

Peter Kollmann

List of Publications by Citations

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100
papers

2,206
citations

24
h-index

43
g-index

132
ext. papers

2,662
ext. citations

7.3
avg, IF

4.39
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 100 | The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015 , 350, aad1815 | 33.3 | 295 |
| 99 | The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016 , 351, 1284-93 | 33.3 | 180 |
| 98 | The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016 , 351, aad8866 | 33.3 | 164 |
| 97 | Initial results from the New Horizons exploration of 2014 MU, a small Kuiper Belt object. <i>Science</i> , 2019 , 364, | 33.3 | 80 |
| 96 | Juno observations of energetic charged particles over Jupiter's polar regions: Analysis of monodirectional and bidirectional electron beams. <i>Geophysical Research Letters</i> , 2017 , 44, 4410-4418 | 4.9 | 74 |
| 95 | Discrete and broadband electron acceleration in Jupiter's powerful aurora. <i>Nature</i> , 2017 , 549, 66-69 | 50.4 | 57 |
| 94 | Saturn's inner magnetospheric convection pattern: Further evidence. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 56 |
| 93 | Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016 , 351, aad9045 | 33.3 | 52 |
| 92 | Energetic particle phase space densities at Saturn: Cassini observations and interpretations. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 46 |
| 91 | Investigation of dephasing rates in an interacting Rydberg gas. <i>New Journal of Physics</i> , 2009 , 11, 055014 | 2.9 | 43 |
| 90 | Processes forming and sustaining Saturn's proton radiation belts. <i>Icarus</i> , 2013 , 222, 323-341 | 3.8 | 41 |
| 89 | The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016 , 539, 65-68 | 50.4 | 38 |
| 88 | Long- and short-term variability of Saturn's ionic radiation belts. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a | | 37 |
| 87 | Wave-Particle Interaction of Alfvén Waves in Jupiter's Magnetosphere: Auroral and Magnetospheric Particle Acceleration. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9560-9573 | 2.6 | 37 |
| 86 | Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. <i>Geophysical Research Letters</i> , 2018 , 45, 1277-1285 | 4.9 | 35 |
| 85 | Energetic particle signatures of magnetic field-aligned potentials over Jupiter's polar regions. <i>Geophysical Research Letters</i> , 2017 , 44, 8703-8711 | 4.9 | 35 |
| 84 | Transport of energetic electrons into Saturn's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 34 |

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|----|--|------|----|
| 83 | Precipitating Electron Energy Flux and Characteristic Energies in Jupiter's Main Auroral Region as Measured by Juno/JEDI. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7554-7567 | 2.6 | 33 |
| 82 | Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012 , 61, 60-65 | 2 | 30 |
| 81 | Charge states of energetic oxygen and sulfur ions in Jupiter's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2264-2273 | 2.6 | 29 |
| 80 | Effects of radial motion on interchange injections at Saturn. <i>Icarus</i> , 2016 , 264, 342-351 | 3.8 | 29 |
| 79 | Dust grains fall from Saturn's D-ring into its equatorial upper atmosphere. <i>Science</i> , 2018 , 362, | 33.3 | 27 |
| 78 | Solar Energetic Particles (SEP) and Galactic Cosmic Rays (GCR) as tracers of solar wind conditions near Saturn: Event lists and applications. <i>Icarus</i> , 2018 , 300, 47-71 | 3.8 | 25 |
| 77 | The variable extension of Saturn's electron radiation belts. <i>Planetary and Space Science</i> , 2014 , 104, 3-17 | 2 | 25 |
| 76 | Rotationally driven magnetic reconnection in Saturn's dayside. <i>Nature Astronomy</i> , 2018 , 2, 640-645 | 12.1 | 24 |
| 75 | Electron Acceleration to MeV Energies at Jupiter and Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9110-9129 | 2.6 | 24 |
| 74 | Radiation Belt Radial Diffusion at Earth and Beyond. <i>Space Science Reviews</i> , 2020 , 216, 1 | 7.5 | 21 |
| 73 | Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1989 | 2.6 | 21 |
| 72 | Drift-resonant, relativistic electron acceleration at the outer planets: Insights from the response of Saturn's radiation belts to magnetospheric storms. <i>Icarus</i> , 2018 , 305, 160-173 | 3.8 | 21 |
| 71 | A heavy ion and proton radiation belt inside of Jupiter's rings. <i>Geophysical Research Letters</i> , 2017 , 44, 5259-5268 | 4.9 | 20 |
| 70 | The lens feature on the inner saturnian satellites. <i>Icarus</i> , 2014 , 234, 155-161 | 3.8 | 20 |
| 69 | Energetic electron observations of Rhea's magnetospheric interaction. <i>Icarus</i> , 2012 , 221, 116-134 | 3.8 | 20 |
| 68 | A radiation belt of energetic protons located between Saturn and its rings. <i>Science</i> , 2018 , 362, | 33.3 | 19 |
| 67 | Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 4419-4425 | 4.9 | 18 |
| 66 | A Physical Model of the Proton Radiation Belts of Jupiter inside Europa's Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3512-3532 | 2.6 | 18 |

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|----|--|------|----|
| 65 | Properties of planetward ion flows in Venus's magnetotail. <i>Icarus</i> , 2016 , 274, 73-82 | 3.8 | 18 |
| 64 | Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O ⁺ and S ²⁺ . <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2018JA026169 | 2.6 | 18 |
| 63 | The vertical thickness of Jupiter's Europa gas torus from charged particle measurements. <i>Geophysical Research Letters</i> , 2016 , 43, 9425-9433 | 4.9 | 17 |
| 62 | Mimas's far-UV albedo: Spatial variations. <i>Icarus</i> , 2012 , 220, 922-931 | 3.8 | 17 |
| 61 | The evolution of Saturn's radiation belts modulated by changes in radial diffusion. <i>Nature Astronomy</i> , 2017 , 1, 872-877 | 12.1 | 16 |
| 60 | The puzzling detection of x-rays from Pluto by Chandra. <i>Icarus</i> , 2017 , 287, 103-109 | 3.8 | 16 |
| 59 | Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. <i>Science</i> , 2019 , 364, | 33.3 | 15 |
| 58 | Energetic Particles and Acceleration Regions Over Jupiter's Polar Cap and Main Aurora: A Broad Overview. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027699 | 2.6 | 15 |
| 57 | Energetic particle measurements in the vicinity of Dione during the three Cassini encounters 2005-2011. <i>Icarus</i> , 2013 , 226, 617-628 | 3.8 | 15 |
| 56 | Juno/JEDI observations of 0.01 to >10 MeV energetic ions in the Jovian auroral regions: Anticipating a source for polar X-ray emission. <i>Geophysical Research Letters</i> , 2017 , 44, 6476-6482 | 4.9 | 14 |
| 55 | Magnetospheric considerations for solar system ice state. <i>Icarus</i> , 2018 , 302, 560-564 | 3.8 | 14 |
| 54 | The impact of a slow interplanetary coronal mass ejection on Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3489-3502 | 2.6 | 13 |
| 53 | The Cassini Enceladus encounters 2005-2010 in the view of energetic electron measurements. <i>Icarus</i> , 2012 , 218, 433-447 | 3.8 | 13 |
| 52 | The "Puck" energetic charged particle detector: Design, heritage, and advancements. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7900-7913 | 2.6 | 13 |
| 51 | Jovian Injections Observed at High Latitude. <i>Geophysical Research Letters</i> , 2019 , 46, 9397-9404 | 4.9 | 12 |
| 50 | Heliospheric Conditions at Saturn During Cassini's Ring-Grazing and Proximal Orbits. <i>Geophysical Research Letters</i> , 2018 , 45, 10812-10818 | 4.9 | 12 |
| 49 | Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. <i>Astrophysical Journal Letters</i> , 2018 , 868, L23 | 7.9 | 12 |
| 48 | Sources, Sinks, and Transport of Energetic Electrons Near Saturn's Main Rings. <i>Geophysical Research Letters</i> , 2019 , 46, 3590-3598 | 4.9 | 11 |

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|----|--|-----|----|
| 47 | Evidence for dust-driven, radial plasma transport in Saturn's inner radiation belts. <i>Icarus</i> , 2016 , 274, 272-283 | 3.8 | 10 |
| 46 | Long- and Short-term Variability of Galactic Cosmic-Ray Radial Intensity Gradients between 1 and 9.5 au: Observations by Cassini, BESS, BESS-Polar, PAMELA, and AMS-02. <i>Astrophysical Journal</i> , 2020 , 904, 165 | 4.7 | 10 |
| 45 | Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028052 | 2.6 | 10 |
| 44 | Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. <i>Space Science Reviews</i> , 2020 , 216, 1 | 7.5 | 10 |
| 43 | MeV proton flux predictions near Saturn's D ring. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8586-8602 | 2.6 | 9 |
| 42 | Io's Effect on Energetic Charged Particles as Seen in Juno Data. <i>Geophysical Research Letters</i> , 2019 , 46, 13615-13620 | 4.9 | 9 |
| 41 | Radiation near Jupiter detected by Juno/JEDI during PJ1 and PJ3. <i>Geophysical Research Letters</i> , 2017 , 44, 4426-4431 | 4.9 | 8 |
| 40 | Juno Energetic Neutral Atom (ENA) Remote Measurements of Magnetospheric Injection Dynamics in Jupiter's Io Torus Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027964 | 2.6 | 8 |
| 39 | Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019 , 876, 46 | 4.7 | 8 |
| 38 | Spectral Signatures of Adiabatic Electron Acceleration at Saturn Through Corotation Drift Cancellation. <i>Geophysical Research Letters</i> , 2019 , 46, 10240-10249 | 4.9 | 8 |
| 37 | Energetic electron microsignatures as tracers of radial flows and dynamics in Saturn's innermost magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 8 |
| 36 | Galactic Cosmic Rays Access to the Magnetosphere of Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 166-177 | 2.6 | 7 |
| 35 | HELIOSPHERIC ENERGETIC NEUTRAL HYDROGEN MEASURED WITH ASPERA-3 AND ASPERA-4. <i>Astrophysical Journal</i> , 2013 , 775, 24 | 4.7 | 7 |
| 34 | Saturn's Innermost Radiation Belt Throughout and Inward of the D-Ring. <i>Geophysical Research Letters</i> , 2018 , 45, 10,912 | 4.9 | 7 |
| 33 | Energetic Neutral and Charged Particle Measurements in the Inner Saturnian Magnetosphere During the Grand Finale Orbits of Cassini 2016/2017. <i>Geophysical Research Letters</i> , 2018 , 45, 10,847 | 4.9 | 7 |
| 32 | Jovian Cosmic-Ray Protons in the Heliosphere: Constraints by Cassini Observations. <i>Astrophysical Journal</i> , 2019 , 871, 223 | 4.7 | 6 |
| 31 | Influence of Solar Disturbances on Galactic Cosmic Rays in the Solar Wind, Heliosheath, and Local Interstellar Medium: Advanced Composition Explorer, New Horizons, and Voyager Observations. <i>Astrophysical Journal</i> , 2020 , 905, 69 | 4.7 | 6 |
| 30 | The Formation of Saturn's and Jupiter's Electron Radiation Belts by Magnetospheric Electric Fields. <i>Astrophysical Journal Letters</i> , 2020 , 905, L10 | 7.9 | 6 |

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|----|--|---------|---|
| 29 | Energetic Proton Acceleration Associated With Io's Footprint Tail. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090839 | 4.9 | 6 |
| 28 | Energetic Electron Periodicities During the Cassini Grand Finale. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 12,229-12,235 | 2.6 | 5 |
| 27 | Energetic electron measurements near Enceladus by Cassini during 2005-2015. <i>Icarus</i> , 2018 , 306, 256-274 | 3.8 | 4 |
| 26 | Acceleration of Ions in Jovian Plasmoids: Does Turbulence Play a Role?. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5056-5069 | 2.6 | 4 |
| 25 | Plasma and energetic particle observations in Jupiter's deep tail near the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6432-6444 | 2.6 | 4 |
| 24 | Jupiter's Ion Radiation Belts Inward of Europa's Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028925 | 2.6 | 4 |
| 23 | Correction of Galileo Energetic Particle Detector, Composition Measurement System High Rate Data: Semiconductor Dead Layer Correction. <i>Space Science Reviews</i> , 2020 , 216, 1 | 7.5 | 3 |
| 22 | Energetic Electron Pitch Angle Distributions During the Cassini Final Orbits. <i>Geophysical Research Letters</i> , 2018 , 45, 2911-2917 | 4.9 | 3 |
| 21 | Where Is the Io Plasma Torus? A Comparison of Observations by Juno Radio Occultations to Predictions From Jovian Magnetic Field Models. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027633 | 2.6 | 3 |
| 20 | Inflow Speed Analysis of Interchange Injections in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028299 | 2.6 | 3 |
| 19 | The Radiation Belts of Jupiter and Saturn. <i>Geophysical Monograph Series</i> , 2021 , 499-514 | 1.1 | 3 |
| 18 | Energy Spectra Near Ganymede From Juno Data. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093021 | 4.9 | 3 |
| 17 | Plasma, Neutral Atmosphere, and Energetic Radiation Environments of Planetary Rings | 363-398 | 2 |
| 16 | High-Energy (>10 MeV) Oxygen and Sulfur Ions Observed at Jupiter From Pulse Width Measurements of the JEDI Sensors. <i>Geophysical Research Letters</i> , 2019 , 46, 10959-10966 | 4.9 | 2 |
| 15 | Spectra of Saturn's proton belts revealed. <i>Icarus</i> , 2022 , 376, 114795 | 3.8 | 2 |
| 14 | Galileo/EPD user guide | | 2 |
| 13 | Ice Giants – The Return of the Rings 2021 , 53, | | 2 |
| 12 | High Latitude Zones of GeV Heavy Ions at the Inner Edge of Jupiter's Relativistic Electron Belt. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006772 | 4.1 | 2 |

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|----|--|------|---|
| 11 | Global Configuration and Seasonal Variations of Saturn's Magnetosphere 2018 , 126-165 | | 2 |
| 10 | A source of very energetic oxygen located in Jupiter's inner radiation belts.. <i>Science Advances</i> , 2022 , 8, eabm4234 | 14.3 | 1 |
| 9 | Energetic Neutral Atoms From Jupiter's Polar Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028697 | 2.6 | 1 |
| 8 | Magnetospheric Studies: A requirement for addressing interdisciplinary mysteries in the Ice Giant systems 2021 , 53, | | 1 |
| 7 | Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7413-7424 | 2.6 | 1 |
| 6 | Charge Exchange Ion Losses in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029310 | 2.6 | 1 |
| 5 | The Case for a New Frontiers-Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. <i>Planetary Science Journal</i> , 2022 , 3, 58 | 2.9 | 1 |
| 4 | Energetic Electron Distributions Near the Magnetic Equator in the Jovian Plasma Sheet and Outer Radiation Belt Using Juno Observations. <i>Geophysical Research Letters</i> , 2021 , 48, | 4.9 | 1 |
| 3 | The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 1 | 1.3 | 0 |
| 2 | Dawn-Dusk Asymmetry in Energetic (>20 keV) Particles Adjacent to Saturn's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028264 | 2.6 | 0 |
| 1 | Jupiter high-energy/high-latitude electron environment from Juno's JEDI and UVS science instrument background noise. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 1002, 165244 | 1.2 | |