Claudia Emde

List of Publications by Year
in descending order

28	1,118	759233 12	501196 28
papers	citations	h-index	g-index

34	34	34	1424
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	The libRadtran software package for radiative transfer calculations (version 2.0.1). Geoscientific Model Development, 2016, 9, 1647-1672.	3.6	447
2	Benchmark results in vector atmospheric radiative transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1931-1946.	2.3	120
3	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
4	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
5	IPRT polarized radiative transfer model intercomparison project â€" Phase A. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 8-36.	2.3	80
6	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
7	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
8	IPRT polarized radiative transfer model intercomparison project â€" Three-dimensional test cases (phase) Tj ETQq0 0 0 rgBT /Overlock 10	2.3	29
9	Influence of aerosols, clouds, and sunglint on polarization spectra of Earthshine. Astronomy and Astrophysics, 2017, 605, A2.	5.1	17
10	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
11	Impacts of Water Vapor on Saharan Air Layer Radiative Heating. Geophysical Research Letters, 2019, 46, 14854-14862.	4.0	15
12	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
13	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
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	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
16	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
17	Systematic comparison of vectorial spherical radiative transfer models in limb scattering geometry. Atmospheric Measurement Techniques, 2021, 14, 3953-3972.	3.1	10
18	Three-dimensional radiative transfer effects on airborne and ground-based trace gas remote sensing. Atmospheric Measurement Techniques, 2020, 13, 4277-4293.	3.1	10

#	Article	IF	Citations
19	Observing cosmic microwave background polarization through ice. Monthly Notices of the Royal Astronomical Society, 2007, 376, 645-650.	4.4	7
20	Impact of 3D radiative transfer on airborne NO&lt;sub&gt;2&lt;/sub&gt; imaging remote sensing over cities with buildings. Atmospheric Measurement Techniques, 2021, 14, 6469-6482.	3.1	6
21	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
22	The cloudbow of planet Earth observed in polarisation. Astronomy and Astrophysics, 2020, 639, A89.	5.1	5
23	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
24	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
25	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
26	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
27	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
28	Radiative Transfer: Methods and Applications. Research Topics in Aerospace, 2012, , 401-415.	0.7	2