

X H Deng

List of Publications by Year in descending order

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112
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| # | 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. | 0.8 | 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, . | 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 | Temperature-Dependent Terahertz Spectra of Isonicotinamide in the Form I Studied Using the Quasi-Harmonic Approximation. <i>ChemPhysChem</i> , 2022, 23, . | 1.0 | 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. | 3.0 | 10 |
| 6 | The Prediction of Storm-Time Thermospheric Mass Density by LSTM-Based Ensemble Learning. <i>Space Weather</i> , 2022, 20, . | 1.3 | 9 |
| 7 | Electron-Only Magnetic Reconnection: Lessons Learned From Magnetic Island Coalescence. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 2 |
| 8 | Sub-Structures of the Separatrix Region During Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 4 |
| 9 | Evidence for Whistler Waves Propagating Into the Electron Diffusion Region of Collisionless Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 3 |
| 10 | Kinetic-Size Magnetic Holes in the Terrestrial Foreshock Region. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 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. | 3.0 | 10 |
| 12 | Intense Energy Conversion Events at the Magnetopause Boundary Layer. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 2 |
| 13 | Topological Refraction in Kagome Split-Ring Photonic Insulators. <i>Nanomaterials</i> , 2022, 12, 1493. | 1.9 | 2 |
| 14 | Energization of Cold Ions in Magnetic Reconnection: Particle-in-Cell Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, . | 0.8 | 3 |
| 15 | Distribution of Negative $\langle J \rangle \cdot \langle E \rangle^2$ in the Inflow Edge of the Inner Electron Diffusion Region During Tail Magnetic Reconnection: Simulations Vs. Observations. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 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. | 1.6 | 1 |
| 17 | Kinetic properties of collisionless magnetic reconnection in space plasma: in situ observations. <i>Reviews of Modern Plasma Physics</i> , 2022, 6, . | 2.2 | 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. | 1.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Three-Dimensional Electron-Scale Magnetic Reconnection in Earth's Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, . | 1.5 | 12 |
| 20 | Observations of Secondary Magnetic Reconnection in the Turbulent Reconnection Outflow. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091215. | 1.5 | 24 |
| 21 | 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 |
| 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. | 0.8 | 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. | 1.5 | 14 |
| 24 | Global Spatial Distribution of Dipolarization Fronts in the Saturn's Magnetosphere: Cassini Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092701. | 1.5 | 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. | 0.8 | 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. | 1.5 | 6 |
| 27 | Observational Evidence of Magnetic Reconnection in the Terrestrial Foreshock Region. <i>Astrophysical Journal</i> , 2021, 922, 56. | 1.6 | 10 |
| 28 | Electron-only Reconnection in an Ion-scale Current Sheet at the Magnetopause. <i>Astrophysical Journal</i> , 2021, 922, 54. | 1.6 | 17 |
| 29 | Multiple CNN Variants and Ensemble Learning for Sunspot Group Classification by Magnetic Type. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 38. | 3.0 | 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. | 0.8 | 3 |
| 31 | Solar Flare Prediction Based on the Fusion of Multiple Deep-learning Models. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 50. | 3.0 | 22 |
| 32 | Measurements of Energy Dissipation in the Electron Diffusion Region. <i>Geophysical Research Letters</i> , 2021, 48, . | 1.5 | 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. | 0.8 | 4 |
| 34 | Observations of Electron-Only Magnetic Reconnection Associated With Macroscopic Magnetic Flux Ropes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089659. | 1.5 | 13 |
| 35 | Force and Energy Balance of the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028278. | 0.8 | 19 |
| 36 | First Observations of Magnetosonic Waves With Nonlinear Harmonics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027724. | 0.8 | 13 |

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|----|--|-----|-----------|
| 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. | 1.5 | 13 |
| 38 | Observations of Electron Vortex at the Dipolarization Front. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088448. | 1.5 | 18 |
| 39 | Analysis of Turbulence Properties in the Mercury Plasma Environment Using MESSENGER Observations. <i>Astrophysical Journal</i> , 2020, 891, 159. | 1.6 | 19 |
| 40 | 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 |
| 41 | Electron Acceleration Rate at Dipolarization Fronts. <i>Astrophysical Journal</i> , 2020, 903, 84. | 1.6 | 12 |
| 42 | Background Parameter Effects on Linear-Nonlinear Chorus Wave Growth in the Planetary Magnetosphere. <i>Astrophysical Journal</i> , 2020, 904, 105. | 1.6 | 8 |
| 43 | Prediction of the Dst Index with Bagging Ensemble-learning Algorithm. <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 14. | 3.0 | 17 |
| 44 | Electron Jets in the Terrestrial Magnetotail: A Statistical Overview. <i>Astrophysical Journal</i> , 2020, 896, 67. | 1.6 | 9 |
| 45 | Energy conversion during multiple X-lines reconnection. <i>Physics of Plasmas</i> , 2020, 27, . | 0.7 | 6 |
| 46 | Reconnection Front Associated with Asymmetric Magnetic Reconnection: Particle-in-cell Simulations. <i>Astrophysical Journal Letters</i> , 2019, 881, L22. | 3.0 | 15 |
| 47 | 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 |
| 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. | 0.8 | 9 |
| 49 | The Role of Upper Hybrid Waves in the Magnetotail Reconnection Electron Diffusion Region. <i>Astrophysical Journal Letters</i> , 2019, 881, L28. | 3.0 | 22 |
| 50 | On the Energy Conversion Rate during Collisionless Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2019, 883, L22. | 3.0 | 23 |
| 51 | Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019, 870, 34. | 1.6 | 79 |
| 52 | Observations of a Kinetic-Scale Magnetic Hole in a Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 6248-6257. | 1.5 | 22 |
| 53 | MMS Observations of Kinetic-size Magnetic Holes in the Terrestrial Magnetotail Plasma Sheet. <i>Astrophysical Journal</i> , 2019, 875, 113. | 1.6 | 21 |
| 54 | Observations of Flux Ropes With Strong Energy Dissipation in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 580-589. | 1.5 | 31 |

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|----|--|-----|-----------|
| 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. | 2.0 | 11 |
| 56 | Energy Conversion and Dissipation at Dipolarization Fronts: A Statistical Overview. <i>Geophysical Research Letters</i> , 2019, 46, 12693-12701. | 1.5 | 41 |
| 57 | Periodical Dipolarization Processes in Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 13640-13648. | 1.5 | 17 |
| 58 | Silibinin attenuates <i>Streptococcus suis</i> serotype 2 virulence by targeting sulysin. <i>Journal of Applied Microbiology</i> , 2019, 126, 435-442. | 1.4 | 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. | 0.8 | 68 |
| 60 | Small-scale dipolarization fronts in the Earth's magnetotail. <i>Earth and Planetary Physics</i> , 2019, 3, 358-364. | 0.4 | 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. | 2.9 | 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. | 0.8 | 32 |
| 63 | A new method to identify flux ropes in space plasmas. <i>Annales Geophysicae</i> , 2018, 36, 1275-1283. | 0.6 | 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. | 1.5 | 37 |
| 65 | 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 |
| 66 | Tripolar electric field Structure in guide field magnetic reconnection. <i>Annales Geophysicae</i> , 2018, 36, 373-379. | 0.6 | 8 |
| 67 | Observations of the Electron Jet Generated by Secondary Reconnection in the Terrestrial Magnetotail. <i>Astrophysical Journal</i> , 2018, 862, 144. | 1.6 | 43 |
| 68 | Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017, 836, L27. | 3.0 | 85 |
| 69 | Breaking Lorentz reciprocity to overcome the time-bandwidth limit in physics and engineering. <i>Science</i> , 2017, 356, 1260-1264. | 6.0 | 174 |
| 70 | Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017, 119, 055101. | 2.9 | 72 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 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. | 0.8 | 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. | 0.8 | 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. | 0.8 | 30 |
| 76 | MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016, 43, 7850-7858. | 1.5 | 53 |
| 77 | 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 |
| 78 | Kinetic simulations of secondary reconnection in the reconnection jet. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 6188-6198. | 0.8 | 30 |
| 79 | Electromagnetic energy conversion at dipolarization fronts: Multispacecraft results. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4496-4502. | 0.8 | 86 |
| 80 | A statistical study on the whistler waves behind dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1086-1095. | 0.8 | 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. | 1.1 | 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. | 0.5 | 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. | 0.8 | 26 |
| 84 | Plasma physics of magnetic island coalescence during magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6177-6189. | 0.8 | 34 |
| 85 | KINETIC TURBULENCE IN THE TERRESTRIAL MAGNETOSHEATH: CLUSTER OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L28. | 3.0 | 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. | 0.8 | 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. | 0.8 | 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. | 0.8 | 34 |
| 90 | Effects of cold electron number density variation on whistler-mode wave growth. <i>Annales Geophysicae</i> , 2014, 32, 889-898. | 0.6 | 12 |

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|-----|--|-----|-----------|
| 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. | 0.8 | 66 |
| 92 | Large three-dimensional ellipsoid sphere-shaped structure of electrostatic solitary waves in the terrestrial bow shock under condition of $\hat{I}_{ce} / \hat{I}_{pe} \ll 1$. <i>Geophysical Research Letters</i> , 2013, 40, 3356-3361. | | 6 |
| 93 | Revealing the sub-structures of the magnetic reconnection separatrix via particle-in-cell simulation. <i>Physics of Plasmas</i> , 2012, 19, . | 0.7 | 18 |
| 94 | Kinetic structure and wave properties associated with sharp dipolarization front observed by Cluster. <i>Annales Geophysicae</i> , 2012, 30, 97-107. | 0.6 | 124 |
| 95 | Electric field structure inside the secondary island in the reconnection diffusion region. <i>Physics of Plasmas</i> , 2012, 19, . | 0.7 | 53 |
| 96 | Electron acceleration in the reconnection diffusion region: Cluster observations. <i>Geophysical Research Letters</i> , 2012, 39, . | 1.5 | 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, . | 1.5 | 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 \hat{I}^2 : 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, . | 1.5 | 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, . | 1.5 | 113 |

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|-----|--|------|-----------|
| 109 | Rapid magnetic reconnection in the Earth's magnetosphere mediated by whistler waves. <i>Nature</i> , 2001, 410, 557-560. | 13.7 | 268 |
| 110 | Three-dimensional nonlinear mode coupling of the double-tearing instability. <i>Journal of Plasma Physics</i> , 1997, 58, 223-232. | 0.7 | 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. | 0.7 | 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, , . | 1.3 | 5 |