

Denis A Belyaev

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,716
citations

172457

29
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182427

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docs citations

82
times ranked

1426
citing authors

#	ARTICLE	IF	CITATIONS
1	Reappraising the Production and Transfer of Hydrogen Atoms From the Middle to the Upper Atmosphere of Mars at Times of Elevated Water Vapor. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	5
2	Seasonal Changes in the Vertical Structure of Ozone in the Martian Lower Atmosphere and Its Relationship to Water Vapor. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	4
3	Transient HCl in the atmosphere of Mars. <i>Science Advances</i> , 2021, 7, .	10.3	37
4	BepiColombo Science Investigations During Cruise and Flybys at the Earth, Venus and Mercury. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	25
5	Seasonal reappearance of HCl in the atmosphere of Mars during the Mars year 35 dusty season. <i>Astronomy and Astrophysics</i> , 2021, 647, A161.	5.1	17
6	The Spatial and Temporal Distribution of Nighttime Ozone and Sulfur Dioxide in the Venus Mesosphere as Deduced From SPICAV UV Stellar Occultations. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006625.	3.6	6
7	Upper limits for phosphine (PH ₃) in the atmosphere of Mars. <i>Astronomy and Astrophysics</i> , 2021, 649, L1.	5.1	4
8	Revealing a High Water Abundance in the Upper Mesosphere of Mars With ACS Onboard TGO. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093411.	4.0	24
9	Isotopic fractionation of water and its photolytic products in the atmosphere of Mars. <i>Nature Astronomy</i> , 2021, 5, 943-950.	10.1	27
10	Isotopes of chlorine from HCl in the Martian atmosphere. <i>Astronomy and Astrophysics</i> , 2021, 651, A32.	5.1	7
11	Gravity Wave Activity in the Martian Atmosphere at Altitudes 20–160 km From ACS/TGO Occultation Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006899.	3.6	22
12	The vertical structure of CO in the Martian atmosphere from the ExoMars Trace Gas Orbiter. <i>Nature Geoscience</i> , 2021, 14, 67-71.	12.9	30
13	Sulfur monoxide dimer chemistry as a possible source of polysulfur in the upper atmosphere of Venus. <i>Nature Communications</i> , 2021, 12, 175.	12.8	11
14	Isotopic Composition of CO ₂ in the Atmosphere of Mars: Fractionation by Diffusive Separation Observed by the ExoMars Trace Gas Orbiter. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	12
15	Climatology of SO ₂ and UV absorber at Venus' cloud top from SPICAV-UV nadir dataset. <i>Icarus</i> , 2020, 335, 113368.	2.5	50
16	Improved calibrations of the stellar occultation data accumulated by the SPICAV UV onboard Venus Express. <i>Planetary and Space Science</i> , 2020, 184, 104868.	1.7	4
17	PHEBUS on Bepi-Colombo: Post-launch Update and Instrument Performance. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	21
18	Stormy water on Mars: The distribution and saturation of atmospheric water during the dusty season. <i>Science</i> , 2020, 367, 297-300.	12.6	117

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19	First detection of ozone in the mid-infrared at Mars: implications for methane detection. <i>Astronomy and Astrophysics</i> , 2020, 639, A141.	5.1	23
20	Oxygen isotopic ratios in Martian water vapour observed by ACS MIR on board the ExoMars Trace Gas Orbiter. <i>Astronomy and Astrophysics</i> , 2019, 630, A91.	5.1	24
21	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. <i>Nature</i> , 2019, 568, 517-520.	27.8	111
22	Martian dust storm impact on atmospheric H ₂ O and D/H observed by ExoMars Trace Gas Orbiter. <i>Nature</i> , 2019, 568, 521-525.	27.8	107
23	Discovery of cloud top ozone on Venus. <i>Icarus</i> , 2019, 319, 491-498.	2.5	19
24	The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	119
25	Scale heights and detached haze layers in the mesosphere of Venus from SPICAV IR data. <i>Icarus</i> , 2018, 311, 87-104.	2.5	7
26	Acousto-optic tunable filter spectrometers in space missions [Invited]. <i>Applied Optics</i> , 2018, 57, C103.	1.8	52
27	Acousto-optic infrared imaging spectrometer for close-up sensing of planetary surfaces. , 2018, , .		2
28	Night side distribution of SO ₂ content in Venus's™ upper mesosphere. <i>Icarus</i> , 2017, 294, 58-71.	2.5	32
29	Search for HBr and bromine photochemistry on Venus. <i>Icarus</i> , 2017, 293, 114-118.	2.5	26
30	Sulfur dioxide in the Venus atmosphere: I. Vertical distribution and variability. <i>Icarus</i> , 2017, 295, 16-33.	2.5	47
31	Sulfur dioxide in the Venus Atmosphere: II. Spatial and temporal variability. <i>Icarus</i> , 2017, 295, 1-15.	2.5	53
32	Compact acousto-optic imaging spectro-polarimeter for mineralogical investigations in the near infrared. <i>Optics Express</i> , 2017, 25, 25980.	3.4	23
33	Near infrared imager for spectral and polarization analysis of planetary surfaces. , 2017, , .		1
34	Contribution from SOIR/VEX to the updated Venus International Reference Atmosphere (VIRA). <i>Advances in Space Research</i> , 2016, 57, 443-458.	2.6	15
35	Aerosol properties in the upper haze of Venus from SPICAV IR data. <i>Icarus</i> , 2016, 277, 154-170.	2.5	53
36	Venus mesospheric sulfur dioxide measurement retrieved from SOIR on board Venus Express. <i>Planetary and Space Science</i> , 2015, 113-114, 193-204.	1.7	46

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37	Thermal structure of Venus nightside upper atmosphere measured by stellar occultations with SPICAV/Venus Express. Planetary and Space Science, 2015, 113-114, 321-335.	1.7	37
38	Development of a space-borne spectrometer to monitor atmospheric ozone. Applied Optics, 2015, 54, 3315.	2.1	6
39	Observations of D/H ratios in H ₂ O, HCl, and HF on Venus and new DCI and DF line strengths. Icarus, 2013, 224, 57-65.	2.5	68
40	Variations of sulphur dioxide at the cloud top of Venus's dynamic atmosphere. Nature Geoscience, 2013, 6, 25-28.	12.9	164
41	Compact echelle spectrometer for occultation sounding of the Martian atmosphere: design and performance. Applied Optics, 2013, 52, 1054.	1.8	17
42	Characterization of the stray light in a space borne atmospheric AOTF spectrometer. Optics Express, 2013, 21, 18354.	3.4	13
43	Improved calibration of SOIR/Venus Express spectra. Optics Express, 2013, 21, 21148.	3.4	30
44	Sulfur chemistry in the middle atmosphere of Venus. Icarus, 2012, 217, 714-739.	2.5	176
45	Vertical profiling of SO ₂ and SO above Venus's clouds by SPICAV/SOIR solar occultations. Icarus, 2012, 217, 740-751.	2.5	103
46	SPICAV IR acousto-optic spectrometer experiment on Venus Express. Planetary and Space Science, 2012, 65, 38-57.	1.7	49
47	Studies of the planetary atmospheres in Russia (2007-2010). Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 309-331.	0.9	3
48	A layer of ozone detected in the nightside upper atmosphere of Venus. Icarus, 2011, 216, 82-85.	2.5	81
49	An investigation of the SO ₂ content of the venusian mesosphere using SPICAV-UV in nadir mode. Icarus, 2011, 211, 58-69.	2.5	86
50	Solar infrared occultation observations by SPICAM experiment on Mars-Express: Simultaneous measurements of the vertical distributions of H ₂ O, CO ₂ and aerosol. Icarus, 2009, 200, 96-117.	2.5	98
51	A new method for determining the transfer function of an Acousto optical tunable filter. Optics Express, 2009, 17, 2005.	3.4	27
52	In-flight performance and calibration of SPICAV SOIR onboard Venus Express. Applied Optics, 2008, 47, 2252.	2.1	50
53	First observations of SO ₂ above Venus' clouds by means of Solar Occultation in the Infrared. Journal of Geophysical Research, 2008, 113, .	3.3	50
54	HDO and H ₂ O vertical distributions and isotopic ratio in the Venus mesosphere by Solar Occultation at Infrared spectrometer on board Venus Express. Journal of Geophysical Research, 2008, 113, .	3.3	117

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55	Composition of the Venus mesosphere measured by Solar Occultation at Infrared on board Venus Express. Journal of Geophysical Research, 2008, 113, .	3.3	86
56	Venus Monitoring Camera for Venus Express. Planetary and Space Science, 2007, 55, 1701-1711.	1.7	87
57	A warm layer in Venus' cryosphere and high-altitude measurements of HF, HCl, H ₂ O and HDO. Nature, 2007, 450, 646-649.	27.8	161
58	<title>Method of dynamic range expansion at acousto-optic analysis of radio-signal spectra</title>. , 2005, , .		0
59	A stringent upper limit of 20 pptv for methane on Mars and constraints on its dispersion outside Gale crater. Astronomy and Astrophysics, 0, , .	5.1	16