Takeshi Kuroda

List of Publications by Year
in descending order

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41 papers	1,010 citations	471509 17 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	933 citing authors

#	Article	IF	Citations
1	Can we constrain the origin of Mars' recurring slope lineae using atmospheric observations?. Icarus, 2022, 371, 114688.	2.5	0
2	Impact of dust loading on ozone, winds and heating rates in the atmosphere of mars: Seasonal variability, climatology and SPICAM observations. Planetary and Space Science, 2022, 212, 105424.	1.7	5
3	Observation Capability of a Ground-Based Terahertz Radiometer for Vertical Profiles of Oxygen and Water Abundances in Martian Atmosphere. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	1
4	Evolution of ice sheets on early Mars with subglacial river systems. Icarus, 2022, 385, 115117.	2.5	4
5	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
6	Generation of gravity waves from thermal tides in the Venus atmosphere. Nature Communications, 2021, 12, 3682.	12.8	9
7	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
8	Global climate and river transport simulations of early Mars around the Noachian and Hesperian boundary. Icarus, 2021, 368, 114618.	2.5	16
9	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
10	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
11	Gravity Wave Activity in the Atmosphere of Mars During the 2018 Global Dust Storm: Simulations With a Highâ€Resolution Model. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006556.	3.6	27
12	A Warm Layer in the Nightside Mesosphere of Mars. Geophysical Research Letters, 2020, 47, e2019GL085646.	4.0	9
13	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
14	Concept of small satellite UV/visible imaging spectrometer optimized for tropospheric NO2 measurements in air quality monitoring. Acta Astronautica, 2019, 160, 421-432.	3.2	2
15	Annual Cycle of Gravity Wave Activity Derived From a Highâ€Resolution Martian General Circulation Model. Journal of Geophysical Research E: Planets, 2019, 124, 1618-1632.	3.6	21
16	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.	3.6	14
17	Mars submillimeter sensor on microsatellite: sensor feasibility study. Geoscientific Instrumentation, Methods and Data Systems, 2018, 7, 331-341.	1.6	6
18	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

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19	Role of stationary and transient waves in CO₂ supersaturation during northern winter in the Martian atmosphere revealed by MGS radio occultation measurements. Journal of Geophysical Research E: Planets, 2017, 122, 912-926.	3.6	4
20	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
21	Global Distribution of Gravity Wave Sources and Fields in the Martian Atmosphere during Equinox and Solstice Inferred from a High-Resolution General Circulation Model. Journals of the Atmospheric Sciences, 2016, 73, 4895-4909.	1.7	20
22	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
23	Dust storm and electron density in the equatorial D region ionosphere of Mars: Comparison with Earth's ionosphere from rocket measurements in Brazil. Journal of Geophysical Research: Space Physics, 2015, 120, 8968-8977.	2.4	10
24	A global view of gravity waves in the Martian atmosphere inferred from a highâ€resolution general circulation model. Geophysical Research Letters, 2015, 42, 9213-9222.	4.0	24
25	Highâ€altitude gravity waves in the Martian thermosphere observed by MAVEN/NGIMS and modeled by a gravity wave scheme. Geophysical Research Letters, 2015, 42, 8993-9000.	4.0	79
26	Parameterization of radiative heating and cooling rates in the stratosphere of Jupiter. Icarus, 2014, 242, 149-157.	2.5	13
27	Estimation of changes in the composition of the Martian atmosphere caused by CO₂ condensation from GRS Ar measurements and its application to the rederivation of MGS radio occultation measurements. Journal of Geophysical Research E: Planets, 2014, 119, 2510-2521.	3.6	8
28	Carbon dioxide ice clouds, snowfalls, and baroclinic waves in the northern winter polar atmosphere of Mars. Geophysical Research Letters, 2013, 40, 1484-1488.	4.0	35
29	General circulation modeling of the Martian upper atmosphere during global dust storms. Journal of Geophysical Research E: Planets, 2013, 118, 2234-2246.	3.6	49
30	General circulation modeling of the Martian upper atmosphere during global dust storms. Journal of Geophysical Research E: Planets, 2013, 118, n/a-n/a.	3.6	10
31	Overview of the Martian atmospheric submillimetre sounder FIRE. Planetary and Space Science, 2012, 63-64, 62-82.	1.7	18
32	Influence of dust on the dynamics of the martian atmosphere above the first scale height. Aeolian Research, 2011, 3, 145-156.	2.7	23
33	On Forcing the Winter Polar Warmings in the Martian Middle Atmosphere during Dust Storms. Journal of the Meteorological Society of Japan, 2009, 87, 913-921.	1.8	28
34	THE MARTIAN ATMOSPHERE AS A SUBMILLIMETER FLUX CALIBRATION SOURCE USING AN OPAQUE MOLECULAR LINE: IMPACTS OF TEMPERATURE ERRORS PROVIDED BY GENERAL CIRCULATION MODELS. , 2009, , 17-23.		0
35	Semiannual oscillations in the atmosphere of Mars. Geophysical Research Letters, 2008, 35, .	4.0	22
36	Seasonal changes of the baroclinic wave activity in the northern hemisphere of Mars simulated with a GCM. Geophysical Research Letters, 2007, 34, .	4.0	37

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37	Maintenance of zonal wind variability associated with the annular mode on Mars. Geophysical Research Letters, 2007, 34, .	4.0	8
38	MARTIAN ATMOSPHERE DURING THE 2001 GLOBAL DUST STORM: OBSERVATIONS WITH SWAS AND SIMULATIONS WITH A GENERAL CIRCULATION MODEL. , 2006, , 145-154.		0
39	Simulation of the Martian Atmosphere Using a CCSR/NIES AGCM. Journal of the Meteorological Society of Japan, 2005, 83, 1-19.	1.8	75
40	Description and climatology of a new general circulation model of the Martian atmosphere. Journal of Geophysical Research, 2005, 110, .	3.3	63
41	WIND VELOCITIES OF DIFFERENT SEASONS AND DUST OPACITIES ON MARS: COMPARISON BETWEEN MICROWAVE OBSERVATIONS AND SIMULATIONS BY GENERAL CIRCULATION MODELS. , 0, , 261-270.		0