

Aoki Shohei

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,357
citations

331259

21
h-index

360668

35
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81
all docs

81
docs citations

81
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical distribution of dust in the martian atmosphere: OMEGA/MEx limb observations. <i>Icarus</i> , 2022, 371, 114702.	1.1	6
2	Can we constrain the origin of Mars' recurring slope lineae using atmospheric observations?. <i>Icarus</i> , 2022, 371, 114688.	1.1	0
3	The Mars system revealed by the Martian Moons eXploration mission. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	11
4	Explaining NOMAD D/H Observations by Cloud-Induced Fractionation of Water Vapor on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	11
5	Water vapor saturation and ice cloud occurrence in the atmosphere of Mars. <i>Planetary and Space Science</i> , 2022, 212, 105390.	0.9	8
6	Calibration of NOMAD on ESA's ExoMars Trace Gas Orbiter: Part 1 – The Solar Occultation channel. <i>Planetary and Space Science</i> , 2022, 218, 105411.	0.9	8
7	Calibration of the NOMAD-UVIS data. <i>Planetary and Space Science</i> , 2022, 218, 105504.	0.9	5
8	Variations in Vertical CO/CO ₂ Profiles in the Martian Mesosphere and Lower Thermosphere Measured by the ExoMars TGO/NOMAD: Implications of Variations in Eddy Diffusion Coefficient. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
9	Density and Temperature of the Upper Mesosphere and Lower Thermosphere of Mars Retrieved From the OI 557.7Ånm Dayglow Measured by TGO/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	6
10	The Mars Oxygen Visible Dayglow: A Martian Year of NOMAD/UVIS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	2
11	Planet-Wide Ozone Destruction in the Middle Atmosphere on Mars During Global Dust Storm. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
12	The Deuterium Isotopic Ratio of Water Released From the Martian Caps as Measured With TGO/NOMAD. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	15
13	Comprehensive investigation of Mars methane and organics with ExoMars/NOMAD. <i>Icarus</i> , 2021, 357, 114266.	1.1	27
14	The current weather and climate of Mars: 12 years of atmospheric monitoring by the Planetary Fourier Spectrometer on Mars Express. <i>Icarus</i> , 2021, 353, 113406.	1.1	34
15	Impact of gradients at the martian terminator on the retrieval of ozone from SPICAM/MEx. <i>Icarus</i> , 2021, 353, 113598.	1.1	8
16	Transient HCl in the atmosphere of Mars. <i>Science Advances</i> , 2021, 7, .	4.7	37
17	Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. <i>Science Advances</i> , 2021, 7, .	4.7	31
18	First Observation of the Oxygen 630Ånm Emission in the Martian Dayglow. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092334.	1.5	8

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19	Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092650.	1.5	7
20	Intense Zonal Wind in the Martian Mesosphere During the 2018 Planetary Encircling Dust Event Observed by Ground-Based Infrared Heterodyne Spectroscopy. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092413.	1.5	4
21	Annual Appearance of Hydrogen Chloride on Mars and a Striking Similarity With the Water Vapor Vertical Distribution Observed by TGO/NOMAD. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092506.	1.5	15
22	Martian water loss to space enhanced by regional dust storms. <i>Nature Astronomy</i> , 2021, 5, 1036-1042.	4.2	40
23	Enhanced water loss from the martian atmosphere during a regional-scale dust storm and implications for long-term water loss. <i>Earth and Planetary Science Letters</i> , 2021, 571, 117109.	1.8	22
24	A Global and Seasonal Perspective of Martian Water Vapor From ExoMars/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	1.5	8
25	ExoMars TGO/NOMAD-UVIS Vertical Profiles of Ozone: 1. Seasonal Variation and Comparison to Water. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006837.	1.5	18
26	First Detection and Thermal Characterization of Terminator CO ₂ Ice Clouds With ExoMars/NOMAD. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	12
27	Calibration of NOMAD on ESA's ExoMars Trace Gas Orbiter: Part 2 – The Limb, Nadir and Occultation (LNO) channel. <i>Planetary and Space Science</i> , 2021, , 105410.	0.9	3
28	MIRS: an imaging spectrometer for the MMX mission. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	13
29	Explanation for the Increase in High-Altitude Water on Mars Observed by NOMAD During the 2018 Global Dust Storm. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084354.	1.5	62
30	Strong Variability of Martian Water Ice Clouds During Dust Storms Revealed From ExoMars Trace Gas Orbiter/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006250.	1.5	39
31	Detection of green line emission in the dayside atmosphere of Mars from NOMAD-TGO observations. <i>Nature Astronomy</i> , 2020, 4, 1049-1052.	4.2	13
32	Evaluation of a method to retrieve temperature and wind velocity profiles of the Venusian nightside mesosphere from mid-infrared CO ₂ absorption line observed by heterodyne spectroscopy. <i>Earth, Planets and Space</i> , 2020, 72, .	0.9	1
33	Detection of Crystalline and Fine-grained Calcic Plagioclases on Vesta. <i>Astrophysical Journal Letters</i> , 2019, 882, L22.	3.0	1
34	Retrieval and characterization of carbon monoxide (CO) vertical profiles in the Martian atmosphere from observations of PFS/MEX. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 238, 106498.	1.1	6
35	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. <i>Nature</i> , 2019, 568, 517-520.	13.7	111
36	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.	13.7	107

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37	Independent confirmation of a methane spike on Mars and a source region east of Gale Crater. <i>Nature Geoscience</i> , 2019, 12, 326-332.	5.4	63
38	Ground-based infrared mapping of H ₂ O on Mars near opposition. <i>Astronomy and Astrophysics</i> , 2019, 627, A60.	2.1	8
39	Water Vapor Vertical Profiles on Mars in Dust Storms Observed by TGO/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3482-3497.	1.5	88
40	Methane on Mars: New insights into the sensitivity of CH ₄ with the NOMAD/ExoMars spectrometer through its first in-flight calibration. <i>Icarus</i> , 2019, 321, 671-690.	1.1	32
41	Characterization of dust activity on Mars from MY27 to MY32 by PFS-MEX observations. <i>Icarus</i> , 2018, 310, 32-47.	1.1	28
42	Mesospheric CO ₂ ice clouds on Mars observed by Planetary Fourier Spectrometer onboard Mars Express. <i>Icarus</i> , 2018, 302, 175-190.	1.1	34
43	New measurements of D/H on Mars using EXES aboard SOFIA. <i>Astronomy and Astrophysics</i> , 2018, 612, A112.	2.1	26
44	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	95
45	Stringent upper limit of CH ₄ on Mars based on SOFIA/EXES observations. <i>Astronomy and Astrophysics</i> , 2018, 610, A78.	2.1	10
46	Optical and radiometric models of the NOMAD instrument part II: the infrared channels - SO and LNO. <i>Optics Express</i> , 2016, 24, 3790.	1.7	25
47	Expected performances of the NOMAD/ExoMars instrument. <i>Planetary and Space Science</i> , 2016, 124, 94-104.	0.9	31
48	IR heterodyne spectrometer MILAHI for continuous monitoring observatory of Martian and Venusan atmospheres at Mt. Haleakalā, Hawaii. <i>Planetary and Space Science</i> , 2016, 126, 34-48.	0.9	18
49	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. <i>Optics Express</i> , 2015, 23, 30028.	1.7	26
50	Seasonal variation of the HDO/H ₂ O ratio in the atmosphere of Mars at the middle of northern spring and beginning of northern summer. <i>Icarus</i> , 2015, 260, 7-22.	1.1	47
51	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. <i>Planetary and Space Science</i> , 2015, 119, 233-249.	0.9	77
52	Search for hydrogen peroxide in the Martian atmosphere by the Planetary Fourier Spectrometer onboard Mars Express. <i>Icarus</i> , 2015, 245, 177-183.	1.1	7
53	Comparison of general circulation model atmospheric wave simulations with wind observations of venusian mesosphere. <i>Icarus</i> , 2013, 225, 840-849.	1.1	11
54	Search of SO ₂ in the Martian atmosphere by ground-based submillimeter observation. <i>Planetary and Space Science</i> , 2009, 57, 2123-2127.	0.9	12

#	ARTICLE	IF	CITATIONS
55	Soft X-ray interferometry and holography. AIP Conference Proceedings, 1986, , .	0.3	5