Hiromu Nakagawa

List of Publications by Year
in descending order

40	993	687363 13	434195 31
papers	citations	h-index	g-index

41	41	41	1085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. Icarus, 2018, 315, 146-157.	2.5	216
2	Lunar Radar Sounder Observations of Subsurface Layers Under the Nearside Maria of the Moon. Science, 2009, 323, 909-912.	12.6	166
3	MAVEN NGIMS observations of atmospheric gravity waves in the Martian thermosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 2310-2335.	2.4	88
4	Global distribution and parameter dependences of gravity wave activity in the Martian upper thermosphere derived from MAVEN/NGIMS observations. Journal of Geophysical Research: Space Physics, 2017, 122, 2374-2397.	2.4	66
5	The Lunar Radar Sounder (LRS) Onboard theÂKAGUYA (SELENE) Spacecraft. Space Science Reviews, 2010, 154, 145-192.	8.1	50
6	Seasonal variation of the HDO/H2O ratio in the atmosphere of Mars at the middle of northern spring and beginning of northern summer. Icarus, 2015, 260, 7-22.	2.5	47
7	Comparison of the Martian thermospheric density and temperature from IUVS/MAVEN data and general circulation modeling. Geophysical Research Letters, 2016, 43, 3095-3104.	4.0	34
8	Mesospheric CO2 ice clouds on Mars observed by Planetary Fourier Spectrometer onboard Mars Express. Icarus, 2018, 302, 175-190.	2.5	34
9	Distribution of the subsurface reflectors of the western nearside maria observed from Kaguya with Lunar Radar Sounder. Geophysical Research Letters, 2009, 36, .	4.0	31
10	A coupled atmosphereâ€“hydrosphere global climate model of early Mars: A â€˜cool and wetâ€™ scenario for the formation of water channels. Icarus, 2020, 338, 113567.	2.5	24
11	Synthetic Aperture Radar Processing of Kaguya Lunar Radar Sounder Data for Lunar Subsurface Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2161-2174.	6.3	23
12	IR heterodyne spectrometer MILAHI for continuous monitoring observatory of Martian and Venusian atmospheres at Mt. HaleakalÄ, Hawaii. Planetary and Space Science, 2016, 126, 34-48.	1.7	18
13	Vertical Propagation of Wave Perturbations in the Middle Atmosphere on Mars by MAVEN/IUVS. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006481.	3.6	18
14	MIRS: an imaging spectrometer for the MMX mission. Earth, Planets and Space, 2021, 73, .	2.5	13
15	Solar cycle dependence of interplanetary Lyman Î± emission and solar wind anisotropies derived from NOZOMI/UVS and SOHO/SWAN observations. Journal of Geophysical Research, 2003, 108, .	3.3	12
16	Search of SO2 in the Martian atmosphere by ground-based submillimeter observation. Planetary and Space Science, 2009, 57, 2123-2127.	1.7	12
17	Venusâ€™ upper atmospheric dynamical structure from ground-based observations shortly before and after Venusâ€™ inferior conjunction 2009. Icarus, 2013, 225, 828-839.	2.5	12
18	Comparison of general circulation model atmospheric wave simulations with wind observations of venusian mesosphere. Icarus, 2013, 225, 840-849.	2.5	11

#	Article	IF	Citations
19	The Mars system revealed by the Martian Moons eXploration mission. Earth, Planets and Space, 2022, 74, .	2.5	11
20	Stringent upper limit of CH₄ on Mars based on SOFIA/EXES observations. Astronomy and Astrophysics, 2018, 610, A78.	5.1	10
21	Modeling of Diffuse Auroral Emission at Mars: Contribution of MeV Protons. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	10
22	A Warm Layer in the Nightside Mesosphere of Mars. Geophysical Research Letters, 2020, 47, e2019GL085646.	4.0	9
23	UV optical measurements of the Nozomi spacecraft interpreted with a two-component LIC-flow model. Astronomy and Astrophysics, 2008, 491, 29-41.	5.1	9
24	Seasonal and Latitudinal Variations of Dayside N₂/CO₂ Ratio in the Martian Thermosphere Derived From MAVEN IUVS Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006378.	3.6	8
25	Seasonal and Dustâ€Related Variations in the Dayside Thermospheric and Ionospheric Compositions of Mars Observed by MAVEN/NGIMS. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006926.	3.6	8
26	Development of infrared Echelle spectrograph and mid-infrared heterodyne spectrometer on a small telescope at Haleakala, Hawaii for planetary observation. Proceedings of SPIE, 2014, , .	0.8	7
27	Search for hydrogen peroxide in the Martian atmosphere by the Planetary Fourier Spectrometer onboard Mars Express. Icarus, 2015, 245, 177-183.	2.5	7
28	Marsâ€™ atmospheric neon suggests volatile-rich primitive mantle. Icarus, 2021, 370, 114685.	2.5	7
29	Variations in Vertical CO/CO₂ Profiles in the Martian Mesosphere and Lower Thermosphere Measured by the ExoMars TGO/NOMAD: Implications of Variations in Eddy Diffusion Coefficient. Geophysical Research Letters, 2022, 49, .	4.0	7
30	Stability of Atmospheric Redox States of Early Mars Inferred from Time Response of the Regulation of H and O Losses. Astrophysical Journal, 2021, 912, 135.	4.5	6
31	Determination of the Venus eddy diffusion profile from CO and CO2 profiles using SOIR/Venus Express observations. Icarus, 2021, 361, 114388.	2.5	6
32	Intense Zonal Wind in the Martian Mesosphere During the 2018 Planetâ€Encircling Dust Event Observed by Groundâ€Based Infrared Heterodyne Spectroscopy. Geophysical Research Letters, 2021, 48, e2021GL092413.	4.0	4
33	The Lunar Radar Sounder (LRS) Onboard the Kaguya (SELENE) Spacecraft. , 2010, , 145-192.		2
34	Latitudinal dependence of the solar wind density derived from remote sensing measurements using interplanetary Lyman Î± emission from 1999 to 2002. Earth, Planets and Space, 2009, 61, 373-382.	2.5	1
35	UV optical measurements of the Nozomi spacecraft interpreted with a two-component LIC-flow model(Corrigendum). Astronomy and Astrophysics, 2014, 566, C1.	5.1	1
36	Optical and IR observations of planetary and exoplanetary atmospheres. SPIE Newsroom, 0, , .	0.1	1

#	Article	IF	Citations
37	High-contrast apodization baffle for instruments onboard solar system exploration missions. , 2018, , .		1
38	Evaluation of a method to retrieve temperature and wind velocity profiles of the Venusian nightside mesosphere from mid-infrared CO2 absorption line observed by heterodyne spectroscopy. Earth, Planets and Space, 2020, 72, .	2.5	1
39	Development of PLANETS telescope and visible-infrared spectrometer for monitoring of planetary and exoplanetary atmospheres. , 2018, , .		0
40	Design for stray-light reduction to a Martian ionospheric imager. Applied Optics, 2020, 59, 9937.	1.8	0