

# Hermann J Opgenoorth

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Understanding space weather to shield society: A global road map for 2015–2025 commissioned by COSPAR and ILWS. <i>Advances in Space Research</i> , 2015, 55, 2745-2807.	2.6	256
2	EISCAT observations of topside ionospheric ion outflows during auroral activity: Revisited. <i>Journal of Geophysical Research</i> , 1992, 97, 3019-3037.	3.3	175
3	Characteristics of eastward drifting omega bands in the morning sector of the auroral oval. <i>Journal of Geophysical Research</i> , 1983, 88, 9171-9185.	3.3	98
4	Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7865-7890.	2.4	87
5	SWARM observations of equatorial electron densities and topside GPS track losses. <i>Geophysical Research Letters</i> , 2015, 42, 2088-2092.	4.0	66
6	Model Evaluation Guidelines for Geomagnetic Index Predictions. <i>Space Weather</i> , 2018, 16, 2079-2102.	3.7	62
7	Atmospheric erosion of Venus during stormy space weather. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	60
8	Scattering of electromagnetic waves from a plasma: Enhanced ion acoustic fluctuations due to ion-ion two-stream instabilities. <i>Geophysical Research Letters</i> , 1992, 19, 1919-1922.	4.0	56
9	Supply of thermal ionospheric ions to the central plasma sheet. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	54
10	Observations of the electric field fine structure associated with the westward traveling surge and large-scale auroral spirals. <i>Journal of Geophysical Research</i> , 1998, 103, 4125-4144.	3.3	48
11	EISCAT observations of strong ion outflows from the F-region ionosphere during auroral activity: Preliminary results. <i>Geophysical Research Letters</i> , 1989, 16, 727-730.	4.0	47
12	On the Usage of Geomagnetic Indices for Data Selection in Internal Field Modelling. <i>Space Science Reviews</i> , 2017, 206, 61-90.	8.1	47
13	Control of the topside Martian ionosphere by crustal magnetic fields. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3042-3058.	2.4	45
14	Annual variations in the Martian bow shock location as observed by the Mars Express mission. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,474.	2.4	44
15	Mars ionospheric response to solar wind variability. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6558-6587.	2.4	42
16	Effects of a strong ICME on the Martian ionosphere as detected by Mars Express and Mars Odyssey. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5891-5908.	2.4	41
17	Oblique reflections in the Mars Express MARSIS data set: Stable density structures in the Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3944-3960.	2.4	41
18	Determination of local plasma densities with the MARSIS radar: Asymmetries in the high-altitude Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6228-6242.	2.4	38

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19	Solar cycle modulation of Titan's ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5255-5264.	2.4	38
20	Total electron content in the Martian atmosphere: A critical assessment of the Mars Express MARSIS data sets. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2166-2182.	2.4	32
21	Extreme densities in Titan's ionosphere during the T85 magnetosheath encounter. <i>Geophysical Research Letters</i> , 2013, 40, 2879-2883.	4.0	27
22	Recommendations for Next-Generation Ground Magnetic Perturbation Validation. <i>Space Weather</i> , 2018, 16, 1912-1920.	3.7	27
23	Origin of the Extended Mars Radar Blackout of September 2017. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4556-4568.	2.4	27
24	Mars plasma system response to solar wind disturbances during solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6611-6634.	2.4	24
25	Detection of currents and associated electric fields in Titan's ionosphere from Cassini data. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	23
26	A survey of superthermal electron flux depressions, or "electron holes," within the illuminated Martian induced magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4835-4857.	2.4	22
27	Near-Earth substorm onset: A coordinated study. <i>Geophysical Research Letters</i> , 1994, 21, 1875-1878.	4.0	20
28	Relative contribution of ionospheric conductivity and electric field to ionospheric current. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 20-1.	3.3	19
29	Different Methods to Determine the Polar Cap Area.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1992, 44, 1207-1214.	0.9	17
30	Auroral Signatures of Substorm Recovery Phase: A Case Study. <i>Geophysical Monograph Series</i> , 0, , 333-341.	0.1	16
31	Three-dimensional current systems and ionospheric effects associated with small dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3739-3757.	2.4	16
32	Interhemispheric Comparisons of Large Nighttime Magnetic Perturbation Events Relevant to GICs. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028128.	2.4	15
33	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 3. Occurrence and Amplitude as Functions of Magnetic Latitude, Local Time, and Magnetic Disturbance Indices. <i>Space Weather</i> , 2021, 19, e2020SW002526.	3.7	15
34	Analysis of the substorm trigger phase using multiple ground-based instrumentation. <i>Geophysical Research Letters</i> , 1995, 22, 2065-2068.	4.0	14
35	Modulation of the substorm current wedge by bursty bulk flows: 8 September 2002 "Revisited". <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4466-4482.	2.4	14
36	Distribution and Occurrence Frequency of dB/dt Spikes During Magnetic Storms 1980-2020. <i>Space Weather</i> , 2022, 20, .	3.7	14

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37	One year in the Earth's magnetosphere: A global MHD simulation and spacecraft measurements. <i>Space Weather</i> , 2016, 14, 351-367.	3.7	13
38	The Impact of Energetic Particles on the Martian Ionosphere During a Full Solar Cycle of Radar Observations: Radar Blackouts. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	13
39	Effects of Saturn's magnetospheric dynamics on Titan's ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8884-8898.	2.4	11
40	Opportunities for Magnetospheric Research Using EISCAT/ESR and Cluster.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1995, 47, 699-719.	0.9	11
41	Plasma observations during the Mars atmospheric "plume" event of March-April 2012. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3139-3154.	2.4	10
42	International Collaboration Within the United Nations Committee on the Peaceful Uses of Outer Space: Framework for International Space Weather Services (2018-2030). <i>Space Weather</i> , 2018, 16, 428-433.	3.7	10
43	OPPORTUNITIES FOR MAGNETOSPHERIC RESEARCH WITH COORDINATED CLUSTER AND GROUND-BASED OBSERVATIONS. , 1997, 79, 599-637.		9
44	Mars™ plasma system. Scientific potential of coordinated multipoint missions: "The next generation". <i>Experimental Astronomy</i> , 2022, 54, 641-676.	3.7	9
45	Ground-Based Magnetometer Response to Impacting Magnetosheath Jets. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029115.	2.4	7
46	A quantitative study of magnetospheric magnetic field line deformation by a two-loop substorm current wedge. <i>Annales Geophysicae</i> , 2015, 33, 505-517.	1.6	6
47	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. <i>Planetary Science Journal</i> , 2021, 2, 211.	3.6	6
48	Mars Express Observations of Cold Plasma Structures in the Martian Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028056.	2.4	4
49	Mars' Ionospheric Interaction With Comet C/2013 A1 Siding Spring's Coma at Their Closest Approach as Seen by Mars Express. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027344.	2.4	3
50	Investigation of energy transport and thermospheric upwelling during quiet magnetospheric and ionospheric conditions from the studies of low- and middle-altitude cusp. <i>Annales Geophysicae</i> , 2015, 33, 623-635.	1.6	2
51	MARSIS Observations of Field-Aligned Irregularities and Ducted Radio Propagation in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6251-6263.	2.4	2
52	Timing of Substorm Onset Signatures on the Ground and at Geostationary Orbit. <i>Geophysical Research Letters</i> , 2002, 29, 33-1.	4.0	1