

Kirk Knobelspiesse

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,181
citations

218677

26
h-index

243625

44
g-index

61
all docs

61
docs citations

61
times ranked

1990
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarimetric remote sensing of atmospheric aerosols: Instruments, methodologies, results, and perspectives. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 474-511.	2.3	224
2	Polarimetric remote sensing of aerosols over land. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	155
3	Unique data repository facilitates ocean color satellite validation. <i>Eos</i> , 2003, 84, 377.	0.1	124
4	Study of the Sea-Viewing Wide Field-of-View Sensor (SeaWiFS) aerosol optical property data over ocean in combination with the ocean color products. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	108
5	A multiparameter aerosol classification method and its application to retrievals from spaceborne polarimetry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9838-9863.	3.3	105
6	Maritime aerosol optical thickness measured by handheld sun photometers. <i>Remote Sensing of Environment</i> , 2004, 93, 87-106.	11.0	104
7	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	98
8	An overview of the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) project: aerosolâ€“cloudâ€“radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1507-1563.	4.9	97
9	Analysis of fine-mode aerosol retrieval capabilities by different passive remote sensing instrument designs. <i>Optics Express</i> , 2012, 20, 21457.	3.4	96
10	Sensitivity of multiangle, multispectral polarimetric remote sensing over open oceans to water-leaving radiance: Analyses of RSP data acquired during the MILAGRO campaign. <i>Remote Sensing of Environment</i> , 2012, 118, 284-308.	11.0	83
11	Atmospheric correction for hyperspectral ocean color retrieval with application to the Hyperspectral Imager for the Coastal Ocean (HICO). <i>Remote Sensing of Environment</i> , 2018, 204, 60-75.	11.0	83
12	Going Beyond Standard Ocean Color Observations: Lidar and Polarimetry. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	80
13	Simultaneous retrieval of aerosol and cloud properties during the MILAGRO field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6245-6263.	4.9	65
14	Information content and sensitivity of the 3<i>i>lt;math>3 \times 3</math> lidar measurement system for aerosol microphysical retrievals. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5555-5574.		54
15	Evaluation of aerosol properties over ocean from Moderate Resolution Imaging Spectroradiometer (MODIS) during ACE-Asia. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	48
16	Surface BRDF estimation from an aircraft compared to MODIS and ground estimates at the Southern Great Plains site. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
17	Retrieval of aerosol properties and water-leaving reflectance from multi-angular polarimetric measurements over coastal waters. <i>Optics Express</i> , 2018, 26, 8968.	3.4	44
18	Combined retrievals of boreal forest fire aerosol properties with a polarimeter and lidar. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7045-7067.	4.9	43

#	ARTICLE	IF	CITATIONS
19	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.	11.0	41
20	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	37
21	How should we aggregate data? Methods accounting for the numerical distributions, with an assessment of aerosol optical depth. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 15023-15048.	4.9	32
22	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	31
23	Water-leaving contribution to polarized radiation field over ocean. <i>Optics Express</i> , 2017, 25, A689.	3.4	30
24	Sun-Pointing-Error Correction for Sea Deployment of the MICROTOPS II Handheld Sun Photometer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 767-771.	1.3	28
25	Aerosol retrievals from different polarimeters during the ACEPOL campaign using a common retrieval algorithm. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 553-573.	3.1	28
26	Intercomparison of airborne multi-angle polarimeter observations from the Polarimeter Definition Experiment. <i>Applied Optics</i> , 2019, 58, 650.	1.8	28
27	Liquid water cloud properties during the Polarimeter Definition Experiment (PODEX). <i>Remote Sensing of Environment</i> , 2015, 169, 20-36.	11.0	27
28	Efficient multi-angle polarimetric inversion of aerosols and ocean color powered by a deep neural network forward model. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4083-4110.	3.1	27
29	Cloud thermodynamic phase detection with polarimetrically sensitive passive sky radiometers. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1537-1554.	3.1	26
30	Information content of aerosol retrievals in the sunglint region. <i>Geophysical Research Letters</i> , 2013, 40, 631-634.	4.0	23
31	Comparisons of bispectral and polarimetric retrievals of marine boundary layer cloud microphysics: case studies using a LES satellite retrieval simulator. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3689-3715.	3.1	23
32	Inversion of multiangular polarimetric measurements over open and coastal ocean waters: a joint retrieval algorithm for aerosol and water-leaving radiance properties. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3921-3941.	3.1	18
33	Harnessing remote sensing to address critical science questions on ocean-atmosphere interactions. <i>Elementa</i> , 2018, 6, .	3.2	18
34	Inversion of multiangular polarimetric measurements from the ACEPOL campaign: an application of improving aerosol property and hyperspectral ocean color retrievals. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3939-3956.	3.1	17
35	Adaptive Data Screening for Multi-Angle Polarimetric Aerosol and Ocean Color Remote Sensing Accelerated by Deep Learning. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	13
36	Development of neural network retrievals of liquid cloud properties from multi-angle polarimetric observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 220, 39-51.	2.3	10

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37	Atmospheric correction over the ocean for hyperspectral radiometers using multi-angle polarimetric retrievals. <i>Optics Express</i> , 2021, 29, 4504.	3.4	10
38	The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. <i>Earth System Science Data</i> , 2020, 12, 2183-2208.	9.9	10
39	Uncertainty and interpretation of aerosol remote sensing due to vertical inhomogeneity. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 114, 91-100.	2.3	9
40	Remote sensing of aerosols with small satellites in formation flight. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3935-3954.	3.1	9
41	Analysis of simultaneous aerosol and ocean glint retrieval using multi-angle observations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3233-3252.	3.1	6
42	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.	3.1	5
43	Optimal estimation framework for ocean color atmospheric correction and pixel-level uncertainty quantification. <i>Applied Optics</i> , 2022, 61, 6453.	1.8	5
44	Analysis of shipboard aerosol optical thickness measurements from multiple sunphotometers aboard the R/V Ronald H Brown during the Aerosol Characterization Experimentâ€™ Asia. <i>Applied Optics</i> , 2005, 44, 3805.	2.1	2
45	Accurate monitoring of terrestrial aerosols and total solar irradiance: The NASA Glory mission. , 2010, , .		1