

# X H Deng

## List of Publications by Year in Descending Order

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

105  
papers

2,526  
citations

28  
h-index

47  
g-index

113  
ext. papers

3,010  
ext. citations

4.9  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
105	Formation of Negative $J \times E$ in the Outer Electron Diffusion Region During Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2022</b> , 127,	2.6	2
104	Characteristics of Turbulence Driven by Transient Magnetic Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , <b>2022</b> , 925, 17	4.7	0
103	Stacked Electron Diffusion Regions and Electron Kelvin-Helmholtz Vortices within the Ion Diffusion Region of Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 926, L27	7.9	2
102	Electron-Only Magnetic Reconnection: Lessons Learned From Magnetic Island Coalescence. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
101	Evidence for Whistler Waves Propagating Into the Electron Diffusion Region of Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
100	Anisotropy of Magnetic Field Spectra at Kinetic Scales of Solar Wind Turbulence as Revealed by the Parker Solar Probe in the Inner Heliosphere. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 929, L6	7.9	0
99	Intense Energy Conversion Events at the Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	1
98	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> , <b>2022</b> , 49,	4.9	0
97	Contrasting the Mechanisms of Reconnection-driven Electron Acceleration with In Situ Observations from MMS in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , <b>2022</b> , 931, 135	4.7	1
96	Observation of High-Frequency Electrostatic Waves in the Dip Region Ahead of Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029408	2.6	4
95	Observational Evidence of Magnetic Reconnection in the Terrestrial Foreshock Region. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 56	4.7	4
94	Electron-only Reconnection in an Ion-scale Current Sheet at the Magnetopause. <i>Astrophysical Journal</i> , <b>2021</b> , 922, 54	4.7	8
93	Multiple CNN Variants and Ensemble Learning for Sunspot Group Classification by Magnetic Type. <i>Astrophysical Journal, Supplement Series</i> , <b>2021</b> , 257, 38	8	3
92	Statistics of the Intense Current Structure in the Dayside Magnetopause Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029890	2.6	1
91	Solar Flare Prediction Based on the Fusion of Multiple Deep-learning Models. <i>Astrophysical Journal, Supplement Series</i> , <b>2021</b> , 257, 50	8	5
90	Multi-Spacecraft Measurement of Anisotropic Spatial Correlation Functions at Kinetic Range in the Magnetosheath Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2020JA028780	2.6	2
89	Statistical Properties of Current, Energy Conversion, and Electron Acceleration in Flux Ropes in the Terrestrial Magnetotail. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093458	4.9	4

88	Three-Dimensional Electron-Scale Magnetic Reconnection in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , <b>2021</b> , 48,	4.9	6
87	Observations of Secondary Magnetic Reconnection in the Turbulent Reconnection Outflow. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091215	4.9	12
86	Whistler and Broadband Electrostatic Waves in the Multiple X-Line Reconnection at the Magnetopause. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091320	4.9	4
85	Global Spatial Distribution of Dipolarization Fronts in the Saturn's Magnetosphere: Cassini Observations. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092701	4.9	5
84	Measurements of Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , <b>2021</b> , 48,	4.9	2
83	First Observations of Magnetosonic Waves With Nonlinear Harmonics. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027724	2.6	6
82	Excitation of Whistler Waves Through the Bidirectional Field-Aligned Electron Beams With Electron Temperature Anisotropy: MMS Observations. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087515	4.9	4
81	Observations of Electron Vortex at the Dipolarization Front. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088448	4.9	4
80	Analysis of Turbulence Properties in the Mercury Plasma Environment Using MESSENGER Observations. <i>Astrophysical Journal</i> , <b>2020</b> , 891, 159	4.7	11
79	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 892, L5	7.9	6
78	Electron Acceleration Rate at Dipolarization Fronts. <i>Astrophysical Journal</i> , <b>2020</b> , 903, 84	4.7	5
77	Background Parameter Effects on Linear/Nonlinear Chorus Wave Growth in the Planetary Magnetosphere. <i>Astrophysical Journal</i> , <b>2020</b> , 904, 105	4.7	3
76	Prediction of the Dst Index with Bagging Ensemble-learning Algorithm. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 248, 14	8	7
75	Electron Jets in the Terrestrial Magnetotail: A Statistical Overview. <i>Astrophysical Journal</i> , <b>2020</b> , 896, 67	4.7	4
74	Energy conversion during multiple X-lines reconnection. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 122905	2.1	2
73	Statistical Characteristics of Electron Pitch Angle Distributions Inside the Magnetopause Based on MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028291	2.6	3
72	Observations of Electron-Only Magnetic Reconnection Associated With Macroscopic Magnetic Flux Ropes. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089659	4.9	7
71	Force and Energy Balance of the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028278	2.6	9

70	On the Energy Conversion Rate during Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 883, L22	7.9	12
69	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 34	4.7	53
68	Observations of a Kinetic-Scale Magnetic Hole in a Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 6248-6257	4.9	13
67	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 113	4.7	15
66	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 580-589	4.9	21
65	Reconnection Front Associated with Asymmetric Magnetic Reconnection: Particle-in-cell Simulations. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 881, L22	7.9	9
64	Electron-scale Vertical Current Sheets in a Bursty Bulk Flow in the Terrestrial Magnetotail. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 872, L26	7.9	11
63	Sub-ion-scale Dynamics of the Ion Diffusion Region in the Magnetotail: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7898-7911	2.6	2
62	The Role of Upper Hybrid Waves in the Magnetotail Reconnection Electron Diffusion Region. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 881, L28	7.9	9
61	Small-scale dipolarization fronts in the Earth's magnetotail. <i>Earth and Planetary Physics</i> , <b>2019</b> , 3, 358-364	4.6	4
60	A comparative evaluation of the activities of thiol group and hydroxyl group in low-frequency vibrations using terahertz spectroscopy and DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 214, 246-251	4.4	6
59	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 12693-12701	4.9	24
58	Periodical Dipolarization Processes in Earth's Magnetotail. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 13640-13648	4.1	11
57	Silibinin attenuates <i>Streptococcus suis</i> serotype 2 virulence by targeting sullysin. <i>Journal of Applied Microbiology</i> , <b>2019</b> , 126, 435-442	4.7	2
56	Improvement of a Deep Learning Algorithm for Total Electron Content Maps: Image Completion. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 790-800	2.6	31
55	Evidence for Secondary Flux Rope Generated by the Electron Kelvin-Helmholtz Instability in a Magnetic Reconnection Diffusion Region. <i>Physical Review Letters</i> , <b>2018</b> , 120, 075101	7.4	28
54	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 144	4.7	30
53	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> , <b>2018</b> , 123, 1834-1852	2.6	24

52	A new method to identify flux ropes in space plasmas. <i>Annales Geophysicae</i> , <b>2018</b> , 36, 1275-1283	2	3
51	In Situ Observation of Magnetic Reconnection Between an Earthward Propagating Flux Rope and the Geomagnetic Field. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8729-8737	4.9	26
50	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 29	4.7	32
49	Tripolar electric field Structure in guide field magnetic reconnection. <i>Annales Geophysicae</i> , <b>2018</b> , 36, 373-379	2	5
48	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 836, L27	7.9	63
47	Breaking Lorentz reciprocity to overcome the time-bandwidth limit in physics and engineering. <i>Science</i> , <b>2017</b> , 356, 1260-1264	33.3	120
46	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , <b>2017</b> , 119, 055101	7.4	56
45	Occurrence rate of whistler waves in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 7188-7196	2.6	26
44	Observation of Three-Dimensional Magnetic Reconnection in the Terrestrial Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 9513-9520	2.6	20
43	A statistical study of kinetic-size magnetic holes in turbulent magnetosheath: MMS observations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8577-8588	2.6	51
42	The occurrence and wave properties of EMIC waves observed by the Magnetospheric Multiscale (MMS) mission. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 8228-8240	2.6	28
41	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7850-7858	4.9	41
40	Two types of whistler waves in the hall reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 6639-6646	2.6	46
39	In situ observations of flux rope at the separatrix region of magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 205-213	2.6	23
38	Gene-gene interaction of CFH, ARMS2, and ARMS2/HTRA1 on the risk of neovascular age-related macular degeneration and polypoidal choroidal vasculopathy in Chinese population. <i>Eye</i> , <b>2015</b> , 29, 691-844	4.4	10
37	Dawn-dusk scale of dipolarization front in the Earth's magnetotail: multi-cases study. <i>Astrophysics and Space Science</i> , <b>2015</b> , 357, 1	1.6	19
36	Kinetic simulations of secondary reconnection in the reconnection jet. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 6188-6198	2.6	23
35	Electromagnetic energy conversion at dipolarization fronts: Multispacecraft results. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4496-4502	2.6	61

34	A statistical study on the whistler waves behind dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 1086-1095	2.6	20
33	Observation of directional change of core field inside flux ropes within one reconnection diffusion region in the Earth's magnetotail. <i>Science Bulletin</i> , <b>2014</b> , 59, 4797-4803		12
32	Observation of large-amplitude magnetosonic waves at dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 4335-4347	2.6	43
31	Evidence of deflected super-Alfvénic electron jet in a reconnection region with weak guide field. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1541-1548	2.6	17
30	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> , <b>2014</b> , 119, 8228-8242	2.6	26
29	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> , <b>2014</b> , 119, 7402-7412	2.6	20
28	Plasma physics of magnetic island coalescence during magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6177-6189	2.6	30
27	KINETIC TURBULENCE IN THE TERRESTRIAL MAGNETOSHEATH: CLUSTER OBSERVATIONS. <i>Astrophysical Journal Letters</i> , <b>2014</b> , 789, L28	7.9	55
26	Effects of cold electron number density variation on whistler-mode wave growth. <i>Annales Geophysicae</i> , <b>2014</b> , 32, 889-898	2	11
25	Cluster observations of kinetic structures and electron acceleration within a dynamic plasma bubble. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 674-684	2.6	57
24	Large three-dimensional ellipsoid sphere-shaped structure of electrostatic solitary waves in the terrestrial bow shock under condition of $\beta_e/\beta_p$ . <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3356-3361	4.9	6
23	Deformation of plasma bubbles and the associated field aligned current system during substorm recovery phase. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		5
22	Observations of turbulence within reconnection jet in the presence of guide field. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	56
21	Energetic electrons associated with magnetic reconnection in the sheath of interplanetary coronal mass ejection. <i>Science Bulletin</i> , <b>2012</b> , 57, 1455-1460		7
20	Revealing the sub-structures of the magnetic reconnection separatrix via particle-in-cell simulation. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 072907	2.1	14
19	Kinetic structure and wave properties associated with sharp dipolarization front observed by Cluster. <i>Annales Geophysicae</i> , <b>2012</b> , 30, 97-107	2	106
18	Electric field structure inside the secondary island in the reconnection diffusion region. <i>Physics of Plasmas</i> , <b>2012</b> , 19, 042902	2.1	40
17	Electron acceleration in the reconnection diffusion region: Cluster observations. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	78

16	Density cavity in magnetic reconnection diffusion region in the presence of guide field. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		32
15	Three-dimensional hybrid simulation of magnetosheath reconnection under northward and southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		9
14	Wave and particle characteristics of earthward electron injections associated with dipolarization fronts. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		91
13	Wave properties in the magnetic reconnection diffusion region with high $\beta$ Application of the k-filtering method to Cluster multispacecraft data. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		41
12	THEMIS observation of multiple dipolarization fronts and associated wave characteristics in the near-Earth magnetotail. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4-9	151
11	Dynamics and waves near multiple magnetic null points in reconnection diffusion region. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		35
10	Observation of waves near lower hybrid frequency in the reconnection region with thin current sheet. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		59
9	Geotail encounter with reconnection diffusion region in the Earth's magnetotail: Evidence of multiple X lines collisionless reconnection?. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		72
8	Observation of Electrostatic Solitary Waves associated with reconnection on the dayside magnetopause boundary. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4-9	91
7	Rapid magnetic reconnection in the Earth's magnetosphere mediated by whistler waves. <i>Nature</i> , <b>2001</b> , 410, 557-60	50.4	230
6	Three-dimensional nonlinear mode coupling of the double-tearing instability. <i>Journal of Plasma Physics</i> , <b>1997</b> , 58, 223-232	2.7	1
5	Sensitivity of global energy confinement to the boundary condition due to coupling of MHD and transport processes. <i>Journal of Plasma Physics</i> , <b>1994</b> , 51, 201-210	2.7	1
4	The Short-time Prediction of the Energetic Electron Flux in the Planetary Radiation Belt Based on Stacking Ensemble-Learning Algorithm. <i>Space Weather</i> ,	3-7	2
3	Modulation of Whistler Mode Waves by Ultra-Low Frequency Wave in a Macroscale Magnetic Hole: MMS Observations. <i>Geophysical Research Letters</i> , e2021GL096056	4-9	1
2	Observations of Pitch Angle Changes of Electrons and High-frequency Wave Activities in the Magnetotail Plasma Bubble. <i>Journal of Geophysical Research: Space Physics</i> , e2021JA029761	2.6	2
1	Kinetic-Size Magnetic Holes in the Terrestrial Foreshock Region. <i>Geophysical Research Letters</i> ,	4-9	1