

Bernhard C Mayer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

5,165
citations

37
h-index

68
g-index

171
ext. papers

6,047
ext. citations

4.5
avg, IF

5.68
L-index

#	Paper	IF	Citations
141	VADUGS: a neural network for the remote sensing of volcanic ash with MSG/SEVIRI trained with synthetic thermal satellite observations simulated with a radiative transfer model. <i>Natural Hazards and Earth System Sciences</i> , 2022 , 22, 1029-1054	3.9	1
140	Impact of 3D cloud structures on the atmospheric trace gas products from UVIS sounders [Part 1: Synthetic dataset for validation of trace gas retrieval algorithms. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 1587-1608	4	0
139	EUREC4A's HALO. <i>Earth System Science Data</i> , 2021 , 13, 5545-5563	6.5	7
138	Towards an improved treatment of cloud-radiation interaction in weather and climate models: exploring the potential of the Tripleclouds method for various cloud types using libRadtran 2.0.4. <i>Geoscientific Model Development</i> , 2021 , 14, 3663-3682	6.3	
137	Waves to Weather: Exploring the limits of predictability of weather. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-38	6.1	0
136	Why we need radar, lidar, and solar radiance observations to constrain ice cloud microphysics. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 5029-5047	4	3
135	Toward Cloud Tomography from Space Using MISR and MODIS: Locating the "Veiled Core" in Opaque Convective Clouds. <i>Journals of the Atmospheric Sciences</i> , 2021 , 78, 155-166	2.1	2
134	EUREC4A. <i>Earth System Science Data</i> , 2021 , 13, 4067-4119	10.5	26
133	The polarized Sun and sky radiometer SSARA: design, calibration, and application for ground-based aerosol remote sensing. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 239-258	4	2
132	Broadening of the Cloud Droplet Size Distribution due to Thermal Radiative Cooling: Turbulent Parcel Simulations. <i>Journals of the Atmospheric Sciences</i> , 2020 , 77, 1993-2010	2.1	2
131	The challenge of simulating the sensitivity of the Amazonian cloud microstructure to cloud condensation nuclei number concentrations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1591-1605	6.8	3
130	Accurate 3-D radiative transfer simulation of spectral solar irradiance during the total solar eclipse of 21 August 2017. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1961-1976	6.8	3
129	Neighboring Column Approximation: An Improved 3D Thermal Radiative Transfer Approximation for Non-Rectangular Grids. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001843	7.1	0
128	Ice crystal characterization in cirrus clouds II: radiometric characterization of HaloCam for the quantitative analysis of halo displays. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 3977-3991	4	0
127	The Added Value of Large-eddy and Storm-resolving Models for Simulating Clouds and Precipitation. <i>Journal of the Meteorological Society of Japan</i> , 2020 , 98, 395-435	2.8	42
126	The incorporation of the Tripleclouds concept into the <i>gandl;/i>-Eddington two-stream radiation scheme: solver characterization and its application to shallow cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10733-10755	6.8	2
125	Radiative effects of long-range-transported Saharan air layers as determined from airborne lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12313-12327	6.8	5

124	A High-Altitude Long-Range Aircraft Configured as a Cloud Observatory: The NARVAL Expeditions. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1061-1077	6.1	34
123	Quantifying the bias of radiative heating rates in NWP models for shallow cumulus clouds 2019 ,		1
122	Aircraft-based stereographic reconstruction of 3-D cloud geometry. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1155-1166	4	1
121	Cloud geometry from oxygen-A-band observations through an aircraft side window. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1167-1181	4	3
120	Remote sensing of cloud droplet radius profiles using solar reflectance from cloud sides [Part 1: Retrieval development and characterization. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1183-1206 ⁴		6
119	Retrieval of aerosol properties from ground-based polarimetric sky-radiance measurements under cloudy conditions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 228, 57-72	2.1	2
118	Quantifying the bias of radiative heating rates in numerical weather prediction models for shallow cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8083-8100	6.8	4
117	Impacts of Water Vapor on Saharan Air Layer Radiative Heating. <i>Geophysical Research Letters</i> , 2019 , 46, 14854-14862	4.9	7
116	IPRT polarized radiative transfer model intercomparison project [Three-dimensional test cases (phase B). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 209, 19-44	2.1	24
115	Errors induced by the neglect of polarization in radiance calculations for three-dimensional cloudy atmospheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 218, 151-160	2.1	8
114	Efficient Methods to Account for Cloud-Top Inclination and Cloud Overlap in Synthetic Visible Satellite Images. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018 , 35, 665-685	2	11
113	The North Atlantic Waveguide and Downstream Impact Experiment. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1607-1637	6.1	77
112	ML-CIRRUS: The Airborne Experiment on Natural Cirrus and Contrail Cirrus with the High-Altitude Long-Range Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 271-288	6.1	77
111	Effects of 3-D thermal radiation on the development of a shallow cumulus cloud field. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5477-5500	6.8	23
110	Retrieving vertical ozone profiles from measurements of global spectral irradiance. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 4979-4994	4	0
109	Ice crystal characterization in cirrus clouds: a sun-tracking camera system and automated detection algorithm for halo displays. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 2499-2516	4	6
108	Large-eddy simulations over Germany using ICON: a comprehensive evaluation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 69-100	6.4	133
107	EURECA: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation. <i>Surveys in Geophysics</i> , 2017 , 38, 1529-1568	7.6	82

106	The role of 1-D and 3-D radiative heating in the organization of shallow cumulus convection and the formation of cloud streets. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13317-13327	6.8	20
105	Sensitivity of surface temperature to radiative forcing by contrail cirrus in a radiative-mixing model. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13833-13848	6.8	9
104	The Role of 1D and 3D Radiative Heating on the Organization of Shallow Cumulus Convection and the Formation of Cloud Streets 2017 ,		1
103	EUREC4A: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation. <i>Space Sciences Series of ISSI</i> , 2017 , 357-396	0.1	2
102	3-D radiative transfer in large-eddy simulations Experiences coupling the TenStream solver to the UCLA-LES. <i>Geoscientific Model Development</i> , 2016 , 9, 1413-1422	6.3	13
101	Representing 3-D cloud radiation effects in two-stream schemes: 1. Longwave considerations and effective cloud edge length. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8567-8582	4.4	17
100	Representing 3-D cloud radiation effects in two-stream schemes: 2. Matrix formulation and broadband evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8583-8599	4.4	23
99	ACRIDICON/CHUVA Campaign: Studying Tropical Deep Convective Clouds and Precipitation over Amazonia Using the New German Research Aircraft HALO. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 1885-1908	6.1	95
98	Do climate models project changes in solar resources?. <i>Solar Energy</i> , 2016 , 129, 65-84	6.8	24
97	A fast radiative transfer method for the simulation of visible satellite imagery. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 175, 54-67	2.1	26
96	Design and characterization of specMACS, a multipurpose hyperspectral cloud and sky imager. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2015-2042	4	28
95	The libRadtran software package for radiative transfer calculations (version 2.0.1). <i>Geoscientific Model Development</i> , 2016 , 9, 1647-1672	6.3	290
94	Ground-based imaging remote sensing of ice clouds: uncertainties caused by sensor, method and atmosphere. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 4615-4632	4	5
93	The Neighboring Column Approximation (NCA) A fast approach for the calculation of 3D thermal heating rates in cloud resolving models. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016 , 168, 17-28	2.1	17
92	IPRT polarized radiative transfer model intercomparison project Phase A. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 164, 8-36	2.1	64
91	A three-dimensional parallel radiative transfer model for atmospheric heating rates for use in cloud resolving models The TenStream solver. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015 , 163, 63-71	2.1	24
90	Atmospheric extinction in solar tower plants: absorption and broadband correction for MOR measurements. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3467-3480	4	33
89	Representative wavelengths absorption parameterization applied to satellite channels and spectral bands. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 148, 99-115	2.1	59

88	Three-dimensional Monte Carlo calculation of atmospheric thermal heating rates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 144, 123-136	2.1	18
87	Solar irradiance in the heterogeneous albedo environment of the Arctic coast: measurements and a 3-D model study. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5989-6002	6.8	18
86	Determination of circumsolar radiation from Meteosat Second Generation. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 823-838	4	17
85	Observation Operator for Visible and Near-Infrared Satellite Reflectances. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014 , 31, 1216-1233	2	29
84	Remote sensing of particle size profiles from cloud sides: Observables and retrievals in a 3D environment 2013 ,		2
83	The visibility of airborne volcanic ash from the flight deck of an aircraft - The effect of clouds in the field of view 2013 ,		1
82	A fast method for the retrieval of integrated longwave and shortwave top-of-atmosphere upwelling irradiances from MSG/SEVIRI (RRUMS). <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2627-2640	4	14
81	Simulation of SEVIRI infrared channels: a case study from the Eyjafjallajökull April/May 2010 eruption. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 649-660	4	8
80	An improved cirrus detection algorithm MeCiDA2 for SEVIRI and its evaluation with MODIS. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 309-322	4	14
79	Influence of spatial heterogeneity of local surface albedo on the area-averaged surface albedo retrieved from airborne irradiance measurements. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 527-537	4	10
78	paNTICA: A Fast 3D Radiative Transfer Scheme to Calculate Surface Solar Irradiance for NWP and LES Models. <i>Journal of Applied Meteorology and Climatology</i> , 2013 , 52, 1698-1715	2.7	15
77	Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2347-2379	6.8	85
76	Contrail study with ground-based cameras. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 3597-3612	4	15
75	Effects of Three-Dimensional Photon Transport on the Radiative Forcing of Realistic Contrails. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 2243-2255	2.1	13
74	On the visibility of airborne volcanic ash and mineral dust from the pilot's perspective in flight. <i>Physics and Chemistry of the Earth</i> , 2012 , 45-46, 87-102	3	43
73	Aviation induced diurnal North Atlantic cirrus cover cycle. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a.9		20
72	A Parametric Radiative Forcing Model for Contrail Cirrus. <i>Journal of Applied Meteorology and Climatology</i> , 2012 , 51, 1391-1406	2.7	48
71	On the observation of unusual high concentration of small chain-like aggregate ice crystals and large ice water contents near the top of a deep convective cloud during the CIRCLE-2 experiment. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 727-744	6.8	31

70	Contrails: Visible Aviation Induced Climate Impact. <i>Research Topics in Aerospace</i> , 2012 , 239-257		11
69	Radiative Transfer: Methods and Applications. <i>Research Topics in Aerospace</i> , 2012 , 401-415		1
68	The Eyjafjalla Eruption in 2010 and the Volcanic Impact on Aviation. <i>Research Topics in Aerospace</i> , 2012 , 625-644		1
67	Cloud-Aerosol-Radiation Interaction: Towards the EarthCARE Satellite Mission. <i>Research Topics in Aerospace</i> , 2012 , 829-842		1
66	Evaluation of radiation scheme performance within chemistry climate models. <i>Journal of Geophysical Research</i> , 2011 , 116,		69
65	Technical Note: A new discrete ordinate first-order rotational Raman scattering radiative transfer model implementation and first results. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 10471-10485	6.8	3
64	Validation of cloud property retrievals with simulated satellite radiances: a case study for SEVIRI. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5603-5624	6.8	51
63	Efficient unbiased variance reduction techniques for Monte Carlo simulations of radiative transfer in cloudy atmospheres: The solution. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 434-447	2.1	73
62	ALIS: An efficient method to compute high spectral resolution polarized solar radiances using the Monte Carlo approach. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 1622-1637 ^{2.1}		34
61	A Systematic Study of Longwave Radiative Heating and Cooling within Valleys and Basins Using a Three-Dimensional Radiative Transfer Model. <i>Journal of Applied Meteorology and Climatology</i> , 2011 , 50, 2473-2489	2.7	12
60	Effective Radius of Ice Particles in Cirrus and Contrails. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 300-321	2.1	52
59	An automatic contrail tracking algorithm. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1089-1101	4	15
58	Global patterns in daytime cloud properties derived from GOME backscatter UV-VIS measurements. <i>International Journal of Remote Sensing</i> , 2010 , 31, 4295-4318	3.1	36
57	Apparent absorption of solar spectral irradiance in heterogeneous ice clouds. <i>Journal of Geophysical Research</i> , 2010 , 115,		13
56	Explicit validation of a surface shortwave radiation balance model over snow-covered complex terrain. <i>Journal of Geophysical Research</i> , 2010 , 115,		32
55	The impact of aerosols on polarized sky radiance: model development, validation, and applications. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 383-396	6.8	91
54	Validating the MYSTIC three-dimensional radiative transfer model with observations from the complex topography of Arizona's Meteor Crater. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8685-8696 ^{6.8}		38
53	Benchmark results in vector atmospheric radiative transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 1931-1946	2.1	99

52	A Climatology of UV Radiation, 1979-2000, 65-85N 2010 , 1-20		15
51	Aerodynamic Contrails: Microphysics and Optical Properties. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 227-243	2.1	26
50	Aerodynamic Contrails: Phenomenology and Flow Physics. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 217-226	2.1	24
49	Radiative transfer in the cloudy atmosphere. <i>EPJ Web of Conferences</i> , 2009 , 1, 75-99	0.3	155
48	Evidence of ice crystals at cloud top of Arctic boundary-layer mixed-phase clouds derived from airborne remote sensing. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9401-9416	6.8	20
47	A Fast Three-Dimensional Approximation for the Calculation of Surface Irradiance in Large-Eddy Simulation Models. <i>Journal of Applied Meteorology and Climatology</i> , 2008 , 47, 3061-3071	2.7	18
46	Influence of clouds on the spectral actinic flux density in the lower troposphere (INSPECTRO): overview of the field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1789-1812	6.8	17
45	Remote sensing of cloud sides of deep convection: towards a three-dimensional retrieval of cloud particle size profiles. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 4741-4757	6.8	30
44	Estimation of photolysis frequencies from TOMS satellite measurements and routine meteorological observations. <i>Annales Geophysicae</i> , 2008 , 26, 1965-1975	2	
43	Variability of UV irradiance in Europe. <i>Photochemistry and Photobiology</i> , 2008 , 84, 172-9	3.6	75
42	The influence of broken cloudiness on cloud top height retrievals using nadir observations of backscattered solar radiation in the oxygen A-band. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 103, 460-477	2.1	24
41	Satellite Ozone Retrieval Under Broken Cloud Conditions: An Error Analysis Based on Monte Carlo Simulations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007 , 45, 187-194	8.1	11
40	Simulation of solar radiation during a total eclipse: a challenge for radiative transfer. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2259-2270	6.8	77
39	Retrieval of cloud spherical albedo from top-of-atmosphere reflectance measurements performed at a single observation angle. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 3633-3637	6.8	8
38	Towards a better representation of the solar cycle in general circulation models. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5391-5400	6.8	63
37	Technical note: A new day- and night-time Meteosat Second Generation Cirrus Detection Algorithm MeCiDA. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 6145-6159	6.8	30
36	Comment on "Glory phenomenon informs of presence and phase state of liquid water in cold clouds" by Anatoly N. Nevzorov. <i>Atmospheric Research</i> , 2007 , 84, 410-419	5.4	7
35	Impact of ship emissions on the microphysical, optical and radiative properties of marine stratus: a case study. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4925-4942	6.8	27

34	Long-term variability of solar direct and global radiation derived from ISCCP data and comparison with reanalysis data. <i>Solar Energy</i> , 2006 , 80, 1390-1401	6.8	86
33	A parameterization of the diffuse transmittance and reflectance for aerosol remote sensing problems. <i>Atmospheric Research</i> , 2005 , 73, 37-43	5.4	35
32	Impact of cirrus crystal shape on solar spectral irradiance: A case study for subtropical cirrus. <i>Journal of Geophysical Research</i> , 2005 , 110,		48
31	Technical note: The libRadtran software package for radiative transfer calculations - description and examples of use. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1855-1877	6.8	953
30	Spectral actinic flux in the lower troposphere: measurement and 1-D simulations for cloudless, broken cloud and overcast situations. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1975-1997	6.8	34
29	The influence of neighbouring clouds on the clear sky reflectance studied with the 3-D transport code RADUGA. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005 , 94, 405-424	2.1	39
28	THE I3RC: Bringing Together the Most Advanced Radiative Transfer Tools for Cloudy Atmospheres. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1275-1294	6.1	157
27	Airborne measurements of areal spectral surface albedo over different sea and land surfaces. <i>Journal of Geophysical Research</i> , 2004 , 109,		50
26	Remote sensing of water cloud droplet size distributions using the backscatter glory: a case study. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 1255-1263	6.8	39
25	Actinic flux and photolysis in water droplets: Mie calculations and geometrical optics limit. <i>Atmospheric Chemistry and Physics</i> , 2004 , 4, 2241-2250	6.8	21
24	Vertical distribution of spectral solar irradiance in the cloudless sky: A case study. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	15
23	Cloud-shadow effects on the structure of the convective boundary layer. <i>Meteorologische Zeitschrift</i> , 2002 , 11, 285-294	3.1	18
22	Remote sensing of cirrus cloud properties in the presence of lower clouds: An ATSR-2 case study during the Interhemispheric Differences in Cirrus Properties From Anthropogenic Emissions (INCA) experiment. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 8-1-AAC 8-15		6
21	Towards a reliable GCM estimation of contrail radiative forcing. <i>Geophysical Research Letters</i> , 2002 , 29, 20-1-20-4	4.9	24
20	Comparison of measured and modelled uv indices for the assessment of health risks. <i>Meteorological Applications</i> , 2001 , 8, 267-277	2.1	46
19	Ultraviolet radiation in partly snow covered terrain: Observations and three-dimensional simulations. <i>Geophysical Research Letters</i> , 2001 , 28, 3665-3668	4.9	20
18	The effect of clouds and surface albedo on UV irradiances at a high latitude site. <i>Geophysical Research Letters</i> , 2000 , 27, 1411-1414	4.9	51
17	Comment on Measurements of erythemal irradiance near Davis Station, Antarctica: Effect of inhomogeneous surface albedo. <i>Geophysical Research Letters</i> , 2000 , 27, 3489-3490	4.9	14

16	Method to determine snow albedo values in the ultraviolet for radiative transfer modeling. <i>Applied Optics</i> , 1999 , 38, 3869-75	1.7	32
15	Comparison of Models Used for UV Index Calculations. <i>Photochemistry and Photobiology</i> , 1998 , 67, 657-668	4.9	110
14	Estimation of surface actinic flux from satellite (TOMS) ozone and cloud reflectivity measurements. <i>Geophysical Research Letters</i> , 1998 , 25, 4321-4324	4.9	17
13	Comparison of Models Used for UV Index Calculations 1998 , 67, 657		1
12	Variability of UV-B at four stations in Europe. <i>Geophysical Research Letters</i> , 1997 , 24, 1363-1366	4.9	63
11	All-Weather Comparison between Spectral and Broadband (Robertson-Berger) UV Measurements. <i>Photochemistry and Photobiology</i> , 1996 , 64, 792-799	3.6	26
10	High-accuracy spectroradiometry of solar ultraviolet radiation. <i>Metrologia</i> , 1995 , 32, 697-700	2.1	24
9	Geographical differences in the UV Measured by intercompared spectroradiometers. <i>Geophysical Research Letters</i> , 1995 , 22, 1889-1892	4.9	78
8	UV-B in Germany higher in 1993 than in 1992. <i>Geophysical Research Letters</i> , 1994 , 21, 577-580	4.9	72
7	Simultaneous spectroradiometry: A study of solar UV irradiance at two altitudes. <i>Geophysical Research Letters</i> , 1994 , 21, 2805-2808	4.9	63
6	Solar irradiance in the heterogeneous albedo environment of the Arctic coast: measurements and a 3-D-model study		2
5	Determination of circumsolar radiation from Meteosat Second Generation		2
4	Design and characterization of specMACS, a multipurpose hyperspectral cloud and sky imager		1
3	EUREC4A		2
2	Combining radiative transfer calculations and a neural network for the remote sensing of volcanic ash using MSG/SEVIRI		4
1	EUREC4A		1