

Ronan Modolo

List of Publications by Year in descending order

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57
papers

2,486
citations

201674

27
h-index

197818

49
g-index

70
all docs

70
docs citations

70
times ranked

1470
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion density and phase space density distribution of planetary ions Na+, O+ and He+ in Mercury's magnetosphere. <i>Icarus</i> , 2022, 372, 114734.	2.5	4
2	Modeling the Impact of a Strong X-class Solar Flare on the Planetary Ion Composition in Mercury's Magnetosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
3	Seasonal variations of Mg and Ca in the exosphere of Mercury. <i>Icarus</i> , 2022, 384, 115081.	2.5	1
4	LatHyS global hybrid simulation of the BepiColombo second Venus flyby. <i>Planetary and Space Science</i> , 2022, 218, 105499.	1.7	2
5	Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. <i>Planetary and Space Science</i> , 2021, 201, 105214.	1.7	24
6	Induced Magnetic Fields and Plasma Motions in the Inner Part of the Martian Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	14
7	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
8	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
9	Recovery Timescales of the Dayside Martian Magnetosphere to IMF Variability. <i>Geophysical Research Letters</i> , 2019, 46, 10977-10986.	4.0	15
10	The Induced Magnetosphere of Mars: Asymmetrical Topology of the Magnetic Field Lines. <i>Geophysical Research Letters</i> , 2019, 46, 12722-12730.	4.0	25
11	MAVEN and MEX Multi-Instrument Study of the Dayside of the Martian Induced Magnetospheric Structure Revealed by Pressure Analyses. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8564-8589.	2.4	39
12	First In Situ Evidence of Mars Nonthermal Exosphere. <i>Geophysical Research Letters</i> , 2019, 46, 4144-4150.	4.0	7
13	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
14	Oxygen Ion Energization at Mars: Comparison of MAVEN and Mars Express Observations to Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1678-1689.	2.4	21
15	Effect of the Lateral Exospheric Transport on the Horizontal Hydrogen Distribution Near the Exobase of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2441-2454.	2.4	6
16	On Mars's Atmospheric Sputtering After MAVEN's First Martian Year of Measurements. <i>Geophysical Research Letters</i> , 2018, 45, 4685-4691.	4.0	25
17	The LatHyS database for planetary plasma environment investigations: Overview and a case study of data/model comparisons. <i>Planetary and Space Science</i> , 2018, 150, 13-21.	1.7	10
18	Reply to comment "On the hydrogen escape: Comment to variability of the hydrogen in the Martian upper atmosphere as simulated by a 3D atmosphere-exosphere coupling by J.-Y. Chaufray et al." by V. Krasnopolsky, <i>Icarus</i> , 281, 262. <i>Icarus</i> , 2018, 301, 132-135.	2.5	2

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19	Effects of the Crustal Magnetic Fields and Changes in the IMF Orientation on the Magnetosphere of Mars: MAVEN Observations and LatHyS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5315-5333.	2.4	21
20	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3714-3726.	2.4	15
21	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
22	Responses of the Martian Magnetosphere to an Interplanetary Coronal Mass Ejection: MAVEN Observations and LatHyS Results. <i>Geophysical Research Letters</i> , 2018, 45, 7891-7900.	4.0	19
23	On the orbital variability of Ganymede's atmosphere. <i>Icarus</i> , 2017, 293, 185-198.	2.5	47
24	Solar Wind Interaction and Atmospheric Escape. , 2017, , 464-496.		18
25	On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2401-2428.	3.6	27
26	Mars's solar wind interaction: LatHyS, an improved parallel 3D multispecies hybrid model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6378-6399.	2.4	54
27	3D magnetospheric parallel hybrid multi-grid method applied to planet's plasma interactions. <i>Journal of Computational Physics</i> , 2016, 309, 295-313.	3.8	15
28	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. <i>Space Science Reviews</i> , 2015, 195, 357-422.	8.1	99
29	Response of Mars O ⁺ 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
30	NATURE OF THE MHD AND KINETIC SCALE TURBULENCE IN THE MAGNETOSHEATH OF SATURN: CASSINI OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2015, 813, L29.	8.3	57
31	3D hybrid simulations of the interaction of a magnetic cloud with a bow shock. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6133-6151.	2.4	20
32	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
33	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9142-9148.	4.0	115
34	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	12.6	166
35	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	12.6	90
36	Variability of the hydrogen in the martian upper atmosphere as simulated by a 3D atmosphere-exosphere coupling. <i>Icarus</i> , 2015, 245, 282-294.	2.5	77

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37	Three-dimensional Martian ionosphere model: II. Effect of transport processes due to pressure gradients. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1614-1636.	3.6	51
38	Modelling Ganymede's neutral environment: A 3D test-particle simulation. <i>Icarus</i> , 2014, 229, 157-169.	2.5	30
39	Outflow and plasma acceleration in Titan's induced magnetotail: Evidence of magnetic tension forces. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9992.	2.4	4
40	A global hybrid model for Mercury's interaction with the solar wind: Case study of the dipole representation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	43
41	Dynamic Martian magnetosphere: Transient twist induced by a rotation of the IMF. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	31
42	Mars exospheric thermal and non-thermal components: Seasonal and local variations. <i>Icarus</i> , 2012, 221, 682-693.	2.5	51
43	Modeling of Venus, Mars, and Titan. <i>Space Science Reviews</i> , 2011, 162, 267-307.	8.1	26
44	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010, 206, 139-151.	2.5	108
45	Capture of solar wind alpha-particles by the Martian atmosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	25
46	Ionospheric storms on Mars: Impact of the corotating interaction region. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	61
47	Plasma boundary variability at Mars as observed by Mars Global Surveyor and Mars Express. <i>Annales Geophysicae</i> , 2009, 27, 3537-3550.	1.6	70
48	Asymmetry of plasma fluxes at Mars. ASPERA-3 observations and hybrid simulations. <i>Planetary and Space Science</i> , 2008, 56, 832-835.	1.7	20
49	Structure and dynamics of the solar wind/ionosphere interface on Mars: MEXASPERA and MEXMARSIS observations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	74
50	Electron densities in the upper ionosphere of Mars from the excitation of electron plasma oscillations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	97
51	Plasma environment of Mars as observed by simultaneous MEXASPERA and MEXMARSIS observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	54
52	Far plasma wake of Titan from the RPWS observations: A case study. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	22
53	Plasma environment in the wake of Titan from hybrid simulation: A case study. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	39
54	Cold ionospheric plasma in Titan's magnetotail. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	25

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55	Mars solar wind interaction: Formation of the Martian corona and atmospheric loss to space. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	115
56	Simulated solar wind plasma interaction with the Martian exosphere: influence of the solar EUV flux on the bow shock and the magnetic pile-up boundary. <i>Annales Geophysicae</i> , 2006, 24, 3403-3410.	1.6	56
57	Influence of the solar EUV flux on the Martian plasma environment. <i>Annales Geophysicae</i> , 2005, 23, 433-444.	1.6	129