# Stanley William Herbert Cowley

List of Publications by Year
in descending order



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|---|---|---|---|
| 414 papers | 17,404 citations | 10956 71 h-index | 27345 106 g-index |
| 421 all docs | 421 docs citations | 421 times ranked | 3298 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Relation of Jupiter's Dawnside Main Emission Intensity to Magnetospheric Currents During the Juno Mission. Journal of Geophysical Research: Space Physics, 2022, 127, . | 0.8 | 9 |
| 2 | Detection of Equatorial Plasma Velocity Modulations Associated With Planetary Period Oscillations in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2022, 127, . | 0.8 | 0 |
| 3 | 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. | 1.5 | 4 |
| 4 | Saturn's Nightside Ring Current During Cassini's Grand Finale. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028605. | 0.8 | 3 |
| 5 | The Statistical Morphology of Saturnâ€™s Equatorial Energetic Neutral Atom Emission. Geophysical Research Letters, 2021, 48, e2020GL091595. | 1.5 | 3 |
| 6 | Physical Origin of Recurrent Magnetic Dipolarization Events in Saturnâ€™s Equatorial Plasma Sheet. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029444. | 0.8 | 1 |
| 7 | Planetary Period Oscillations of Saturnâ€™s Dayside Equatorial Ionospheric Electron Density Observed on Cassiniâ€™s Proximal Passes. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029332. | 0.8 | 3 |
| 8 | Axially Asymmetric Steady State Model of Jupiter's Magnetosphereâ€Ionosphere Coupling. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029608. | 0.8 | 4 |
| 9 | The landscape of Saturnâ€™s internal magnetic field from the Cassini Grand Finale. Icarus, 2020, 344, 113541. | 1.1 | 33 |
| 10 | The Morphology of Saturn's Aurorae Observed During the Cassini Grand Finale. Geophysical Research Letters, 2020, 47, e2019GL085800. | 1.5 | 5 |
| 11 | Mars' Ionospheric Interaction With Comet C/2013 A1 Siding Spring's Coma at Their Closest Approach as Seen by Mars Express. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027344. | 0.8 | 3 |
| 12 | An Enhancement of Jupiter's Main Auroral Emission and Magnetospheric Currents. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027904. | 0.8 | 13 |
| 13 | 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. | 0.8 | 14 |
| 14 | Seasonal Dependence of the Magnetospheric Drag Torque on Saturn's Northern and Southern Polar Thermospheres and its Relation to the Periods of Planetary Period Oscillations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028247. | 0.8 | 1 |
| 15 | Modeling the Temporal Variability in Saturn's Magnetotail Current Sheet From the Cassini Fâ€ring Orbits. Journal of Geophysical Research: Space Physics, 2020, 125, . | 0.8 | 4 |
| 16 | Tracking Counterpart Signatures in Saturn's Auroras and ENA Imagery During Largeâ€Scale Plasma Injection Events. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027542. | 0.8 | 6 |
| 17 | Concurrent Observations Of Magnetic Reconnection From Cluster, IMAGE and SuperDARN: A Comparison Of Reconnection Rates And Energy Conversion. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027264. | 0.8 | 3 |
| 18 | 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. | 0.8 | 3 |

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| 19 | Planetary Period Oscillations in Saturn's Magnetosphere: Comparison of Magnetic and SKR Modulation Periods and Phases During Northern Summer to the End of the Cassini Mission. Journal of Geophysical Research: Space Physics, 2019, 124, 1157-1172. | 0.8 | 11 |
| 20 | Currents Associated With Saturn's Intraâ€Ð Ring Azimuthal Field Perturbations. Journal of Geophysical Research: Space Physics, 2019, 124, 5675-5691. | 0.8 | 4 |
| 21 | Brief Portrait of the Scientist as a Young Man: Researches on Dungey's â€œOpenâ€•Magnetosphere From the 1960s to the 1980s. Journal of Geophysical Research: Space Physics, 2019, 124, 8352-8360. | 0.8 | 0 |
| 22 | The Dynamics of Saturn's Main Aurorae. Geophysical Research Letters, 2019, 46, 10283-10294. | 1.5 | 12 |
| 23 | Seasonal structures in Saturn's dusty Roche Division correspond to periodicities of the planet's magnetosphere. Icarus, 2019, 330, 230-255. | 1.1 | 8 |
| 24 | Are Saturn's Interchange Injections Organized by Rotational Longitude?. Journal of Geophysical Research: Space Physics, 2019, 124, 1806-1822. | 0.8 | 11 |
| 25 | 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. | 0.8 | 12 |
| 26 | Model of Jupiter's Current Sheet With a Piecewise Current Density. Journal of Geophysical Research: Space Physics, 2019, 124, 1843-1854. | 0.8 | 16 |
| 27 | Modulations of Saturn's UV Auroral Oval Location by Planetary Period Oscillations. Journal of Geophysical Research: Space Physics, 2019, 124, 952-970. | 0.8 | 12 |
| 28 | Magnetodisc modelling in Jupiter's magnetosphere using Juno magnetic field data and the paraboloid magnetic field model. Annales Geophysicae, 2019, 37, 101-109. | 0.6 | 1 |
| 29 | 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. | 0.8 | 6 |
| 30 | The Structure of Planetary Period Oscillations in Saturn's Equatorial Magnetosphere: Results From the CassiniÂMission. Journal of Geophysical Research: Space Physics, 2019, 124, 8361-8395. | 0.8 | 9 |
| 31 | A Study of Observations of Ionospheric Upwelling Made by the EISCAT Svalbard Radar During the International Polar Year Campaign of 2007. Journal of Geophysical Research: Space Physics, 2018, 123, 2192-2203. | 0.8 | 4 |
| 32 | Saturn's Planetary Period Oscillations During the Closest Approach of Cassini's Ringâ€Grazing Orbits. Geophysical Research Letters, 2018, 45, 4692-4700. | 1.5 | 9 |
| 33 | Statistical Planetary Period Oscillation Signatures in Saturn's UV Auroral Intensity. Journal of Geophysical Research: Space Physics, 2018, 123, 8459-8472. | 0.8 | 15 |
| 34 | Planetary Period Modulation of Reconnection Bursts in Saturn's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 9476-9507. | 0.8 | 17 |
| 35 | 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. | 0.8 | 24 |
| 36 | Fieldâ€Aligned Currents in Saturn's Magnetosphere: Observations From the Fâ€Ring Orbits. Journal of Geophysical Research: Space Physics, 2018, 123, 3806-3821. | 0.8 | 20 |

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| 37 | 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. | 0.8 | 35 |
| 38 | Hubble Space Telescope Observations of Variations in Ganymede's Oxygen Atmosphere and Aurora. Journal of Geophysical Research: Space Physics, 2018, 123, 3777-3793. | 0.8 | 16 |
| 39 | Auroral Storm and Polar Arcs at Saturnâ€"Final Cassini/UVIS Auroral Observations. Geophysical Research Letters, 2018, 45, 6832-6842. | 1.5 | 10 |
| 40 | Saturnâ€™s magnetic field revealed by the Cassini Grand Finale. Science, 2018, 362, . | 6.0 | 108 |
| 41 | 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. | 1.5 | 18 |
| 42 | Saturn's Northern Auroras and Their Modulation by Rotating Current Systems During Late Northern Spring in Early 2014. Journal of Geophysical Research: Space Physics, 2018, 123, 6289-6306. | 0.8 | 7 |
| 43 | Energetic Particle Showers Over Mars from Comet C/2013 A1 Siding Spring. Journal of Geophysical Research: Space Physics, 2018, 123, 8778-8796. | 0.8 | 11 |
| 44 | Jupiterâ€™s magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. Science, 2017, 356, 826-832. | 6.0 | 109 |
| 45 | Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. Geophysical Research Letters, 2017, 44, 7643-7652. | 1.5 | 68 |
| 46 | Magnetosphereâ€ionosphere coupling at Jupiter: Expectations for Juno Perijove 1 from a steady state axisymmetric physical model. Geophysical Research Letters, 2017, 44, 4497-4505. | 1.5 | 15 |
| 47 | The aurorae of Uranus past equinox. Journal of Geophysical Research: Space Physics, 2017, 122, 3997-4008. | 0.8 | 24 |
| 48 | Energetic particle signatures of magnetic fieldâ€aligned potentials over Jupiter's polar regions. Geophysical Research Letters, 2017, 44, 8703-8711. | 1.5 | 41 |
| 49 | Periodic Emission Within Jupiter's Main Auroral Oval. Geophysical Research Letters, 2017, 44, 9192-9198. | 1.5 | 24 |
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| 51 | Jupiter's polar ionospheric flows: High resolution mapping of spectral intensity and lineâ€ofâ€sight velocity of H<sub>3</sub><sup>+</sup> ions. Journal of Geophysical Research: Space Physics, 2017, 122, 7599-7618. | 0.8 | 23 |
| 52 | An isolated, bright cusp aurora at Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 6121-6138. | 0.8 | 9 |
| 53 | Planetary period modulations of Saturn's magnetotail current sheet: A simple illustrative mathematical model. Journal of Geophysical Research: Space Physics, 2017, 122, 258-279. | 0.8 | 15 |
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| 55 | Planetary period modulations of Saturn's magnetotail current sheet during northern spring: Observations and modeling. Journal of Geophysical Research: Space Physics, 2017, 122, 6049-6077. | 0.8 | 23 |
| 56 | Magnetospheric Science Objectives of the Juno Mission. Space Science Reviews, 2017, 213, 219-287. | 3.7 | 163 |
| 57 | Magnetic reconnection during steady magnetospheric convection and other magnetospheric modes. Annales Geophysicae, 2017, 35, 505-524. | 0.6 | 6 |
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| 59 | Optimization of Saturn paraboloid magnetospheric field model parameters using Cassini equatorial magnetic field data. Annales Geophysicae, 2016, 34, 641-656. | 0.6 | 4 |
| 60 | 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. | 0.8 | 42 |
| 61 | 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. | 0.8 | 21 |
| 62 | Cassini observations of Saturn's southern polar cusp. Journal of Geophysical Research: Space Physics, 2016, 121, 3006-3030. | 0.8 | 17 |
| 63 | Reconnection events in Saturn's magnetotail: Dependence of plasmoid occurrence on planetary period oscillation phase. Journal of Geophysical Research: Space Physics, 2016, 121, 2922-2934. | 0.8 | 24 |
| 64 | Saturn's quasiperiodic magnetohydrodynamic waves. Geophysical Research Letters, 2016, 43, 11,102. | 1.5 | 16 |
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| 66 | Periodic motion of the magnetodisk as a cause of quasi-periodic variations in the Kronian magnetosphere. Planetary and Space Science, 2016, 130, 54-59. | 0.9 | 3 |
| 67 | Comment on â€œA new approach to Saturn's periodicitiesâ€•by J. F. Carbary. Journal of Geophysical Research: Space Physics, 2016, 121, 2418-2422. | 0.8 | 11 |
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| 69 | Simultaneous multi-scale and multi-instrument observations of Saturnâ€™s aurorae during the 2013 observing campaign. Icarus, 2016, 263, 56-74. | 1.1 | 10 |
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| 71 | A model of force balance in Jupiter's magnetodisc including hot plasma pressure anisotropy. Journal of Geophysical Research: Space Physics, 2015, 120, 10,185. | 0.8 | 34 |
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| 77 | HUBBLE SPACE TELESCOPEOBSERVATIONS OF THE NUV TRANSIT OF WASP-12b. Astrophysical Journal, 2015, 803, 9. | 1.6 | 59 |
| 78 | Dungeyâ€™s Reconnection Model of the Earthâ€™s Magnetosphere: The First 40 Years. Thirty Years of Astronomical Discovery With UKIRT, 2015, , 1-32. | 0.3 | 2 |
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| 81 | Survey of Saturn auroral storms observed by the Hubble Space Telescope: Implications for storm time scales. Journal of Geophysical Research: Space Physics, 2014, 119, 9624-9642. | 0.8 | 13 |
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| 83 | Dynamic auroral storms on Saturn as observed by the Hubble Space Telescope. Geophysical Research Letters, 2014, 41, 3323-3330. | 1.5 | 43 |
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| 88 | Cassini multiâ€instrument assessment of Saturn's polar cap boundary. Journal of Geophysical Research: Space Physics, 2014, 119, 8161-8177. | 0.8 | 31 |
| 89 | Cassini nightside observations of the oscillatory motion of Saturn's northern auroral oval. Journal of Geophysical Research: Space Physics, 2014, 119, 3528-3543. | 0.8 | 17 |
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| 91 | Magnetospheric Science Objectives of the Juno Mission. , 2014, , 39-107. | | 3 |
| 92 | Auroral counterpart of magnetic field dipolarizations in Saturn's tail. Planetary and Space Science, 2013, 82-83, 34-42. | 0.9 | 53 |
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| 94 | The domination of Saturnâ€™s low-latitude ionosphere by ring â€˜rainâ€™. Nature, 2013, 496, 193-195. | 13.7 | 70 |
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| 99 | Magnetic interconnection of Saturn's polar regions: comparison of modelling results with Hubble Space Telescope UV auroral images. Annales Geophysicae, 2013, 31, 1447-1458. | 0.6 | 3 |
| 100 | Response of Uranus' auroras to solar wind compressions at equinox. Journal of Geophysical Research: Space Physics, 2013, 118, 2897-2902. | 0.8 | 25 |
| 101 | Energetic Water-Group Ions at Comet Giacobini-Zinner: An Overview of Observations by the EPAS Instrument. Geophysical Monograph Series, 2013, , 319-340. | 0.1 | 2 |
| 102 | Temperature changes and energy inputs in giant planet atmospheres: what we are learning from H <sub>3</sub> <sup>+</sup>. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5213-5224. | 1.6 | 29 |
| 103 | Rotational modulation and local time dependence of Saturn's infrared H<sub>3</sub><sup>+</sup> auroral intensity. Journal of Geophysical Research, 2012, 117, . | 3.3 | 33 |
| 104 | ORIGIN OF ELECTRON CYCLOTRON MASER INDUCED RADIO EMISSIONS AT ULTRACOOL DWARFS: MAGNETOSPHERE-IONOSPHERE COUPLING CURRENTS. Astrophysical Journal, 2012, 760, 59. | 1.6 | 66 |
| 105 | Dual periodicities in planetaryâ€period magnetic field oscillations in Saturn's tail. Journal of Geophysical Research, 2012, 117, . | 3.3 | 70 |
| 106 | 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 |
| 107 | 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 |
| 108 | Earthâ€based detection of Uranus' aurorae. Geophysical Research Letters, 2012, 39, . | 1.5 | 51 |

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| 109 | 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 |
| 110 | Correction to â€œCassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcsâ€• Journal of Geophysical Research, 2012, 117, . | 3.3 | 0 |
| 111 | AXIOM: Advanced Xâ€ray imaging of the magnetosheath. Astronomische Nachrichten, 2012, 333, 388-392. | 0.6 | 1 |
| 112 | AXIOM: advanced X-ray imaging of the magnetosphere. Experimental Astronomy, 2012, 33, 403-443. | 1.6 | 30 |
| 113 | â€œCraterâ€•flux transfer events: Highroad to the X line?. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 16 |
| 114 | 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 |
| 115 | Statistical characteristics of field-aligned currents in Saturn's nightside magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 35 |
| 116 | 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 |
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| 118 | 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 |
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| 125 | LOCATION AND MAGNETOSPHERIC MAPPING OF SATURN'S MID-LATITUDE INFRARED AURORAL OVAL. Astrophysical Journal Letters, 2010, 722, L85-L89. | 3.0 | 21 |
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| 135 | Variation of Saturn's UV aurora with SKR phase. Geophysical Research Letters, 2010, 37, . | 1.5 | 57 |
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| 138 | 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 |
| 139 | Mixed Azimuthal Scales of Flux Transfer Events. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 389-398. | 0.3 | 12 |
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| 146 | Statistical properties of flux closure induced by solar wind dynamic pressure fronts. Journal of Geophysical Research, 2009, 114, . | 3.3 | 14 |
| 147 | Characterization of auroral current systems in Saturn's magnetosphere: Highâ€latitude Cassini observations. Journal of Geophysical Research, 2009, 114, . | 3.3 | 44 |
| 148 | Thickness of Saturn's ring current determined from northâ€south Cassini passes through the current layer. Journal of Geophysical Research, 2009, 114, . | 3.3 | 39 |
| 149 | Phase relation of oscillations near the planetary period of Saturn's auroral oval and the equatorial magnetospheric magnetic field. Journal of Geophysical Research, 2009, 114, . | 3.3 | 33 |
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| 152 | Plasma boundary variability at Mars as observed by Mars Global Surveyor and Mars Express. Annales Geophysicae, 2009, 27, 3537-3550. | 0.6 | 70 |
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