

Stephen Fuselier

List of Publications by Year in descending order

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338
papers

17,398
citations

13068

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docs citations

351
times ranked

5676
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , 2022, 29, . | 0.7 | 5 |
| 2 | Refractory elements in the gas phase for comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2022, 658, A87. | 2.1 | 1 |
| 3 | Dual storage and release of molecular oxygen in comet 67P/Churyumov-Gerasimenko. <i>Nature Astronomy</i> , 2022, 6, 724-730. | 4.2 | 8 |
| 4 | Determining the Near-Instantaneous Curvature of Earth's Bow Shock Using Simultaneous IBEX and MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, . | 0.8 | 2 |
| 5 | High D/H ratios in water and alkanes in comet 67P/Churyumov-Gerasimenko measured with Rosetta/ROSINA DFMS. <i>Astronomy and Astrophysics</i> , 2022, 662, A69. | 2.1 | 16 |
| 6 | H ⁺ Pitch Angle Distributions in the Outer Magnetosphere Observed by MMS HPCA. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, . | 0.8 | 2 |
| 7 | Interstellar Neutral He Parameters from Crossing Parameter Tubes with the Interstellar Mapping and Acceleration Probe Informed by 10 yr of Interstellar Boundary Explorer Observations. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 7. | 3.0 | 12 |
| 8 | Very Local Interstellar Medium Revealed by a Complete Solar Cycle of Interstellar Neutral Helium Observations with IBEX. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 42. | 3.0 | 25 |
| 9 | Automatic Identification and New Observations of Ion Energy Dispersion Events in the Cusp Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, . | 0.8 | 2 |
| 10 | Parker Solar Probe Observations of Solar Wind Energetic Proton Beams Produced by Magnetic Reconnection in the Near-Sun Heliospheric Current Sheet. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 15 |
| 11 | Multiple Reconnection X ₁ Lines at the Magnetopause and Overlapping Cusp Ion Injections. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, . | 0.8 | 4 |
| 12 | Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. <i>Physics of Plasmas</i> , 2022, 29, . | 0.7 | 7 |
| 13 | On the Occurrence of Magnetic Reconnection Along the Terrestrial Magnetopause, Using Magnetospheric Multiscale (MMS) Observations in Proximity to the Reconnection Site. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, . | 0.8 | 3 |
| 14 | On the Energization of Pickup Ions Downstream of the Heliospheric Termination Shock by Comparing 0.52-55 keV Observed Energetic Neutral Atom Spectra to Ones Inferred from Proton Hybrid Simulations. <i>Astrophysical Journal Letters</i> , 2022, 931, L21. | 3.0 | 11 |
| 15 | Interferometric Study of Ionospheric Plasma Irregularities in Regions of Phase Scintillations and HF Backscatter. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 8 |
| 16 | Investigating the Occurrence of Magnetic Reconnection at Jupiter's Dawn Magnetopause During the Juno Era. <i>Geophysical Research Letters</i> , 2022, 49, . | 1.5 | 7 |
| 17 | High-Density Magnetospheric He ⁺ at the Dayside Magnetopause and Its Effect on Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, . | 0.8 | 3 |
| 18 | The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , 2021, 908, 40. | 1.6 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Evidence for Nonadiabatic Oxygen Energization in the Near-Earth Magnetotail From MMS. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091697. | 1.5 | 5 |
| 20 | Flux Transfer Events at a Reconnection-Suppressed Magnetopause: Cassini Observations at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028786. | 0.8 | 10 |
| 21 | An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028903. | 0.8 | 8 |
| 22 | MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2019JA027698. | 0.8 | 15 |
| 23 | Determining EMIC Wave Vector Properties Through Multi-Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028922. | 0.8 | 10 |
| 24 | The Location of Magnetic Reconnection at Earth's Magnetopause. <i>Space Science Reviews</i> , 2021, 217, 41. | 3.7 | 24 |
| 25 | Long and Active Magnetopause Reconnection X-Lines During Changing IMF Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028926. | 0.8 | 8 |
| 26 | Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092376. | 1.5 | 6 |
| 27 | Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028912. | 0.8 | 6 |
| 28 | A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029294. | 0.8 | 0 |
| 29 | MMS Observations of Energized He ⁺ Pickup Ions at Quasiperpendicular Shocks. <i>Astrophysical Journal</i> , 2021, 913, 112. | 1.6 | 2 |
| 30 | Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earth's Magnetopause. <i>Astrophysical Journal</i> , 2021, 914, 26. | 1.6 | 6 |
| 31 | Direct Evidence for Magnetic Reflection of Heavy Ions from High Mach Number Collisionless Shocks. <i>Astrophysical Journal Letters</i> , 2021, 915, L19. | 3.0 | 6 |
| 32 | Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000707. | 9.0 | 26 |
| 33 | Energetic Neutral Atom Fluxes from the Heliosheath: Constraints from in situ Measurements and Models. <i>Astrophysical Journal Letters</i> , 2021, 915, L26. | 3.0 | 9 |
| 34 | Probing the Magnetosheath Boundaries Using Interstellar Boundary Explorer (IBEX) Orbital Encounters. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029278. | 0.8 | 4 |
| 35 | Multipoint Density Measurements of Geocoronal Pickup Ions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093695. | 1.5 | 2 |
| 36 | Composition of Coronal Hole Boundary Layers at Low Heliographic Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029187. | 0.8 | 0 |

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|----|--|-----|-----------|
| 37 | Upperâ€Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. Geophysical Research Letters, 2021, 48, e2021GL093164. | 1.5 | 13 |
| 38 | TRICE 2 Observations of Lowâ€Energy Magnetospheric Ions Within the Cusp. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029382. | 0.8 | 4 |
| 39 | Anomalous Reconnection Layer at Earth's Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029678. | 0.8 | 1 |
| 40 | Modulated Upperâ€Hybrid Waves Coincident With Lowerâ€Hybrid Waves in the Cusp. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029590. | 0.8 | 3 |
| 41 | Application of Cold and Hot Plasma Composition Measurements to Investigate Impacts on Duskâ€Side Electromagnetic Ion Cyclotron Waves. Journal of Geophysical Research: Space Physics, 2021, 126, . | 0.8 | 5 |
| 42 | Quantification of Cold-Ion Beams in a Magnetic Reconnection Jet. Frontiers in Astronomy and Space Sciences, 2021, 8, . | 1.1 | 4 |
| 43 | Solar wind â€magnetosphere coupling during radial interplanetary magnetic field conditions: simultaneous multiâ€point observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029506. | 0.8 | 1 |
| 44 | Reconnection Xâ€Line Orientations at the Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029789. | 0.8 | 6 |
| 45 | Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earthâ€™s Magnetotail. Physical Review Letters, 2021, 127, 215101. | 2.9 | 15 |
| 46 | Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029389. | 0.8 | 1 |
| 47 | Signature of a Heliotail Organized by the Solar Magnetic Field and the Role of Nonideal Processes in Modeled IBEX ENA Maps: A Comparison of the BU and Moscow MHD Models. Astrophysical Journal, 2021, 921, 164. | 1.6 | 14 |
| 48 | A Turbulent Heliosheath Driven by the Rayleighâ€Taylor Instability. Astrophysical Journal, 2021, 922, 181. | 1.6 | 21 |
| 49 | Breathing of the Heliosphere. Astrophysical Journal, 2021, 922, 250. | 1.6 | 7 |
| 50 | The Development of a Split-tail Heliosphere and the Role of Non-ideal Processes: A Comparison of the BU and Moscow Models. Astrophysical Journal, 2021, 923, 179. | 1.6 | 14 |
| 51 | Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027985. | 0.8 | 10 |
| 52 | Ionospheric Oxygen ions in the dayside magnetosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 210, 105448. | 0.6 | 3 |
| 53 | Magnetospheric Multiscale Observation of an Electron Diffusion Region at High Latitudes. Geophysical Research Letters, 2020, 47, e2020GL087268. | 1.5 | 8 |
| 54 | First Global Images of Ion Energization in the Terrestrial Foreshock by the Interstellar Boundary Explorer. Geophysical Research Letters, 2020, 47, e2020GL088188. | 1.5 | 4 |

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|----|---|-----|-----------|
| 55 | The 18 November 2015 Magnetopause Crossing: The GEM Dayside Kinetic Challenge Event Observed by MMS/HPCA. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027617. | 0.8 | 7 |
| 56 | Molecule-dependent oxygen isotopic ratios in the coma of comet 67P/Churyumovâ€“Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5855-5862. | 1.6 | 13 |
| 57 | Neutral Atom Imaging of the Solar Windâ€“Magnetosphereâ€“Exosphere Interaction Near the Subsolar Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089362. | 1.5 | 14 |
| 58 | Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082. | 1.5 | 23 |
| 59 | Reconnection at the Heliopause: Comparing the Voyager 1 and 2 Heliopause Crossings. <i>Journal of Physics: Conference Series</i> , 2020, 1620, 012004. | 0.3 | 4 |
| 60 | Chargeâ€“Stateâ€“Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028144. | 0.8 | 8 |
| 61 | Statistical Study of Oxygen Ions Abundance and Spatial Distribution in the Dayside Magnetopause Boundary Layer: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027323. | 0.8 | 4 |
| 62 | Magnetospheric Multiscale observations of energetic oxygen ions at the duskside magnetopause during intense substorms. <i>Annales Geophysicae</i> , 2020, 38, 123-135. | 0.6 | 2 |
| 63 | Suppression of Magnetic Reconnection at Saturn's Lowâ€“Latitude Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027895. | 0.8 | 11 |
| 64 | Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027778. | 0.8 | 8 |
| 65 | On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Eventâ€“Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086726. | 1.5 | 20 |
| 66 | MMS Observations of Accelerated Interstellar Pickup He ⁺ Ions at an Interplanetary Shock. <i>Astrophysical Journal</i> , 2020, 897, 6. | 1.6 | 2 |
| 67 | Selective Acceleration of O ⁺ by Driftâ€“Bounce Resonance in the Earth's Magnetosphere: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027686. | 0.8 | 9 |
| 68 | ALMA and ROSINA detections of phosphorus-bearing molecules: the interstellar thread between star-forming regions and comets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 1180-1198. | 1.6 | 58 |
| 69 | Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027119. | 0.8 | 32 |
| 70 | Characteristics of the Flank Magnetopause: MMS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027623. | 0.8 | 24 |
| 71 | Sequential Observations of Flux Transfer Events, Polewardâ€“Moving Auroral Forms, and Polar Cap Patches. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027674. | 0.8 | 12 |
| 72 | ROSINA ion zoo at Comet 67P. <i>Astronomy and Astrophysics</i> , 2020, 642, A27. | 2.1 | 14 |

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|----|--|-----|-----------|
| 73 | Prestellar grain-surface origins of deuterated methanol in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 4901-4920. | 1.6 | 24 |
| 74 | Combined ~ 10 eV to ~ 344 MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. <i>Astrophysical Journal Letters</i> , 2020, 905, L24. | 3.0 | 24 |
| 75 | Helium in the Earth's foreshock: a global Vlasov survey. <i>Annales Geophysicae</i> , 2020, 38, 1081-1099. | 0.6 | 6 |
| 76 | CHO-Bearing Molecules in Comet 67P/Churyumov-Gerasimenko. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1854-1861. | 1.2 | 20 |
| 77 | Elemental and molecular abundances in comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 594-607. | 1.6 | 112 |
| 78 | Energy Conversion and Electron Acceleration in the Magnetopause Reconnection Diffusion Region. <i>Geophysical Research Letters</i> , 2019, 46, 10274-10282. | 1.5 | 10 |
| 79 | Aliphatic and aromatic hydrocarbons in comet 67P/Churyumov-Gerasimenko seen by ROSINA. <i>Astronomy and Astrophysics</i> , 2019, 630, A31. | 2.1 | 36 |
| 80 | Position-dependent microchannel plate gain correction in Rosetta's ROSINA/DFMS mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2019, 446, 116232. | 0.7 | 11 |
| 81 | MMS Measurements and Modeling of Peculiar Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , 2019, 46, 11622-11631. | 1.5 | 8 |
| 82 | The Cold Ion Population at Geosynchronous Orbit and Transport to the Dayside Magnetopause: September 2015 to February 2016. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8685-8694. | 0.8 | 4 |
| 83 | MMS Observations of Multiscale Hall Physics in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 10230-10239. | 1.5 | 5 |
| 84 | Four spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Near-Earth Plasma Environment. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6850-6868. | 0.8 | 7 |
| 85 | Calibration of parent and fragment ion detection rates in Rosetta's ROSINA/DFMS mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2019, 446, 116233. | 0.7 | 4 |
| 86 | Reconnection With Magnetic Flux Pileup at the Interface of Converging Jets at the Magnetopause. <i>Geophysical Research Letters</i> , 2019, 46, 1937-1946. | 1.5 | 36 |
| 87 | Event Studies of O ⁺ Density Variability Within Quiet-Time Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4168-4187. | 0.8 | 2 |
| 88 | High-Resolution Measurements of the Cross-Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3961-3978. | 0.8 | 36 |
| 89 | Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2019, 46, 6204-6213. | 1.5 | 21 |
| 90 | EMIC Waves in the Outer Magnetosphere: Observations of an Off-Equator Source Region. <i>Geophysical Research Letters</i> , 2019, 46, 5707-5716. | 1.5 | 29 |

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|-----|---|-----|-----------|
| 91 | Cometary Chemistry and the Origin of Icy Solar System Bodies: The View After Rosetta. Annual Review of Astronomy and Astrophysics, 2019, 57, 113-155. | 8.1 | 108 |
| 92 | First MMS Observation of Energetic Particles Trapped in High-Latitude Magnetic Field Depressions. Journal of Geophysical Research: Space Physics, 2019, 124, 197-210. | 0.8 | 17 |
| 93 | In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. Physical Review E, 2019, 99, 043204. | 0.8 | 11 |
| 94 | Observations of Magnetic Reconnection in the Transition Region of Quasi-Parallel Shocks. Geophysical Research Letters, 2019, 46, 1177-1184. | 1.5 | 51 |
| 95 | The Extra-Magnetospheric Ion Environment as Observed by the Magnetospheric Multiscale Mission Hot Plasma Composition Analyzer (MMS-HPCA). Journal of Geophysical Research: Space Physics, 2019, 124, 1509-1524. | 0.8 | 6 |
| 96 | Electrostatic Spacecraft Potential Structure and Wake Formation Effects for Characterization of Cold Ion Beams in the Earth's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 10048-10062. | 0.8 | 17 |
| 97 | Comparison of neutral outgassing of comet 67P/Churyumov-Gerasimenko inbound and outbound beyond 3 AU from ROSINA/DFMS. Astronomy and Astrophysics, 2019, 630, A30. | 2.1 | 8 |
| 98 | Stationarity of the Reconnection X-Line at Earth's Magnetopause for Southward IMF. Journal of Geophysical Research: Space Physics, 2019, 124, 8524-8534. | 0.8 | 14 |
| 99 | An Investigation of Flow Shear and Diamagnetic Drift Effects on Magnetic Reconnection at Saturn's Dawnside Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 8457-8473. | 0.8 | 11 |
| 100 | Terrestrial Energetic Neutral Atom Emissions and the Ground-Based Geomagnetic Indices: Implications From IBEX Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 8761-8777. | 0.8 | 5 |
| 101 | Can Reconnection be Triggered as a Solar Wind Directional Discontinuity Crosses the Bow Shock? A Case of Asymmetric Reconnection. Journal of Geophysical Research: Space Physics, 2019, 124, 8507-8523. | 0.8 | 10 |
| 102 | High-density O ⁺ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. Journal of Geophysical Research: Space Physics, 2019, 124, 10257-10269. | 0.8 | 14 |
| 103 | Acceleration of Interstellar Pickup He ⁺ at Earth's Perpendicular Bow Shock. Geophysical Research Letters, 2019, 46, 10735-10743. | 1.5 | 6 |
| 104 | The He ⁺⁺ /H ⁺ Density Ratio Across Earth's Subsolar Magnetopause and Its Implications for the Presence of a Mass-Dependent Reflection Coefficient. Journal of Geophysical Research: Space Physics, 2019, 124, 9893-9903. | 0.8 | 3 |
| 105 | Radiation Pressure from Interstellar Hydrogen Observed by IBEX through Solar Cycle 24. Astrophysical Journal, 2019, 887, 217. | 1.6 | 18 |
| 106 | Interstellar Neutral Helium in the Heliosphere from IBEX Observations. V. Observations in IBEX-Lo ESA Steps 1, 2, and 3. Astrophysical Journal, 2018, 854, 119. | 1.6 | 34 |
| 107 | The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. Journal of Geophysical Research: Space Physics, 2018, 123, 93-103. | 0.8 | 26 |
| 108 | Large-Scale Survey of the Structure of the Dayside Magnetopause by MMS. Journal of Geophysical Research: Space Physics, 2018, 123, 2018-2033. | 0.8 | 27 |

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|-----|---|-----|-----------|
| 109 | Direct Evidence for Throat Aurora Being the Ionospheric Signature of Magnetopause Transient and Reflecting Localized Magnetopause Indentations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2658-2667. | 0.8 | 27 |
| 110 | MMS Observation of Shock-Reflected He ⁺⁺ at Earth's Quasi-Perpendicular Bow Shock. <i>Geophysical Research Letters</i> , 2018, 45, 49-55. | 1.5 | 11 |
| 111 | Wave Phenomena and Beam-Plasma Interactions at the Magnetopause Reconnection Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1118-1133. | 0.8 | 19 |
| 112 | Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1779-1793. | 0.8 | 35 |
| 113 | Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8983-9004. | 0.8 | 3 |
| 114 | Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1260-1278. | 0.8 | 32 |
| 115 | How Accurately Can We Measure the Reconnection Rate $\langle i \rangle_E$ for the MMS Diffusion Region Event of 11 July 2017?. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9130-9149. | 0.8 | 64 |
| 116 | Electron Reconnection in the Magnetopause Current Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9222-9238. | 0.8 | 15 |
| 117 | Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4858-4878. | 0.8 | 79 |
| 118 | Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 1. | 3.0 | 37 |
| 119 | The Transition Between Antiparallel and Component Magnetic Reconnection at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,177. | 0.8 | 12 |
| 120 | Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395. | 6.0 | 221 |
| 121 | Nonlobe Reconnection at the Earth's Magnetopause for Northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8275-8291. | 0.8 | 8 |
| 122 | MMS, Van Allen Probes, GOES 13, and Ground-Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8331-8357. | 0.8 | 30 |
| 123 | Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1. | 3.7 | 129 |
| 124 | Observational Evidence of Large-Scale Multiple Reconnection at the Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8407-8421. | 0.8 | 21 |
| 125 | Origin of Molecular Oxygen in Comets: Current Knowledge and Perspectives. <i>Space Science Reviews</i> , 2018, 214, 1. | 3.7 | 23 |
| 126 | Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 11,520. | 1.5 | 28 |

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|-----|--|------|-----------|
| 127 | Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma. <i>Science</i> , 2018, 361, 1000-1003. | 6.0 | 36 |
| 128 | Concomitant Double Ion and Electron Populations in the Earth's Magnetopause Boundary Layers From Double Reconnection With Lobe and Closed Field Lines. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5407-5419. | 0.8 | 5 |
| 129 | Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , 2018, 561, 206-210. | 13.7 | 47 |
| 130 | On the origin of molecular oxygen in cometary comae. <i>Nature Communications</i> , 2018, 9, 2580. | 5.8 | 22 |
| 131 | Krypton isotopes and noble gas abundances in the coma of comet 67P/Churyumov-Gerasimenko. <i>Science Advances</i> , 2018, 4, eaar6297. | 4.7 | 52 |
| 132 | MMS Observations of Harmonic Electromagnetic Ion Cyclotron Waves. <i>Geophysical Research Letters</i> , 2018, 45, 8764-8772. | 1.5 | 18 |
| 133 | Intense Electric Fields and Electron-Scale Substructure Within Magnetotail Flux Ropes as Revealed by the Magnetospheric Multiscale Mission. <i>Geophysical Research Letters</i> , 2018, 45, 8783-8792. | 1.5 | 34 |
| 134 | New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. <i>Astrophysical Journal</i> , 2018, 859, 127. | 1.6 | 23 |
| 135 | Field-Aligned Currents Originating From the Magnetic Reconnection Region: Conjugate MMS-ARTEMIS Observations. <i>Geophysical Research Letters</i> , 2018, 45, 5836-5844. | 1.5 | 9 |
| 136 | On the occurrence of magnetic reconnection equatorward of the cusps at the Earth's magnetopause during northward IMF conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 605-617. | 0.8 | 13 |
| 137 | Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5466-5486. | 0.8 | 48 |
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