

Werner Magnes

List of Publications by Year in descending order

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79
papers

6,250
citations

117619

34
h-index

85537

71
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95
all docs

95
docs citations

95
times ranked

2880
citing authors

#	ARTICLE	IF	CITATIONS
1	The THEMIS Fluxgate Magnetometer. <i>Space Science Reviews</i> , 2008, 141, 235-264.	8.1	1,050
2	The Magnetospheric Multiscale Magnetometers. <i>Space Science Reviews</i> , 2016, 199, 189-256.	8.1	896
3	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	12.6	545
4	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. <i>Space Science Reviews</i> , 2016, 199, 105-135.	8.1	390
5	International Geomagnetic Reference Field: the thirteenth generation. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	319
6	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018, 557, 202-206.	27.8	263
7	Magnetic field investigation of the Venus plasma environment: Expected new results from Venus Express. <i>Planetary and Space Science</i> , 2006, 54, 1336-1343.	1.7	235
8	The Search-Coil Magnetometer for MMS. <i>Space Science Reviews</i> , 2016, 199, 257-282.	8.1	212
9	The Solar Orbiter magnetometer. <i>Astronomy and Astrophysics</i> , 2020, 642, A9.	5.1	136
10	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 517-533.	2.4	108
11	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016, 43, 5606-5615.	4.0	104
12	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , 2016, 43, 5969-5978.	4.0	92
13	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. <i>Geophysical Research Letters</i> , 2016, 43, 5918-5925.	4.0	86
14	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017, 836, L27.	8.3	85
15	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	4.0	81
16	Observations of turbulence in a Kelvin-Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,021.	2.4	81
17	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019, 877, L37.	8.3	80
18	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,442.	2.4	73

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19	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	4.0	66
20	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. <i>Geophysical Research Letters</i> , 2016, 43, 5909-5917.	4.0	61
21	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858.	4.0	53
22	Electron currents and heating in the ion diffusion region of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 4691-4700.	4.0	53
23	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017, 836, 247.	4.5	50
24	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. <i>Geophysical Research Letters</i> , 2016, 43, 7279-7286.	4.0	49
25	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. <i>Physical Review Letters</i> , 2017, 119, 025101.	7.8	46
26	Standing Alfvén waves at the magnetopause. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	45
27	High precision magnetometer for geomagnetic exploration onboard of the China Seismo-Electromagnetic Satellite. <i>Science China Technological Sciences</i> , 2018, 61, 659-668.	4.0	45
28	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , 2016, 43, 5943-5952.	4.0	44
29	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , 2017, 118, 265101.	7.8	44
30	Global observations of magnetospheric high-latitude poloidal waves during the 22 June 2015 magnetic storm. <i>Geophysical Research Letters</i> , 2017, 44, 3456-3464.	4.0	43
31	A sigma-delta fluxgate magnetometer for space applications. <i>Measurement Science and Technology</i> , 2003, 14, 1003-1012.	2.6	40
32	The Role of the Parallel Electric Field in Electron-scale Dissipation at Reconnecting Currents in the Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6533-6547.	2.4	40
33	A comparative study of dipolarization fronts at MMS and Cluster. <i>Geophysical Research Letters</i> , 2016, 43, 6012-6019.	4.0	37
34	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 6724-6733.	4.0	37
35	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1260-1278.	2.4	32
36	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,236.	2.4	31

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37	Transient, small-scale field-aligned currents in the plasma sheet boundary layer during storm time substorms. <i>Geophysical Research Letters</i> , 2016, 43, 4841-4849.	4.0	30
38	Large-Amplitude High-Frequency Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2630-2657.	2.4	30
39	Coupled dark state magnetometer for the China Seismo-Electromagnetic Satellite. <i>Measurement Science and Technology</i> , 2018, 29, 095103.	2.6	30
40	The CSES global geomagnetic field model (CGGM): an IGRF-type global geomagnetic field model based on data from the China Seismo-Electromagnetic Satellite. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	27
41	Observations of large-amplitude, parallel, electrostatic waves associated with the Kelvin-Helmholtz instability by the magnetospheric multiscale mission. <i>Geophysical Research Letters</i> , 2016, 43, 8859-8866.	4.0	26
42	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 93-103.	2.4	26
43	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	12.8	26
44	Multi-Experiment Observations of Ionospheric Disturbances as Precursory Effects of the Indonesian Ms6.9 Earthquake on August 05, 2018. <i>Remote Sensing</i> , 2020, 12, 4050.	4.0	25
45	Magnetosheath High-Speed Jets: Internal Structure and Interaction With Ambient Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,157.	2.4	23
46	Optimized merging of search coil and fluxgate data for MMS. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 521-530.	1.6	22
47	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5487-5501.	2.4	22
48	Strong current sheet at a magnetosheath jet: Kinetic structure and electron acceleration. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9608-9618.	2.4	20
49	The BepiColombo "Mio Magnetometer en Route to Mercury. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	19
50	First in-orbit results of the vector magnetic field measurement of the High Precision Magnetometer onboard the China Seismo-Electromagnetic Satellite. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	18
51	Interinstrument calibration using magnetic field data from the flux-gate magnetometer (FGM) and electron drift instrument (EDI) onboard Cluster. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2014, 3, 1-11.	1.6	17
52	Simultaneous Remote Observations of Intense Reconnection Effects by DMSP and MMS Spacecraft During a Storm Time Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10891-10909.	2.4	17
53	Near-Earth plasma sheet boundary dynamics during substorm dipolarization. <i>Earth, Planets and Space</i> , 2017, 69, 129.	2.5	15
54	Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9222-9238.	2.4	15

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55	On the deviation from Maxwellian of the ion velocity distribution functions in the turbulent magnetosheath. Journal of Plasma Physics, 2020, 86, .	2.1	15
56	The Magnetospheric Multiscale Magnetometers. , 2017, , 189-256.		15
57	Flux-gate magnetometer spin axis offset calibration using the electron drift instrument. Measurement Science and Technology, 2014, 25, 105008.	2.6	14
58	Steepening of waves at the duskside magnetopause. Geophysical Research Letters, 2016, 43, 7373-7380.	4.0	14
59	Space Weather Magnetometer Aboard GEO-KOMPSAT-2A. Space Science Reviews, 2020, 216, 1.	8.1	13
60	In-orbit results of the Coupled Dark State Magnetometer aboard the China Seismo-Electromagnetic Satellite. Geoscientific Instrumentation, Methods and Data Systems, 2020, 9, 275-291.	1.6	13
61	Electron Dynamics Within the Electron Diffusion Region of Asymmetric Reconnection. Journal of Geophysical Research: Space Physics, 2018, 123, 146-162.	2.4	10
62	Prediction of D_{sc} During Solar Minimum Using In Situ Measurements at L5. Space Weather, 2020, 18, e2019SW002424.	3.7	10
63	Maximum-variance gradiometer technique for removal of spacecraft-generated disturbances from magnetic field data. Geoscientific Instrumentation, Methods and Data Systems, 2020, 9, 451-469.	1.6	10
64	Advanced calibration of magnetometers on spin-stabilized spacecraft based on parameter decoupling. Geoscientific Instrumentation, Methods and Data Systems, 2019, 8, 63-76.	1.6	9
65	Enable the inherent omni-directionality of an absolute coupled dark state magnetometer for e.g. scientific space applications. , 2012, , .		8
66	Accelerated endurance test of single-mode vertical-cavity surface-emitting lasers under vacuum used for a scalar space magnetometer. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	8
67	CSES High Precision Magnetometer Data Products and Example Study of an Intense Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028026.	2.4	8
68	Space weather magnetometer set with automated AC spacecraft field correction for Geo-Kompsat-2A. , 2016, , .		7
69	Control loops for a Coupled Dark State Magnetometer. , 2010, , .		5
70	Initial scalar lithospheric magnetic anomaly map of China and surrounding regions derived from CSES satellite data. Science China Technological Sciences, 2021, 64, 1118-1126.	4.0	5
71	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. Physics of Plasmas, 2022, 29, .	1.9	5
72	Error estimate for fluxgate magnetometer in-flight calibration on a spinning spacecraft. Geoscientific Instrumentation, Methods and Data Systems, 2021, 10, 13-24.	1.6	3

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73	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. , 2017, , 105-135.		3
74	Satellite Measured Ionospheric Magnetic Field Variations over Natural Hazards Sites. Remote Sensing, 2021, 13, 2360.	4.0	2
75	Disappearance of the polar cap ionosphere during geomagnetic storm on 11 May 2019. Space Weather, 0, , .	3.7	2
76	Analysis and elimination of tri-band beacon interference with the fluxgate sensors onboard CSES. Science China Technological Sciences, 2021, 64, 2328.	4.0	1
77	The Magnetospheric Multiscale Magnetometers. , 2016, 199, 189.		1
78	Low-altitude frequency-banded equatorial emissions observed below the electron cyclotron frequency. Annales Geophysicae, 2020, 38, 765-774.	1.6	1
79	Development of Space Magnetometers in Austria. Proceedings (mdpi), 2018, 2, .	0.2	0