked

1857
citing authors

#	ARTICLE	IF	CITATIONS
1	The Profiles of the 3-12 Micron Polycyclic Aromatic Hydrocarbon Features. <i>Astrophysical Journal</i> , 2004, 611, 928-939.	1.6	224
2	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. <i>Reviews of Geophysics</i> , 2018, 56, 409-453.	9.0	185
3	Confronting the Challenge of Modeling Cloud and Precipitation Microphysics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001689.	1.3	154
4	Analysis of fine-mode aerosol retrieval capabilities by different passive remote sensing instrument designs. <i>Optics Express</i> , 2012, 20, 21457.	1.7	96
5	Accuracy assessments of cloud droplet size retrievals from polarized reflectance measurements by the research scanning polarimeter. <i>Remote Sensing of Environment</i> , 2012, 125, 92-111.	4.6	90
6	A FIRE-ACE/SHEBA Case Study of Mixed-Phase Arctic Boundary Layer Clouds: Entrainment Rate Limitations on Rapid Primary Ice Nucleation Processes. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 365-389.	0.6	77
7	Intercomparison of biomass burning aerosol optical properties from in situ and remote-sensing instruments in ORACLES-2016. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9181-9208.	1.9	69
8	Toward ice formation closure in Arctic mixed-phase boundary layer clouds during ISDAC. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	65
9	Remote sensing of ice crystal asymmetry parameter using multi-directional polarization measurements - Part 1: Methodology and evaluation with simulated measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2361-2374.	1.2	65
10	Aerosol retrieval from multiangle, multispectral photopolarimetric measurements: importance of spectral range and angular resolution. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2625-2638.	1.2	62
11	Remote sensing of ice crystal asymmetry parameter using multi-directional polarization measurements - Part 2: Application to the Research Scanning Polarimeter. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3185-3203.	1.9	53
12	Surface pressure retrieval from SCIAMACHY measurements in the O ₂ -A Band: validation of the measurements and sensitivity on aerosols. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2109-2120.	1.9	51
13	Passive remote sensing of aerosol layer height using near-UV multiangle polarization measurements. <i>Geophysical Research Letters</i> , 2016, 43, 8783-8790.	1.5	50
14	Constraining the Twomey effect from satellite observations: issues and perspectives. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15079-15099.	1.9	49
15	A Flexible Parameterization for Shortwave Optical Properties of Ice Crystals*. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1763-1782.	0.6	42
16	Polarimetric retrievals of surface and cirrus clouds properties in the region affected by the Deepwater Horizon oil spill. <i>Remote Sensing of Environment</i> , 2012, 121, 389-403.	4.6	41
17	Variation of ice crystal size, shape, and asymmetry parameter in tops of tropical deep convective clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,809-11,825.	1.2	40
18	Evaluation of Hydrometeor Phase and Ice Properties in Cloud-Resolving Model Simulations of Tropical Deep Convection Using Radiance and Polarization Measurements. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 3290-3314.	0.6	39

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19	Retrieval of cloud parameters from satellite-based reflectance measurements in the ultraviolet and the oxygen A-band. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	34
20	Assessment of the accuracy of the conventional ray-tracing technique: Implications in remote sensing and radiative transfer involving ice clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 158-174.	1.1	29
21	Vertical variation of ice particle size in convective cloud tops. <i>Geophysical Research Letters</i> , 2016, 43, 4586-4593.	1.5	28
22	Combined neural network/Phillips's Tikhonov approach to aerosol retrievals over land from the NASA Research Scanning Polarimeter. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4235-4252.	1.2	28
23	Intercomparison of airborne multi-angle polarimeter observations from the Polarimeter Definition Experiment. <i>Applied Optics</i> , 2019, 58, 650.	0.9	28
24	Liquid water cloud properties during the Polarimeter Definition Experiment (PODEX). <i>Remote Sensing of Environment</i> , 2015, 169, 20-36.	4.6	27
25	Cloud thermodynamic phase detection with polarimetrically sensitive passive sky radiometers. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1537-1554.	1.2	26
26	Polarized view of supercooled liquid water clouds. <i>Remote Sensing of Environment</i> , 2016, 181, 96-110.	4.6	23
27	Remote sensing of multiple cloud layer heights using multi-angular measurements. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2361-2375.	1.2	21
28	Photopolarimetric retrievals of snow properties. <i>Cryosphere</i> , 2015, 9, 1933-1942.	1.5	20
29	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast Part 1: Analysis of Aerosols, Gases, and Wet Deposition Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032592.	1.2	18
30	Polarimetric retrievals of cloud droplet number concentrations. <i>Remote Sensing of Environment</i> , 2019, 228, 227-240.	4.6	17
31	The prevalence of the 22° halo in cirrus clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 146, 475-479.	1.1	16
32	Global Statistics of Ice Microphysical and Optical Properties at Tops of Optically Thick Ice Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031811.	1.2	16
33	An evaluation of ice formation in large-eddy simulations of supercooled Arctic stratocumulus using ground-based lidar and cloud radar. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
34	Derivation of physical and optical properties of mid-latitude cirrus ice crystals for a size-resolved cloud microphysics model. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7251-7283.	1.9	14
35	Remote Sensing of Crystal Shapes in Ice Clouds. <i>Springer Series in Light Scattering</i> , 2018, , 197-250.	1.8	13
36	The effect of roughness model on scattering properties of ice crystals. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 178, 134-141.	1.1	11

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37	Retrieval of liquid water cloud properties from POLDER-3 measurements using a neural network ensemble approach. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1697-1716.	1.2	11
38	Efficient vector radiative transfer calculations in vertically inhomogeneous cloudy atmospheres. <i>Applied Optics</i> , 2006, 45, 5993.	2.1	10
39	On Averaging Aspect Ratios and Distortion Parameters over Ice Crystal Population Ensembles for Estimating Effective Scattering Asymmetry Parameters. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 775-787.	0.6	10
40	Vertical profiles of droplet size distributions derived from cloud-side observations by the research scanning polarimeter: Tests on simulated data. <i>Atmospheric Research</i> , 2020, 239, 104924.	1.8	10
41	The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. <i>Earth System Science Data</i> , 2020, 12, 2183-2208.	3.7	10
42	Retrieval of cloud properties from near-ultraviolet, visible, and near-infrared satellite-based Earth reflectivity spectra: A comparative study. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	9
43	An evaluation of the liquid cloud droplet effective radius derived from MODIS, airborne remote sensing, and in situ measurements from CAMP<sup>2</sup</sup>Ex. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8259-8285.	1.9	7
44	Simultaneous Retrieval of Trace Gases, Aerosols, and Cirrus Using RemoTAP"The Global Orbit Ensemble Study for the CO2M Mission. <i>Frontiers in Remote Sensing</i> , 0, 3, .	1.3	7
45	Influence of Humidified Aerosol on Lidar Depolarization Measurements below Ice-Precipitating Arctic Stratus. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 2184-2192.	0.6	6
46	Observations of Aerosol‐Cloud Interactions During the North Atlantic Aerosol and Marine Ecosystem Study. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085851.	1.5	6
47	A Flexible Parameterization for Shortwave and Longwave Optical Properties of Ice Crystals and Derived Bulk Optical Properties for Climate Models. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 1245-1260.	0.6	6
48	In-flight validation of SPEX airborne spectro-polarimeter onboard NASA's research aircraft ER-2. , 2019, , .		6
49	Inference of Precipitation in Warm Stratiform Clouds Using Remotely Sensed Observations of the Cloud Top Droplet Size Distribution. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092547.	1.5	5
50	Simultaneous Aerosol and Ocean Properties From the PolCube CubeSat Polarimeter. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	5
51	Low-level liquid cloud properties during ORACLES retrieved using airborne polarimetric measurements and a neural network algorithm. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3447-3470.	1.2	5
52	Above-aircraft cirrus cloud and aerosol optical depth from hyperspectral irradiances measured by a total-diffuse radiometer. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1373-1394.	1.2	5
53	Polarimeter + Lidar"Derived Aerosol Particle Number Concentration. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	1.3	5
54	Joint cloud water path and rainwater path retrievals from airborne ORACLES observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5513-5532.	1.9	4

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55	Variation of Ice Microphysical Properties With Temperature and Humidity at Tops of Convective Clouds. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093673.	1.5	4
56	Application of Radon Transform to Multi-Angle Measurements Made by the Research Scanning Polarimeter: A New Approach to Cloud Tomography. Part I: Theory and Tests on Simulated Data. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	1.3	3
57	A Classification of Ice Crystal Habits Using Combined Lidar and Scanning Polarimeter Observations during the SEAC4RS Campaign. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 2185-2196.	0.5	2
58	Effects of clouds on ozone profile retrievals from satellite measurements in the ultraviolet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	1
59	Analysis of Scattering Angle Sampling by Multi-Angle Imaging Polarimeters for Different Orbit Geometries. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	1.3	1