

Vincent Noel

List of Publications by Year in descending order

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47
papers

1,524
citations

331538

21
h-index

330025

37
g-index

68
all docs

68
docs citations

68
times ranked

1566
citing authors

#	ARTICLE	IF	CITATIONS
1	SIRTA, a ground-based atmospheric observatory for cloud and aerosol research. <i>Annales Geophysicae</i> , 2005, 23, 253-275.	0.6	240
2	Study of Planar Ice Crystal Orientations in Ice Clouds from Scanning Polarization Lidar Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 653-664.	1.7	99
3	Simple relation between lidar multiple scattering and depolarization for water clouds. <i>Optics Letters</i> , 2006, 31, 1809.	1.7	84
4	Classification of particle effective shape ratios in cirrus clouds based on the lidar depolarization ratio. <i>Applied Optics</i> , 2002, 41, 4245.	2.1	79
5	Using in situ airborne measurements to evaluate three cloud phase products derived from CALIPSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5788-5808.	1.2	71
6	A global view of horizontally oriented crystals in ice clouds from Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	70
7	Study of Ice Crystal Orientation in Cirrus Clouds Based on Satellite Polarized Radiance Measurements. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2073-2081.	0.6	63
8	Where and when will we observe cloud changes due to climate warming?. <i>Geophysical Research Letters</i> , 2014, 41, 8387-8395.	1.5	56
9	The diurnal cycle of cloud profiles over land and ocean between 51°S and 51°N, seen by the CATS spaceborne lidar from the International Space Station. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9457-9473.	1.9	56
10	Properties of cirrus and subvisible cirrus from nighttime Cloud-Aerosol Lidar with Orthogonal Polarization (CALIOP), related to atmospheric dynamics and water vapor. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	51
11	Polar stratospheric clouds over Antarctica from the CALIPSO spaceborne lidar. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
12	Macrophysical and optical properties of midlatitude cirrus clouds from four ground-based lidars and collocated CALIOP observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
13	Classification of particle shapes from lidar depolarization ratio in convective ice clouds compared to in situ observations during CRYSTAL-FACE. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	41
14	Direct atmosphere opacity observations from CALIPSO provide new constraints on cloud-radiation interactions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1066-1085.	1.2	38
15	Diurnal variations of cloud and relative humidity profiles across the tropics. <i>Scientific Reports</i> , 2019, 9, 16045.	1.6	32
16	Comparison of CALIPSO-Like, LaRC, and MODIS Retrievals of Ice-Cloud Properties over SIRTA in France and Florida during CRYSTAL-FACE. <i>Journal of Applied Meteorology and Climatology</i> , 2007, 46, 249-272.	0.6	30
17	Computation of a single-scattering matrix for nonspherical particles randomly or horizontally oriented in space. <i>Applied Optics</i> , 2001, 40, 4365.	2.1	29
18	Improving Retrievals of Cirrus Cloud Particle Size Coupling Lidar and Three-Channel Radiometric Techniques. <i>Monthly Weather Review</i> , 2004, 132, 1684-1700.	0.5	26

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19	Classification of Ice Crystal Shapes in Midlatitude Ice Clouds from Three Years of Lidar Observations over the SIRTA Observatory. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2978-2991.	0.6	26
20	A decadal cirrus clouds climatology from ground-based and spaceborne lidars above the south of France (43.9° Nâ€“5.7° E). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6951-6963.	1.9	26
21	Observational Constraints on Cloud Feedbacks: The Role of Active Satellite Sensors. <i>Surveys in Geophysics</i> , 2017, 38, 1483-1508.	2.1	24
22	Gravity wave events from mesoscale simulations, compared to polar stratospheric clouds observed from spaceborne lidar over the Antarctic Peninsula. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
23	On the origin of subvisible cirrus clouds in the tropical upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 12081-12101.	1.9	19
24	Greenland Clouds Observed in <i>CALIPSO</i>-GOCCP: Comparison with Ground-Based Summit Observations. <i>Journal of Climate</i> , 2017, 30, 6065-6083.	1.2	18
25	Analysis of lidar measurements of ice clouds at multiple incidence angles. <i>Geophysical Research Letters</i> , 2002, 29, 52-1-52-4.	1.5	17
26	CALIPSO observations of waveâ€“induced PSCs with nearâ€“unity optical depth over Antarctica in 2006â€“2007. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	17
27	An EarthCARE/ATLID simulator to evaluate cloud description in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,090.	1.2	17
28	Midlatitude cirrus clouds and multiple tropopauses from a 2002â€“2006 climatology over the SIRTA observatory. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	16
29	Thermodynamic phase profiles of optically thin midlatitude clouds and their relation to temperature. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
30	The link between outgoing longwave radiation and the altitude at which a spaceborne lidar beam is fully attenuated. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4659-4685.	1.2	16
31	Extinction coefficients retrieved in deep tropical ice clouds from lidar observations using a CALIPSO-like algorithm compared to in-situ measurements from the cloud integrating nephelometer during CRYSTAL-FACE. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1415-1422.	1.9	15
32	Space lidar observations constrain longwave cloud feedback. <i>Scientific Reports</i> , 2018, 8, 16570.	1.6	15
33	The Potential of a Multidecade Spaceborne Lidar Record to Constrain Cloud Feedback. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5433-5454.	1.2	15
34	Effects of solar activity on noise in CALIOP profiles above the South Atlantic Anomaly. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1597-1603.	1.2	14
35	How Well Are Clouds Simulated over Greenland in Climate Models? Consequences for the Surface Cloud Radiative Effect over the Ice Sheet. <i>Journal of Climate</i> , 2018, 31, 9293-9312.	1.2	12
36	Particle habit in tropical ice clouds during CRYSTAL-FACE: Comparison of two remote sensing techniques with in situ observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	10

#	ARTICLE	IF	CITATIONS
37	A tropical "NAT-like" belt observed from space. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	10
38	Using Space Lidar Observations to Decompose Longwave Cloud Radiative Effect Variations Over the Last Decade. <i>Geophysical Research Letters</i> , 2017, 44, 11,994.	1.5	10
39	Cloud Occurrence Frequency at Puy de Dôme (France) Deduced from an Automatic Camera Image Analysis: Method, Validation, and Comparisons with Larger Scale Parameters. <i>Atmosphere</i> , 2019, 10, 808.	1.0	8
40	The diurnal cycle of the clouds extending above the tropical tropopause observed by spaceborne lidar. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3921-3929.	1.9	8
41	Link Between Opaque Cloud Properties and Atmospheric Dynamics in Observations and Simulations of Current Climate in the Tropics, and Impact on Future Predictions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033899.	1.2	4
42	Comparison of scattering ratio profiles retrieved from ALADIN/Aeolus and CALIOP/CALIPSO observations and preliminary estimates of cloud fraction profiles. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1055-1074.	1.2	4
43	Dual Lidar Observations at 10.6 μ m and 532 nm for Retrieving Semitransparent Cirrus Cloud Properties. <i>Journal of Applied Meteorology and Climatology</i> , 2006, 45, 537-555.	0.6	3
44	Reply to comment by Poole et al. on "A tropical "NAT-like"™ belt observed from space". <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	3
45	SIRTA, a multi-sensor platform for clouds and aerosols characterization in the atmosphere: infrastructure, objective and prospective. , 2007, 6750, 343.		1
46	Remote sensing ice supersaturation inside and near cirrus clouds: a case study in the subtropics. <i>Atmospheric Science Letters</i> , 2016, 17, 639-645.	0.8	1
47	Observational Constraints on Cloud Feedbacks: The Role of Active Satellite Sensors. <i>Space Sciences Series of ISSI</i> , 2017, , 311-336.	0.0	1