

# Takuya Hara

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,252  
citations

218677

26  
h-index

214800

47  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1643  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	8.1	332
2	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. <i>Icarus</i> , 2018, 315, 146-157.	2.5	216
3	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	12.6	166
4	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9142-9148.	4.0	115
5	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	12.6	90
6	MAVEN observations of the solar cycle 24 space weather conditions at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2768-2794.	2.4	78
7	Global distribution and parameter dependences of gravity wave activity in the Martian upper thermosphere derived from MAVEN/NGIMS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2374-2397.	2.4	66
8	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018, 45, 4559-4568.	4.0	66
9	Magnetic reconnection in the near-Mars magnetotail: MAVEN observations. <i>Geophysical Research Letters</i> , 2015, 42, 8838-8845.	4.0	59
10	Magnetotail dynamics at Mars: Initial MAVEN observations. <i>Geophysical Research Letters</i> , 2015, 42, 8828-8837.	4.0	52
11	Comparative pick-up ion distributions at Mars and Venus: Consequences for atmospheric deposition and escape. <i>Planetary and Space Science</i> , 2015, 115, 35-47.	1.7	51
12	Response of Mars O <sup>+</sup> pickup ions to the 8 March 2015 ICME: Inferences from MAVEN data-based models. <i>Geophysical Research Letters</i> , 2015, 42, 9095-9102.	4.0	47
13	Statistical Study of Relations Between the Induced Magnetosphere, Ion Composition, and Pressure Balance Boundaries Around Mars Based On MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9723-9737.	2.4	44
14	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018, 45, 4550-4558.	4.0	44
15	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5114-5131.	2.4	40
16	Martian magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6185-6209.	2.4	40
17	MAVEN Observations of Solar Wind-Driven Magnetosonic Waves Heating the Martian Dayside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4129-4149.	2.4	40
18	Mars heavy ion precipitating flux as measured by Mars Atmosphere and Volatile Evolution. <i>Geophysical Research Letters</i> , 2015, 42, 9135-9141.	4.0	39

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19	MAVEN observations of partially developed Kelvinâ€Helmholtz vortices at Mars. Geophysical Research Letters, 2016, 43, 4763-4773.	4.0	38
20	MAVEN observations of tail current sheet flapping at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 4308-4324.	2.4	37
21	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. Geophysical Research Letters, 2016, 43, 1426-1434.	4.0	36
22	Marsward and tailward ions in the nearâ€Mars magnetotail: MAVEN observations. Geophysical Research Letters, 2015, 42, 8925-8932.	4.0	34
23	Heavy-ion flux enhancement in the vicinity of the Martian ionosphere during CIR passage: Mars Express ASPERA-3 observations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	29
24	Statistical Study of Heavy Ion Outflows From Mars Observed in the Martianâ€Induced Magnetotail by MAVEN. Journal of Geophysical Research: Space Physics, 2019, 124, 5482-5497.	2.4	29
25	On the origins of magnetic flux ropes in nearâ€Mars magnetotail current sheets. Geophysical Research Letters, 2017, 44, 7653-7662.	4.0	28
26	MAVEN observations of electronâ€induced whistler mode waves in the Martian magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 9717-9731.	2.4	27
27	On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. Journal of Geophysical Research E: Planets, 2017, 122, 2401-2428.	3.6	27
28	Highâ€Altitude Closed Magnetic Loops at Mars Observed by MAVEN. Geophysical Research Letters, 2017, 44, 11,229.	4.0	26
29	Timeâ€dispersed ion signatures observed in the Martian magnetosphere by MAVEN. Geophysical Research Letters, 2015, 42, 8910-8916.	4.0	25
30	On Mars's Atmospheric Sputtering After MAVEN's First Martian Year of Measurements. Geophysical Research Letters, 2018, 45, 4685-4691.	4.0	25
31	Formation processes of flux ropes downstream from Martian crustal magnetic fields inferred from Gradâ€Shafranov reconstruction. Journal of Geophysical Research: Space Physics, 2014, 119, 7947-7962.	2.4	22
32	Cold Dense Ion Outflow Observed in the Martianâ€Induced Magnetotail by MAVEN. Geophysical Research Letters, 2018, 45, 5283-5289.	4.0	22
33	MAVEN observations of a giant ionospheric flux rope near Mars resulting from interaction between the crustal and interplanetary draped magnetic fields. Journal of Geophysical Research: Space Physics, 2017, 122, 828-842.	2.4	21
34	The spatial structure of Martian magnetic flux ropes recovered by the Gradâ€Shafranov reconstruction technique. Journal of Geophysical Research: Space Physics, 2014, 119, 1262-1271.	2.4	20
35	Ion Jets Within Current Sheets in the Martian Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028576.	2.4	20
36	MAVEN observations on a hemispheric asymmetry of precipitating ions toward the Martian upper atmosphere according to the upstream solar wind electric field. Journal of Geophysical Research: Space Physics, 2017, 122, 1083-1101.	2.4	19

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37	MAVEN observations of energy-time dispersed electron signatures in Martian crustal magnetic fields. <i>Geophysical Research Letters</i> , 2016, 43, 939-944.	4.0	18
38	Estimation of the spatial structure of a detached magnetic flux rope at Mars based on simultaneous MAVEN plasma and magnetic field observations. <i>Geophysical Research Letters</i> , 2015, 42, 8933-8941.	4.0	17
39	Electric Mars: A large trans-terminator electric potential drop on closed magnetic field lines above Utopia Planitia. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2260-2271.	2.4	16
40	Evidence for Crustal Magnetic Field Control of Ions Precipitating Into the Upper Atmosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8572-8586.	2.4	16
41	Statistical properties of planetary heavy-ion precipitations toward the Martian ionosphere obtained from Mars Express. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5348-5357.	2.4	14
42	MAVEN observations of magnetic flux ropes with a strong field amplitude in the Martian magnetosheath during the ICME passage on 8 March 2015. <i>Geophysical Research Letters</i> , 2016, 43, 4816-4824.	4.0	14
43	Dynamic response of the Martian ionosphere to an interplanetary shock: Mars Express and MAVEN observations. <i>Geophysical Research Letters</i> , 2017, 44, 9116-9123.	4.0	14
44	MAVEN Survey of Magnetic Flux Rope Properties in the Martian Ionosphere: Comparison With Three Types of Formation Mechanisms. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093296.	4.0	13
45	The Mars system revealed by the Martian Moons eXploration mission. <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	11
46	Ion Heating in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,612.	2.4	8
47	Locally Generated ULF Waves in the Martian Magnetosphere: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8707-8726.	2.4	8
48	Asymmetric penetration of shocked solar wind down to 400 km altitudes at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6874-6883.	2.4	7
49	MAVEN Case Studies of Plasma Dynamics in Low-Altitude Crustal Magnetic Field at Mars 1: Dayside Ion Spikes Associated With Radial Crustal Magnetic Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1239-1261.	2.4	6
50	Variability of Precipitating Ion Fluxes During the September 2017 Event at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 420-432.	2.4	6
51	Influence of the Solar Wind Dynamic Pressure on the Ion Precipitation: MAVEN Observations and Simulation Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028183.	2.4	6
52	Influence of Extreme Ultraviolet Irradiance Variations on the Precipitating Ion Flux From MAVEN Observations. <i>Geophysical Research Letters</i> , 2019, 46, 7761-7768.	4.0	5
53	A Comparative Study of Magnetic Flux Ropes in the Nightside Induced Magnetosphere of Mars and Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
54	Space Weather Storm Responses at Mars: Lessons from A Weakly Magnetized Terrestrial Planet. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 211-217.	0.0	0