

Meng Zhou

List of Publications by Year in descending order

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126
papers

3,909
citations

94269

37
h-index

149479

56
g-index

127
all docs

127
docs citations

127
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial activities of the chemical constituents of <i>Schizophyllum commune</i> MST7-3 collected from coal area. <i>Natural Product Research</i> , 2022, 36, 4645-4654.	1.0	2
2	Formation of Negative $J \times E$ in the Outer Electron Diffusion Region During Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	9
3	Characteristics of Turbulence Driven by Transient Magnetic Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2022, 925, 17.	1.6	5
4	Stacked Electron Diffusion Regions and Electron Kelvin-Helmholtz Vortices within the Ion Diffusion Region of Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2022, 926, L27.	3.0	10
5	Electron-Only Magnetic Reconnection: Lessons Learned From Magnetic Island Coalescence. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
6	Evidence for Whistler Waves Propagating Into the Electron Diffusion Region of Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	3
7	Intense Energy Conversion Events at the Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
8	Energization of Cold Ions in Magnetic Reconnection: Particle-in-Cell Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
9	Distribution of Negative $J \times E$ in the Inflow Edge of the Inner Electron Diffusion Region During Tail Magnetic Reconnection: Simulations Vs. Observations. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	8
10	Contrasting the Mechanisms of Reconnection-driven Electron Acceleration with In Situ Observations from MMS in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2022, 931, 135.	1.6	1
11	Kinetic properties of collisionless magnetic reconnection in space plasma: in situ observations. <i>Reviews of Modern Plasma Physics</i> , 2022, 6, .	2.2	2
12	Observations of Whistler-mode Waves and Large-amplitude Electrostatic Waves Associated with a Dipolarization Front in the Bursty Bulk Flow. <i>Astrophysical Journal</i> , 2022, 933, 105.	1.6	1
13	Three-Dimensional Electron-Scale Magnetic Reconnection in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	12
14	Observations of Secondary Magnetic Reconnection in the Turbulent Reconnection Outflow. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091215.	1.5	24
15	Electron Pitch Angle Distributions Around Dipolarization Fronts at the Off Magnetic Equator. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028787.	0.8	5
16	Whistler and Broadband Electrostatic Waves in the Multiple X-Line Reconnection at the Magnetopause. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091320.	1.5	6
17	Statistics of the Intense Current Structure in the Dayside Magnetopause Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029890.	0.8	3
18	Measurements of Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	11

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19	Observations of Electron-Only Magnetic Reconnection Associated With Macroscopic Magnetic Flux Ropes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089659.	1.5	13
20	Force and Energy Balance of the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028278.	0.8	19
21	Direct Evidence for Electron Acceleration Within Ion-Scale Flux Rope. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085141.	1.5	44
22	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , 2020, 892, L5.	3.0	10
23	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar-Terrestrial Relation. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	18
24	Electron Acceleration Rate at Dipolarization Fronts. <i>Astrophysical Journal</i> , 2020, 903, 84.	1.6	12
25	Energy conversion during multiple X-lines reconnection. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	6
26	Reconnection Front Associated with Asymmetric Magnetic Reconnection: Particle-in-cell Simulations. <i>Astrophysical Journal Letters</i> , 2019, 881, L22.	3.0	15
27	Electron-scale Vertical Current Sheets in a Bursty Bulk Flow in the Terrestrial Magnetotail. <i>Astrophysical Journal Letters</i> , 2019, 872, L26.	3.0	19
28	Sub-ion-scale Dynamics of the Ion Diffusion Region in the Magnetotail: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7898-7911.	0.8	9
29	On the Energy Conversion Rate during Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2019, 883, L22.	3.0	23
30	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019, 870, 34.	1.6	79
31	Observations of a Kinetic-Scale Magnetic Hole in a Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 6248-6257.	1.5	22
32	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , 2019, 875, 113.	1.6	21
33	Observations of Short-period Current Sheet Flapping Events in the Earth's Magnetotail. <i>Astrophysical Journal Letters</i> , 2019, 874, L18.	3.0	14
34	The anti-hyperuricemic effect of four astilbin stereoisomers in <i>Smilax glabra</i> on hyperuricemic mice. <i>Journal of Ethnopharmacology</i> , 2019, 238, 111777.	2.0	28
35	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 580-589.	1.5	31
36	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , 2019, 46, 12693-12701.	1.5	41

#	ARTICLE	IF	CITATIONS
37	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8727-8760.	0.8	45
38	Small-scale dipolarization fronts in the Earth's magnetotail. <i>Earth and Planetary Physics</i> , 2019, 3, 358-364.	0.4	4
39	Evidence for Secondary Flux Rope Generated by the Electron Kelvin-Helmholtz Instability in a Magnetic Reconnection Diffusion Region. <i>Physical Review Letters</i> , 2018, 120, 075101.	2.9	40
40	Achieving a stable Na metal anode with a 3D carbon fibre scaffold. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 864-869.	3.0	40
41	Three new flavonoid glycosides from <i>Smilax glabra</i> and their anti-inflammatory activity. <i>Natural Product Research</i> , 2018, 32, 1760-1768.	1.0	22
42	Suprathermal Electron Acceleration in a Reconnecting Magnetotail: Large-Scale Kinetic Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8087-8108.	0.8	34
43	Magnetospheric Multiscale Observations of an Ion Diffusion Region With Large Guide Field at the Magnetopause: Current System, Electron Heating, and Plasma Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1834-1852.	0.8	32
44	Mathematical Methods and Algorithms for Improving Near-Infrared Tunable Diode-Laser Absorption Spectroscopy. <i>Sensors</i> , 2018, 18, 4295.	2.1	27
45	In Situ Observation of Magnetic Reconnection Between an Earthward Propagating Flux Rope and the Geomagnetic Field. <i>Geophysical Research Letters</i> , 2018, 45, 8729-8737.	1.5	37
46	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. <i>Geophysical Research Letters</i> , 2018, 45, 8793-8802.	1.5	19
47	Bifunctional Copper-Doped Nickel Catalysts Enable Energy-Efficient Hydrogen Production via Hydrazine Oxidation and Hydrogen Evolution Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12746-12754.	3.2	68
48	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , 2018, 861, 29.	1.6	46
49	Tripolar electric field Structure in guide field magnetic reconnection. <i>Annales Geophysicae</i> , 2018, 36, 373-379.	0.6	8
50	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018, 862, 144.	1.6	43
51	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017, 836, L27.	3.0	85
52	On the origin of the crescent-shaped distributions observed by MMS at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2024-2039.	0.8	43
53	Anomalously high rate refilling in the near lunar wake caused by the Earth's bow shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9102-9114.	0.8	3
54	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017, 119, 055101.	2.9	72

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55	New furostanol saponins with anti-inflammatory and cytotoxic activities from the rhizomes of <i>Smilax davidiana</i> . <i>Steroids</i> , 2017, 127, 62-68.	0.8	12
56	Coordinated observations of two types of diffuse auroras near magnetic local noon by Magnetospheric Multiscale mission and ground all-sky camera. <i>Geophysical Research Letters</i> , 2017, 44, 8130-8139.	1.5	16
57	Chorus Wave Modulation of Langmuir Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2017, 44, 11,713.	1.5	18
58	Occurrence rate of whistler waves in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7188-7196.	0.8	30
59	Observation of Three-Dimensional Magnetic Reconnection in the Terrestrial Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9513-9520.	0.8	25
60	A statistical study of kinetic-size magnetic holes in turbulent magnetosheath: MMS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8577-8588.	0.8	64
61	The occurrence and wave properties of EMIC waves observed by the Magnetospheric Multiscale (MMS) mission. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8228-8240.	0.8	44
62	Geomagnetic storms and EMIC waves: Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6444-6457.	0.8	24
63	In situ observations of flux rope at the separatrix region of magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 205-213.	0.8	30
64	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858.	1.5	53
65	Force balance at the magnetopause determined with MMS: Application to flux transfer events. <i>Geophysical Research Letters</i> , 2016, 43, 11,941.	1.5	27
66	Two types of whistler waves in the hall reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6639-6646.	0.8	57
67	Statistics of energetic electrons in the magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3108-3119.	0.8	17
68	Identifying the electron diffusion region in a realistic simulation of Earth's magnetotail. <i>Geophysical Research Letters</i> , 2016, 43, 6005-6011.	1.5	12
69	Electron acceleration associated with the magnetic flux pileup regions in the near-Earth plasma sheet: A multicase study. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4331-4342.	0.8	15
70	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 5626-5634.	1.5	66
71	Observation of high-frequency electrostatic waves in the vicinity of the reconnection ion diffusion region by the spacecraft of the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , 2016, 43, 4808-4815.	1.5	32
72	Kinetic simulations of secondary reconnection in the reconnection jet. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6188-6198.	0.8	30

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73	Optimized Node Deployment Algorithm and Parameter Investigation in a Mobile Sensor Network for Robotic Systems. International Journal of Advanced Robotic Systems, 2015, 12, 152.	1.3	6
74	How Does the Guide Field Affect the Asymmetry of Hall Magnetic and Electric Fields in Fast Magnetic Reconnection?. Chinese Physics Letters, 2015, 32, 095202.	1.3	7
75	Dipolarization fronts as earthward propagating flux ropes: A three-dimensional global hybrid simulation. Journal of Geophysical Research: Space Physics, 2015, 120, 6286-6300.	0.8	70
76	Statistical characteristics of EMIC waves: Van Allen Probe observations. Journal of Geophysical Research: Space Physics, 2015, 120, 4400-4408.	0.8	72
77	Direct evidence for kinetic effects associated with solar wind reconnection. Scientific Reports, 2015, 5, 8080.	1.6	19
78	Statistical study on the suprathermal electrons properties around dipolarization fronts in Earth's magnetotail. Science China Technological Sciences, 2015, 58, 961-966.	2.0	2
79	Observations of current sheets associated with solar wind reconnection exhausts passing through the near lunar wake. Journal of Geophysical Research: Space Physics, 2015, 120, 9246-9255.	0.8	4
80	Electromagnetic energy conversion at dipolarization fronts: Multispacecraft results. Journal of Geophysical Research: Space Physics, 2015, 120, 4496-4502.	0.8	86
81	Observations of large-amplitude electromagnetic waves and associated wave-particle interactions at the dipolarization front in the Earth's magnetotail: A case study. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 129, 119-127.	0.6	28
82	A statistical study on the whistler waves behind dipolarization fronts. Journal of Geophysical Research: Space Physics, 2015, 120, 1086-1095.	0.8	25
83	Dawn-dusk scale of dipolarization front in the Earth's magnetotail: multi-cases study. Astrophysics and Space Science, 2015, 357, 1.	0.5	23
84	EVIDENCE FOR NEWLY INITIATED RECONNECTION IN THE SOLAR WIND AT 1 AU. Astrophysical Journal, 2015, 809, 5.	1.6	13
85	Comparisons of electron acceleration efficiency among different structures during magnetic reconnection: a Cluster multicase study. Annales Geophysicae, 2015, 33, 1469-1478.	0.6	4
86	Kinetic simulations of electric field structure within magnetic island during magnetic reconnection and their applications to the satellite observations. Journal of Geophysical Research: Space Physics, 2014, 119, 7402-7412.	0.8	26
87	Influence of precipitating energetic ions caused by EMIC waves on the subauroral ionospheric E region during a geomagnetic storm. Journal of Geophysical Research: Space Physics, 2014, 119, 8462-8471.	0.8	16
88	Plasma physics of magnetic island coalescence during magnetic reconnection. Journal of Geophysical Research: Space Physics, 2014, 119, 6177-6189.	0.8	34
89	KINETIC TURBULENCE IN THE TERRESTRIAL MAGNETOSHEATH: CLUSTER OBSERVATIONS. Astrophysical Journal Letters, 2014, 789, L28.	3.0	74
90	Compression-related EMIC waves drive relativistic electron precipitation. Science China Technological Sciences, 2014, 57, 2418-2425.	2.0	15

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91	System Design of the Prototype Incoherent Scatter Radar at Nanchang University. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 352-356.	1.4	6
92	Cold electron heating by EMIC waves in the plasmaspheric plume with observations of the Cluster satellite. Geophysical Research Letters, 2014, 41, 1830-1837.	1.5	57
93	Electron dynamics and wave activities associated with mirror mode structures in the near-Earth magnetotail. Science China Technological Sciences, 2014, 57, 1541-1551.	2.0	5
94	Observation of directional change of core field inside flux ropes within one reconnection diffusion region in the Earth's magnetotail. Science Bulletin, 2014, 59, 4797-4803.	1.7	13
95	Observation of large-amplitude magnetosonic waves at dipolarization fronts. Journal of Geophysical Research: Space Physics, 2014, 119, 4335-4347.	0.8	53
96	Evidence of deflected super-Alfvénic electron jet in a reconnection region with weak guide field. Journal of Geophysical Research: Space Physics, 2014, 119, 1541-1548.	0.8	23
97	Ion dynamics associated with substorm dipolarization fronts. Science China Earth Sciences, 2014, 57, 2543-2551.	2.3	3
98	Whistler-mode waves inside flux pileup region: Structured or unstructured?. Journal of Geophysical Research: Space Physics, 2014, 119, 9089-9100.	0.8	112
99	Characteristic distribution and possible roles of waves around the lower hybrid frequency in the magnetotail reconnection region. Journal of Geophysical Research: Space Physics, 2014, 119, 8228-8242.	0.8	34
100	Simultaneous observations of precipitating radiation belt electrons and ring current ions associated with the plasmaspheric plume. Journal of Geophysical Research: Space Physics, 2013, 118, 4391-4399.	0.8	43
101	Electric structure of dipolarization fronts associated with interchange instability in the magnetotail. Journal of Geophysical Research: Space Physics, 2013, 118, 6019-6025.	0.8	32
102	The turbulence evolution in the high β region of the Earth's foreshock. Journal of Geophysical Research: Space Physics, 2013, 118, 7151-7159.	0.8	5
103	Cluster observations of kinetic structures and electron acceleration within a dynamic plasma bubble. Journal of Geophysical Research: Space Physics, 2013, 118, 674-684.	0.8	66
104	Large three-dimensional ellipsoid sphere-shaped structure of electrostatic solitary waves in the terrestrial bow shock under condition of $\beta \ll 1$. Geophysical Research Letters, 2013, 40, 3356-3361.		6
105	THEMIS observations of electron acceleration associated with the evolution of substorm dipolarization in the near-Earth tail. Journal of Geophysical Research: Space Physics, 2013, 118, 4237-4247.	0.8	21
106	Direct auroral precipitation from the magnetotail during substorms. Geophysical Research Letters, 2013, 40, 3787-3792.	1.5	8
107	Revealing the sub-structures of the magnetic reconnection separatrix via particle-in-cell simulation. Physics of Plasmas, 2012, 19, .	0.7	18
108	Kinetic structure and wave properties associated with sharp dipolarization front observed by Cluster. Annales Geophysicae, 2012, 30, 97-107.	0.6	124

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109	Electric field structure inside the secondary island in the reconnection diffusion region. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	53
110	Anomalous Resistivity Associated with Secondary Islands in the Reconnection Region. <i>Chinese Physics Letters</i> , 2012, 29, 089401.	1.3	3
111	Electron acceleration in the reconnection diffusion region: Cluster observations. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	95
112	Wave-particle interaction in a plasmaspheric plume observed by a Cluster satellite. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
113	Deformation of plasma bubbles and the associated field aligned current system during substorm recovery phase. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	6
114	Observations of turbulence within reconnection jet in the presence of guide field. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	78
115	Energetic electrons associated with magnetic reconnection in the sheath of interplanetary coronal mass ejection. <i>Science Bulletin</i> , 2012, 57, 1455-1460.	1.7	9
116	Density cavity in magnetic reconnection diffusion region in the presence of guide field. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	36
117	Modeling substorm ion injection observed by the THEMIS and LANL spacecraft in the near-Earth magnetotail. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	7
118	Observations and simulations of non-local acceleration of electrons in magnetotail magnetic reconnection events. <i>Nature Physics</i> , 2011, 7, 360-365.	6.5	165
119	Observation of a Sharp Negative Dipolarization Front in the Reconnection Outflow Region. <i>Chinese Physics Letters</i> , 2011, 28, 109402.	1.3	20
120	The acceleration of electrons in the magnetotail and their auroral signatures. , 2011, , .		0
121	Wave and particle characteristics of earthward electron injections associated with dipolarization fronts. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	118
122	Wave properties in the magnetic reconnection diffusion region with high \hat{I}^2 : Application of the $\langle i \rangle_k$ filtering method to Cluster multispacecraft data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	48
123	THEMIS observation of multiple dipolarization fronts and associated wave characteristics in the near-Earth magnetotail. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	178
124	A simulation study of particle energization observed by THEMIS spacecraft during a substorm. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	17
125	Dynamics and waves near multiple magnetic null points in reconnection diffusion region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
126	Observation of waves near lower hybrid frequency in the reconnection region with thin current sheet. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69