Hermann J Opgenoorth

List of Publications by Year
in descending order

52 papers	1,805 citations	279798 23 h-index	265206 42 g-index
63 all docs	63 docs citations	63 times ranked	1906 citing authors

#	Article	IF	Citations
1	Marsâ€™ plasma system. Scientific potential of coordinated multipoint missions: â€œThe next generationâ€• Experimental Astronomy, 2022, 54, 641-676.	3.7	9
2	The Impact of Energetic Particles on the Martian Ionosphere During a Full Solar Cycle of Radar Observations: Radar Blackouts. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	13
3	Distribution and Occurrence Frequency of dB/dt Spikes During Magnetic Storms 1980â€“2020. Space Weather, 2022, 20, .	3.7	14
4	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 3. Occurrence and Amplitude as Functions of Magnetic Latitude, Local Time, and Magnetic Disturbance Indices. Space Weather, 2021, 19, e2020SW002526.	3.7	15
5	Groundâ€Based Magnetometer Response to Impacting Magnetosheath Jets. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029115.	2.4	7
6	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. Planetary Science Journal, 2021, 2, 211.	3.6	6
7	Mars' Ionospheric Interaction With Comet C/2013 A1 Siding Spring's Coma at Their Closest Approach as Seen by Mars Express. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027344.	2.4	3
8	Interhemispheric Comparisons of Large Nighttime Magnetic Perturbation Events Relevant to GICs. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028128.	2.4	15
9	Mars Express Observations of Cold Plasma Structures in the Martian Magnetotail. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028056.	2.4	4
10	Origin of the Extended Mars Radar Blackout of September 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 4556-4568.	2.4	27
11	Model Evaluation Guidelines for Geomagnetic Index Predictions. Space Weather, 2018, 16, 2079-2102.	3.7	62
12	Recommendations for Nextâ€Generation Ground Magnetic Perturbation Validation. Space Weather, 2018, 16, 1912-1920.	3.7	27
13	International Collaboration Within the United Nations Committee on the Peaceful Uses of Outer Space: Framework for International Space Weather Services (2018-2030). Space Weather, 2018, 16, 428-433.	3.7	10
14	MARSIS Observations of Fieldâ€Aligned Irregularities and Ducted Radio Propagation in the Martian Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 6251-6263.	2.4	2
15	Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	2.4	87
16	On the Usage of Geomagnetic Indices for Data Selection in Internal Field Modelling. Space Science Reviews, 2017, 206, 61-90.	8.1	47
17	Mars plasma system response to solar wind disturbances during solar minimum. Journal of Geophysical Research: Space Physics, 2017, 122, 6611-6634.	2.4	24
18	One year in the Earth's magnetosphere: A global MHD simulation and spacecraft measurements. Space Weather, 2016, 14, 351-367.	3.7	13

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19	A survey of superthermal electron flux depressions, or â€œelectron holes,â€•within the illuminated Martian induced magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 4835-4857.	2.4	22
20	Plasma observations during the Mars atmospheric â€œplumeâ€•event of Marchâ€“April 2012. Journal of Geophysical Research: Space Physics, 2016, 121, 3139-3154.	2.4	10
21	Annual variations in the Martian bow shock location as observed by the Mars Express mission. Journal of Geophysical Research: Space Physics, 2016, 121, 11,474.	2.4	44
22	Modulation of the substorm current wedge by bursty bulk flows: 8 September 2002â€”Revisited. Journal of Geophysical Research: Space Physics, 2016, 121, 4466-4482.	2.4	14
23	Three-dimensional current systems and ionospheric effects associated with small dipolarization fronts. Journal of Geophysical Research: Space Physics, 2015, 120, 3739-3757.	2.4	16
24	Control of the topside Martian ionosphere by crustal magnetic fields. Journal of Geophysical Research: Space Physics, 2015, 120, 3042-3058.	2.4	45
25	SWARM observations of equatorial electron densities and topside GPS track losses. Geophysical Research Letters, 2015, 42, 2088-2092.	4.0	66
26	Effects of Saturn's magnetospheric dynamics on Titan's ionosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 8884-8898.	2.4	11
27	Total electron content in the Martian atmosphere: A critical assessment of the Mars Express MARSIS data sets. Journal of Geophysical Research: Space Physics, 2015, 120, 2166-2182.	2.4	32
28	Understanding space weather to shield society: A global road map for 2015â€“2025 commissioned by COSPAR and ILWS. Advances in Space Research, 2015, 55, 2745-2807.	2.6	256
29	Investigation of energy transport and thermospheric upwelling during quiet magnetospheric and ionospheric conditions from the studies of low- and middle-altitude cusp. Annales Geophysicae, 2015, 33, 623-635.	1.6	2
30	A quantitative study of magnetospheric magnetic field line deformation by a two-loop substorm current wedge. Annales Geophysicae, 2015, 33, 505-517.	1.6	6
31	Effects of a strong ICME on the Martian ionosphere as detected by Mars Express and Mars Odyssey. Journal of Geophysical Research: Space Physics, 2014, 119, 5891-5908.	2.4	41
32	Oblique reflections in the Mars Express MARSIS data set: Stable density structures in the Martian ionosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 3944-3960.	2.4	41
33	Determination of local plasma densities with the MARSIS radar: Asymmetries in the highâ€’altitude Martian ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 6228-6242.	2.4	38
34	Mars ionospheric response to solar wind variability. Journal of Geophysical Research: Space Physics, 2013, 118, 6558-6587.	2.4	42
35	Extreme densities in Titan's ionosphere during the T85 magnetosheath encounter. Geophysical Research Letters, 2013, 40, 2879-2883.	4.0	27
36	Solar cycle modulation of Titan's ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 5255-5264.	2.4	38

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37	Detection of currents and associated electric fields in Titan's ionosphere from Cassini data. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	23
38	Atmospheric erosion of Venus during stormy space weather. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	60
39	Supply of thermal ionospheric ions to the central plasma sheet. Journal of Geophysical Research, 2003, 108, .	3.3	54
40	Relative contribution of ionospheric conductivity and electric field to ionospheric current. Journal of Geophysical Research, 2002, 107, SIA 20-1.	3.3	19
41	Timing of Substorm Onset Signatures on the Ground and at Geostationary Orbit. Geophysical Research Letters, 2002, 29, 33-1.	4.0	1
42	Observations of the electric field fine structure associated with the westward traveling surge and large-scale auroral spirals. Journal of Geophysical Research, 1998, 103, 4125-4144.	3.3	48
43	OPPORTUNITIES FOR MAGNETOSPHERIC RESEARCH WITH COORDINATED CLUSTER AND GROUND-BASED OBSERVATIONS. , 1997, 79, 599-637.		9
44	Analysis of the substorm trigger phase using multiple ground-based instrumentation. Geophysical Research Letters, 1995, 22, 2065-2068.	4.0	14
45	Opportunities for Magnetospheric Research Using EISCAT/ESR and Cluster.. Journal of Geomagnetism and Geoelectricity, 1995, 47, 699-719.	0.9	11
46	Near-Earth substorm onset: A coordinated study. Geophysical Research Letters, 1994, 21, 1875-1878.	4.0	20
47	EISCAT observations of topside ionospheric ion outflows during auroral activity: Revisited. Journal of Geophysical Research, 1992, 97, 3019-3037.	3.3	175
48	Scattering of electromagnetic waves from a plasma: Enhanced ion acoustic fluctuations due to ionâ€ion twoâ€stream instabilities. Geophysical Research Letters, 1992, 19, 1919-1922.	4.0	56
49	Different Methods to Determine the Polar Cap Area.. Journal of Geomagnetism and Geoelectricity, 1992, 44, 1207-1214.	0.9	17
50	EISCAT observations of strong ion outflows from the Fâ€region ionosphere during auroral activity: Preliminary results. Geophysical Research Letters, 1989, 16, 727-730.	4.0	47
51	Characteristics of eastward drifting omega bands in the morning sector of the auroral oval. Journal of Geophysical Research, 1983, 88, 9171-9185.	3.3	98
52	Auroral Signatures of Substorm Recovery Phase: A Case Study. Geophysical Monograph Series, 0, , 333-341.	0.1	16