

Peter Kollmann

List of Publications by Year in descending order

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105
papers

3,028
citations

172457

29
h-index

189892

50
g-index

132
all docs

132
docs citations

132
times ranked

2216
citing authors

#	ARTICLE	IF	CITATIONS
1	The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 2022, 54, 745-789.	3.7	11
2	Spectra of Saturn's proton belts revealed. <i>Icarus</i> , 2022, 376, 114795.	2.5	4
3	A source of very energetic oxygen located in Jupiter's inner radiation belts. <i>Science Advances</i> , 2022, 8, eabm4234.	10.3	11
4	Losses of Radiation Belt Energetic Particles by Encounters With Four of the Inner Moons of Jupiter. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	4
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.	3.6	12
6	Loss of Energetic Ions Comprising the Ring Current Populations of Jupiter's Middle and Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	4
7	Callisto's Atmosphere and Its Space Environment: Prospects for the Particle Environment Package on Board JUICE. <i>Earth and Space Science</i> , 2022, 9, .	2.6	6
8	An Empirical Model of the Equatorial Electron Pitch Angle Distributions in Earth's Outer Radiation Belt. <i>Space Weather</i> , 2022, 20, .	3.7	3
9	Interstellar Probe: Humanity's exploration of the Galaxy Begins. <i>Acta Astronautica</i> , 2022, 199, 364-373.	3.2	19
10	Dawn-Dusk Asymmetry in Energetic (>20 keV) Particles Adjacent to Saturn's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028264.	2.4	1
11	Ice Giants "The Return of the Rings. , 2021, 53, .		2
12	Magnetospheric Studies: A requirement for addressing interdisciplinary mysteries in the Ice Giant systems. , 2021, 53, .		1
13	Jupiter's Ion Radiation Belts Inward of Europa's Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028925.	2.4	10
14	Energy Spectra Near Ganymede From Juno Data. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093021.	4.0	10
15	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.	3.6	3
16	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.	1.6	2
17	Charge Exchange Ion Losses in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029310.	2.4	1
18	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, .	4.0	6

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19	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O ⁺ and S ²⁺ . Journal of Geophysical Research: Space Physics, 2020, 125, e2018JA026169.	2.4	31
20	Where Is the Io Plasma Torus? A Comparison of Observations by Juno Radio Occultations to Predictions From Jovian Magnetic Field Models. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027633.	2.4	9
21	Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028052.	2.4	21
22	Inflow Speed Analysis of Interchange Injections in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028299.	2.4	7
23	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. Space Science Reviews, 2020, 216, 1.	8.1	16
24	Juno Energetic Neutral Atom (ENA) Remote Measurements of Magnetospheric Injection Dynamics in Jupiter's Io Torus Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027964.	2.4	11
25	Energetic Particles and Acceleration Regions Over Jupiter's Polar Cap and Main Aurora: A Broad Overview. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027699.	2.4	47
26	Radiation Belt Radial Diffusion at Earth and Beyond. Space Science Reviews, 2020, 216, 1.	8.1	45
27	Correction of Galileo Energetic Particle Detector, Composition Measurement System High Rate Data: Semiconductor Dead Layer Correction. Space Science Reviews, 2020, 216, 1.	8.1	3
28	Energetic Proton Acceleration Associated With Io's Footprint Tail. Geophysical Research Letters, 2020, 47, e2020GL090839.	4.0	16
29	Energetic Neutral Atoms From Jupiter's Polar Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028697.	2.4	2
30	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. Astrophysical Journal, 2020, 905, 69.	4.5	15
31	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. Astrophysical Journal, 2020, 904, 165.	4.5	20
32	The Formation of Saturn's and Jupiter's Electron Radiation Belts by Magnetospheric Electric Fields. Astrophysical Journal Letters, 2020, 905, L10.	8.3	20
33	Jovian Injections Observed at High Latitude. Geophysical Research Letters, 2019, 46, 9397-9404.	4.0	17
34	Suprathermal Ions in the Outer Heliosphere. Astrophysical Journal, 2019, 876, 46.	4.5	15
35	Acceleration of Ions in Jovian Plasmoids: Does Turbulence Play a Role?. Journal of Geophysical Research: Space Physics, 2019, 124, 5056-5069.	2.4	7
36	High-Energy (>10 MeV) Oxygen and Sulfur Ions Observed at Jupiter From Pulse Width Measurements of the JEDI Sensors. Geophysical Research Letters, 2019, 46, 10959-10966.	4.0	2

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37	Spectral Signatures of Adiabatic Electron Acceleration at Saturn Through Corotation Drift Cancellation. <i>Geophysical Research Letters</i> , 2019, 46, 10240-10249.	4.0	12
38	Jovian Cosmic-Ray Protons in the Heliosphere: Constraints by Cassini Observations. <i>Astrophysical Journal</i> , 2019, 871, 223.	4.5	8
39	Initial results from the New Horizons exploration of 2014 MU ₆₉ , a small Kuiper Belt object. <i>Science</i> , 2019, 364, .	12.6	113
40	Galactic Cosmic Rays Access to the Magnetosphere of Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 166-177.	2.4	9
41	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. <i>Science</i> , 2019, 364, .	12.6	24
42	Io's Effect on Energetic Charged Particles as Seen in Juno Data. <i>Geophysical Research Letters</i> , 2019, 46, 13615-13620.	4.0	12
43	Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7413-7424.	2.4	4
44	Sources, Sinks, and Transport of Energetic Electrons Near Saturn's Main Rings. <i>Geophysical Research Letters</i> , 2019, 46, 3590-3598.	4.0	13
45	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1989-1999.	2.4	35
46	Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. <i>Geophysical Research Letters</i> , 2018, 45, 1277-1285.	4.0	49
47	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.	2.5	26
48	Magnetospheric considerations for solar system ice state. <i>Icarus</i> , 2018, 302, 560-564.	2.5	23
49	Energetic electron measurements near Enceladus by Cassini during 2005-2015. <i>Icarus</i> , 2018, 306, 256-274.	2.5	4
50	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.	2.5	31
51	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.	2.4	42
52	Heliospheric Conditions at Saturn During Cassini's Ring-Grazing and Proximal Orbits. <i>Geophysical Research Letters</i> , 2018, 45, 10812-10818.	4.0	14
53	Electron Acceleration to MeV Energies at Jupiter and Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9110-9129.	2.4	46
54	Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. <i>Astrophysical Journal Letters</i> , 2018, 868, L23.	8.3	15

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55	Global Configuration and Seasonal Variations of Saturn's Magnetosphere. , 2018, , 126-165.		2
56	A radiation belt of energetic protons located between Saturn and its rings. Science, 2018, 362, .	12.6	27
57	Dust grains fall from Saturn's D-ring into its equatorial upper atmosphere. Science, 2018, 362, .	12.6	37
58	Saturn's Innermost Radiation Belt Throughout and Inward of the Ring. Geophysical Research Letters, 2018, 45, 10,912.	4.0	9
59	Wave-Particle Interaction of Alfvén Waves in Jupiter's Magnetosphere: Auroral and Magnetospheric Particle Acceleration. Journal of Geophysical Research: Space Physics, 2018, 123, 9560-9573.	2.4	64
60	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
61	A Physical Model of the Proton Radiation Belts of Jupiter inside Europa's Orbit. Journal of Geophysical Research: Space Physics, 2018, 123, 3512-3532.	2.4	30
62	Energetic Electron Pitch Angle Distributions During the Cassini Final Orbits. Geophysical Research Letters, 2018, 45, 2911-2917.	4.0	5
63	Rotationally driven magnetic reconnection in Saturn's dayside. Nature Astronomy, 2018, 2, 640-645.	10.1	32
64	Juno/JEDI observations of 0.01 to >10 MeV energetic ions in the Jovian auroral regions: Anticipating a source for polar X-ray emission. Geophysical Research Letters, 2017, 44, 6476-6482.	4.0	16
65	A heavy ion and proton radiation belt inside of Jupiter's rings. Geophysical Research Letters, 2017, 44, 5259-5268.	4.0	28
66	Juno observations of energetic charged particles over Jupiter's polar regions: Analysis of monodirectional and bidirectional electron beams. Geophysical Research Letters, 2017, 44, 4410-4418.	4.0	90
67	Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. Geophysical Research Letters, 2017, 44, 4419-4425.	4.0	21
68	Radiation near Jupiter detected by Juno/JEDI during P1 and P3. Geophysical Research Letters, 2017, 44, 4426-4431.	4.0	10
69	The evolution of Saturn's radiation belts modulated by changes in radial diffusion. Nature Astronomy, 2017, 1, 872-877.	10.1	18
70	Energetic particle signatures of magnetic field-aligned potentials over Jupiter's polar regions. Geophysical Research Letters, 2017, 44, 8703-8711.	4.0	41
71	Discrete and broadband electron acceleration in Jupiter's powerful aurora. Nature, 2017, 549, 66-69.	27.8	79
72	The puzzling detection of x-rays from Pluto by Chandra. Icarus, 2017, 287, 103-109.	2.5	19

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73	Energetic Electron Periodicities During the Cassini Grand Finale. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,229-12,235.	2.4	5
74	The "Puck" energetic charged particle detector: Design, heritage, and advancements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7900-7913.	2.4	15
75	Properties of planetward ion flows in Venus's magnetotail. <i>Icarus</i> , 2016, 274, 73-82.	2.5	25
76	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016, 539, 65-68.	27.8	44
77	Charge states of energetic oxygen and sulfur ions in Jupiter's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2264-2273.	2.4	38
78	The vertical thickness of Jupiter's Europa gas torus from charged particle measurements. <i>Geophysical Research Letters</i> , 2016, 43, 9425-9433.	4.0	27
79	Evidence for dust-driven, radial plasma transport in Saturn's inner radiation belts. <i>Icarus</i> , 2016, 274, 272-283.	2.5	12
80	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016, 351, aad8866.	12.6	201
81	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016, 351, aad9045.	12.6	60
82	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016, 351, 1284-1293.	12.6	219
83	Effects of radial motion on interchange injections at Saturn. <i>Icarus</i> , 2016, 264, 342-351.	2.5	33
84	MeV proton flux predictions near Saturn's D ring. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8586-8602.	2.4	12
85	The impact of a slow interplanetary coronal mass ejection on Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3489-3502.	2.4	14
86	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015, 350, aad1815.	12.6	407
87	The variable extension of Saturn's electron radiation belts. <i>Planetary and Space Science</i> , 2014, 104, 3-17.	1.7	27
88	The lens feature on the inner saturnian satellites. <i>Icarus</i> , 2014, 234, 155-161.	2.5	24
89	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.	2.4	4
90	Processes forming and sustaining Saturn's proton radiation belts. <i>Icarus</i> , 2013, 222, 323-341.	2.5	45

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91	Energetic particle measurements in the vicinity of Dione during the three Cassini encounters 2005–2011. <i>Icarus</i> , 2013, 226, 617-628.	2.5	16
92	HELIOSPHERIC ENERGETIC NEUTRAL HYDROGEN MEASURED WITH ASPERA-3 AND ASPERA-4. <i>Astrophysical Journal</i> , 2013, 775, 24.	4.5	8
93	Mimas' far-UV albedo: Spatial variations. <i>Icarus</i> , 2012, 220, 922-931.	2.5	17
94	Saturn's inner magnetospheric convection pattern: Further evidence. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	60
95	Energetic electron observations of Rhea's magnetospheric interaction. <i>Icarus</i> , 2012, 221, 116-134.	2.5	24
96	The Cassini Enceladus encounters 2005–2010 in the view of energetic electron measurements. <i>Icarus</i> , 2012, 218, 433-447.	2.5	14
97	Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012, 61, 60-65.	1.7	31
98	Long- and short-term variability of Saturn's ionic radiation belts. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	40
99	Energetic particle phase space densities at Saturn: Cassini observations and interpretations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	51
100	Energetic electron microsignatures as tracers of radial flows and dynamics in Saturn's innermost magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
101	Transport of energetic electrons into Saturn's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
102	Investigation of dephasing rates in an interacting Rydberg gas. <i>New Journal of Physics</i> , 2009, 11, 055014.	2.9	51
103	Plasma, Neutral Atmosphere, and Energetic Radiation Environments of Planetary Rings. , 0, , 363-398.		3
104	Energetic charged particle fluxes relevant to Ganymede's polar region. <i>Geophysical Research Letters</i> , 0, , .	4.0	6
105	Classification of Cassini's Orbit Regions as Magnetosphere, Magnetosheath, and Solar Wind via Machine Learning. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	3