Bianca M Dinelli

List of Publications by Year in descending order

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118	2,864	29 h-index	45
papers	citations		g-index
155	155	155	1950 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	LevelÂ2 processor and auxiliary data for ESA Version 8 final full mission analysis of MIPAS measurements on ENVISAT. Atmospheric Measurement Techniques, 2022, 15, 1871-1901.	3.1	2
2	The SPARC Water Vapor Assessment II: assessment of satellite measurements of upper tropospheric humidity. Atmospheric Measurement Techniques, 2022, 15, 3377-3400.	3.1	4
3	Stability of the Jupiter Southern Polar Vortices Inspected Through Vorticity Using Juno/JIRAM Data. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
4	On the clouds and ammonia in Jupiter's upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	4.4	5
5	Oscillations and Stability of the Jupiter Polar Cyclones. Geophysical Research Letters, 2021, 48, e2021GL094235.	4.0	11
6	A Preliminary Study of Magnetosphereâ€lonosphereâ€Thermosphere Coupling at Jupiter: Juno Multiâ€lnstrument Measurements and Modeling Tools. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029469.	2.4	11
7	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€Band Imager. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029450.	2.4	15
8	The ESA MIPAS/Envisat level2-v8 dataset: 10 years of measurements retrieved with ORM v8.22. Atmospheric Measurement Techniques, 2021, 14, 7975-7998.	3.1	5
9	Phosgene distribution derived from MIPAS ESA v8 data: intercomparisons and trends. Atmospheric Measurement Techniques, 2021, 14, 7959-7974.	3.1	2
10	Juno/JIRAM: Planning and commanding activities. Advances in Space Research, 2020, 65, 598-615.	2.6	5
11	Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006096.	3.6	8
12	Twoâ€Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	3.6	24
13	FORUM Earth Explorer 9: Characteristics of Level 2 Products and Synergies with IASI-NG. Remote Sensing, 2020, 12, 1496.	4.0	13
14	On the Spatial Distribution of Minor Species in Jupiter's Troposphere as Inferred From Juno JIRAM Data. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006206.	3.6	14
15	FORUM: Unique Far-Infrared Satellite Observations to Better Understand How Earth Radiates Energy to Space. Bulletin of the American Meteorological Society, 2020, 101, E2030-E2046.	3.3	40
16	JUNO/JIRAM's view of Jupiter's H ₃ ⁺ emissions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180406.	3.4	10
17	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. Icarus, 2019, 329, 132-139.	2.5	11
18	The SPARC water vapour assessment II: profile-to-profile comparisons of stratospheric and lower mesospheric water vapour data sets obtained from satellites. Atmospheric Measurement Techniques, 2019, 12, 2693-2732.	3.1	13

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19	Climatology of CH4, HCN and C2H2 in Titan's upper atmosphere from Cassini/VIMS observations. Icarus, 2019, 331, 83-97.	2.5	5
20	The Advanced Infra-Red WAter Vapour Estimator (AIRWAVE) version 2: algorithm evolution, dataset description and performance improvements. Atmospheric Measurement Techniques, 2019, 12, 371-388.	3.1	4
21	Lee wave detection over the Mediterranean Sea using the Advanced Infra-Red WAter Vapour Estimator (AIRWAVE) total column water vapour (TCWV) dataset. Atmospheric Measurement Techniques, 2019, 12, 6683-6693.	3.1	0
22	Clusters of cyclones encircling Jupiter's poles. Nature, 2018, 555, 216-219.	27.8	90
23	Differences in ozone retrieval in MIPAS channels A and AB: a spectroscopic issue. Atmospheric Measurement Techniques, 2018, 11, 4707-4723.	3.1	10
24	Concurrent ultraviolet and infrared observations of the north Jovian aurora during Juno's first perijove. Icarus, 2018, 312, 145-156.	2.5	18
25	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
26	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	3.6	24
27	ITCZ trend analysis via Geodesic P-spline smoothing of the AIRWAVE TCWV and cloud frequency datasets. Atmospheric Research, 2018, 214, 228-238.	4.1	6
28	Validation of the Advanced Infra-Red Water Vapour Estimator (AIRWAVE) Total Column Water Vapour using Satellite and Radiosonde products Annals of Geophysics, 2018, 61, .	1.0	4
29	JIRAM, the Jovian Infrared Auroral Mapper. Space Science Reviews, 2017, 213, 393-446.	8.1	91
30	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	4.0	30
31	Preliminary results on the composition of Jupiter's troposphere in hot spot regions from the JIRAM/Juno instrument. Geophysical Research Letters, 2017, 44, 4615-4624.	4.0	20
32	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H ₃ ⁺ emissions and comparison with the north aurora. Geophysical Research Letters, 2017, 44, 4633-4640.	4.0	20
33	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. Geophysical Research Letters, 2017, 44, 4625-4632.	4.0	18
34	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. Geophysical Research Letters, 2017, 44, 4660-4668.	4.0	15
35	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. Geophysical Research Letters, 2017, 44, 4641-4648.	4.0	13
36	Analysis of IR-bright regions of Jupiter in JIRAM-Juno data: Methods and validation of algorithms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 200-209.	2.3	8

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37	CO concentration in the upper stratosphere and mesosphere of Titan from VIMS dayside limb observations at 4.7 µm. Icarus, 2017, 293, 119-131.	2.5	5
38	The SPARC water vapor assessment II: intercomparison of satellite and ground-based microwave measurements. Atmospheric Chemistry and Physics, 2017, 17, 14543-14558.	4.9	13
39	The SPARC water vapour assessment II: comparison of annual, semi-annual and quasi-biennial variations in stratospheric and lower mesospheric water vapour observed from satellites. Atmospheric Measurement Techniques, 2017, 10, 1111-1137.	3.1	24
40	Merged ozone profiles from four MIPAS processors. Atmospheric Measurement Techniques, 2017, 10, 1511-1518.	3.1	3
41	A strategy for the measurement of CO ₂ distribution in the stratosphere. Atmospheric Measurement Techniques, 2016, 9, 5853-5867.	3.1	1
42	Errors induced by different approximations in handling horizontal atmospheric inhomogeneities in MIPAS/ENVISAT retrievals. Atmospheric Measurement Techniques, 2016, 9, 5499-5508.	3.1	4
43	Phosgene in the UTLS: seasonal and latitudinal variations from MIPAS observations. Atmospheric Measurement Techniques, 2016, 9, 4655-4663.	3.1	7
44	Mapping of hydrocarbons and H 3 + emissions at Jupiter's north pole using Galileo/NIMS data. Geophysical Research Letters, 2016, 43, 11,558.	4.0	7
45	CHIMTEA—Chemical Impact of Thunderstorms on Earth's Atmosphere. Springer Earth System Sciences, 2016, , 1-14.	0.2	5
46	Total column water vapour from along track scanning radiometer series using thermal infrared dual view ocean cloud free measurements: The Advanced Infra-Red WAter Vapour Estimator (AIRWAVE) algorithm. Remote Sensing of Environment, 2016, 172, 1-14.	11.0	13
47	Synergy between middle infrared and millimeter-wave limb sounding of atmospheric temperature and minor constituents. Atmospheric Measurement Techniques, 2016, 9, 2267-2289.	3.1	8
48	Lagrangian analysis of microphysical and chemical processes in the Antarctic stratosphere: a case study. Atmospheric Chemistry and Physics, 2015, 15, 6651-6665.	4.9	3
49	The ozone climate change initiative: Comparison of four Level-2 processors for the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Remote Sensing of Environment, 2015, 162, 316-343.	11.0	20
50	WACCM climate chemistry sensitivity to sprite perturbations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6958-6970.	3.3	16
51	Past changes in the vertical distribution of ozone – Part 1: Measurement techniques, uncertainties and availability. Atmospheric Measurement Techniques, 2014, 7, 1395-1427.	3.1	67
52	Performance study and analysis method for a new-generation MIPAS experiment. Optics Express, 2014, 22, 27769.	3.4	0
53	JIRAM, the Jovian Infrared Auroral Mapper. , 2014, , 271-324.		4
54	Comparison of the MIPAS products obtained by four different level 2 processors. Annals of Geophysics, 2014, 56, .	1.0	6

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55	Results of the preparatory study "PREMIER Analysis of Campaign Data― Annals of Geophysics, 2014, , .	1.0	1
56	Validation of minor species of the MIPAS2D database. Annals of Geophysics, 2014, , .	1.0	1
57	An unidentified emission in Titan's upper atmosphere. Geophysical Research Letters, 2013, 40, 1489-1493.	4.0	44
58	LARGE ABUNDANCES OF POLYCYCLIC AROMATIC HYDROCARBONS IN TITAN'S UPPER ATMOSPHERE. Astrophysical Journal, 2013, 770, 132.	4.5	106
59	Ten years of MIPAS measurements with ESA Level 2 processor V6 – Part 1: Retrieval algorithm and diagnostics of the products. Atmospheric Measurement Techniques, 2013, 6, 2419-2439.	3.1	66
60	Measurement of the Arctic UTLS composition in presence of clouds using millimetre-wave heterodyne spectroscopy. Atmospheric Measurement Techniques, 2013, 6, 2683-2701.	3.1	6
61	Position error in profiles retrieved from MIPAS observations with a 1-D algorithm. Atmospheric Measurement Techniques, 2013, 6, 419-429.	3.1	5
62	The global picture of the atmospheric composition provided by MIPAS on Envisat. , 2012, , .		3
63	Extreme ozone depletion in the 2010–2011 Arctic winter stratosphere as observed by MIPAS/ENVISAT using a 2-D tomographic approach. Atmospheric Chemistry and Physics, 2012, 12, 9149-9165.	4.9	59
64	Retrieving cloud geometrical extents from MIPAS/ENVISAT measurements with a 2-D tomographic approach. Optics Express, 2011, 19, 20704.	3.4	4
65	Monthly mean vertical profiles of pressure, temperature and water vapour volume mixing ratio in the polar stratosphere and low mesosphere from a multi-year set of MIPAS-ENVISAT limb-scanning measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2237-2271.	1.6	11
66	Analysis of Titan CH4 3.3νm upper atmospheric emission as measured by Cassini/VIMS. Icarus, 2011, 214, 571-583.	2.5	22
67	Distribution of HCN in Titan's upper atmosphere from Cassini/VIMS observations at 3Î⅓m. Icarus, 2011, 214, 584-595.	2.5	30
68	Jupiter's hot spots: Quantitative assessment of the retrieval capabilities of future IR spectro-imagers. Planetary and Space Science, 2010, 58, 1265-1278.	1.7	18
69	The MIPAS2D database of MIPAS/ENVISAT measurements retrieved with a multi-target 2-dimensional tomographic approach. Atmospheric Measurement Techniques, 2010, 3, 355-374.	3.1	46
70	Two-dimensional tomographic retrieval of MIPAS/ENVISAT measurements of ozone and related species. International Journal of Remote Sensing, 2010, 31, 477-483.	2.9	11
71	Impact of temperature field inhomogeneities on the retrieval of atmospheric species from MIPAS IR limb emission spectra. Atmospheric Measurement Techniques, 2010, 3, 1487-1507.	3.1	28
72	Seeking sprite-induced signatures in remotely sensed middle atmosphere NO ₂ : latitude and time variations. Plasma Sources Science and Technology, 2009, 18, 034014.	3.1	21

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73	Retrieval of atmospheric H ¹⁵ NO ₃ /H ¹⁴ NO ₃ isotope ratio profile from MIPAS/ENVISAT limbâ€scanning measurements. Journal of Geophysical Research, 2009, 114, .	3.3	9
74	Technical Note: Measurement of the tropical UTLS composition in presence of clouds using millimetre-wave heterodyne spectroscopy. Atmospheric Chemistry and Physics, 2009, 9, 1191-1207.	4.9	15
75	Seeking spriteâ€induced signatures in remotely sensed middle atmosphere NO ₂ . Geophysical Research Letters, 2008, 35, .	4.0	40
76	JIRAM, the Image Spectrometer in the Near Infrared on Board the Juno Mission to Jupiter. Astrobiology, 2008, 8, 613-622.	3.0	17
77	Assessment of the horizontal resolution of retrieval products derived from MIPAS observations. Optics Express, 2007, 15, 10458.	3.4	9
78	MARC: A code for the retrieval of atmospheric parameters from millimeter-wave limb measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 105, 476-491.	2.3	33
79	Retrieval of minor constituents in a cloudy atmosphere with remote-sensing millimetre-wave measurements. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 163-170.	2.7	9
80	GMTR: Two-dimensional geo-fit multitarget retrieval model for Michelson Interferometer for Passive Atmospheric Sounding/Environmental Satellite observations. Applied Optics, 2006, 45, 716.	2.1	67
81	MIPAS level 2 operational analysis. Atmospheric Chemistry and Physics, 2006, 6, 5605-5630.	4.9	174
82	Multi-target retrieval (MTR): the simultaneous retrieval of pressure, temperature and volume mixing ratio profiles from limb-scanning atmospheric measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 84, 141-157.	2.3	32
83	First results of MIPAS/ENVISAT with operational Level 2 code. Advances in Space Research, 2004, 33, 1012-1019.	2.6	51
84	MIPAS-ENVISAT limb-sounding measurements: trade-off study for improvement of horizontal resolution. Applied Optics, 2004, 43, 5814.	2.1	19
85	Comparison of measurements made with two different instruments of the same atmospheric vertical profile. Applied Optics, 2003, 42, 6465.	2.1	24
86	Level 2 near-real-time analysis of MIPAS measurements on ENVISAT., 2003, , .		4
87	Geo-fit approach to the analysis of limb-scanning satellite measurements. , 2002, 4539, 369.		0
88	Discrete representation and resampling in limb-sounding measurements. Applied Optics, 2001, 40, 1261.	2.1	5
89	Geo-fit approach to the analysis of limb-scanning satellite measurements. Applied Optics, 2001, 40, 1872.	2.1	72
90	Optimized forward model and retrieval scheme for MIPAS near-real-time data processing. Applied Optics, 2000, 39, 1323.	2.1	188

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91	Measurement of the isotopic ratio distribution of HD16O and H216O in the 20-38 km altitude range from far-infrared spectra. Geophysical Research Letters, 1997, 24, 2003-2006.	4.0	11
92	The impact of comet Shoemaker-Levy 9 on the jovian ionosphere and aurorae. Planetary and Space Science, 1997, 45, 1237-1250.	1.7	5
93	UKIRT Observations of the Impact and Consequences of Comet Shoemaker–Levy 9 on Jupiterâ~†. Icarus, 1997, 126, 107-125.	2.5	24
94	New Assignments for the Infrared Spectrum of H3+. Journal of Molecular Spectroscopy, 1997, 181, 142-150.	1.2	41
95	Ab initio ro-vibrational levels of H3+ beyond the Born-Oppenheimer approximation. Chemical Physics Letters, 1995, 232, 295-300.	2.6	57
96	On the determination of potential energy surfaces of spectroscopic accuracy. Computational and Theoretical Chemistry, 1995, 341, 133-140.	1.5	9
97	High-resolution far-infrared ft spectroscopy of the stratosphere. Rendiconti Lincei, 1995, 6, 95-110.	2.2	2
98	Asymmetric adiabatic correction to the rotation–vibration levels of H2D+and D2H+. Journal of Chemical Physics, 1995, 102, 9322-9326.	3.0	30
99	Spectroscopically determined Born–Oppenheimer and adiabatic surfaces for H3+, H2D+, D2H+, and D3+. Journal of Chemical Physics, 1995, 103, 10433-10438.	3.0	38
100	The effect of the impact of comet Shoemaker Levy-9 on Jupiter's aurorae. Geophysical Research Letters, 1995, 22, 1629-1632.	4.0	17
101	A Spectroscopically Determined Potential Energy Surface for H+3. Journal of Molecular Spectroscopy, 1994, 163, 71-79.	1.2	40
102	Hyperfine Structure Analysis of Arsine in the Ground, $v2 = 1$, and $v4 = 1$ States. Journal of Molecular Spectroscopy, 1993, 157, 413-418.	1.2	5
103	Infrared spectroscopy and equilibrium structure of H2O+(XÌ∫ 2B1). Journal of Chemical Physics, 1992, 97, 5977-5987.	3.0	58
104	Hyperfine structure analysis of stibine in the ground and in the $v4 = 1$ states. Journal of Molecular Spectroscopy, 1992, 153, 307-315.	1.2	12
105	Bands of H3+ up to $41\frac{1}{2}$: Rovibrational transitions from first principles calculations. Journal of Molecular Spectroscopy, 1992, 153, 718-725.	1.2	50
106	Measurement of stratospheric distributions of H ₂ ¹⁶ O, H ₂ ¹⁶ O from far infrared spectra. Journal of Geophysical Research, 1991, 96, 7509-7514.	3.3	25
107	Intercomparison of stratospheric water vapor profiles obtained during the Balloon Intercomparison Campaign. Journal of Atmospheric Chemistry, 1990, 10, 159-179.	3.2	13
108	Balloon Intercomparison Campaigns: Results of remote sensing measurements of HCl. Journal of Atmospheric Chemistry, 1990, 10, 237-272.	3.2	29

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109	Observation and analysis of the $\hat{l}\frac{1}{2}$ 3 band of NH+3. Journal of Chemical Physics, 1989, 90, 5910-5917.	3.0	36
110	Difference frequency laser spectroscopy of the $\hat{l}^{1/2}$ 3 fundamental band of NH+2. Journal of Chemical Physics, 1989, 90, 5918-5923.	3.0	26
111	The mixing ratio of the stratospheric hydroxyl radical from far infrared emission measurements. Journal of Geophysical Research, 1989, 94, 11049-11058.	3.3	40
112	Infrared spectroscopy of the $\hat{l}\frac{1}{2}$ 3 band of H2O+. Journal of Molecular Spectroscopy, 1988, 127, 1-11.	1.2	53
113	Infrared spectroscopy of carboâ€ions. IV. TheA 2Îu–X 2Σ+gelectronic transition of Câ^2. Journal of Chemical Physics, 1988, 89, 129-137.	3.0	63
114	Submillimeter measurement of stratospheric chlorine monoxide. Journal of Geophysical Research, 1988, 93, 7063-7068.	3.3	17
115	Comparison of measured and calculated high-resolution spectra of far-infra-red stratospheric emission. Il Nuovo Cimento Della Società Italiana Di Fisica C, 1985, 8, 631-646.	0.2	8
116	Precise Measurements on Optical Bistability and Passive Q- Switch in a CO2 Laser with Saturable Absorber., 1984,, 317-324.		1
117	Submillimeter detection of stratospheric OH and further line assignments in the stratospheric emission spectrum. Journal of Infrared, Millimeter and Terahertz Waves, 1983, 4, 475-488.	0.6	18
118	Optical bistability of a CO2 laser with intracavity saturable absorber: Experiment and model. Optics Communications, 1983, 44, 277-282.	2.1	39