

# Michael D Hartinger

## List of Publications by Year in descending order

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78  
papers

1,983  
citations

293460

24  
h-index

312153

41  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1413  
citing authors

#	ARTICLE	IF	CITATIONS
1	How a Realistic Magnetosphere Alters the Polarizations of Surface, Fast Magnetosonic, and Alfvén Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	10
2	Radial Transport Versus Local Acceleration: The Long-standing Debate. <i>Earth and Space Science</i> , 2022, 9, .	1.1	7
3	Characteristics and Sources of Intense Geoelectric Fields in the United States: Comparative Analysis of Multiple Geomagnetic Storms. <i>Space Weather</i> , 2022, 20, .	1.3	4
4	ULF Wave Modeling, Effects, and Applications: Accomplishments, Recent Advances, and Future. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	1.1	3
5	Conjugate Properties of Magnetospheric Pc5 Waves: Antarctica–Greenland Comparison. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028048.	0.8	3
6	Characterization of High- $\epsilon$ m ULF Wave Signatures in GPS TEC Data. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094282.	1.5	6
7	Characterization of multi-scale ionospheric irregularities using ground-based and space-based GNSS observations. <i>Satellite Navigation</i> , 2021, 2, .	4.6	16
8	Van Allen Probes Observations of Multi-MeV Electron Drift-Periodic Flux Oscillations in Earth's Outer Radiation Belt During the March 2017 Event. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029284.	0.8	7
9	The impact and resolution of the GPS week number rollover of April 2019 on autonomous geophysical instrument platforms. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2021, 10, 161-168.	0.6	0
10	Propagation of Ultralow-Frequency Waves from the Ion Foreshock into the Magnetosphere During the Passage of a Magnetic Cloud. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028474.	0.8	10
11	Magnetopause ripples going against the flow form azimuthally stationary surface waves. <i>Nature Communications</i> , 2021, 12, 5697.	5.8	17
12	Conjugate Observation of Magnetospheric Chorus Propagating to the Ionosphere by Ducting. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095933.	1.5	8
13	Impact Angle Control of Local Intense $B_z$ Variations During Shock-Induced Substorms. <i>Space Weather</i> , 2021, 19, .	1.3	9
14	Incidence of Alfvénic SC Pulse Onto the Conjugate Ionospheres. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027397.	0.8	3
15	Modulation of Whistler Waves by Ultra-Low-Frequency Perturbations: The Importance of Magnetopause Location. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028334.	0.8	13
16	Global Propagation of Magnetospheric Pc5 ULF Waves Driven by Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028411.	0.8	28
17	Interplanetary Shock Impact Angles Control Magnetospheric ULF Wave Activity: Wave Amplitude, Frequency, and Power Spectra. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090857.	1.5	13
18	Multipoint Conjugate Observations of Dayside ULF Waves During an Extended Period of Radial IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028364.	0.8	13

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19	Why Are There so Few Reports of High-Energy Electron Drift Resonances? Role of Radial Phase Space Density Gradients. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027924.	0.8	8
20	Ionospheric Modulation by Storm Time Pc5 ULF Pulsations and the Structure Detected by PFISR-THEMIS Conjunction. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089060.	1.5	11
21	Simultaneous Observations of Geoelectric and Geomagnetic Fields Produced by Magnetospheric ULF Waves. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089441.	1.5	8
22	Interhemispheric Comparisons of Large Nighttime Magnetic Perturbation Events Relevant to GICs. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028128.	0.8	15
23	Interhemispheric Asymmetries in the Ground Magnetic Response to Interplanetary Shocks: The Role of Shock Impact Angle. <i>Space Weather</i> , 2020, 18, e2019SW002427.	1.3	11
24	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 2. Multiple-Instrument Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7459-7476.	0.8	35
25	Transient Oscillations Near the Dayside Open-Closed Boundary: Evidence of Magnetopause Surface Mode?. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9058-9074.	0.8	10
26	Direct observations of a surface eigenmode of the dayside magnetopause. <i>Nature Communications</i> , 2019, 10, 615.	5.8	63
27	Electromagnetic Fields of Magnetospheric ULF Disturbances in the Ionosphere: Current/Voltage Dichotomy. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 109-121.	0.8	9
28	Transmission of a Magnetospheric Pc1 Wave Beam Through the Ionosphere to the Ground. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3965-3982.	0.8	15
29	Long-Lasting Poloidal ULF Waves Observed by Multiple Satellites and High-Latitude SuperDARN Radars. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8422-8438.	0.8	36
30	Roles of Flow Braking, Plasmaspheric Virtual Resonances, and Ionospheric Currents in Producing Ground Pi2 Pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9187-9203.	0.8	12
31	MMS, Van Allen Probes, GOES 13, and Ground-Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8331-8357.	0.8	30
32	Diagnosis of ULF Wave-Particle Interactions With Megaelectron Volt Electrons: The Importance of Ultrahigh-Resolution Energy Channels. <i>Geophysical Research Letters</i> , 2018, 45, 10,883.	1.5	11
33	First Results From Sonification and Exploratory Citizen Science of Magnetospheric ULF Waves: Long-Lasting Decreasing-Frequency Poloidal Field Line Resonances Following Geomagnetic Storms. <i>Space Weather</i> , 2018, 16, 1753-1769.	1.3	12
34	Survey of Ionospheric Pc3-5 ULF Wave Signatures in SuperDARN High Time Resolution Data. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4215-4231.	0.8	20
35	Observation and Numerical Simulation of Cavity Mode Oscillations Excited by an Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1969-1988.	0.8	21
36	Dayside Magnetospheric and Ionospheric Responses to a Foreshock Transient on 25 June 2008: 1. FLR Observed by Satellite and Ground-Based Magnetometers. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6335-6346.	0.8	40

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37	A comparison of the ground magnetic responses during the 2013 and 2015 St. Patrick's Day geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4023-4036.	0.8	19
38	Magnetospheric and solar wind dependences of coupled fast mode resonances outside the plasmasphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 212-226.	0.8	10
39	A multispacecraft event study of Pc5 ultralow frequency waves in the magnetosphere and their external drivers. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5132-5147.	0.8	24
40	Conjugate observations of electromagnetic ion cyclotron waves associated with traveling convection vortex events. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7336-7352.	0.8	7
41	Simultaneous space and ground based observations of a plasmaspheric virtual resonance. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4190-4209.	0.8	8
42	Electron Drift Resonance in the MHD-Coupled Comprehensive Inner Magnetosphere-Ionosphere Model. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,006.	0.8	12
43	Nightside Pi2 Wave Properties During an Extended Period With Stable Plasmapause Location and Variable Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,120.	0.8	2
44	Associating ground magnetometer observations with current or voltage generators. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7130-7141.	0.8	17
45	Deciphering satellite observations of compressional ULF waveguide modes. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3381-3394.	0.8	4
46	Investigation of a rare event where the polar ionospheric reverse convection potential does not saturate during a period of extreme northward IMF solar wind driving. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5422-5435.	0.8	12
47	On the origin of the dawn-dusk asymmetry of toroidal Pc5 waves. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9632-9650.	0.8	22
48	Propagation of ULF waves from the upstream region to the midnight sector of the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8428-8447.	0.8	17
49	Space Weather from a Southern Point of View. <i>Eos</i> , 2016, , .	0.1	2
50	Magnetospheric ULF waves with increasing amplitude related to solar wind dynamic pressure changes: The Time History of Events and Macroscale Interactions during Substorms (THEMIS) observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7179-7190.	0.8	25
51	Frequency variability of standing Alfvén waves excited by fast mode resonances in the outer magnetosphere. <i>Geophysical Research Letters</i> , 2015, 42, 10,150.	1.5	17
52	The global structure and time evolution of dayside magnetopause surface eigenmodes. <i>Geophysical Research Letters</i> , 2015, 42, 2594-2602.	1.5	29
53	A statistical study of fundamental toroidal mode standing Alfvén waves using THEMIS ion bulk velocity data. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6474-6495.	0.8	23
54	ULF wave electromagnetic energy flux into the ionosphere: Joule heating implications. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 494-510.	0.8	12

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55	THEMIS measurements of quasi-static electric fields in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 9939-9951.	0.8	29
56	Solar wind pressure pulse-driven magnetospheric vortices and their global consequences. Journal of Geophysical Research: Space Physics, 2014, 119, 4274-4280.	0.8	61
57	The effect of magnetopause motion on fast mode resonance. Journal of Geophysical Research: Space Physics, 2014, 119, 8212-8227.	0.8	29
58	On the storm-time evolution of relativistic electron phase space density in Earth's outer radiation belt. Journal of Geophysical Research: Space Physics, 2013, 118, 2196-2212.	0.8	113
59	Observations of ULF wave related equatorial electrojet and density fluctuations. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 103, 157-168.	0.6	8
60	Statistical study of global modes outside the plasmasphere. Journal of Geophysical Research: Space Physics, 2013, 118, 804-822.	0.8	31
61	Survey of the ULF wave Poynting vector near the Earth's magnetic equatorial plane. Journal of Geophysical Research: Space Physics, 2013, 118, 6212-6227.	0.8	10
62	Multi-instrument observations from Svalbard of a traveling convection vortex, electromagnetic ion cyclotron wave burst, and proton precipitation associated with a bow shock instability. Journal of Geophysical Research: Space Physics, 2013, 118, 2975-2997.	0.8	38
63	The role of transient ion foreshock phenomena in driving Pc5 ULF wave activity. Journal of Geophysical Research: Space Physics, 2013, 118, 299-312.	0.8	94
64	Multispacecraft observations of fundamental poloidal waves without ground magnetic signatures. Journal of Geophysical Research: Space Physics, 2013, 118, 4319-4334.	0.8	31
65	Poloidal ULF wave observed in the plasmasphere boundary layer. Journal of Geophysical Research: Space Physics, 2013, 118, 4298-4307.	0.8	74
66	THEMIS observations of ULF wave excitation in the nightside plasma sheet during sudden impulse events. Journal of Geophysical Research: Space Physics, 2013, 118, 284-298.	0.8	59
67	Simultaneous traveling convection vortex events and Pc1 wave bursts at cusp latitudes observed in Arctic Canada and Svalbard. Journal of Geophysical Research: Space Physics, 2013, 118, 6352-6363.	0.8	6
68	Magnetospheric "omagic" frequencies as magnetopause surface eigenmodes. Geophysical Research Letters, 2013, 40, 5003-5008.	1.5	37
69	Explaining sudden losses of outer radiation belt electrons during geomagnetic storms. Nature Physics, 2012, 8, 208-212.	6.5	365
70	Dynamics of long-period ULF waves in the plasma sheet: Coordinated space and ground observations. Journal of Geophysical Research, 2012, 117, .	3.3	15
71	Observations of a Pc5 global (cavity/waveguide) mode outside the plasmasphere by THEMIS. Journal of Geophysical Research, 2012, 117, .	3.3	27
72	Analysis of radiation belt energetic electron phase space density using THEMIS SST measurements: Cross-satellite calibration and a case study. Journal of Geophysical Research, 2011, 116, .	3.3	42

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73	Global energy transfer during a magnetospheric field line resonance. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	32
74	Global distribution of electrostatic electron cyclotron harmonic waves observed on THEMIS. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	54
75	Observations of ULF wave related equatorial electrojet and density fluctuations. , 2011, , .		0
76	Pc5 wave power in the quiet-time plasmasphere and trough: CRRES observations. Geophysical Research Letters, 2010, 37, .	1.5	19
77	Small Satellite Formation Flying Simulation with Multi-Constellation GNSS and Applications to Future Multi-Scale Space Weather Observations. , 0, , .		8
78	Listening to the Magnetosphere: How Best to Make ULF Waves Audible. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	2