

Meng Zhou

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7164317/meng-zhou-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

2,928
citations

31
h-index

48
g-index

127
ext. papers

3,450
ext. citations

4
avg, IF

4.82
L-index

#	Paper	IF	Citations
122	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,	2.6	2
121	Characteristics of Turbulence Driven by Transient Magnetic Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2022 , 925, 17	4.7	0
120	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	7.9	2
119	Electron-Only Magnetic Reconnection: Lessons Learned From Magnetic Island Coalescence. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
118	Evidence for Whistler Waves Propagating Into the Electron Diffusion Region of Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
117	Intense Energy Conversion Events at the Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
116	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,	4.9	0
115	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	4.7	1
114	Statistics of the Intense Current Structure in the Dayside Magnetopause Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029890	2.6	1
113	Antibacterial activities of the chemical constituents of MST7-3 collected from coal area. <i>Natural Product Research</i> , 2021 , 1-10	2.3	1
112	Three-Dimensional Electron-Scale Magnetic Reconnection in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	6
111	Observations of Secondary Magnetic Reconnection in the Turbulent Reconnection Outflow. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091215	4.9	12
110	Electron Pitch Angle Distributions Around Dipolarization Fronts at the Off Magnetic Equator. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028787	2.6	0
109	Whistler and Broadband Electrostatic Waves in the Multiple X-Line Reconnection at the Magnetopause. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091320	4.9	4
108	Measurements of Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2021 , 48,	4.9	2
107	Direct Evidence for Electron Acceleration Within Ion-Scale Flux Rope. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085141	4.9	23
106	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , 2020 , 892, L5	7.9	6

105	AME: A Cross-Scale Constellation of CubeSats to Explore Magnetic Reconnection in the Solar-Terrestrial Relation. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	5
104	Electron Acceleration Rate at Dipolarization Fronts. <i>Astrophysical Journal</i> , 2020 , 903, 84	4.7	5
103	Energy conversion during multiple X-lines reconnection. <i>Physics of Plasmas</i> , 2020 , 27, 122905	2.1	2
102	Observations of Electron-Only Magnetic Reconnection Associated With Macroscopic Magnetic Flux Ropes. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089659	4.9	7
101	Force and Energy Balance of the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028278	2.6	9
100	On the Energy Conversion Rate during Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2019 , 883, L22	7.9	12
99	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019 , 870, 34	4.7	53
98	Observations of a Kinetic-Scale Magnetic Hole in a Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , 2019 , 46, 6248-6257	4.9	13
97	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , 2019 , 875, 113	4.7	15
96	Observations of Short-period Current Sheet Flapping Events in the Earth's Magnetotail. <i>Astrophysical Journal Letters</i> , 2019 , 874, L18	7.9	7
95	The anti-hyperuricemic effect of four astilbin stereoisomers in Smilax glabra on hyperuricemic mice. <i>Journal of Ethnopharmacology</i> , 2019 , 238, 111777	5	14
94	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , 2019 , 46, 580-589	4.9	21
93	Reconnection Front Associated with Asymmetric Magnetic Reconnection: Particle-in-cell Simulations. <i>Astrophysical Journal Letters</i> , 2019 , 881, L22	7.9	9
92	Electron-scale Vertical Current Sheets in a Bursty Bulk Flow in the Terrestrial Magnetotail. <i>Astrophysical Journal Letters</i> , 2019 , 872, L26	7.9	11
91	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	2.6	2
90	Small-scale dipolarization fronts in the Earth's magnetotail. <i>Earth and Planetary Physics</i> , 2019 , 3, 358-364.6	4	
89	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , 2019 , 46, 12693-12701	4.9	24
88	Universality of Lower Hybrid Waves at Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8727-8760	2.6	22

87	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	7.4	28
86	Achieving a stable Na metal anode with a 3D carbon fibre scaffold. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 864-869	6.8	31
85	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018 , 862, 144	4.7	30
84	Three new flavonoid glycosides from <i>Smilax glabra</i> and their anti-inflammatory activity. <i>Natural Product Research</i> , 2018 , 32, 1760-1768	2.3	12
83	Suprathermal Electron Acceleration in a Reconnecting Magnetotail: Large-Scale Kinetic Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8087-8108	2.6	24
82	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	2.6	24
81	Mathematical Methods and Algorithms for Improving Near-Infrared Tunable Diode-Laser Absorption Spectroscopy. <i>Sensors</i> , 2018 , 18,	3.8	12
80	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	4.9	26
79	Local Excitation of Whistler Mode Waves and Associated Langmuir Waves at Dayside Reconnection Regions. <i>Geophysical Research Letters</i> , 2018 , 45, 8793-8802	4.9	14
78	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	8.3	45
77	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , 2018 , 861, 29	4.7	32
76	Tripolar electric field Structure in guide field magnetic reconnection. <i>Annales Geophysicae</i> , 2018 , 36, 373-379	2	5
75	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017 , 836, L27	7.9	63
74	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	2.6	35
73	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	2.6	3
72	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017 , 119, 055101	7.4	56
71	New furostanol saponins with anti-inflammatory and cytotoxic activities from the rhizomes of <i>Smilax davidiana</i> . <i>Steroids</i> , 2017 , 127, 62-68	2.8	8
70	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	4.9	10

69	Chorus Wave Modulation of Langmuir Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2017 , 44, 11,713-11,721	4.9	15
68	Occurrence rate of whistler waves in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7188-7196	2.6	26
67	Observation of Three-Dimensional Magnetic Reconnection in the Terrestrial Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9513-9520	2.6	20
66	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	2.6	51
65	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	2.6	28
64	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016 , 43, 7850-7858	4.9	41
63	Force balance at the magnetopause determined with MMS: Application to flux transfer events. <i>Geophysical Research Letters</i> , 2016 , 43, 11,941-11,947	4.9	25
62	Two types of whistler waves in the hall reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6639-6646	2.6	46
61	Statistics of energetic electrons in the magnetotail reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3108-3119	2.6	13
60	Identifying the electron diffusion region in a realistic simulation of Earth's magnetotail. <i>Geophysical Research Letters</i> , 2016 , 43, 6005-6011	4.9	10
59	Electron acceleration associated with the magnetic flux pileup regions in the near-Earth plasma sheet: A multicasestudy. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4331-4342	2.6	11
58	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	4.9	49
57	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	4.9	24
56	Geomagnetic storms and EMIC waves: Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6444-6457	2.6	15
55	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	2.6	23
54	Dawn-dusk scale of dipolarization front in the Earth's magnetotail: multi-cases study. <i>Astrophysics and Space Science</i> , 2015 , 357, 1	1.6	19
53	EVIDENCE FOR NEWLY INITIATED RECONNECTION IN THE SOLAR WIND AT 1 AU. <i>Astrophysical Journal</i> , 2015 , 809, 5	4.7	11
52	Kinetic simulations of secondary reconnection in the reconnection jet. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6188-6198	2.6	23

51	Optimized Node Deployment Algorithm and Parameter Investigation in a Mobile Sensor Network for Robotic Systems. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 152	1.4	4
50	How Does the Guide Field Affect the Asymmetry of Hall Magnetic and Electric Fields in Fast Magnetic Reconnection?. <i>Chinese Physics Letters</i> , 2015 , 32, 095202	1.8	4
49	Dipolarization fronts as earthward propagating flux ropes: A three-dimensional global hybrid simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6286-6300	2.6	55
48	Statistical characteristics of EMIC waves: Van Allen Probe observations. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4400-4408	2.6	57
47	Direct evidence for kinetic effects associated with solar wind reconnection. <i>Scientific Reports</i> , 2015 , 5, 8080	4.9	15
46	Statistical study on the suprathermal electrons properties around dipolarization fronts in Earth's magnetotail. <i>Science China Technological Sciences</i> , 2015 , 58, 961-966	3.5	1
45	Observations of current sheets associated with solar wind reconnection exhausts passing through the near lunar wake. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 9246-9255	2.6	4
44	Electromagnetic energy conversion at dipolarization fronts: Multispacecraft results. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4496-4502	2.6	61
43	Observations of large-amplitude electromagnetic waves and associated wave-particle interactions at the dipolarization front in the Earth's magnetotail: A case study. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 129, 119-127	2	26
42	A statistical study on the whistler waves behind dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1086-1095	2.6	20
41	Comparisons of electron acceleration efficiency among different structures during magnetic reconnection: a Cluster multicase study. <i>Annales Geophysicae</i> , 2015 , 33, 1469-1478	2	3
40	Cold electron heating by EMIC waves in the plasmaspheric plume with observations of the Cluster satellite. <i>Geophysical Research Letters</i> , 2014 , 41, 1830-1837	4.9	44
39	Electron dynamics and wave activities associated with mirror mode structures in the near-Earth magnetotail. <i>Science China Technological Sciences</i> , 2014 , 57, 1541-1551	3.5	3
38	Observation of directional change of core field inside flux ropes within one reconnection diffusion region in the Earth's magnetotail. <i>Science Bulletin</i> , 2014 , 59, 4797-4803		12
37	Observation of large-amplitude magnetosonic waves at dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4335-4347	2.6	43
36	Evidence of deflected super-Alfvénic electron jet in a reconnection region with weak guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1541-1548	2.6	17
35	Ion dynamics associated with substorm dipolarization fronts. <i>Science China Earth Sciences</i> , 2014 , 57, 2543-2551	3.2	12
34	Whistler-mode waves inside flux pileup region: Structured or unstructured?. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9089-9100	2.6	95

33	Characteristic distribution and possible roles of waves around the lower hybrid frequency in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8228-8242	2.6	26
32	Kinetic simulations of electric field structure within magnetic island during magnetic reconnection and their applications to the satellite observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7402-7412	2.6	20
31	Influence of precipitating energetic ions caused by EMIC waves on the subauroral ionospheric E region during a geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8462-8471	2.6	12
30	Plasma physics of magnetic island coalescence during magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6177-6189	2.6	30
29	KINETIC TURBULENCE IN THE TERRESTRIAL MAGNETOSHEATH: CLUSTER OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2014 , 789, L28	7.9	55
28	Compression-related EMIC waves drive relativistic electron precipitation. <i>Science China Technological Sciences</i> , 2014 , 57, 2418-2425	3.5	13
27	System Design of the Prototype Incoherent Scatter Radar at Nanchang University. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 352-356	4.1	6
26	Simultaneous observations of precipitating radiation belt electrons and ring current ions associated with the plasmaspheric plume. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4392-4399	2.6	39
25	Electric structure of dipolarization fronts associated with interchange instability in the magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6019-6025	2.6	28
24	The turbulence evolution in the high β region of the Earth's foreshock. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7151-7159	2.6	4
23	Cluster observations of kinetic structures and electron acceleration within a dynamic plasma bubble. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 674-684	2.6	57
22	Large three-dimensional ellipsoid sphere-shaped structure of electrostatic solitary waves in the terrestrial bow shock under condition of β_e/β_p . <i>Geophysical Research Letters</i> , 2013 , 40, 3356-3361	4.9	6
21	THEMIS observations of electron acceleration associated with the evolution of substorm dipolarization in the near-Earth tail. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 4237-4247	2.6	15
20	Direct auroral precipitation from the magnetotail during substorms. <i>Geophysical Research Letters</i> , 2013 , 40, 3787-3792	4.9	5
19	Wave-particle interaction in a plasmaspheric plume observed by a Cluster satellite. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		39
18	Deformation of plasma bubbles and the associated field aligned current system during substorm recovery phase. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		5
17	Observations of turbulence within reconnection jet in the presence of guide field. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	56
16	Energetic electrons associated with magnetic reconnection in the sheath of interplanetary coronal mass ejection. <i>Science Bulletin</i> , 2012 , 57, 1455-1460		7

15	Revealing the sub-structures of the magnetic reconnection separatrix via particle-in-cell simulation. <i>Physics of Plasmas</i> , 2012 , 19, 072907	2.1	14
14	Kinetic structure and wave properties associated with sharp dipolarization front observed by Cluster. <i>Annales Geophysicae</i> , 2012 , 30, 97-107	2	106
13	Electric field structure inside the secondary island in the reconnection diffusion region. <i>Physics of Plasmas</i> , 2012 , 19, 042902	2.1	40
12	Anomalous Resistivity Associated with Secondary Islands in the Reconnection Region. <i>Chinese Physics Letters</i> , 2012 , 29, 089401	1.8	2
11	Electron acceleration in the reconnection diffusion region: Cluster observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	78
10	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		32
9	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		6
8	Observations and simulations of non-local acceleration of electrons in magnetotail magnetic reconnection events. <i>Nature Physics</i> , 2011 , 7, 360-365	16.2	145
7	Observation of a Sharp Negative Dipolarization Front in the Reconnection Outflow Region. <i>Chinese Physics Letters</i> , 2011 , 28, 109402	1.8	16
6	Wave and particle characteristics of earthward electron injections associated with dipolarization fronts. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		91
5	Wave properties in the magnetic reconnection diffusion region with high β Application of the k-filtering method to Cluster multispacecraft data. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		41
4	THEMIS observation of multiple dipolarization fronts and associated wave characteristics in the near-Earth magnetotail. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	151
3	A simulation study of particle energization observed by THEMIS spacecraft during a substorm. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		16
2	Dynamics and waves near multiple magnetic null points in reconnection diffusion region. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		35
1	Observation of waves near lower hybrid frequency in the reconnection region with thin current sheet. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		59