# M K Dougherty

## List of Publications by Year in descending order



| | | | |
|---|---|---|---|
| 318 papers | 14,646 citations | 14655 66 h-index | 33894 99 g-index |
| 324 all docs | 324 docs citations | 324 times ranked | 3417 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | JUpiter ICy moons Explorer (JUICE): An ESA mission to orbit Ganymede and to characterise the Jupiter system. Planetary and Space Science, 2013, 78, 1-21. | 1.7 | 455 |
| 2 | The Cassini Magnetic Field Investigation. Space Science Reviews, 2004, 114, 331-383. | 8.1 | 434 |
| 3 | Multiâ€instrument analysis of electron populations in Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, . | 3.3 | 342 |
| 4 | Identification of a Dynamic Atmosphere at Enceladus with the Cassini Magnetometer. Science, 2006, 311, 1406-1409. | 12.6 | 338 |
| 5 | The Variable Rotation Period of the Inner Region of Saturn's Plasma Disk. Science, 2007, 316, 442-445. | 12.6 | 223 |
| 6 | Cassini Magnetometer Observations During Saturn Orbit Insertion. Science, 2005, 307, 1266-1270. | 12.6 | 211 |
| 7 | A pulsating auroral X-ray hot spot on Jupiter. Nature, 2002, 415, 1000-1003. | 27.8 | 183 |
| 8 | Control of Jupiter's radio emission and aurorae by the solar wind. Nature, 2002, 415, 985-987. | 27.8 | 171 |
| 9 | Response of Jupiter's and Saturn's auroral activity to the solar wind. Journal of Geophysical Research, 2009, 114, . | 3.3 | 161 |
| 10 | Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter. Nature, 2005, 433, 717-719. | 27.8 | 155 |
| 11 | Warping of Saturn's magnetospheric and magnetotail current sheets. Journal of Geophysical Research, 2008, 113, . | 3.3 | 148 |
| 12 | A new form of Saturn's magnetopause using a dynamic pressure balance model, based on in situ, multiâ€instrument Cassini measurements. Journal of Geophysical Research, 2010, 115, . | 3.3 | 145 |
| 13 | Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions. Planetary and Space Science, 2009, 57, 1732-1742. | 1.7 | 140 |
| 14 | Titan's Magnetic Field Signature During the First Cassini Encounter. Science, 2005, 308, 992-995. | 12.6 | 133 |
| 15 | Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. Journal of Geophysical Research, 2006, 111, . | 3.3 | 133 |
| 16 | Magnetic Field Observations During the Ulysses Flyby of Jupiter. Science, 1992, 257, 1515-1518. | 12.6 | 132 |
| 17 | Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. Journal of Geophysical Research, 2008, 113, . | 3.3 | 127 |
| 18 | Solar wind dynamic pressure and electric field as the main factors controlling Saturn's aurorae. Nature, 2005, 433, 720-722. | 27.8 | 126 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Energetic ion acceleration in Saturn's magnetotail: Substorms at Saturn?. Geophysical Research Letters, 2005, 32, . | 4.0 | 124 |
| 20 | Ion and neutral sources and sinks within Saturn's inner magnetosphere: Cassini results. Planetary and Space Science, 2008, 56, 3-18. | 1.7 | 119 |
| 21 | The Magnetic Memory of Titan's Ionized Atmosphere. Science, 2008, 321, 1475-1478. | 12.6 | 119 |
| 22 | Interplanetary magnetic field at â^¼9 AU during the declining phase of the solar cycle and its implications for Saturn's magnetospheric dynamics. Journal of Geophysical Research, 2004, 109, . | 3.3 | 114 |
| 23 | A regular period for Saturn's magnetic field that may track its internal rotation. Nature, 2006, 441, 62-64. | 27.8 | 113 |
| 24 | Periodic perturbations in Saturn's magnetic field. Geophysical Research Letters, 2000, 27, 2785-2788. | 4.0 | 109 |
| 25 | Cassini observations of the variation of Saturn's ring current parameters with system size. Journal of Geophysical Research, 2007, 112, . | 3.3 | 108 |
| 26 | Saturnâ€™s magnetic field revealed by the Cassini Grand Finale. Science, 2018, 362, . | 12.6 | 108 |
| 27 | An Earth-like correspondence between Saturn's auroral features and radio emission. Nature, 2005, 433, 722-725. | 27.8 | 104 |
| 28 | The importance of plasma Î² conditions for magnetic reconnection at Saturn's magnetopause. Geophysical Research Letters, 2012, 39, . | 4.0 | 102 |
| 29 | Cassini observations of a Kelvinâ€Helmholtz vortex in Saturn's outer magnetosphere. Journal of Geophysical Research, 2010, 115, . | 3.3 | 100 |
| 30 | Planetary period oscillations in Saturn's magnetosphere: Phase relation of equatorial magnetic field oscillations and Saturn kilometric radiation modulation. Journal of Geophysical Research, 2008, 113, . | 3.3 | 98 |
| 31 | Comparisons between MHD model calculations and observations of Cassini flybys of Titan. Journal of Geophysical Research, 2006, 111, . | 3.3 | 95 |
| 32 | Evidence for reconnection at Saturn's magnetopause. Journal of Geophysical Research, 2008, 113, . | 3.3 | 94 |
| 33 | Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. Geophysical Research Letters, 2007, 34, . | 4.0 | 93 |
| 34 | In situ observations of a solar wind compression-induced hot plasma injection in Saturn's tail. Geophysical Research Letters, 2005, 32, . | 4.0 | 92 |
| 35 | Magnetospheric period oscillations at Saturn: Comparison of equatorial and highâ€latitude magnetic field periods with north and south Saturn kilometric radiation periods. Journal of Geophysical Research, 2010, 115, . | 3.3 | 92 |
| 36 | Saturn's magnetodisc current sheet. Journal of Geophysical Research, 2008, 113, . | 3.3 | 89 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Planetary period oscillations in Saturn's magnetosphere: Evolution of magnetic oscillation properties from southern summer to postâ€equinox. Journal of Geophysical Research, 2012, 117, . | 3.3 | 88 |
| 38 | Fieldâ€aligned currents in Saturn's southern nightside magnetosphere: Subcorotation and planetary period oscillation components. Journal of Geophysical Research: Space Physics, 2014, 119, 9847-9899. | 2.4 | 87 |
| 39 | Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890. | 2.4 | 87 |
| 40 | Largeâ€scale dynamics of Saturn's magnetopause: Observations by Cassini. Journal of Geophysical Research, 2008, 113, . | 3.3 | 86 |
| 41 | Fine jet structure of electrically charged grains in Enceladus' plume. Geophysical Research Letters, 2009, 36, . | 4.0 | 86 |
| 42 | Plasma in Saturn's nightside magnetosphere and the implications for global circulation. Planetary and Space Science, 2009, 57, 1714-1722. | 1.7 | 85 |
| 43 | Periodic motion of Saturn's nightside plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 84 |
| 44 | Electron sources in Saturn's magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 83 |
| 45 | Polarization and phase of planetaryâ€period magnetic field oscillations on highâ€latitude field lines in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, . | 3.3 | 83 |
| 46 | Saturn's internal planetary magnetic field. Geophysical Research Letters, 2010, 37, . | 4.0 | 83 |
| 47 | Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. Journal of Geophysical Research, 2006, 111, . | 3.3 | 82 |
| 48 | Energetic particle pressure in Saturn's magnetosphere measured with the Magnetospheric Imaging Instrument on Cassini. Journal of Geophysical Research, 2009, 114, . | 3.3 | 82 |
| 49 | The auroral footprint of Enceladus on Saturn. Nature, 2011, 472, 331-333. | 27.8 | 82 |
| 50 | Ion conics and electron beams associated with auroral processes on Saturn. Journal of Geophysical Research, 2009, 114, . | 3.3 | 81 |
| 51 | Ring current at Saturn: Energetic particle pressure in Saturn's equatorial magnetosphere measured with Cassini/MIMI. Geophysical Research Letters, 2007, 34, . | 4.0 | 79 |
| 52 | Plasmoids in Saturn's magnetotail. Journal of Geophysical Research, 2008, 113, . | 3.3 | 79 |
| 53 | Evidence for temporal variability of Enceladus' gas jets: Modeling of Cassini observations. Geophysical Research Letters, 2008, 35, . | 4.0 | 78 |
| 54 | TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946. | 3.7 | 77 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Sources of rotational signals in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, . | 3.3 | 74 |
| 56 | Properties of Saturn kilometric radiation measured within its source region. Geophysical Research Letters, 2010, 37, . | 4.0 | 74 |
| 57 | How can Saturn impose its rotation period in a noncorotating magnetosphere?. Journal of Geophysical Research, 2003, 108, . | 3.3 | 73 |
| 58 | The electron density of Saturn's magnetosphere. Annales Geophysicae, 2009, 27, 2971-2991. | 1.6 | 73 |
| 59 | Bursty magnetic reconnection at Saturn's magnetopause. Geophysical Research Letters, 2013, 40, 1027-1031. | 4.0 | 73 |
| 60 | Saturn's very axisymmetric magnetic field: No detectable secular variation or tilt. Earth and Planetary Science Letters, 2011, 304, 22-28. | 4.4 | 70 |
| 61 | Dual periodicities in planetaryâ€period magnetic field oscillations in Saturn's tail. Journal of Geophysical Research, 2012, 117, . | 3.3 | 70 |
| 62 | Fieldâ€aligned currents in Saturn's northern nightside magnetosphere: Evidence for interhemispheric current flow associated with planetary period oscillations. Journal of Geophysical Research: Space Physics, 2015, 120, 7552-7584. | 2.4 | 70 |
| 63 | Equatorial electron density measurements in Saturn's inner magnetosphere. Geophysical Research Letters, 2005, 32, . | 4.0 | 69 |
| 64 | Cassini observations of planetary-period magnetic field oscillations in Saturn's magnetosphere: Doppler shifts and phase motion. Geophysical Research Letters, 2006, 33, . | 4.0 | 69 |
| 65 | Saturn's dynamic magnetotail: A comprehensive magnetic field and plasma survey of plasmoids and traveling compression regions and their role in global magnetospheric dynamics. Journal of Geophysical Research: Space Physics, 2014, 119, 5465-5494. | 2.4 | 69 |
| 66 | Surface waves on Saturn's dawn flank magnetopause driven by the Kelvinâ€“Helmholtz instability. Planetary and Space Science, 2009, 57, 1769-1778. | 1.7 | 68 |
| 67 | Titan's highly dynamic magnetic environment: A systematic survey of Cassini magnetometer observations from flybys TAâ€“T62. Planetary and Space Science, 2010, 58, 1230-1251. | 1.7 | 68 |
| 68 | Magnetic field oscillations near the planetary period in Saturn's equatorial magnetosphere: Variation of amplitude and phase with radial distance and local time. Journal of Geophysical Research, 2010, 115, . | 3.3 | 66 |
| 69 | Ion cyclotron waves in Saturn's E ring: Initial Cassini observations. Geophysical Research Letters, 2006, 33, . | 4.0 | 65 |
| 70 | Mass loading of Saturn's magnetosphere near Enceladus. Journal of Geophysical Research, 2007, 112, . | 3.3 | 64 |
| 71 | Electron microdiffusion in the Saturnian radiation belts: Cassini MIMI/LEMMS observations of energetic electron absorption by the icy moons. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 63 |
| 72 | A possible intrinsic mechanism for the quasi-periodic dynamics of the Jovian magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 62 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Magnetospheric period magnetic field oscillations at Saturn: Equatorial phase â€œjitterâ€•produced by superposition of southern and northern period oscillations. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 62 |
| 74 | Electron acceleration to relativistic energies at a strong quasi-parallel shock wave. Nature Physics, 2013, 9, 164-167. | 16.7 | 62 |
| 75 | Supersonic winds in Jupiter's aurorae. Nature, 1999, 399, 121-124. | 27.8 | 60 |
| 76 | Observations of chorus at Saturn using the Cassini Radio and Plasma Wave Science instrument. Journal of Geophysical Research, 2008, 113, . | 3.3 | 60 |
| 77 | Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. Annales Geophysicae, 2008, 26, 2613-2630. | 1.6 | 60 |
| 78 | Planetary period magnetic field oscillations in Saturn's magnetosphere: Postequinox abrupt nonmonotonic transitions to northern system dominance. Journal of Geophysical Research: Space Physics, 2013, 118, 3243-3264. | 2.4 | 58 |
| 79 | Global MHD simulations of Saturn's magnetosphere at the time of Cassini approach. Geophysical Research Letters, 2005, 32, . | 4.0 | 57 |
| 80 | Enceladus' Varying Imprint on the Magnetosphere of Saturn. Science, 2006, 311, 1412-1415. | 12.6 | 57 |
| 81 | Mass of Saturn's magnetodisc: Cassini observations. Geophysical Research Letters, 2007, 34, . | 4.0 | 57 |
| 82 | Magnetic field structure of Saturn's dayside magnetosphere and its mapping to the ionosphere: Results from ring current modeling. Journal of Geophysical Research, 2008, 113, . | 3.3 | 57 |
| 83 | On the character and distribution of lowerâ€frequency radio emissions at Saturn and their relationship to substormâ€like events. Journal of Geophysical Research, 2009, 114, . | 3.3 | 57 |
| 84 | Particle pressure, inertial force, and ring current density profiles in the magnetosphere of Saturn, based on Cassini measurements. Geophysical Research Letters, 2010, 37, . | 4.0 | 57 |
| 85 | NATURE OF THE MHD AND KINETIC SCALE TURBULENCE IN THE MAGNETOSHEATH OF SATURN: CASSINI OBSERVATIONS. Astrophysical Journal Letters, 2015, 813, L29. | 8.3 | 57 |
| 86 | Reanalysis of Saturn's magnetospheric field data view of spin-periodic perturbations. Journal of Geophysical Research, 2003, 108, . | 3.3 | 56 |
| 87 | Magnetic portraits of Tethys and Rhea. Icarus, 2008, 193, 465-474. | 2.5 | 56 |
| 88 | The variability of Titan's magnetic environment. Planetary and Space Science, 2009, 57, 1813-1820. | 1.7 | 56 |
| 89 | Influence of negatively charged plume grains on the structure of Enceladus' AlfvÃ©n wings: Hybrid simulations versus Cassini Magnetometer data. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 56 |
| 90 | The Dust Halo of Saturn's Largest Icy Moon, Rhea. Science, 2008, 319, 1380-1384. | 12.6 | 53 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Auroral counterpart of magnetic field dipolarizations in Saturn's tail. Planetary and Space Science, 2013, 82-83, 34-42. | 1.7 | 53 |
| 92 | The Saturnian plasma sheet as revealed by energetic particle measurements. Geophysical Research Letters, 2005, 32, . | 4.0 | 51 |
| 93 | Cassini observations of planetary-period oscillations of Saturn's magnetopause. Geophysical Research Letters, 2006, 33, . | 4.0 | 51 |
| 94 | An empirical model of Saturn's bow shock: Cassini observations of shock location and shape. Journal of Geophysical Research, 2008, 113, . | 3.3 | 51 |
| 95 | The plasma interaction of Enceladus: 3D hybrid simulations and comparison with Cassini MAG data. Planetary and Space Science, 2009, 57, 2113-2122. | 1.7 | 51 |
| 96 | Magnetic Fields of the Outer Planets. Space Science Reviews, 2010, 152, 251-269. | 8.1 | 51 |
| 97 | Earthâ€based detection of Uranus' aurorae. Geophysical Research Letters, 2012, 39, . | 4.0 | 51 |
| 98 | Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. Journal of Geophysical Research, 2006, 111, . | 3.3 | 50 |
| 99 | Plasma and fields in the wake of Rhea: 3-D hybrid simulation and comparison with Cassini data. Annales Geophysicae, 2008, 26, 619-637. | 1.6 | 50 |
| 100 | Influence of negatively charged plume grains and hemisphere coupling currents on the structure of Enceladus' AlfvÃ©n wings: Analytical modeling of Cassini magnetometer observations. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 50 |
| 101 | Reconnection at the magnetopause of Saturn: Perspective from FTE occurrence and magnetosphere size. Journal of Geophysical Research, 2012, 117, . | 3.3 | 50 |
| 102 | The overall configuration of the interplanetary magnetic field upstream of Saturn as revealed by Cassini observations. Journal of Geophysical Research, 2008, 113, . | 3.3 | 48 |
| 103 | A multiâ€instrument view of tail reconnection at Saturn. Journal of Geophysical Research, 2008, 113, . | 3.3 | 48 |
| 104 | Magnetospheric and Plasma Science with Cassini-Huygens. Space Science Reviews, 2002, 104, 253-346. | 8.1 | 47 |
| 105 | Nature of magnetic fluctuations in Saturn's middle magnetosphere. Journal of Geophysical Research, 2006, 111, . | 3.3 | 47 |
| 106 | Cassini evidence for rapid interchange transport at Saturn. Planetary and Space Science, 2009, 57, 1779-1784. | 1.7 | 47 |
| 107 | Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs. Journal of Geophysical Research, 2012, 117, . | 3.3 | 47 |
| 108 | Quasiperpendicular High Mach Number Shocks. Physical Review Letters, 2015, 115, 125001. | 7.8 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Modelling of the ring current in Saturn's magnetosphere. Annales Geophysicae, 2004, 22, 653-659. | 1.6 | 45 |
| 110 | Planetary period oscillations in Saturn's magnetosphere: Comparison of magnetic oscillations and SKR modulations in the postequinox interval. Journal of Geophysical Research: Space Physics, 2014, 119, 7380-7401. | 2.4 | 45 |
| 111 | The dusk flank of Jupiter's magnetosphere. Nature, 2002, 415, 991-994. | 27.8 | 44 |
| 112 | Dynamics of the Saturnian inner magnetosphere: First inferences from the Cassini magnetometers about small-scale plasma transport in the magnetosphere. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 44 |
| 113 | Characterization of auroral current systems in Saturn's magnetosphere: Highâ€latitude Cassini observations. Journal of Geophysical Research, 2009, 114, . | 3.3 | 44 |
| 114 | Planetary period oscillations in Saturn's magnetosphere: Evidence in magnetic field phase data for rotational modulation of Saturn kilometric radiation emissions. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 44 |
| 115 | A noon-to-midnight electric field and nightside dynamics in Saturnâ€™s inner magnetosphere, using microsignature observations. Icarus, 2012, 220, 503-513. | 2.5 | 44 |
| 116 | Jovian-like aurorae on Saturn. Nature, 2008, 453, 1083-1085. | 27.8 | 43 |
| 117 | Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004â€“July) Tj ETQq1 1 0.784314 rgBT /Over | 1.7 | 43 |
| 118 | Dynamic auroral storms on Saturn as observed by the Hubble Space Telescope. Geophysical Research Letters, 2014, 41, 3323-3330. | 4.0 | 43 |
| 119 | Field-aligned currents in the Jovian magnetosphere during the Ulysses flyby. Planetary and Space Science, 1993, 41, 291-300. | 1.7 | 42 |
| 120 | Complex structure within Saturnâ€™s infrared aurora. Nature, 2008, 456, 214-217. | 27.8 | 42 |
| 121 | Model of Saturn's internal planetary magnetic field based on Cassini observations. Planetary and Space Science, 2009, 57, 1706-1713. | 1.7 | 42 |
| 122 | Planetary period oscillations in Saturn's magnetosphere: Coalescence and reversal of northern and southern periods in late northern spring. Journal of Geophysical Research: Space Physics, 2016, 121, 9829-9862. | 2.4 | 42 |
| 123 | Thermal electron periodicities at 20R<sub>S</sub> in Saturn's magnetosphere. Geophysical Research Letters, 2008, 35, . | 4.0 | 41 |
| 124 | Plasma electrons in Saturn's magnetotail: Structure, distribution and energisation. Planetary and Space Science, 2009, 57, 2032-2047. | 1.7 | 41 |
| 125 | Timeâ€dependent global MHD simulations of Cassini T32 flyby: From magnetosphere to magnetosheath. Journal of Geophysical Research, 2009, 114, . | 3.3 | 41 |
| 126 | Anti-planetward auroral electron beams at Saturn. Nature, 2006, 439, 699-702. | 27.8 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Titanâ€™s influence on Saturnian substorm occurrence. Geophysical Research Letters, 2008, 35, . | 4.0 | 40 |
| 128 | Long- and short-term variability of Saturn's ionic radiation belts. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 40 |
| 129 | Dynamics and seasonal variations in Saturn's magnetospheric plasma sheet, as measured by Cassini. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 40 |
| 130 | Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. Space Science Reviews, 2011, 164, 1-83. | 8.1 | 40 |
| 131 | Cassini UVIS observations of Jupiter's auroral variability. Icarus, 2005, 178, 312-326. | 2.5 | 39 |
| 132 | Saturn's ring current: Local time dependence and temporal variability. Journal of Geophysical Research, 2011, 116, . | 3.3 | 39 |
| 133 | Internally driven largeâ€scale changes in the size of Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 7289-7306. | 2.4 | 39 |
| 134 | LAPLACE: A mission to Europa and the Jupiter System for ESAâ€™s Cosmic Vision Programme. Experimental Astronomy, 2009, 23, 849-892. | 3.7 | 38 |
| 135 | Ion transport in Titan's upper atmosphere. Journal of Geophysical Research, 2010, 115, . | 3.3 | 38 |
| 136 | A plasmapauseâ€like density boundary at high latitudes in Saturn's magnetosphere. Geophysical Research Letters, 2010, 37, . | 4.0 | 38 |
| 137 | Electron density and temperature measurements in the cold plasma environment of Titan: Implications for atmospheric escape. Geophysical Research Letters, 2010, 37, . | 4.0 | 38 |
| 138 | Ion densities and magnetic signatures of dust pickup at Enceladus. Journal of Geophysical Research: Space Physics, 2014, 119, 2740-2774. | 2.4 | 38 |
| 139 | Signatures of fieldâ€aligned currents in Saturn's nightside magnetosphere. Geophysical Research Letters, 2009, 36, . | 4.0 | 37 |
| 140 | Saturn's equinoctial auroras. Geophysical Research Letters, 2009, 36, . | 4.0 | 37 |
| 141 | Saturn's low-latitude boundary layer: 1. Properties and variability. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 37 |
| 142 | Surface waves on Saturn's magnetopause. Planetary and Space Science, 2012, 65, 109-121. | 1.7 | 36 |
| 143 | Quasi-periodic injections of relativistic electrons in Saturnâ€™s outer magnetosphere. Icarus, 2016, 263, 101-116. | 2.5 | 36 |
| 144 | Saturn's auroral morphology and activity during quiet magnetospheric conditions. Journal of Geophysical Research, 2006, 111, . | 3.3 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Plasma wake of Tethys: Hybrid simulations versus Cassini MAG data. Geophysical Research Letters, 2009, 36, . | 4.0 | 35 |
| 146 | Statistical characteristics of field-aligned currents in Saturn's nightside magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 35 |
| 147 | Auroral electron distributions within and close to the Saturn kilometric radiation source region. Journal of Geophysical Research, 2011, 116, . | 3.3 | 35 |
| 148 | Electron heating at Saturn's bow shock. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 35 |
| 149 | Cassini in situ observations of long-duration magnetic reconnection in Saturnâ€™s magnetotail. Nature Physics, 2016, 12, 268-271. | 16.7 | 35 |
| 150 | Planetary Period Oscillations in Saturn's Magnetosphere: Cassini Magnetic Field Observations Over the Northern Summer Solstice Interval. Journal of Geophysical Research: Space Physics, 2018, 123, 3859-3899. | 2.4 | 35 |
| 151 | Structure of Titan's midâ€range magnetic tail: Cassini magnetometer observations during the T9 flyby. Geophysical Research Letters, 2007, 34, . | 4.0 | 34 |
| 152 | Dynamical and magnetic field time constants for Titan's ionosphere: Empirical estimates and comparisons with Venus. Journal of Geophysical Research, 2010, 115, . | 3.3 | 34 |
| 153 | A new semiempirical model of Saturn's bow shock based on propagated solar wind parameters. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 34 |
| 154 | Structured ionospheric outflow during the Cassini T55â€“T59 Titan flybys. Planetary and Space Science, 2011, 59, 788-797. | 1.7 | 34 |
| 155 | Cusp observation at Saturn's highâ€latitude magnetosphere by the Cassini spacecraft. Geophysical Research Letters, 2014, 41, 1382-1388. | 4.0 | 34 |
| 156 | Radial and local time structure of the Saturnian ring current, revealed by Cassini. Journal of Geophysical Research: Space Physics, 2017, 122, 1803-1815. | 2.4 | 34 |
| 157 | Warm flux tubes in the E-ring plasma torus: Initial Cassini magnetometer observations. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 33 |
| 158 | In situ observations of the effect of a solar wind compression on Saturn's magnetotail. Journal of Geophysical Research, 2010, 115, . | 3.3 | 33 |
| 159 | Particle and magnetic field properties of the Saturnian magnetosheath: Presence and upstream escape of hot magnetospheric plasma. Journal of Geophysical Research: Space Physics, 2013, 118, 1620-1634. | 2.4 | 33 |
| 160 | The landscape of Saturnâ€™s internal magnetic field from the Cassini Grand Finale. Icarus, 2020, 344, 113541. | 2.5 | 33 |
| 161 | Electrostatic solitary structures associated with the November 10, 2003, interplanetary shock at 8.7 AU. Geophysical Research Letters, 2005, 32, . | 4.0 | 32 |
| 162 | Formation of Saturn's ring spokes by lightning-induced electron beams. Geophysical Research Letters, 2006, 33, . | 4.0 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Hot flow anomalies at Saturn's bow shock. Journal of Geophysical Research, 2009, 114, . | 3.3 | 32 |
| 164 | Intense plasma wave emissions associated with Saturn's moon Rhea. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 32 |
| 165 | Saturnâ€™s high degree magnetic moments: Evidence for a unique planetary dynamo. Icarus, 2012, 221, 388-394. | 2.5 | 32 |
| 166 | Rotationally driven magnetic reconnection in Saturnâ€™s dayside. Nature Astronomy, 2018, 2, 640-645. | 10.1 | 32 |
| 167 | Rotation rate of Saturn's interior from magnetic field observations. Geophysical Research Letters, 2004, 31, . | 4.0 | 31 |
| 168 | On the cause of Saturn's plasma periodicity. Geophysical Research Letters, 2008, 35, . | 4.0 | 31 |
| 169 | Electron beams as the source of whistlerâ€mode auroral hiss at Saturn. Geophysical Research Letters, 2010, 37, . | 4.0 | 31 |
| 170 | Extraordinary fieldâ€aligned current signatures in Saturn's highâ€latitude magnetosphere: Analysis of Cassini data during Revolution 89. Journal of Geophysical Research, 2010, 115, . | 3.3 | 31 |
| 171 | Magnetic signatures of a tenuous atmosphere at Dione. Geophysical Research Letters, 2011, 38, . | 4.0 | 31 |
| 172 | Cassini multiâ€instrument assessment of Saturn's polar cap boundary. Journal of Geophysical Research: Space Physics, 2014, 119, 8161-8177. | 2.4 | 31 |
| 173 | Outer magnetospheric structure: Jupiter and Saturn compared. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 30 |
| 174 | Analysis of Cassini magnetic field observations over the poles of Rhea. Journal of Geophysical Research, 2012, 117, . | 3.3 | 30 |
| 175 | Structure of Titan's induced magnetosphere under varying background magnetic field conditions: Survey of Cassini magnetometer data from flybys TAâ€“T85. Journal of Geophysical Research: Space Physics, 2013, 118, 1679-1699. | 2.4 | 30 |
| 176 | Saturn's auroral/polar H+3 infrared emission. Icarus, 2007, 191, 678-690. | 2.5 | 29 |
| 177 | Low energy electron microsignatures at the orbit of Tethys: Cassini MIMI/LEMMS observations. Geophysical Research Letters, 2005, 32, . | 4.0 | 28 |
| 178 | Hybrid simulation of Titan's magnetic field signature during the Cassini T9 flyby. Geophysical Research Letters, 2007, 34, . | 4.0 | 28 |
| 179 | Location of Saturn's northern infrared aurora determined from Cassini VIMS images. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 28 |
| 180 | Nature of the ring current in Saturn's dayside magnetosphere. Journal of Geophysical Research, 2010, 115, . | 3.3 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Extreme densities in Titan's ionosphere during the T85 magnetosheath encounter. Geophysical Research Letters, 2013, 40, 2879-2883. | 4.0 | 27 |
| 182 | Threeâ€dimensional multifluid simulation of the plasma interaction at Titan. Journal of Geophysical Research, 2007, 112, . | 3.3 | 26 |
| 183 | Saturnâ€™s auroral morphology and field-aligned currents during a solar wind compression. Icarus, 2016, 263, 83-93. | 2.5 | 26 |
| 184 | The Cassini Magnetic Field Investigation. , 2004, , 331-383. | | 26 |
| 185 | Electrostatic solitary structures observed at Saturn. Geophysical Research Letters, 2006, 33, . | 4.0 | 25 |
| 186 | Cassini observations of the Interplanetary Medium Upstream of Saturn and their relation to the Hubble Space Telescope aurora data. Advances in Space Research, 2006, 38, 806-814. | 2.6 | 25 |
| 187 | Cold ionospheric plasma in Titan's magnetotail. Geophysical Research Letters, 2007, 34, . | 4.0 | 25 |
| 188 | Pitch angle distributions of energetic electrons at Saturn. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 25 |
| 189 | Can magnetopause reconnection drive Saturn's magnetosphere?. Geophysical Research Letters, 2014, 41, 1862-1868. | 4.0 | 25 |
| 190 | Saturn's dayside ultraviolet auroras: Evidence for morphological dependence on the direction of the upstream interplanetary magnetic field. Journal of Geophysical Research: Space Physics, 2014, 119, 1994-2008. | 2.4 | 25 |
| 191 | Supercorotating return flow from reconnection in Saturn's magnetotail. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 24 |
| 192 | Access of energetic particles to Titan×³s exobase: A study of Cassini×³s T9 flyby. Planetary and Space Science, 2016, 130, 40-53. | 1.7 | 24 |
| 193 | Fieldâ€Aligned Currents in Saturn's Nightside Magnetosphere: Subcorotation and Planetary Period Oscillation Components During Northern Spring. Journal of Geophysical Research: Space Physics, 2018, 123, 3602-3636. | 2.4 | 24 |
| 194 | Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. Reviews of Geophysics, 2008, 46, . | 23.0 | 23 |
| 195 | Detection of currents and associated electric fields in Titan's ionosphere from Cassini data. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 23 |
| 196 | Auroral hiss, electron beams and standing AlfvÃ©n wave currents near Saturn's moon Enceladus. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 23 |
| 197 | Corotating Magnetic Reconnection Site in Saturnâ€™s Magnetosphere. Astrophysical Journal Letters, 2017, 846, L25. | 8.3 | 23 |
| 198 | Dual spacecraft observations of a compression event within the Jovian magnetosphere: Signatures of externally triggered supercorotation?. Journal of Geophysical Research, 2004, 109, . | 3.3 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Cassini encounters with hot flow anomalyâ€like phenomena at Saturn's bow shock. Geophysical Research Letters, 2008, 35, . | 4.0 | 22 |
| 200 | Plasma environment at Titan's orbit with Titan present and absent. Geophysical Research Letters, 2009, 36, . | 4.0 | 22 |
| 201 | Dynamics of Saturn's magnetodisk near Titan's orbit: Comparison of Cassini magnetometer observations from real and virtual Titan flybys. Planetary and Space Science, 2010, 58, 1625-1635. | 1.7 | 22 |
| 202 | Null fields in the outer Jovian magnetosphere: Ulysses observations. Geophysical Research Letters, 1994, 21, 405-408. | 4.0 | 21 |
| 203 | On the evolution of the solar wind between 1 and 5 AU at the time of the Cassini Jupiter flyby: Multispacecraft observations of interplanetary coronal mass ejections including the formation of a merged interaction region. Journal of Geophysical Research, 2004, 109, . | 3.3 | 21 |
| 204 | Polar confinement of Saturn's magnetosphere revealed by in situ Cassini observations. Journal of Geophysical Research: Space Physics, 2014, 119, 2858-2875. | 2.4 | 21 |
| 205 | Fieldâ€aligned currents in Saturn's magnetosphere: Local time dependence of southern summer currents in the dawn sector between midnight and noon. Journal of Geophysical Research: Space Physics, 2016, 121, 7785-7804. | 2.4 | 21 |
| 206 | Field dipolarization in Saturn's magnetotail with planetward ion flows and energetic particle flow bursts: Evidence of quasiâ€steady reconnection. Journal of Geophysical Research: Space Physics, 2015, 120, 3603-3617. | 2.4 | 20 |
| 207 | Fieldâ€Aligned Currents in Saturn's Magnetosphere: Observations From the Fâ€Ring Orbits. Journal of Geophysical Research: Space Physics, 2018, 123, 3806-3821. | 2.4 | 20 |
| 208 | Variability in Saturn's bow shock and magnetopause from Pioneer and Voyager: Probabilistic predictions and initial observations by Cassini. Geophysical Research Letters, 2005, 32, . | 4.0 | 19 |
| 209 | Upper limits on Titan's magnetic moment and implications for its interior. Journal of Geophysical Research, 2010, 115, . | 3.3 | 19 |
| 210 | The magnetic structure of Saturn's magnetosheath. Journal of Geophysical Research: Space Physics, 2014, 119, 5651-5661. | 2.4 | 19 |
| 211 | Survey of Saturn's Magnetopause and Bow Shock Positions Over the Entire Cassini Mission: Boundary Statistical Properties and Exploration of Associated Upstream Conditions. Journal of Geophysical Research: Space Physics, 2019, 124, 8865-8883. | 2.4 | 19 |
| 212 | Correspondence between field aligned currents observed by Ulysses and HST auroral emission. Planetary and Space Science, 1998, 46, 531-540. | 1.7 | 18 |
| 213 | Lowâ€frequency waves in the foreshock of Saturn: First results from Cassini. Journal of Geophysical Research, 2007, 112, . | 3.3 | 18 |
| 214 | Timeâ€varying magnetospheric environment near Enceladus as seen by the Cassini magnetometer. Geophysical Research Letters, 2010, 37, . | 4.0 | 18 |
| 215 | Probing Saturn's ion cyclotron waves on high-inclination orbits: Lessons for wave generation. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 18 |
| 216 | Asymmetries observed in Saturn's magnetopause geometry. Geophysical Research Letters, 2015, 42, 6890-6898. | 4.0 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Discovery of Atmosphericâ€Windâ€Driven Electric Currents in Saturn's Magnetosphere in the Gap Between Saturn and its Rings. Geophysical Research Letters, 2018, 45, 10,068. | 4.0 | 18 |
| 218 | Evidence provided by Galileo of ultra low frequency waves within Jupiter's middle magnetosphere. Geophysical Research Letters, 2000, 27, 835-838. | 4.0 | 17 |
| 219 | Magnetometer measurements from the Cassini Earth swing-by. Journal of Geophysical Research, 2001, 106, 30109-30128. | 3.3 | 17 |
| 220 | Saturn's ULF wave foreshock boundary: Cassini observations. Planetary and Space Science, 2013, 79-80, 64-75. | 1.7 | 17 |
| 221 | Search for Saturn's Xâ€ray aurorae at the arrival of a solar wind shock. Journal of Geophysical Research: Space Physics, 2013, 118, 2145-2156. | 2.4 | 17 |
| 222 | Cassini nightside observations of the oscillatory motion of Saturn's northern auroral oval. Journal of Geophysical Research: Space Physics, 2014, 119, 3528-3543. | 2.4 | 17 |
| 223 | Cassini observations of Saturn's southern polar cusp. Journal of Geophysical Research: Space Physics, 2016, 121, 3006-3030. | 2.4 | 17 |
| 224 | Characterization of Saturn's bow shock: Magnetic field observations of quasiâ€perpendicular shocks. Journal of Geophysical Research: Space Physics, 2016, 121, 4425-4434. | 2.4 | 17 |
| 225 | SUPRATHERMAL ELECTRONS AT SATURN'S BOW SHOCK. Astrophysical Journal, 2016, 826, 48. | 4.5 | 17 |
| 226 | Fluxgate magnetometer offset vector determination by the 3D mirror mode method. Monthly Notices of the Royal Astronomical Society, 2017, 469, S675-S684. | 4.4 | 17 |
| 227 | Wave behaviour near critical frequencies in cold bi-ion plasmas. Planetary and Space Science, 1995, 43, 625-634. | 1.7 | 16 |
| 228 | Review of Exchange Processes on Ganymede in View of Its Planetary Protection Categorization. Astrobiology, 2013, 13, 991-1004. | 3.0 | 16 |
| 229 | Planetary period oscillations in Saturn's magnetosphere: Examining the relationship between abrupt changes in behavior and solar windâ€induced magnetospheric compressions and expansions. Journal of Geophysical Research: Space Physics, 2015, 120, 9524-9544. | 2.4 | 16 |
| 230 | Plasma regions, charged dust and field-aligned currents near Enceladus. Planetary and Space Science, 2015, 117, 453-469. | 1.7 | 16 |
| 231 | Transport of magnetic flux and mass in Saturn's inner magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 3050-3057. | 2.4 | 16 |
| 232 | Cassini observations of ionospheric plasma in Saturn's magnetotail lobes. Journal of Geophysical Research: Space Physics, 2016, 121, 338-357. | 2.4 | 16 |
| 233 | Saturn's quasiperiodic magnetohydrodynamic waves. Geophysical Research Letters, 2016, 43, 11,102. | 4.0 | 16 |
| 234 | Enceladus Auroral Hiss Emissions During Cassini's Grand Finale. Geophysical Research Letters, 2018, 45, 7347-7353. | 4.0 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Oblique â€œ1-Hzâ€•whistler mode waves in an electron foreshock: The Cassini near-Earth encounter. Journal of Geophysical Research, 2001, 106, 30223-30238. | 3.3 | 15 |
| 236 | Titan's magnetic field signature during the Cassini T34 flyby: Comparison between hybrid simulations and MAG data. Geophysical Research Letters, 2008, 35, . | 4.0 | 15 |
| 237 | Investigating magnetospheric interaction effects on Titanâ€™s ionosphere with the Cassini orbiter Ion Neutral Mass Spectrometer, Langmuir Probe and magnetometer observations during targeted flybys. Icarus, 2012, 219, 534-555. | 2.5 | 15 |
| 238 | The plasma depletion layer in Saturn's magnetosheath. Journal of Geophysical Research: Space Physics, 2014, 119, 121-130. | 2.4 | 15 |
| 239 | Reconnection Acceleration in Saturnâ€™s Dayside Magnetodisk: A Multicase Study with Cassini. Astrophysical Journal Letters, 2018, 868, L23. | 8.3 | 15 |
| 240 | Energetic ion composition during reconfiguration events in the Jovian magnetotail. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 14 |
| 241 | An in situ Comparison of Electron Acceleration at Collisionless Shocks under Differing Upstream Magnetic Field Orientations. Astrophysical Journal, 2017, 843, 147. | 4.5 | 14 |
| 242 | Recurrent Magnetic Dipolarization at Saturn: Revealed by Cassini. Journal of Geophysical Research: Space Physics, 2018, 123, 8502-8517. | 2.4 | 14 |
| 243 | Saturn's Nightside Dynamics During Cassini's F Ring and Proximal Orbits: Response to Solar Wind and Planetary Period Oscillation Modulations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027907. | 2.4 | 14 |
| 244 | Evidence of surface wave on the dusk flank of Saturn's magnetopause possibly caused by the Kelvin-Helmholtz instability. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 13 |
| 245 | Saturn's auroral/polar H‹sub›3‹/sub›‹sup›+‹/sup› infrared emission: The effect of solar wind compression. Journal of Geophysical Research, 2012, 117, . | 3.3 | 13 |
| 246 | Discontinuities in the magnetic field near Enceladus. Geophysical Research Letters, 2014, 41, 3359-3366. | 4.0 | 13 |
| 247 | Saturn kilometric radiation intensities during the Saturn auroral campaign of 2013. Icarus, 2016, 263, 2-9. | 2.5 | 13 |
| 248 | Modeling the compressibility of Saturn's magnetosphere in response to internal and external influences. Journal of Geophysical Research: Space Physics, 2017, 122, 1572-1589. | 2.4 | 13 |
| 249 | Harmonic growth of ionâ€cyclotron waves in Saturn's magnetosphere. Journal of Geophysical Research, 2010, 115, . | 3.3 | 12 |
| 250 | Detection of a strongly negative surface potential at Saturn's moon Hyperion. Geophysical Research Letters, 2014, 41, 7011-7018. | 4.0 | 12 |
| 251 | Variability of Intraâ€“D Ring Azimuthal Magnetic Field Profiles Observed on Cassini's Proximal Periapsis Passes. Journal of Geophysical Research: Space Physics, 2019, 124, 379-404. | 2.4 | 12 |
| 252 | Regions of interest on Ganymede's and Callisto's surfaces as potential targets for ESA's JUICE mission. Planetary and Space Science, 2021, 208, 105324. | 1.7 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Magnetic nulls in the outer magnetosphere of Jupiter: Detections by Pioneer and Voyager spacecraft. Journal of Geophysical Research, 1995, 100, 1829. | 3.3 | 11 |
| 254 | Measuring the stress state of the Saturnian magnetosphere. Geophysical Research Letters, 2007, 34, . | 4.0 | 11 |
| 255 | Analysis of a sequence of energetic ion and magnetic field events upstream from the Saturnian magnetosphere. Planetary and Space Science, 2009, 57, 1785-1794. | 1.7 | 11 |
| 256 | Global configuration of Saturn's magnetic field derived from observations. Geophysical Research Letters, 2010, 37, . | 4.0 | 11 |
| 257 | The importance of thermal electron heating in Titan's ionosphere: Comparison with Cassini T34 flyby. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 11 |
| 258 | Unusually strong magnetic fields in Titanâ€™s ionosphere: T42 case study. Advances in Space Research, 2011, 48, 314-322. | 2.6 | 11 |
| 259 | Scalar helium magnetometer observations at Cassini Earth swing-by. Journal of Geophysical Research, 2001, 106, 30129-30139. | 3.3 | 10 |
| 260 | Cassini magnetometer observations over the Enceladus poles. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 10 |
| 261 | Mechanisms of Saturn's Nearâ€Noon Transient Aurora: In Situ Evidence From Cassini Measurements. Geophysical Research Letters, 2017, 44, 11,217. | 4.0 | 10 |
| 262 | Saturnâ€™s near-equatorial ionospheric conductivities from in situ measurements. Scientific Reports, 2020, 10, 7932. | 3.3 | 10 |
| 263 | An isolated, bright cusp aurora at Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 6121-6138. | 2.4 | 9 |
| 264 | Saturn's Planetary Period Oscillations During the Closest Approach of Cassini's Ringâ€Grazing Orbits. Geophysical Research Letters, 2018, 45, 4692-4700. | 4.0 | 9 |
| 265 | Review of Saturnâ€™s icy moons following the Cassini mission. Reports on Progress in Physics, 2018, 81, 065901. | 20.1 | 9 |
| 266 | Magnetic signatures of Jupiter's bow shock during the Cassini flyby. Journal of Geophysical Research, 2004, 109, . | 3.3 | 8 |
| 267 | Comparisons of Cassini flybys of the Titan magnetospheric interaction with an MHD model: Evidence for organized behavior at high altitudes. Icarus, 2012, 217, 43-54. | 2.5 | 8 |
| 268 | The role of plasma slowdown in the generation of Rhea's AlfvÃ©n wings. Journal of Geophysical Research: Space Physics, 2017, 122, 1778-1788. | 2.4 | 8 |
| 269 | Energetic Neutral and Charged Particle Measurements in the Inner Saturnian Magnetosphere During the Grand Finale Orbits of Cassini 2016/2017. Geophysical Research Letters, 2018, 45, 10,847. | 4.0 | 8 |
| 270 | Auroral Hiss Emissions During Cassini's Grand Finale: Diverse Electrodynamic Interactions Between Saturn and Its Rings. Geophysical Research Letters, 2018, 45, 6782-6789. | 4.0 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Determining the Nominal Thickness and Variability of the Magnetodisc Current Sheet at Saturn. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027794. | 2.4 | 8 |
| 272 | Ion cyclotron waves in the Jovian magnetosphere. Advances in Space Research, 1997, 20, 215-219. | 2.6 | 7 |
| 273 | Unexpected periodic perturbations in Saturn's magnetic field data from Pioneer 11 and Voyager 2. Advances in Space Research, 2001, 28, 919-924. | 2.6 | 7 |
| 274 | In situobservations of high-Mach number collisionless shocks in space plasmas. Plasma Physics and Controlled Fusion, 2013, 55, 124035. | 2.1 | 7 |
| 275 | Variability of Titan's induced magnetotail: Cassini magnetometer observations. Journal of Geophysical Research: Space Physics, 2014, 119, 2024-2037. | 2.4 | 7 |
| 276 | A Single Deformed Bow Shock for Titanâ€Saturn System. Journal of Geophysical Research: Space Physics, 2017, 122, 11,058. | 2.4 | 7 |
| 277 | Saturn's Exploration Beyond Cassini-Huygens. , 2009, , 745-761. | | 7 |
| 278 | Origin and dynamics of field nulls detected in the Jovian magnetospheres. Advances in Space Research, 1995, 16, 177-181. | 2.6 | 6 |
| 279 | Waves close to the crossover frequency in the Jovian middle magnetosphere. Geophysical Research Letters, 2001, 28, 211-214. | 4.0 | 6 |
| 280 | Reply to comment by M. L. Kaiser et al. on â€œRotation rate of Saturn's interior from magnetic field observationsâ€. Geophysical Research Letters, 2005, 32, . | 4.0 | 6 |
| 281 | Magnetic phase structure of Saturn's 10.7â€‰h oscillations. Journal of Geophysical Research: Space Physics, 2015, 120, 2631-2648. | 2.4 | 6 |
| 282 | Local Time Variation in the Largeâ€Scale Structure of Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 7425-7441. | 2.4 | 6 |
| 283 | Meeting the Magnetic EMC Challenges for the In-Situ Field Measurements on the Juice Mission. , 2019, , . | | 6 |
| 284 | Magnetic Field Observations on Cassini's Proximal Periapsis Passes: Planetary Period Oscillations and Mean Residual Fields. Journal of Geophysical Research: Space Physics, 2019, 124, 8814-8864. | 2.4 | 6 |
| 285 | Separating drivers of Saturnian magnetopause motion. Journal of Geophysical Research: Space Physics, 2014, 119, 1514-1522. | 2.4 | 5 |
| 286 | The Periodic Flapping and Breathing of Saturn's Magnetodisk During Equinox. Journal of Geophysical Research: Space Physics, 2018, 123, 8292-8316. | 2.4 | 5 |
| 287 | Energetic Electron Pitch Angle Distributions During the Cassini Final Orbits. Geophysical Research Letters, 2018, 45, 2911-2917. | 4.0 | 5 |
| 288 | Fieldâ€Aligned Photoelectron Energy Peaks at High Altitude and on the Nightside of Titan. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006252. | 3.6 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Ion cyclotron waves in the Saturnian magnetosphere associated with Cassini's engine exhaust. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 4 |
| 290 | Slow-mode shock candidate in the Jovian magnetosheath. Planetary and Space Science, 2010, 58, 807-813. | 1.7 | 4 |
| 291 | Outflow and plasma acceleration in Titan's induced magnetotail: Evidence of magnetic tension forces. Journal of Geophysical Research: Space Physics, 2014, 119, 9992. | 2.4 | 4 |
| 292 | Ion cyclotron waves at Titan. Journal of Geophysical Research: Space Physics, 2016, 121, 2095-2103. | 2.4 | 4 |
| 293 | Whistler mode waves upstream of Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 227-234. | 2.4 | 4 |
| 294 | Mapping Saturn's Nightside Plasma Sheet Using Cassini's Proximal Orbits. Geophysical Research Letters, 2018, 45, 6798-6804. | 4.0 | 4 |
| 295 | Currents Associated With Saturn's Intraâ€Ð Ring Azimuthal Field Perturbations. Journal of Geophysical Research: Space Physics, 2019, 124, 5675-5691. | 2.4 | 4 |
| 296 | Long-standing Small-scale Reconnection Processes at Saturn Revealed by Cassini. Astrophysical Journal Letters, 2019, 884, L14. | 8.3 | 4 |
| 297 | Modeling the Temporal Variability in Saturn's Magnetotail Current Sheet From the Cassini Fâ€ring Orbits. Journal of Geophysical Research: Space Physics, 2020, 125, . | 2.4 | 4 |
| 298 | Discovery of AlfvÃ©n Waves Planetward of Saturn's Rings. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028473. | 2.4 | 4 |
| 299 | Constraining the Temporal Variability of Neutral Winds in Saturn's Lowâ€Latitude Ionosphere Using Magnetic Field Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006578. | 3.6 | 4 |
| 300 | Magnetic Flux Circulation in the Saturnian Magnetosphere as Constrained by Cassini Observations in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029304. | 2.4 | 4 |
| 301 | A pre-shock event at Jupiter on 30 January 2001. Planetary and Space Science, 2006, 54, 200-211. | 1.7 | 3 |
| 302 | Saturn's low-latitude boundary layer: 2. Electron structure. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 3 |
| 303 | Saturn's Auroral Fieldâ€Aligned Currents: Observations From the Northern Hemisphere Dawn Sector During Cassini's Proximal Orbits. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027683. | 2.4 | 3 |
| 304 | Saturn's Nightside Ring Current During Cassini's Grand Finale. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028605. | 2.4 | 3 |
| 305 | A Rotating Azimuthally Distributed Auroral Current System on Saturn Revealed by the Cassini Spacecraft. Astrophysical Journal Letters, 2021, 919, L25. | 8.3 | 3 |
| 306 | Bow Shock and Upstream Waves at Jupiter and Saturn: Cassini Magnetometer Observations. AIP Conference Proceedings, 2005, , . | 0.4 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | A Persistent, Largeâ€Scale, and Ordered Electrodynamic Connection Between Saturn and Its Main Rings. Geophysical Research Letters, 2019, 46, 7166-7172. | 4.0 | 2 |
| 308 | The Cushion Region and Dayside Magnetodisc Structure at Saturn. Geophysical Research Letters, 2021, 48, e2020GL091796. | 4.0 | 2 |
| 309 | No Evidence for Time Variation in Saturnâ€™s Internal Magnetic Field. Planetary Science Journal, 2021, 2, 181. | 3.6 | 2 |
| 310 | Swept Forward Magnetic Field Variability in Highâ€Latitude Regions of Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 12,328. | 2.4 | 1 |
| 311 | Saturnâ€™s Magnetic Field and Dynamo. , 2018, , 69-96. | | 1 |
| 312 | Quantifying the Stress of the Saturnian Magnetosphere During the Cassini Era. Geophysical Research Letters, 2018, 45, 8704-8711. | 4.0 | 1 |
| 313 | Enceladus and Titan: emerging worlds of the Solar System. Experimental Astronomy, 0, , 1. | 3.7 | 1 |
| 314 | Conductivities of Titan's Dusty Ionosphere. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 1 |
| 315 | Electric Fluctuations and Ion Isotropy. AIP Conference Proceedings, 2003, , . | 0.4 | 0 |
| 316 | Reply to the comment by Cowley et al. on â€œMagnetic phase structure of Saturn's 10.7â€‰h oscillationsâ€• Journal of Geophysical Research: Space Physics, 2015, 120, 5691-5693. | 2.4 | 0 |
| 317 | The response of Saturnâ€™s dawn fieldâ€aligned currents to magnetospheric and ring current conditions during Cassiniâ€™s proximal orbits: Evidence for a Region 2 response at Saturn. Journal of Geophysical Research: Space Physics, 0, , . | 2.4 | 0 |
| 318 | The Contribution of Planetary Period Oscillations Towards Circulation and Mass Loss in Saturnâ€™s Magnetosphere. Journal of Geophysical Research: Space Physics, 0, , . | 2.4 | 0 |