# J-C GÃ©rard

List of Publications by Year
in descending order

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|---|---|---|---|
| 327 papers | 13,117 citations | 22099 59 h-index | 43802 91 g-index |

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|---|---|---|---|
| 345 all docs | 345 docs citations | 345 times ranked | 4406 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The effect of particle precipitation events on the neutral and ion chemistry of the middle atmosphere: II. Odd hydrogen. Planetary and Space Science, 1981, 29, 885-893. | 0.9 | 257 |
| 2 | A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209. | 1.6 | 249 |
| 3 | Far ultraviolet imaging from the IMAGE spacecraft. 1. System design. Space Science Reviews, 2000, 91, 243-270. | 3.7 | 211 |
| 4 | Ultraviolet emissions from the magnetic footprints of Io, Ganymede and Europa on Jupiter. Nature, 2002, 415, 997-1000. | 13.7 | 203 |
| 5 | Far ultraviolet imaging from the IMAGE spacecraft. 3. Spectral imaging of Lyman-Î± and OI 135.6 nm. Space Science Reviews, 2000, 91, 287-318. | 3.7 | 194 |
| 6 | The effect of particle precipitation events on the neutral and ion chemistry of the middle atmosphereâ€”I. Odd nitrogen. Planetary and Space Science, 1981, 29, 767-774. | 0.9 | 185 |
| 7 | Hubble Space Telescope imaging of Jupiter's UV aurora during the Galileo orbiter mission. Journal of Geophysical Research, 1998, 103, 20217-20236. | 3.3 | 170 |
| 8 | A self-consistent model of the Jovian auroral thermal structure. Journal of Geophysical Research, 2001, 106, 12933-12952. | 3.3 | 169 |
| 9 | CARAIB: A global model of terrestrial biological productivity. Global Biogeochemical Cycles, 1994, 8, 255-270. | 1.9 | 165 |
| 10 | A warm layer in Venus' cryosphere and high-altitude measurements of HF, HCl, H2O and HDO. Nature, 2007, 450, 646-649. | 13.7 | 161 |
| 11 | Response of Jupiter's and Saturn's auroral activity to the solar wind. Journal of Geophysical Research, 2009, 114, . | 3.3 | 161 |
| 12 | SPICAV on Venus Express: Three spectrometers to study the global structure and composition of the Venus atmosphere. Planetary and Space Science, 2007, 55, 1673-1700. | 0.9 | 160 |
| 13 | Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter. Nature, 2005, 433, 717-719. | 13.7 | 155 |
| 14 | The Ionospheric Connection Explorer Mission: Mission Goals and Design. Space Science Reviews, 2018, 214, 1. | 3.7 | 152 |
| 15 | Reconnection in a rotation-dominated magnetosphere and its relation to Saturn's auroral dynamics. Journal of Geophysical Research, 2005, 110, . | 3.3 | 151 |
| 16 | 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. | 0.9 | 140 |
| 17 | Jupiter's polar auroral emissions. Journal of Geophysical Research, 2003, 108, . | 3.3 | 135 |
| 18 | Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. Journal of Geophysical Research, 2008, 113, . | 3.3 | 127 |

| # | Article | IF | Citations |
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| 19 | Solar wind dynamic pressure and electric field as the main factors controlling Saturn's aurorae. Nature, 2005, 433, 720-722. | 13.7 | 126 |
| 20 | The Atmospheric Chemistry Suite (ACS) of Three Spectrometers for the ExoMars 2016 Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1. | 3.7 | 119 |
| 21 | Proton aurora in the cusp. Journal of Geophysical Research, 2002, 107, SMP 2-1. | 3.3 | 115 |
| 22 | Morphology of the Venus ultraviolet night airglow. Journal of Geophysical Research, 1980, 85, 7861-7870. | 3.3 | 113 |
| 23 | Auroral evidence of Io's control over the magnetosphere of Jupiter. Geophysical Research Letters, 2012, 39, . | 1.5 | 111 |
| 24 | No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520. | 13.7 | 111 |
| 25 | Jupiterâ€™s magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. Science, 2017, 356, 826-832. | 6.0 | 109 |
| 26 | The Ultraviolet Spectrograph on NASAâ€™s Juno Mission. Space Science Reviews, 2017, 213, 447-473. | 3.7 | 109 |
| 27 | Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525. | 13.7 | 107 |
| 28 | An Earth-like correspondence between Saturn's auroral features and radio emission. Nature, 2005, 433, 722-725. | 13.7 | 104 |
| 29 | Variable morphology of Saturn's southern ultraviolet aurora. Journal of Geophysical Research, 2005, 110, . | 3.3 | 96 |
| 30 | A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express. Nature, 2007, 450, 641-645. | 13.7 | 95 |
| 31 | Variation of different components of Jupiter's auroral emission. Journal of Geophysical Research, 2009, 114, . | 3.3 | 95 |
| 32 | NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. Space Science Reviews, 2018, 214, 1. | 3.7 | 95 |
| 33 | Open flux estimates in Saturn's magnetosphere during the January 2004 Cassini-HST campaign, and implications for reconnection rates. Journal of Geophysical Research, 2005, 110, . | 3.3 | 92 |
| 34 | Auroral evidence of a localized magnetic anomaly in Jupiter's northern hemisphere. Journal of Geophysical Research, 2008, 113, . | 3.3 | 89 |
| 35 | The Venus nitric oxide night airglow: Model calculations based on the Venus thermospheric general circulation model. Journal of Geophysical Research, 1990, 95, 6271-6284. | 3.3 | 88 |
| 36 | A kinetic model of the formation of the hot oxygen geocorona: 1. Quiet geomagnetic conditions. Journal of Geophysical Research, 1994, 99, 23217. | 3.3 | 88 |

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| 37 | Oscillation of Saturn's southern auroral oval. Journal of Geophysical Research, 2008, 113, . | 3.3 | 88 |
| 38 | First detection of hydroxyl in the atmosphere of Venus. Astronomy and Astrophysics, 2008, 483, L29-L33. | 2.1 | 86 |
| 39 | Characteristics of Saturn's FUV aurora observed with the Space Telescope Imaging Spectrograph. Journal of Geophysical Research, 2004, 109, . | 3.3 | 84 |
| 40 | UV Io footprint leading spot: A key feature for understanding the UV Io footprint multiplicity?. Geophysical Research Letters, 2008, 35, . | 1.5 | 84 |
| 41 | A statistical analysis of the location and width of Saturn's southern auroras. Annales Geophysicae, 2006, 24, 3533-3545. | 0.6 | 82 |
| 42 | The auroral footprint of Enceladus on Saturn. Nature, 2011, 472, 331-333. | 13.7 | 82 |
| 43 | Altitude of Saturn's aurora and its implications for the characteristic energy of precipitated electrons. Geophysical Research Letters, 2009, 36, . | 1.5 | 81 |
| 44 | A layer of ozone detected in the nightside upper atmosphere of Venus. Icarus, 2011, 216, 82-85. | 1.1 | 81 |
| 45 | The Io UV footprint: Location, interâ€spot distances and tail vertical extent. Journal of Geophysical Research, 2009, 114, . | 3.3 | 77 |
| 46 | Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. Planetary and Space Science, 2015, 119, 233-249. | 0.9 | 77 |
| 47 | Dayside and nightside reconnection rates inferred from IMAGE FUV and Super Dual Auroral Radar Network data. Journal of Geophysical Research, 2006, 111, . | 3.3 | 71 |
| 48 | Bifurcations of the main auroral ring at Saturn: ionospheric signatures of consecutive reconnection events at the magnetopause. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 69 |
| 49 | Monte Carlo model of electron transport for the calculation of Mars dayglow emissions. Journal of Geophysical Research, 2008, 113, . | 3.3 | 68 |
| 50 | 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 |
| 51 | Response of Jupiter's UV auroras to interplanetary conditions as observed by the Hubble Space Telescope during the Cassini flyby campaign. Journal of Geophysical Research, 2007, 112, n/a-n/a. | 3.3 | 66 |
| 52 | A model of the Lyman-Î± line profile in the proton aurora. Journal of Geophysical Research, 2000, 105, 15795-15805. | 3.3 | 65 |
| 53 | HST far-ultraviolet imaging of Jupiter during the impacts of comet Shoemaker-Levy 9. Science, 1995, 267, 1302-1307. | 6.0 | 64 |
| 54 | A possible auroral signature of a magnetotail reconnection process on Jupiter. Journal of Geophysical Research, 2004, 109, . | 3.3 | 64 |

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| 55 | SPICAM on Mars Express: A 10 year in-depth survey of the Martian atmosphere. Icarus, 2017, 297, 195-216. | 1.1 | 64 |
| 56 | Scientific problems addressed by the Spektr-UV space project (world space Observatoryâ€"Ultraviolet). Astronomy Reports, 2016, 60, 1-42. | 0.2 | 63 |
| 57 | The electron and proton aurora as seen by IMAGE-FUV and FAST. Geophysical Research Letters, 2001, 28, 1135-1138. | 1.5 | 61 |
| 58 | Summary of quantitative interpretation of IMAGE far ultraviolet auroral data. Space Science Reviews, 2003, 109, 255-283. | 3.7 | 60 |
| 59 | Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. Annales Geophysicae, 2008, 26, 2613-2630. | 0.6 | 60 |
| 60 | Conversion from HST ACS and STIS auroral counts into brightness, precipitated power, and radiated power for H<sub>2</sub> giant planets. Journal of Geophysical Research, 2012, 117, . | 3.3 | 60 |
| 61 | Excitation of the FUV Io tail on Jupiter: Characterization of the electron precipitation. Journal of Geophysical Research, 2002, 107, SMP 30-1. | 3.3 | 59 |
| 62 | Distribution of the ultraviolet nitric oxide Martian night airglow: Observations from Mars Express and comparisons with a oneâ€dimensional model. Journal of Geophysical Research, 2008, 113, . | 3.3 | 59 |
| 63 | Observation of the proton aurora with IMAGE FUV imager and simultaneous ion flux in situ measurements. Journal of Geophysical Research, 2001, 106, 28939-28948. | 3.3 | 58 |
| 64 | Variation of Saturn's UV aurora with SKR phase. Geophysical Research Letters, 2010, 37, . | 1.5 | 57 |
| 65 | The tails of the satellite auroral footprints at Jupiter. Journal of Geophysical Research: Space Physics, 2017, 122, 7985-7996. | 0.8 | 57 |
| 66 | Ultraviolet observations of equatorial dayglow above theF<sub>2</sub>peak. Journal of Geophysical Research, 1973, 78, 4641-4650. | 3.3 | 56 |
| 67 | The reaction of N(Â²D) with O<sub>2</sub> as a source of O (Â¹D) atoms in aurorae. Geophysical Research Letters, 1978, 5, 1043-1046. | 1.5 | 55 |
| 68 | A Remarkable Auroral Event on Jupiter Observed in the Ultraviolet with the Hubble Space Telescope. Science, 1994, 266, 1675-1678. | 6.0 | 55 |
| 69 | Energy-flux relationship in the FUV Jovian aurora deduced from HST-STIS spectral observations. Journal of Geophysical Research, 2004, 109, . | 3.3 | 55 |
| 70 | Limb observations of the ultraviolet nitric oxide nightglow with SPICAV on board Venus Express. Journal of Geophysical Research, 2008, 113, . | 3.3 | 55 |
| 71 | Small-scale structures in Saturn's ultraviolet aurora. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 55 |
| 72 | Morphology of the UV aurorae Jupiter during Juno's first perijove observations. Geophysical Research Letters, 2017, 44, 4463-4471. | 1.5 | 54 |

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| 73 | Ultraviolet imaging of the Jovian aurora with the Hubble Space Telescope. Geophysical Research Letters, 1992, 19, 1803-1806. | 1.5 | 53 |
| 74 | Auroral polar dawn spots: Signatures of internally driven reconnection processes at Jupiter's magnetotail. Geophysical Research Letters, 2008, 35, . | 1.5 | 53 |
| 75 | Quasi-periodic polar flares at Jupiter: A signature of pulsed dayside reconnections?. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 53 |
| 76 | Jupiter's Aurora Observed With HST During Juno Orbits 3 to 7. Journal of Geophysical Research: Space Physics, 2018, 123, 3299-3319. | 0.8 | 53 |
| 77 | Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777. | 6.0 | 53 |
| 78 | Interplanetary magnetic field control of afternoon-sector detached proton auroral arcs. Journal of Geophysical Research, 2002, 107, SMP 17-1. | 3.3 | 52 |
| 79 | Signature of Saturn's auroral cusp: Simultaneous Hubble Space Telescope FUV observations and upstream solar wind monitoring. Journal of Geophysical Research, 2005, 110, . | 3.3 | 52 |
| 80 | Discontinuity in Jupiter's main auroral oval. Journal of Geophysical Research, 2008, 113, . | 3.3 | 52 |
| 81 | Morphology and dynamics of Venus oxygen airglow from Venus Express/Visible and Infrared Thermal Imaging Spectrometer observations. Journal of Geophysical Research, 2008, 113, . | 3.3 | 52 |
| 82 | SPICAM observations and modeling of Mars aurorae. Icarus, 2016, 264, 398-406. | 1.1 | 52 |
| 83 | Propagation of electron and proton shock-induced aurora and the role of the interplanetary magnetic field and solar wind. Journal of Geophysical Research, 2004, 109, . | 3.3 | 51 |
| 84 | Characteristics of Saturn's polar atmosphere and auroral electrons derived from HST/STIS, FUSE and Cassini/UVIS spectra. Icarus, 2009, 200, 176-187. | 1.1 | 51 |
| 85 | Ion outflow observed by IMAGE: Implications for source regions and heating mechanisms. Geophysical Research Letters, 2001, 28, 1163-1166. | 1.5 | 50 |
| 86 | Morphology of the ultraviolet Io footprint emission and its control by Io's location. Journal of Geophysical Research, 2006, 111, . | 3.3 | 50 |
| 87 | Distribution of the O<sub>2</sub> infrared nightglow observed with VIRTIS on board Venus Express. Geophysical Research Letters, 2008, 35, . | 1.5 | 50 |
| 88 | Atomic oxygen on the Venus nightside: Global distribution deduced from airglow mapping. Icarus, 2012, 217, 849-855. | 1.1 | 50 |
| 89 | Auroral signatures of multiple magnetopause reconnection at Saturn. Geophysical Research Letters, 2013, 40, 4498-4502. | 1.5 | 50 |
| 90 | High-resolution spectra of Jupiter's northern auroral ultraviolet emission with the Hubble Space Telescope. Astrophysical Journal, 1994, 421, 816. | 1.6 | 50 |

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| 91 | Observation of dayside subauroral proton flashes with the IMAGE-FUV imagers. Geophysical Research Letters, 2003, 30, . | 1.5 | 49 |
| 92 | The morphology of the north Jovian ultraviolet aurora observed with the Hubble Space Telescope. Planetary and Space Science, 1994, 42, 905-917. | 0.9 | 48 |
| 93 | Auroral Lyman Î± and H2bands from the giant planets: 1. Excitation by proton precipitation in the Jovian atmosphere. Journal of Geophysical Research, 1994, 99, 17075. | 3.3 | 48 |
| 94 | Characteristics of Jovian morning bright FUV aurora from Hubble Space Telescope/Space Telescope Imaging Spectrograph imaging and spectral observations. Journal of Geophysical Research, 2006, 111, . | 3.3 | 48 |
| 95 | UVIS observations of the FUV OI and CO 4P Venus dayglow during the Cassini flyby. Icarus, 2010, 207, 549-557. | 1.1 | 47 |
| 96 | EUV spectroscopy of the Venus dayglow with UVIS on Cassini. Icarus, 2011, 211, 70-80. | 1.1 | 47 |
| 97 | Mapping the electron energy in Jupiter's aurora: Hubble spectral observations. Journal of Geophysical Research: Space Physics, 2014, 119, 9072-9088. | 0.8 | 47 |
| 98 | Thermalization of O(1D) atoms in the thermosphere. Journal of Geophysical Research, 1999, 104, 4287-4295. | 3.3 | 45 |
| 99 | Simultaneous observations of the Saturnian aurora and polar haze with the HST/FOC. Geophysical Research Letters, 1995, 22, 2685-2688. | 1.5 | 44 |
| 100 | Auroral footprint of Ganymede. Journal of Geophysical Research, 2009, 114, . | 3.3 | 44 |
| 101 | On the origin of Saturn's outer auroral emission. Journal of Geophysical Research, 2010, 115, . | 3.3 | 44 |
| 102 | Nightside reconnection at Jupiter: Auroral and magnetic field observations from 26 July 1998. Journal of Geophysical Research, 2011, 116, . | 3.3 | 43 |
| 103 | Dynamic auroral storms on Saturn as observed by the Hubble Space Telescope. Geophysical Research Letters, 2014, 41, 3323-3330. | 1.5 | 43 |
| 104 | Open flux in Saturnâ€™s magnetosphere. Icarus, 2014, 231, 137-145. | 1.1 | 43 |
| 105 | Modelling short-term CO2 fluxes and long-term tree growth in temperate forests with ASPECTS. Ecological Modelling, 2001, 141, 35-52. | 1.2 | 42 |
| 106 | IMAGE FUV and in situ FAST particle observations of substorm aurorae. Journal of Geophysical Research, 2003, 108, . | 3.3 | 42 |
| 107 | Jupiterâ€™s changing auroral location. Journal of Geophysical Research, 2008, 113, . | 3.3 | 41 |
| 108 | Hubble Space Telescope Goddard high-resolution spectrograph H2 rotational spectra of Jupiter's aurora. Astrophysical Journal, 1994, 430, L73. | 1.6 | 41 |

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| 109 | Global observations of proton and electron auroras in a substorm. Geophysical Research Letters, 2001, 28, 1139-1142. | 1.5 | 40 |
| 110 | Total electron and proton energy input during auroral substorms: Remote sensing with IMAGE-FUV. Journal of Geophysical Research, 2002, 107, SMP 15-1-SMP 15-12. | 3.3 | 40 |
| 111 | Compression of the Earth's magnetotail by interplanetary shocks directly drives transient magnetic flux closure. Geophysical Research Letters, 2006, 33, n/a-n/a. | 1.5 | 40 |
| 112 | Equatorward diffuse auroral emissions at Jupiter: Simultaneous HST and Galileo observations. Geophysical Research Letters, 2009, 36, . | 1.5 | 40 |
| 113 | The altitude distribution of the Venus ultraviolet nightglow and implications on vertical transport. Geophysical Research Letters, 1981, 8, 633-636. | 1.5 | 39 |
| 114 | The seasonality of the CO2exchange between the atmosphere and the land biosphere: A study with a global mechanistic vegetation model. Journal of Geophysical Research, 1996, 101, 7111-7125. | 3.3 | 39 |
| 115 | Jovian auroral spectroscopy with FUSE: analysis of self-absorption and implications for electron precipitation. Icarus, 2004, 171, 336-355. | 1.1 | 39 |
| 116 | Morphology and time variation of the Jovian far UV aurora: Hubble space telescope observations. Journal of Geophysical Research, 1993, 98, 18793-18801. | 3.3 | 38 |
| 117 | The interannual change of atmospheric CO2: Contribution of subtropical ecosystems?. Geophysical Research Letters, 1999, 26, 243-246. | 1.5 | 38 |
| 118 | Diagnostics of the Jovian Aurora Deduced from Ultraviolet Spectroscopy: Model and HST/GHRS Observations. Icarus, 2000, 147, 251-266. | 1.1 | 38 |
| 119 | Observations of Jovian polar auroral filaments. Geophysical Research Letters, 2009, 36, . | 1.5 | 37 |
| 120 | Saturn's equinoctial auroras. Geophysical Research Letters, 2009, 36, . | 1.5 | 37 |
| 121 | Concurrent observations of ultraviolet aurora and energetic electron precipitation with Mars Express. Journal of Geophysical Research: Space Physics, 2015, 120, 6749-6765. | 0.8 | 37 |
| 122 | The global distribution of thermospheric odd nitrogen for solstice conditions during solar cycle minimum. Journal of Geophysical Research, 1984, 89, 1725-1738. | 3.3 | 36 |
| 123 | An updated model of the hot nitrogen atom kinetics and thermospheric nitric oxide. Journal of Geophysical Research, 1997, 102, 285-294. | 3.3 | 36 |
| 124 | Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMDâ€MGCM predictions. Journal of Geophysical Research: Space Physics, 2017, 122, 5782-5797. | 0.8 | 36 |
| 125 | The role of proton precipitation in the excitation of auroral FUV emissions. Journal of Geophysical Research, 2001, 106, 21475-21494. | 3.3 | 35 |
| 126 | Dynamics of global scale electron and proton precipitation induced by a solar wind pressure pulse. Geophysical Research Letters, 2003, 30, . | 1.5 | 35 |

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| 127 | Spectral observations of transient features in the FUV Jovian polar aurora. Journal of Geophysical Research, 2003, 108, . | 3.3 | 35 |
| 128 | Saturn's auroral morphology and activity during quiet magnetospheric conditions. Journal of Geophysical Research, 2006, 111, . | 3.3 | 35 |
| 129 | Transient auroral features at Saturn: Signatures of energetic particle injections in the magnetosphere. Journal of Geophysical Research, 2009, 114, . | 3.3 | 35 |
| 130 | Proton and hydrogen atom transport in the Martian upper atmosphere with an induced magnetic field. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 35 |
| 131 | Venus nitric oxide nightglow mapping from SPICAV nadir observations. Icarus, 2013, 226, 428-436. | 1.1 | 35 |
| 132 | Jupiter's equatorward auroral features: Possible signatures of magnetospheric injections. Journal of Geophysical Research: Space Physics, 2014, 119, 10,068. | 0.8 | 35 |
| 133 | HUBBLE SPACE TELESCOPE/ADVANCED CAMERA FOR SURVEYS OBSERVATIONS OF EUROPA'S ATMOSPHERIC ULTRAVIOLET EMISSION AT EASTERN ELONGATION. Astrophysical Journal, 2011, 738, 153. | 1.6 | 34 |
| 134 | The thermal structure of the Venus atmosphere: Intercomparison of Venus Express and ground based observations of vertical temperature and density profiles. Icarus, 2017, 294, 124-155. | 1.1 | 34 |
| 135 | The auroral ionosphere: Comparison of a timeâ€dependent model with composition measurements. Journal of Geophysical Research, 1979, 84, 4335-4340. | 3.3 | 33 |
| 136 | Satellite studies of N(Â²D) emission and ion chemistry in aurorae. Journal of Geophysical Research, 1980, 85, 1285-1290. | 3.3 | 33 |
| 137 | Non thermal nitrogen atoms in the Earth's thermosphere 2. A source of nitric oxide. Geophysical Research Letters, 1991, 18, 1695-1698. | 1.5 | 33 |
| 138 | Aeronomy of the Venus Upper Atmosphere. Space Science Reviews, 2017, 212, 1617-1683. | 3.7 | 33 |
| 139 | A numerical model of the evolution of ocean sulfate and sedimentary sulfur during the last 800 million years. Geochimica Et Cosmochimica Acta, 1986, 50, 2289-2302. | 1.6 | 32 |
| 140 | Electron and proton excitation of the FUV aurora: Simultaneous IMAGE and NOAA observations. Journal of Geophysical Research, 2002, 107, SIA 5-1. | 3.3 | 32 |
| 141 | Auroral signatures of flow bursts released during magnetotail reconnection at Jupiter. Journal of Geophysical Research, 2010, 115, . | 3.3 | 32 |
| 142 | The OH Venus nightglow spectrum: Intensity and vibrational composition from VIRTISâ€”Venus Express observations. Planetary and Space Science, 2012, 73, 387-396. | 0.9 | 32 |
| 143 | Evolution of the Io footprint brightness I: Far-UV observations. Planetary and Space Science, 2013, 88, 64-75. | 0.9 | 32 |
| 144 | Signatures of magnetospheric injections in Saturn's aurora. Journal of Geophysical Research: Space Physics, 2013, 118, 1922-1933. | 0.8 | 32 |

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| 145 | Observations of the Proton Aurora on Mars With SPICAM on Board Mars Express. Geophysical Research Letters, 2018, 45, 612-619. | 1.5 | 32 |
| 146 | On the Relation Between Jovian Aurorae and the Loading/Unloading of the Magnetic Flux: Simultaneous Measurements From Juno, Hubble Space Telescope, and Hisaki. Geophysical Research Letters, 2019, 46, 11632-11641. | 1.5 | 32 |
| 147 | Non thermal nitrogen atoms in the Earth's thermosphere 1. Kinetics of hot N(<sup>4</sup>S). Geophysical Research Letters, 1991, 18, 1691-1694. | 1.5 | 31 |
| 148 | Comparing global models of terrestrial net primary productivity (NPP): analysis of the seasonal atmospheric CO 2 signal. Global Change Biology, 1999, 5, 65-76. | 4.2 | 31 |
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| 150 | The multiple spots of the Ganymede auroral footprint. Geophysical Research Letters, 2013, 40, 4977-4981. | 1.5 | 31 |
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| 152 | Thermospheric odd nitrogen. Planetary and Space Science, 1992, 40, 337-353. | 0.9 | 30 |
| 153 | Solar wind control of auroral substorm onset locations observed with the IMAGE-FUV imagers. Journal of Geophysical Research, 2004, 109, . | 3.3 | 30 |
| 154 | Atomic oxygen distributions in the Venus thermosphere: Comparisons between Venus Express observations and global model simulations. Icarus, 2012, 217, 759-766. | 1.1 | 30 |
| 155 | Spatial correlation of OH Meinel and O2 infrared atmospheric nightglow emissions observed with VIRTIS-M on board Venus Express. Icarus, 2012, 217, 813-817. | 1.1 | 30 |
| 156 | Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316. | 1.5 | 30 |
| 157 | Europa's FUV auroral tail on Jupiter. Geophysical Research Letters, 2006, 33, . | 1.5 | 29 |
| 158 | Location and spatial shape of electron beams in Io's wake. Journal of Geophysical Research, 2010, 115, . | 3.3 | 29 |
| 159 | Cassini-UVIS observation of dayglow FUV emissions of carbon in the thermosphere of Venus. Icarus, 2012, 220, 635-646. | 1.1 | 29 |
| 160 | Ten years of Martian nitric oxide nightglow observations. Geophysical Research Letters, 2015, 42, 720-725. | 1.5 | 29 |
| 161 | Mars thermospheric scale height: CO Cameron and CO2+ dayglow observations from Mars Express. Icarus, 2015, 245, 295-305. | 1.1 | 29 |
| 162 | The diurnal variation of NO, N(Â²D), and ions in the thermosphere: A comparison of satellite measurements to a model. Journal of Geophysical Research, 1991, 96, 11331-11339. | 3.3 | 28 |

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| 163 | Rapid deactivation of N(Â²D) by O: Impact on thermospheric and mesospheric odd nitrogen. Journal of Geophysical Research, 1989, 94, 5419-5426. | 3.3 | 27 |
| 164 | Global auroral conductance distribution due to electron and proton precipitation from IMAGE-FUV observations. Annales Geophysicae, 2004, 22, 1595-1611. | 0.6 | 27 |
| 165 | Atomic oxygen distribution in the Venus mesosphere from observations of O2 infrared airglow by VIRTIS-Venus Express. Icarus, 2009, 199, 264-272. | 1.1 | 27 |
| 166 | The Venus ultraviolet oxygen dayglow and aurora: Model comparison with observations. Planetary and Space Science, 2008, 56, 542-552. | 0.9 | 26 |
| 167 | The distributions of the OH Meinel and nightglow emissions in the Venus mesosphere based on VIRTIS observations. Advances in Space Research, 2010, 45, 1268-1275. | 1.2 | 26 |
| 168 | Satellite observations of the nitric oxide nightglow. Geophysical Research Letters, 1975, 2, 179-182. | 1.5 | 25 |
| 169 | OGO-4 observations of the ultraviolet auroral spectrum. Planetary and Space Science, 1976, 24, 1059-1063. | 0.9 | 25 |
| 170 | Spatially Resolved Far Ultraviolet Spectroscopy of the Jovian Aurora. Icarus, 2002, 157, 91-103. | 1.1 | 25 |
| 171 | Concurrent observations of the ultraviolet nitric oxide and infrared O<sub>2</sub> nightglow emissions with Venus Express. Journal of Geophysical Research, 2009, 114, . | 3.3 | 25 |
| 172 | Junoâ€UVS approach observations of Jupiter's auroras. Geophysical Research Letters, 2017, 44, 7668-7675. | 1.5 | 25 |
| 173 | Are Dawn Storms Jupiter's Auroral Substorms?. AGU Advances, 2021, 2, e2020AV000275. | 2.3 | 25 |
| 174 | Venus express: Highlights of the nominal mission. Solar System Research, 2009, 43, 185-209. | 0.3 | 24 |
| 175 | Effects of methane on giant planetâ€™s UV emissions and implications for the auroral characteristics. Journal of Molecular Spectroscopy, 2013, 291, 108-117. | 0.4 | 24 |
| 176 | Jupiter's aurora in ultraviolet and infrared: Simultaneous observations with the Hubble Space Telescope and the NASA Infrared Telescope Facility. Journal of Geophysical Research: Space Physics, 2013, 118, 2286-2295. | 0.8 | 24 |
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