

Claudia Emde

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11651295/publications.pdf>

Version: 2024-02-01

28
papers

1,118
citations

759233

12
h-index

501196

28
g-index

34
all docs

34
docs citations

34
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of 3D cloud structures on the atmospheric trace gas products from UV-Vis sounders Part 1: Synthetic dataset for validation of trace gas retrieval algorithms. Atmospheric Measurement Techniques, 2022, 15, 1587-1608.	3.1	5
2	Impact of 3D cloud structures on the atmospheric trace gas products from UV-Vis sounders Part 3: Bias estimate using synthetic and observational data. Atmospheric Measurement Techniques, 2022, 15, 3481-3495.	3.1	4
3	Systematic comparison of vectorial spherical radiative transfer models in limb scattering geometry. Atmospheric Measurement Techniques, 2021, 14, 3953-3972.	3.1	10
4	Impact of 3D radiative transfer on airborne NO ₂ imaging remote sensing over cities with buildings. Atmospheric Measurement Techniques, 2021, 14, 6469-6482.	3.1	6
5	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. Frontiers in Remote Sensing, 2021, 2, .	3.5	3
6	Revised and extended benchmark results for Rayleigh scattering of sunlight in spherical atmospheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107181.	2.3	12
7	The polarized Sun and sky radiometer SSARA: design, calibration, and application for ground-based aerosol remote sensing. Atmospheric Measurement Techniques, 2020, 13, 239-258.	3.1	4
8	Accurate 3-D radiative transfer simulation of spectral solar irradiance during the total solar eclipse of 21 August 2017. Atmospheric Chemistry and Physics, 2020, 20, 1961-1976.	4.9	5
9	The cloudbow of planet Earth observed in polarisation. Astronomy and Astrophysics, 2020, 639, A89.	5.1	5
10	Three-dimensional radiative transfer effects on airborne and ground-based trace gas remote sensing. Atmospheric Measurement Techniques, 2020, 13, 4277-4293.	3.1	10
11	Retrieval of aerosol properties from ground-based polarimetric sky-radiance measurements under cloudy conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 228, 57-72.	2.3	2
12	Impacts of Water Vapor on Saharan Air Layer Radiative Heating. Geophysical Research Letters, 2019, 46, 14854-14862.	4.0	15
13	IPRT polarized radiative transfer model intercomparison project Three-dimensional test cases (phase I) 10.784314 rgBT / 2.3 29	2.3	29
14	Errors induced by the neglect of polarization in radiance calculations for three-dimensional cloudy atmospheres. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 151-160.	2.3	12
15	Influence of aerosols, clouds, and sunglint on polarization spectra of Earthshine. Astronomy and Astrophysics, 2017, 605, A2.	5.1	17
16	The libRadtran software package for radiative transfer calculations (version 2.0.1). Geoscientific Model Development, 2016, 9, 1647-1672.	3.6	447
17	Ground-based imaging remote sensing of ice clouds: uncertainties caused by sensor, method and atmosphere. Atmospheric Measurement Techniques, 2016, 9, 4615-4632.	3.1	10
18	Derivation of cumulus cloud dimensions and shape from the airborne measurements by the Research Scanning Polarimeter. Remote Sensing of Environment, 2016, 177, 144-152.	11.0	12

#	ARTICLE	IF	CITATIONS
19	IPRT polarized radiative transfer model intercomparison project “ Phase A. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 8-36.	2.3	80
20	3D radiative transfer effects in multi-angle/multispectral radio-polarimetric signals from a mixture of clouds and aerosols viewed by a non-imaging sensor. Proceedings of SPIE, 2013, , .	0.8	12
21	Effects of Three-Dimensional Photon Transport on the Radiative Forcing of Realistic Contrails. Journals of the Atmospheric Sciences, 2012, 69, 2243-2255.	1.7	16
22	Accuracy assessments of cloud droplet size retrievals from polarized reflectance measurements by the research scanning polarimeter. Remote Sensing of Environment, 2012, 125, 92-111.	11.0	90
23	Radiative Transfer: Methods and Applications. Research Topics in Aerospace, 2012, , 401-415.	0.7	2
24	ALIS: An efficient method to compute high spectral resolution polarized solar radiances using the Monte Carlo approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1622-1631.	2.3	46
25	New secondary-scattering correction in DISORT with increased efficiency for forward scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2028-2034.	2.3	96
26	Benchmark results in vector atmospheric radiative transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1931-1946.	2.3	120
27	Observing cosmic microwave background polarization through ice. Monthly Notices of the Royal Astronomical Society, 2007, 376, 645-650.	4.4	7
28	Comparison of single and multiple scattering approaches for the simulation of limb-emission observations in the mid-IR. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 91, 275-285.	2.3	33