Alexander V Rodin

List of Publications by Year
in descending order

48	1,822	304602 22	254106 43
papers	citations	h-index	g-index

48	48	48	1148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Martian Dust Storms and Gravity Waves: Disentangling Water Transport to the Upper Atmosphere. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	10
2	A Concept of 2U Spaceborne Multichannel Heterodyne Spectroradiometer for Greenhouse Gases Remote Sensing. Remote Sensing, 2021, 13, 2235.	1.8	7
3	Martian Multichannel Diode Laser Spectrometer (M-DLS) for In-Situ Atmospheric Composition Measurements on Mars Onboard ExoMars-2022 Landing Platform. Applied Sciences (Switzerland), 2020, 10, 8805.	1.3	3
4	Vertical wind profiling from the troposphere to the lower mesosphere based on high-resolution heterodyne near-infrared spectroradiometry. Atmospheric Measurement Techniques, 2020, 13, 2299-2308.	1.2	8
5	Microresonator and Laser Parameter Definition via Self-Injection Locking. Physical Review Applied, 2020, 14, .	1.5	24
6	Improvement of dark signal evaluation and signal-to-noise ratio of multichannel receivers in NIR heterodyne spectroscopy application for simultaneous CO₂ and CH₄ atmospheric measurements. OSA Continuum, 2020, 3, 1801.	1.8	4
7	Portable multichannel heterodyne spectroradiometer for simultaneous atmospheric CO2 and CH4 precision column measurement in the near-infrared range. , 2020, , .		1
8	Seasonal Water â€œPumpâ€•in the Atmosphere of Mars: Vertical Transport to the Thermosphere. Geophysical Research Letters, 2019, 46, 4161-4169.	1.5	50
9	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520.	13.7	111
10	Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525.	13.7	107
11	Modeling the Hydrological Cycle in the Atmosphere of Mars: Influence of a Bimodal Size Distribution of Aerosol Nucleation Particles. Journal of Geophysical Research E: Planets, 2018, 123, 508-526.	1.5	14
12	The thermal structure of the Venus atmosphere: Intercomparison of Venus Express and ground based observations of vertical temperature and density profiles. Icarus, 2017, 294, 124-155.	1.1	34
13	Show Venus Some Love. Scientific American, 2016, 314, 11-11.	1.0	0
14	M-DLS laser and heterodyne IR spectrometer for studies of the Ðœartian atmosphere from ExoMars-2018 landing platform. , 2015, , .		1
15	NbN Hot-Electron-Bolometer Mixer for Operation in the Near-IR Frequency Range. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	8
16	Marsâ€™ water vapor mapping by the SPICAM IR spectrometer: Five martian years of observations. Icarus, 2015, 251, 50-64.	1.1	90
17	Heterodyne detection at near-infrared wavelengths with a superconducting NbN hot-electron bolometer mixer. Optics Letters, 2014, 39, 1429.	1.7	13
18	High resolution heterodyne spectroscopy of the atmospheric methane NIR absorption. Optics Express, 2014, 22, 13825.	1.7	55

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19	Evidence for a bimodal size distribution for the suspended aerosol particles on Mars. Icarus, 2014, 231, 239-260.	1.1	82
20	Studies of the planetary atmospheres in Russia (2007â€“2010). Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 309-331.	0.2	3
21	AOST: Fourier spectrometer for studying mars and phobos. Solar System Research, 2012, 46, 31-40.	0.3	11
22	The RUSALKA device for measuring the carbon dioxide and methane concentration in the atmosphere from on board the International Space Station. Journal of Optical Technology (A Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 61	0.2	18
23	Common-path achromatic rotational-shearing coronagraph. Optics Letters, 2011, 36, 1972.	1.7	10
24	Stellar coronagraph using the principle of achromatic null-interferometer. Cosmic Research, 2011, 49, 99-109.	0.2	1
25	The 1.10- and 1.18-Î¼m nightside windows of Venus observed by SPICAV-IR aboard Venus Express. Icarus, 2011, 216, 173-183.	1.1	96
26	Identification of planetary wave patterns associated with ice seasonal sublimation/condensation dynamics in the polar regions of mars, based on IR mapping spectrometer OMEGA onboard Mars Express. Cosmic Research, 2010, 48, 150-156.	0.2	0
27	European Venus Explorer (EVE): an in-situ mission to Venus. Experimental Astronomy, 2009, 23, 741-760.	1.6	9
28	New in the physics of planetary atmosphere. Izvestiya - Atmospheric and Oceanic Physics, 2009, 45, 503-516.	0.2	2
29	Solar infrared occultation observations by SPICAM experiment on Mars-Express: Simultaneous measurements of the vertical distributions of H2O, CO2 and aerosol. Icarus, 2009, 200, 96-117.	1.1	98
30	European Venus Explorer: An in-situ mission to Venus using a balloon platform. Advances in Space Research, 2009, 44, 106-115.	1.2	16
31	A study of the bound water, water ice, and frost distribution over the Martian surface: Treatment and correcting of the data of observations with the OMEGA spectrometer onboard Mars Express. Solar System Research, 2009, 43, 373-391.	0.3	1
32	SPICAV on Venus Express: Three spectrometers to study the global structure and composition of the Venus atmosphere. Planetary and Space Science, 2007, 55, 1673-1700.	0.9	160
33	A warm layer in Venus' cryosphere and high-altitude measurements of HF, HCl, H2O and HDO. Nature, 2007, 450, 646-649.	13.7	161
34	Observation of O21.27 Î¼m dayglow by SPICAM IR: Seasonal distribution for the first Martian year of Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	57
35	Mars water vapor abundance from SPICAM IR spectrometer: Seasonal and geographic distributions. Journal of Geophysical Research, 2006, 111, .	3.3	76
36	Exploration of Mars in SPICAM-IR experiment onboard the Mars-Express spacecraft: 1. Acousto-optic spectrometer SPICAM-IR. Cosmic Research, 2006, 44, 278-293.	0.2	7

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37	Exploration of Mars in the SPICAM-IR experiment onboard the Mars-Express spacecraft: 2. Nadir observations: Simultaneous observations of water vapor and O2 glow in the Martian atmosphere. Cosmic Research, 2006, 44, 294-304.	0.2	4
38	Global structure and composition of the martian atmosphere with SPICAM on Mars express. Advances in Space Research, 2005, 35, 31-36.	1.2	8
39	Optical properties of dust and the opacity of the Martian atmosphere. Advances in Space Research, 2005, 35, 21-30.	1.2	33
40	MEP (Mars Environment Package): toward a package for studying environmental conditions at the surface of Mars from future lander/rover missions. Advances in Space Research, 2004, 34, 1702-1709.	1.2	7
41	Title is missing!. Solar System Research, 2003, 37, 1-19.	0.3	23
42	Water ice clouds in the Martian atmosphere: General circulation model experiments with a simple cloud scheme. Journal of Geophysical Research, 2002, 107, 2-1.	3.3	81
43	An AOTF-based spectrometer for the studies of Mars atmosphere for Mars Express ESA mission. Advances in Space Research, 2002, 29, 143-150.	1.2	37
44	The study of the martian atmosphere from top to bottom with SPICAM light on mars express. Planetary and Space Science, 2000, 48, 1303-1320.	0.9	61
45	MIRA: Review of inputs from updated results of the PHOBOS mission. Advances in Space Research, 1999, 23, 1591-1602.	1.2	1
46	Vertical Distribution of Water in the Near-Equatorial Troposphere of Mars: Water Vapor and Clouds. Icarus, 1997, 125, 212-229.	1.1	65
47	Vertical Structure of Martian Dust Measured by Solar Infrared Occultations from the Phobos Spacecraft. Icarus, 1993, 102, 76-87.	1.1	118
48	Tentative identification of formaldehyde in the Martian atmosphere. Planetary and Space Science, 1993, 41, 441-451.	0.9	36