

Jana Mendrok

List of Publications by Year in descending order

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29
papers

908
citations

516710

16
h-index

501196

28
g-index

41
all docs

41
docs citations

41
times ranked

1014
citing authors

#	ARTICLE	IF	CITATIONS
1	At the Dawn of a New Era in Terahertz Technology. Proceedings of the IEEE, 2007, 95, 1611-1623.	21.3	185
2	ARTS, the Atmospheric Radiative Transfer Simulator " version 2.2, the planetary toolbox edition. Geoscientific Model Development, 2018, 11, 1537-1556.	3.6	102
3	A general database of hydrometeor single scattering properties at microwave and sub-millimetre wavelengths. Earth System Science Data, 2018, 10, 1301-1326.	9.9	74
4	A multi-instrument comparison of integrated water vapour measurements at a high latitude site. Atmospheric Chemistry and Physics, 2012, 12, 10925-10943.	4.9	55
5	GARLIC " A general purpose atmospheric radiative transfer line-by-line infrared-microwave code: Implementation and evaluation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 137, 29-50.	2.3	55
6	Observing ice clouds in the submillimeter spectral range: the CloudIce mission proposal for ESA's Earth Explorer 8. Atmospheric Measurement Techniques, 2012, 5, 1529-1549.	3.1	51
7	The Level 2 research product algorithms for the Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES). Atmospheric Measurement Techniques, 2011, 4, 2105-2124.	3.1	49
8	On the microwave optical properties of randomly oriented ice hydrometeors. Atmospheric Measurement Techniques, 2015, 8, 1913-1933.	3.1	36
9	SPARE"ICE: Synergistic ice water path from passive operational sensors. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1504-1523.	3.3	32
10	A treatment of the Zeeman effect using Stokes formalism and its implementation in the Atmospheric Radiative Transfer Simulator (ARTS). Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 445-453.	2.3	30
11	Validation of stratospheric and mesospheric ozone observed by SMILES from International Space Station. Atmospheric Measurement Techniques, 2013, 6, 2311-2338.	3.1	28
12	Airborne validation of radiative transfer modelling of ice clouds at millimetre and sub-millimetre wavelengths. Atmospheric Measurement Techniques, 2019, 12, 1599-1617.	3.1	23
13	Strato-mesospheric CIO observations by SMILES: error analysis and diurnal variation. Atmospheric Measurement Techniques, 2012, 5, 2809-2825.	3.1	21
14	SMILES ice cloud products. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6468-6477.	3.3	19
15	Overview of the Martian atmospheric submillimetre sounder FIRE. Planetary and Space Science, 2012, 63-64, 62-82.	1.7	18
16	Overview: Fusion of radar polarimetry and numerical atmospheric modelling towards an improved understanding of cloud and precipitation processes. Atmospheric Chemistry and Physics, 2021, 21, 17291-17314.	4.9	18
17	Simulation study for the Stratospheric Inferred Winds (SIW) sub-millimeter limb sounder. Atmospheric Measurement Techniques, 2018, 11, 4545-4566.	3.1	16
18	Estimating cirrus cloud properties from MIPAS data. Geophysical Research Letters, 2007, 34, .	4.0	14

#	ARTICLE	IF	CITATIONS
19	Information content on hydrometeors from millimeter and sub-millimeter wavelengths. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 69, 1271562.	1.7	14
20	Influence of CO ₂ line profiles on radiative and radiative-convective equilibrium states of the Venus lower atmosphere. Journal of Geophysical Research, 2010, 115, .	3.3	13
21	Pressure broadening coefficients of induced by for Venus atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 2027-2036.	2.3	11
22	A method for remote sensing of weak planetary magnetic fields: Simulated application to Mars. Geophysical Research Letters, 2013, 40, 5014-5018.	4.0	8
23	Bulk hydrometeor optical properties for microwave and sub-millimetre radiative transfer in RTTOV-SCATT v13.0. Geoscientific Model Development, 2021, 14, 7497-7526.	3.6	7
24	Measurement of the pressure broadening coefficient of the 625GHz transition of in the sub-millimeter-wave region. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 821-825.	2.3	6
25	All-sky information content analysis for novel passive microwave instruments in the range from 23.8 to 874.4GHz. Atmospheric Measurement Techniques, 2018, 11, 4217-4237.	3.1	6
26	Evaluation of the COSMO model (v5.1) in polarimetric radar space – impact of uncertainties in model microphysics, retrievals and forward operators. Geoscientific Model Development, 2022, 15, 291-313.	3.6	6
27	Martian magnetism with orbiting sub-millimeter sensor: simulated retrieval system. Geoscientific Instrumentation, Methods and Data Systems, 2017, 6, 27-37.	1.6	4
28	Optimised frequency grids for infrared radiative transfer simulations in cloudy conditions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2124-2134.	2.3	3
29	Analysis of light scattering by two-dimensional inhomogeneities in paper using general radiative transfer theory. , 2014, , .		0