

# Naoki Terada

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

2,646  
citations

236833

25  
h-index

206029

48  
g-index

105  
all docs

105  
docs citations

105  
times ranked

2507  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mars system revealed by the Martian Moons eXploration mission. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	11
2	Martian moons exploration MMX: sample return mission to Phobos elucidating formation processes of habitable planets. <i>Earth, Planets and Space</i> , 2022, 74, .	0.9	51
3	Modeling of Diffuse Auroral Emission at Mars: Contribution of MeV Protons. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	10
4	Effect of Meteoric Ions on Ionospheric Conductance at Jupiter. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
5	Variations in Vertical CO/CO <sub>2</sub> 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
6	Formation Mechanisms of the Molecular Ion Polar Plume and Its Contribution to Ion Escape From Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	4
7	Multispecies MHD Study of Ion Escape at Ancient Mars: Effects of an Intrinsic Magnetic Field and Solar XUV Radiation. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	2
8	Effects of the IMF Direction on Atmospheric Escape From a Mars-like Planet Under Weak Intrinsic Magnetic Field Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028485.	0.8	8
9	Stability of Atmospheric Redox States of Early Mars Inferred from Time Response of the Regulation of H and O Losses. <i>Astrophysical Journal</i> , 2021, 912, 135.	1.6	6
10	Intense Zonal Wind in the Martian Mesosphere During the 2018 Planet-Encircling Dust Event Observed by Ground-Based Infrared Heterodyne Spectroscopy. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092413.	1.5	4
11	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	32
12	Global climate and river transport simulations of early Mars around the Noachian and Hesperian boundary. <i>Icarus</i> , 2021, 368, 114618.	1.1	16
13	Mars <sup>TM</sup> atmospheric neon suggests volatile-rich primitive mantle. <i>Icarus</i> , 2021, 370, 114685.	1.1	7
14	Seasonal and Dust-Related Variations in the Dayside Thermospheric and Ionospheric Compositions of Mars Observed by MAVEN/NGIMS. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006926.	1.5	8
15	Surface environment of Phobos and Phobos simulant UTPS. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	15
16	In situ observations of ions and magnetic field around Phobos: the mass spectrum analyzer (MSA) for the Martian Moons eXploration (MMX) mission. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	14
17	Science operation plan of Phobos and Deimos from the MMX spacecraft. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	22
18	A coupled atmosphere-hydrosphere global climate model of early Mars: A "cool and wet" scenario for the formation of water channels. <i>Icarus</i> , 2020, 338, 113567.	1.1	24

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19	Vertical Propagation of Wave Perturbations in the Middle Atmosphere on Mars by MAVEN/IUVS. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006481.	1.5	18
20	Statistical study of non-adiabatic energization and transport in Kelvin-Helmholtz vortices at mercury. Planetary and Space Science, 2020, 193, 105079.	0.9	4
21	Martian Oxygen and Hydrogen Upper Atmospheres Responding to Solar and Dust Storm Drivers: Hisaki Space Telescope Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006500.	1.5	6
22	MESSENGER Observations of Planetary Ion Characteristics in the Vicinity of Kelvin-Helmholtz Vortices at Mercury. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027871.	0.8	3
23	Seasonal and Latitudinal Variations of Dayside $N_2/CO_2$ Ratio in the Martian Thermosphere Derived From MAVEN IUVS Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006378.	1.5	8
24	Impact-induced amino acid formation on Hadean Earth and Noachian Mars. Scientific Reports, 2020, 10, 9220.	1.6	25
25	A Warm Layer in the Nightside Mesosphere of Mars. Geophysical Research Letters, 2020, 47, e2019GL085646.	1.5	9
26	Effects of an Intrinsic Magnetic Field on Ion Loss From Ancient Mars Based on Multispecies MHD Simulations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026945.	0.8	24
27	Vertical Coupling Between the Cloud-Level Atmosphere and the Thermosphere of Venus Inferred From the Simultaneous Observations by Hisaki and Akatsuki. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006192.	1.5	2
28	Design for stray-light reduction to a Martian ionospheric imager. Applied Optics, 2020, 59, 9937.	0.9	0
29	Suzaku detection of enigmatic geocoronal solar wind charge exchange event associated with coronal mass ejection. Publication of the Astronomical Society of Japan, 2019, 71, .	1.0	10
30	Highly Oxidizing Aqueous Environments on Early Mars Inferred From Scavenging Pattern of Trace Metals on Manganese Oxides. Journal of Geophysical Research E: Planets, 2019, 124, 1282-1295.	1.5	19
31	Sodium Ion Dynamics in the Magnetospheric Flanks of Mercury. Geophysical Research Letters, 2018, 45, 595-601.	1.5	10
32	Study of the Transition from MRI to Magnetic Turbulence via Parasitic Instability by a High-order MHD Simulation Code. Astrophysical Journal, 2018, 853, 174.	1.6	5
33	Effects of a Weak Intrinsic Magnetic Field on Atmospheric Escape From Mars. Geophysical Research Letters, 2018, 45, 9336-9343.	1.5	29
34	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.	1.1	216
35	High-contrast apodization baffle for instruments onboard solar system exploration missions. , 2018, , .		1
36	Dawn-dusk difference of periodic oxygen EUV dayglow variations at Venus observed by Hisaki. Icarus, 2017, 292, 102-110.	1.1	7

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37	MAVEN NGIMS observations of atmospheric gravity waves in the Martian thermosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 2310-2335.	0.8	88
38	Planetary plasma and atmospheres explored by space missions in Japan: Hisaki, Akatsuki, and beyond. Journal of Physics: Conference Series, 2017, 869, 012094.	0.3	0
39	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.	0.8	66
40	A full-particle Martian upper thermosphere-exosphere model using the DSMC method. Journal of Geophysical Research E: Planets, 2016, 121, 1429-1444.	1.5	5
41	Comparison of the Martian thermospheric density and temperature from IUVS/MAVEN data and general circulation modeling. Geophysical Research Letters, 2016, 43, 3095-3104.	1.5	34
42	Periodic variations of oxygen EUV dayglow in the upper atmosphere of Venus: Hisaki/EXCEED observations. Journal of Geophysical Research E: Planets, 2015, 120, 2037-2052.	1.5	14
43	Harmonics of whistler-mode waves near the Moon. Earth, Planets and Space, 2015, 67, 36.	0.9	9
44	Field-of-View Guiding Camera on the HISAKI (SPRINT-A) Satellite. Space Science Reviews, 2014, 184, 259-274.	3.7	46
45	Extreme Ultraviolet Radiation Measurement for Planetary Atmospheres/Magnetospheres from the Earth-Orbiting Spacecraft (Extreme Ultraviolet Spectroscopy for Exospheric Dynamics: EXCEED). Space Science Reviews, 2014, 184, 237-258.	3.7	68
46	Group-standing of whistler mode waves near the Moon. Journal of Geophysical Research: Space Physics, 2014, 119, 2634-2648.	0.8	5
47	Inner heliosphere MHD modeling system applicable to space weather forecasting for the other planets. Space Weather, 2014, 12, 187-204.	1.3	68
48	Reduction of the field-aligned potential drop in the polar cap during large geomagnetic storms. Journal of Geophysical Research: Space Physics, 2013, 118, 4864-4874.	0.8	6
49	Estimation of the permittivity and porosity of the lunar uppermost basalt layer based on observations of impact craters by SELENE. Journal of Geophysical Research E: Planets, 2013, 118, 1453-1467.	1.5	27
50	A simulation study of Io-related Jovian decametric radiation: Control factor of occurrence probability. Journal of Geophysical Research: Space Physics, 2013, 118, 5082-5098.	0.8	0
51	Suzaku Observation of Strong Solar-Wind Charge-Exchange Emission from the Terrestrial Exosphere during a Geomagnetic Storm. Publication of the Astronomical Society of Japan, 2013, 65, .	1.0	24
52	EFFECT OF BACKGROUND MAGNETIC FIELD ON TURBULENCE DRIVEN BY MAGNETOROTATIONAL INSTABILITY IN ACCRETION DISKS. Astrophysical Journal, 2013, 767, 165.	1.6	4
53	Dependence of O <sup>+</sup> escape rate from the Venusian upper atmosphere on IMF directions. Geophysical Research Letters, 2013, 40, 1682-1685.	1.5	39
54	Effects of the surface conductivity and the IMF strength on the dynamics of planetary ions in Mercury's magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 3233-3242.	0.8	15

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55	A simulation study of the current-voltage relationship of the Io tail aurora. Journal of Geophysical Research, 2012, 117, .	3.3	10
56	Storm-time electron density enhancement in the cleft ion fountain. Journal of Geophysical Research, 2012, 117, .	3.3	6
57	Statistical study of broadband whistler-mode waves detected by Kaguya near the Moon. Geophysical Research Letters, 2012, 39, .	1.5	22
58	Centrifugally stimulated exospheric ion escape at Mercury. Geophysical Research Letters, 2012, 39, .	1.5	14
59	Photoelectron flows in the polar wind during geomagnetically quiet periods. Journal of Geophysical Research, 2012, 117, .	3.3	26
60	Suzaku observations of charge exchange emission from solar system objects. Astronomische Nachrichten, 2012, 333, 319-323.	0.6	1
61	Vertical connection from the tropospheric activities to the ionospheric longitudinal structure simulated by a new Earth's whole atmosphere-ionosphere coupled model. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	109
62	Solar zenith angle dependence of plasma density and temperature in the polar cap ionosphere and low-altitude magnetosphere during geomagnetically quiet periods at solar maximum. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	32
63	O <sup>+</sup> outflow channels around Venus controlled by directions of the interplanetary magnetic field: Observations of high energy O <sup>+</sup> ions around the terminator. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	22
64	An EUV spectrometer on earth-orbiting satellite for planetary science. Proceedings of SPIE, 2011, , .	0.8	0
65	Solar system planets observed with Suzaku. Advances in Space Research, 2011, 47, 411-418.	1.2	5
66	X-Ray Observation of Mars at Solar Minimum with Suzaku. Publication of the Astronomical Society of Japan, 2011, 63, S705-S712.	1.0	5
67	Vlasov simulation of the interaction between the solar wind and a dielectric body. Physics of Plasmas, 2011, 18, 012908.	0.7	20
68	Statistical analysis of monochromatic whistler waves near the Moon detected by Kaguya. Annales Geophysicae, 2011, 29, 889-893.	0.6	24
69	Enhancement of Terrestrial Diffuse X-Ray Emission Associated with Coronal Mass Ejection and Geomagnetic Storm. Publication of the Astronomical Society of Japan, 2011, 63, S691-S704.	1.0	26
70	The role of the electron convection term for the parallel electric field and electron acceleration in MHD simulations. Physics of Plasmas, 2011, 18, .	0.7	1
71	Earth-orbiting extreme ultraviolet spectroscopic imaging mission for planetary space science. , 2010, , .		0
72	DISCOVERY OF DIFFUSE HARD X-RAY EMISSION AROUND JUPITER WITH SUZAKU. Astrophysical Journal Letters, 2010, 709, L178-L182.	3.0	22

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73	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010, 206, 139-151.	1.1	108
74	Time Variability of the Geocoronal Solar-Wind Charge Exchange in the Direction of the Celestial Equator. <i>Publication of the Astronomical Society of Japan</i> , 2010, 62, 981-986.	1.0	34
75	EUV spectroscopic imaging observations of the first mission of Japanese small scientific satellites series. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
76	Observations of very low energy (<math>\leq 10\text{ eV}</math>) ion outflows dominated by $\text{O}^{+}$ ions in the region of enhanced electron density in the polar cap magnetosphere during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
77	Asymmetrical features of frequency and intensity in the related Jovian decametric radio sources: Modeling of the Jupiter system. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	2
78	The HLLD Approximate Riemann Solver for Magnetospheric Simulation. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 2236-2242.	0.6	18
79	Comparative Study of Global MHD Simulations of the Terrestrial Magnetosphere With Different Numerical Schemes. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 2229-2235.	0.6	0
80	Performance Measurement of Magnetohydrodynamic Code for Space Plasma on the Various Scalar-Type Supercomputer Systems. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 2254-2259.	0.6	5
81	Atmosphere and Water Loss from Early Mars Under Extreme Solar Wind and Extreme Ultraviolet Conditions. <i>Astrobiology</i> , 2009, 9, 55-70.	1.5	86
82	Dynamics of magnetospheric ions at Mercury : some open questions awaiting Bepi Colombo measurements. , 2009, , .		0
83	MHD and Kinetic Modeling of the Ionospheres of Venus and Mars. , 2009, , .		0
84	Hybrid simulations of the $\text{O}^{+}$ ion escape from Venus: Influence of the solar wind density and the IMF x component. <i>Advances in Space Research</i> , 2009, 43, 1436-1441.	1.2	16
85	Solar wind control of the hot oxygen corona around Mars. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	9
86	A three-dimensional, multispecies, comprehensive MHD model of the solar wind interaction with the planet Venus. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	44
87	Hermean Magnetosphere-Solar Wind Interaction. <i>Space Sciences Series of ISSI</i> , 2008, , 347-368.	0.0	3
88	Numerical Calculation on a Top-Hat Plasma Particle Analyzer Using a Boundary-Fitted Coordinate System. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 1178-1183.	0.6	1
89	Coronal Mass Ejection (CME) Activity of Low Mass M Stars as An Important Factor for The Habitability of Terrestrial Exoplanets. II. CME-Induced Ion Pick Up of Earth-like Exoplanets in Close-In Habitable Zones. <i>Astrobiology</i> , 2007, 7, 185-207.	1.5	256
90	Time variation of nonthermal escape of oxygen from Mars after solar wind dynamic pressure enhancement. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	11

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91	Ion energization during substorms at Mercury. <i>Planetary and Space Science</i> , 2007, 55, 1502-1508.	0.9	16
92	Hermean Magnetosphere-Solar Wind Interaction. <i>Space Science Reviews</i> , 2007, 132, 529-550.	3.7	48
93	Effect of the motional electric field on the Venus nightside ionopause. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	1
94	Atmospheric and water loss from early Venus. <i>Planetary and Space Science</i> , 2006, 54, 1425-1444.	0.9	120
95	Terrestrial nitrogen and noble gases in lunar soils. <i>Nature</i> , 2005, 436, 655-659.	13.7	99
96	A comparison of magnetohydrodynamic instabilities at the Martian ionopause. <i>Advances in Space Research</i> , 2005, 36, 2049-2056.	1.2	16
97	Electron dynamics during substorm dipolarization in Mercury's magnetosphere. <i>Annales Geophysicae</i> , 2005, 23, 3389-3398.	0.6	23
98	Global hybrid model of the solar wind interaction with the Venus ionosphere: ion escape processes. <i>Advances in Space Research</i> , 2004, 33, 161-166.	1.2	28
99	EUV imaging of near-Venus space. <i>Advances in Space Research</i> , 2004, 33, 1932-1937.	1.2	8
100	Global hybrid simulation of the Kelvin-Helmholtz instability at the Venus ionopause. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 30-1-SMP 30-20.	3.3	130
101	Unsteady behavior of supercritical perpendicular shock waves in a multiple-ion-species plasma. <i>Advances in Space Research</i> , 1999, 24, 113-116.	1.2	3
102	Storm-time magnetic field variations observed by the ETS-VI satellite. <i>Earth, Planets and Space</i> , 1998, 50, 853-864.	0.9	17
103	EXTREME ULTRAVIOLET SPECTROSCOPE FOR EXOSPHERIC DYNAMICS EXPLORE (EXCEED). , 0, , 579-591.		2