

X H Deng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8266511/publications.pdf>

Version: 2024-02-01

112
papers

3,507
citations

126907

33
h-index

149698

56
g-index

113
all docs

113
docs citations

113
times ranked

1568
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 127, e2021JA029761.	2.4	5
2	Formation of Negative $\langle J \rangle$... $\langle E \rangle^2$ in the Outer Electron Diffusion Region During Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	9
3	Characteristics of Turbulence Driven by Transient Magnetic Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2022, 925, 17.	4.5	5
4	Temperature-Dependent Terahertz Spectra of Isonicotinamide in the Form I Studied Using the Quasi-Harmonic Approximation. <i>ChemPhysChem</i> , 2022, 23, .	2.1	4
5	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.	8.3	10
6	The Prediction of Storm-Time Thermospheric Mass Density by LSTM-Based Ensemble Learning. <i>Space Weather</i> , 2022, 20, .	3.7	9
7	Electron-Only Magnetic Reconnection: Lessons Learned From Magnetic Island Coalescence. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
8	Sub-Structures of the Separatrix Region During Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
9	Evidence for Whistler Waves Propagating Into the Electron Diffusion Region of Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
10	Kinetic-Size Magnetic Holes in the Terrestrial Foreshock Region. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
11	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> , 2022, 929, L6.	8.3	10
12	Intense Energy Conversion Events at the Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
13	Topological Refraction in Kagome Split-Ring Photonic Insulators. <i>Nanomaterials</i> , 2022, 12, 1493.	4.1	2
14	Energization of Cold Ions in Magnetic Reconnection: Particle-in-Cell Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
15	Distribution of Negative $\langle J \rangle$... $\langle E \rangle^2$ in the Inflow Edge of the Inner Electron Diffusion Region During Tail Magnetic Reconnection: Simulations Vs. Observations. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	8
16	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.	4.5	1
17	Kinetic properties of collisionless magnetic reconnection in space plasma: in situ observations. <i>Reviews of Modern Plasma Physics</i> , 2022, 6, .	4.1	2
18	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.	4.5	1

#	ARTICLE	IF	CITATIONS
19	Three-Dimensional Electron-Scale Magnetic Reconnection in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	12
20	Observations of Secondary Magnetic Reconnection in the Turbulent Reconnection Outflow. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091215.	4.0	24
21	Whistler and Broadband Electrostatic Waves in the Multiple X-Line Reconnection at the Magnetopause. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091320.	4.0	6
22	Multi-Spacecraft Measurement of Anisotropic Spatial Correlation Functions at Kinetic Range in the Magnetosheath Turbulence. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028780.	2.4	6
23	Statistical Properties of Current, Energy Conversion, and Electron Acceleration in Flux Ropes in the Terrestrial Magnetotail. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093458.	4.0	14
24	Global Spatial Distribution of Dipolarization Fronts in the Saturn's Magnetosphere: Cassini Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092701.	4.0	11
25	Observation of High-Frequency Electrostatic Waves in the Dip Region Ahead of Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029408.	2.4	6
26	Modulation of Whistler Mode Waves by Ultra-Low Frequency Wave in a Macroscale Magnetic Hole: MMS Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096056.	4.0	6
27	Observational Evidence of Magnetic Reconnection in the Terrestrial Foreshock Region. <i>Astrophysical Journal</i> , 2021, 922, 56.	4.5	10
28	Electron-only Reconnection in an Ion-scale Current Sheet at the Magnetopause. <i>Astrophysical Journal</i> , 2021, 922, 54.	4.5	17
29	Multiple CNN Variants and Ensemble Learning for Sunspot Group Classification by Magnetic Type. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 38.	7.7	13
30	Statistics of the Intense Current Structure in the Dayside Magnetopause Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029890.	2.4	3
31	Solar Flare Prediction Based on the Fusion of Multiple Deep-learning Models. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 50.	7.7	22
32	Measurements of Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	11
33	Statistical Characteristics of Electron Pitch Angle Distributions Inside the Magnetopause Based on MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028291.	2.4	4
34	Observations of Electron-Only Magnetic Reconnection Associated With Macroscopic Magnetic Flux Ropes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089659.	4.0	13
35	Force and Energy Balance of the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028278.	2.4	19
36	First Observations of Magnetosonic Waves With Nonlinear Harmonics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027724.	2.4	13

#	ARTICLE	IF	CITATIONS
37	Excitation of Whistler Waves Through the Bidirectional Field-Aligned Electron Beams With Electron Temperature Anisotropy: MMS Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087515.	4.0	13
38	Observations of Electron Vortex at the Dipolarization Front. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088448.	4.0	18
39	Analysis of Turbulence Properties in the Mercury Plasma Environment Using MESSENGER Observations. <i>Astrophysical Journal</i> , 2020, 891, 159.	4.5	19
40	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , 2020, 892, L5.	8.3	10
41	Electron Acceleration Rate at Dipolarization Fronts. <i>Astrophysical Journal</i> , 2020, 903, 84.	4.5	12
42	Background Parameter Effects on Linear-Nonlinear Chorus Wave Growth in the Planetary Magnetosphere. <i>Astrophysical Journal</i> , 2020, 904, 105.	4.5	8
43	Prediction of the Dst Index with Bagging Ensemble-learning Algorithm. <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 14.	7.7	17
44	Electron Jets in the Terrestrial Magnetotail: A Statistical Overview. <i>Astrophysical Journal</i> , 2020, 896, 67.	4.5	9
45	Energy conversion during multiple X-lines reconnection. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	6
46	Reconnection Front Associated with Asymmetric Magnetic Reconnection: Particle-in-cell Simulations. <i>Astrophysical Journal Letters</i> , 2019, 881, L22.	8.3	15
47	Electron-scale Vertical Current Sheets in a Bursty Bulk Flow in the Terrestrial Magnetotail. <i>Astrophysical Journal Letters</i> , 2019, 872, L26.	8.3	19
48	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.	2.4	9
49	The Role of Upper Hybrid Waves in the Magnetotail Reconnection Electron Diffusion Region. <i>Astrophysical Journal Letters</i> , 2019, 881, L28.	8.3	22
50	On the Energy Conversion Rate during Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2019, 883, L22.	8.3	23
51	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019, 870, 34.	4.5	79
52	Observations of a Kinetic-Scale Magnetic Hole in a Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 6248-6257.	4.0	22
53	MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , 2019, 875, 113.	4.5	21
54	Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 580-589.	4.0	31

#	ARTICLE	IF	CITATIONS
55	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> , 2019, 214, 246-251.	3.9	11
56	Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , 2019, 46, 12693-12701.	4.0	41
57	Periodical Dipolarization Processes in Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 13640-13648.	4.0	17
58	Silibinin attenuates <i>Streptococcus suis</i> serotype 2 virulence by targeting sulysin. <i>Journal of Applied Microbiology</i> , 2019, 126, 435-442.	3.1	6
59	Improvement of a Deep Learning Algorithm for Total Electron Content Maps: Image Completion. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 790-800.	2.4	68
60	Small-scale dipolarization fronts in the Earth's magnetotail. <i>Earth and Planetary Physics</i> , 2019, 3, 358-364.	1.1	4
61	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.	7.8	40
62	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.	2.4	32
63	A new method to identify flux ropes in space plasmas. <i>Annales Geophysicae</i> , 2018, 36, 1275-1283.	1.6	4
64	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.	4.0	37
65	Observations of Whistler Waves Correlated with Electron-scale Coherent Structures in the Magnetosheath Turbulent Plasma. <i>Astrophysical Journal</i> , 2018, 861, 29.	4.5	46
66	Tripolar electric field Structure in guide field magnetic reconnection. <i>Annales Geophysicae</i> , 2018, 36, 373-379.	1.6	8
67	Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018, 862, 144.	4.5	43
68	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017, 836, L27.	8.3	85
69	Breaking Lorentz reciprocity to overcome the time-bandwidth limit in physics and engineering. <i>Science</i> , 2017, 356, 1260-1264.	12.6	174
70	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017, 119, 055101.	7.8	72
71	Occurrence rate of whistler waves in the magnetotail reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7188-7196.	2.4	30
72	Observation of Three-Dimensional Magnetic Reconnection in the Terrestrial Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9513-9520.	2.4	25

#	ARTICLE	IF	CITATIONS
73	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.	2.4	64
74	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.	2.4	44
75	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.	2.4	30
76	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858.	4.0	53
77	Two types of whistler waves in the hall reconnection region. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6639-6646.	2.4	57
78	Kinetic simulations of secondary reconnection in the reconnection jet. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6188-6198.	2.4	30
79	Electromagnetic energy conversion at dipolarization fronts: Multispacecraft results. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4496-4502.	2.4	86
80	A statistical study on the whistler waves behind dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1086-1095.	2.4	25
81	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> , 2015, 29, 691-698.	2.1	10
82	Dawn-dusk scale of dipolarization front in the Earth's magnetotail: multi-cases study. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	1.4	23
83	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.	2.4	26
84	Plasma physics of magnetic island coalescence during magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6177-6189.	2.4	34
85	KINETIC TURBULENCE IN THE TERRESTRIAL MAGNETOSHEATH: CLUSTER OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L28.	8.3	74
86	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.	1.7	13
87	Observation of large-amplitude magnetosonic waves at dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 4335-4347.	2.4	53
88	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.	2.4	23
89	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.	2.4	34
90	Effects of cold electron number density variation on whistler-mode wave growth. <i>Annales Geophysicae</i> , 2014, 32, 889-898.	1.6	12

#	ARTICLE	IF	CITATIONS
91	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.	2.4	66
92	Large three-dimensional ellipsoid sphere-shaped structure of electrostatic solitary waves in the terrestrial bow shock under condition of $\beta \ll 1$. <i>Geophysical Research Letters</i> , 2013, 40, 3356-3361.	1.0	6
93	Revealing the sub-structures of the magnetic reconnection separatrix via particle-in-cell simulation. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	18
94	Kinetic structure and wave properties associated with sharp dipolarization front observed by Cluster. <i>Annales Geophysicae</i> , 2012, 30, 97-107.	1.6	124
95	Electric field structure inside the secondary island in the reconnection diffusion region. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	53
96	Electron acceleration in the reconnection diffusion region: Cluster observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	95
97	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
98	Observations of turbulence within reconnection jet in the presence of guide field. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	78
99	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
100	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
101	Three-dimensional hybrid simulation of magnetosheath reconnection under northward and southward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
102	Wave and particle characteristics of earthward electron injections associated with dipolarization fronts. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	118
103	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, .	3.3	48
104	THEMIS observation of multiple dipolarization fronts and associated wave characteristics in the near-Earth magnetotail. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	178
105	Dynamics and waves near multiple magnetic null points in reconnection diffusion region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
106	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
107	Geotail encounter with reconnection diffusion region in the Earth's magnetotail: Evidence of multiple X lines collisionless reconnection?. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	85
108	Observation of Electrostatic Solitary Waves associated with reconnection on the dayside magnetopause boundary. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	113

#	ARTICLE	IF	CITATIONS
109	Rapid magnetic reconnection in the Earth's magnetosphere mediated by whistler waves. <i>Nature</i> , 2001, 410, 557-560.	27.8	268
110	Three-dimensional nonlinear mode coupling of the double-tearing instability. <i>Journal of Plasma Physics</i> , 1997, 58, 223-232.	2.1	1
111	Sensitivity of global energy confinement to the boundary condition due to coupling of MHD and transport processes. <i>Journal of Plasma Physics</i> , 1994, 51, 201-210.	2.1	1
112	The Short-time Prediction of the Energetic Electron Flux in the Planetary Radiation Belt Based on Stacking Ensemble Learning Algorithm. <i>Space Weather</i> , 0, , .	3.7	5