

Peter Kollmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A source of very energetic oxygen located in Jupiter's inner radiation belts.. <i>Science Advances</i> , 2022 , 8, eabm4234	14.3	1
99	Spectra of Saturn's proton belts revealed. <i>Icarus</i> , 2022 , 376, 114795	3.8	2
98	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
97	Ice Giants – The Return of the Rings 2021 , 53,		2
96	Magnetospheric Studies: A requirement for addressing interdisciplinary mysteries in the Ice Giant systems 2021 , 53,		1
95	The Radiation Belts of Jupiter and Saturn. <i>Geophysical Monograph Series</i> , 2021 , 499-514	1.1	3
94	Jupiter's Ion Radiation Belts Inward of Europa's Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028925	2.6	4
93	Energy Spectra Near Ganymede From Juno Data. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093021	4.9	3
92	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
91	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	
90	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
89	Charge Exchange Ion Losses in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029310	2.6	1
88	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
87	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
86	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
85	Radiation Belt Radial Diffusion at Earth and Beyond. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	21
84	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

83	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
82	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
81	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
80	Energetic Proton Acceleration Associated With Io's Footprint Tail. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090839	4.9	6
79	Energetic Neutral Atoms From Jupiter's Polar Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028697	2.6	1
78	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
77	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
76	Inflow Speed Analysis of Interchange Injections in Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028299	2.6	3
75	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	10
74	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
73	Jovian Cosmic-Ray Protons in the Heliosphere: Constraints by Cassini Observations. <i>Astrophysical Journal</i> , 2019 , 871, 223	4.7	6
72	Initial results from the New Horizons exploration of 2014 MU, a small Kuiper Belt object. <i>Science</i> , 2019 , 364,	33.3	80
71	Galactic Cosmic Rays Access to the Magnetosphere of Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 166-177	2.6	7
70	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. <i>Science</i> , 2019 , 364,	33.3	15
69	Jovian Injections Observed at High Latitude. <i>Geophysical Research Letters</i> , 2019 , 46, 9397-9404	4.9	12
68	Suprathermal Ions in the Outer Heliosphere. <i>Astrophysical Journal</i> , 2019 , 876, 46	4.7	8
67	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
66	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

65	Spectral Signatures of Adiabatic Electron Acceleration at Saturn Through Corotation Drift Cancellation. <i>Geophysical Research Letters</i> , 2019 , 46, 10240-10249	4.9	8
64	Io's Effect on Energetic Charged Particles as Seen in Juno Data. <i>Geophysical Research Letters</i> , 2019 , 46, 13615-13620	4.9	9
63	Pluto's Interaction With Energetic Heliospheric Ions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7413-7424	2.6	1
62	Sources, Sinks, and Transport of Energetic Electrons Near Saturn's Main Rings. <i>Geophysical Research Letters</i> , 2019 , 46, 3590-3598	4.9	11
61	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1989	2.6	21
60	Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. <i>Geophysical Research Letters</i> , 2018 , 45, 1277-1285	4.9	35
59	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
58	Magnetospheric considerations for solar system ice state. <i>Icarus</i> , 2018 , 302, 560-564	3.8	14
57	Energetic electron measurements near Enceladus by Cassini during 2005-2015. <i>Icarus</i> , 2018 , 306, 256-274	3.8	4
56	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
55	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
54	Energetic Electron Pitch Angle Distributions During the Cassini Final Orbits. <i>Geophysical Research Letters</i> , 2018 , 45, 2911-2917	4.9	3
53	Rotationally driven magnetic reconnection in Saturn's dayside. <i>Nature Astronomy</i> , 2018 , 2, 640-645	12.1	24
52	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
51	Heliospheric Conditions at Saturn During Cassini's Ring-Grazing and Proximal Orbits. <i>Geophysical Research Letters</i> , 2018 , 45, 10812-10818	4.9	12
50	Electron Acceleration to MeV Energies at Jupiter and Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9110-9129	2.6	24
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	Global Configuration and Seasonal Variations of Saturn's Magnetosphere 2018 , 126-165		2

47	A radiation belt of energetic protons located between Saturn and its rings. <i>Science</i> , 2018 , 362,	33.3	19
46	Dust grains fall from Saturn's D-ring into its equatorial upper atmosphere. <i>Science</i> , 2018 , 362,	33.3	27
45	Saturn's Innermost Radiation Belt Throughout and Inward of the D-Ring. <i>Geophysical Research Letters</i> , 2018 , 45, 10,912	4.9	7
44	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
43	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
42	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
41	A heavy ion and proton radiation belt inside of Jupiter's rings. <i>Geophysical Research Letters</i> , 2017 , 44, 5259-5268	4.9	20
40	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
39	Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 4419-4425	4.9	18
38	Radiation near Jupiter detected by Juno/JEDI during PJ1 and PJ3. <i>Geophysical Research Letters</i> , 2017 , 44, 4426-4431	4.9	8
37	The evolution of Saturn's radiation belts modulated by changes in radial diffusion. <i>Nature Astronomy</i> , 2017 , 1, 872-877	12.1	16
36	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
35	Discrete and broadband electron acceleration in Jupiter's powerful aurora. <i>Nature</i> , 2017 , 549, 66-69	50.4	57
34	The puzzling detection of x-rays from Pluto by Chandra. <i>Icarus</i> , 2017 , 287, 103-109	3.8	16
33	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
32	The formation of Charon's red poles from seasonally cold-trapped volatiles. <i>Nature</i> , 2016 , 539, 65-68	50.4	38
31	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
30	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

29	Evidence for dust-driven, radial plasma transport in Saturn's inner radiation belts. <i>Icarus</i> , 2016 , 274, 272-283	3.8	10
28	The atmosphere of Pluto as observed by New Horizons. <i>Science</i> , 2016 , 351, aad8866	33.3	164
27	Pluto's interaction with its space environment: Solar wind, energetic particles, and dust. <i>Science</i> , 2016 , 351, aad9045	33.3	52
26	The geology of Pluto and Charon through the eyes of New Horizons. <i>Science</i> , 2016 , 351, 1284-93	33.3	180
25	Effects of radial motion on interchange injections at Saturn. <i>Icarus</i> , 2016 , 264, 342-351	3.8	29
24	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
23	Properties of planetward ion flows in Venus's magnetotail. <i>Icarus</i> , 2016 , 274, 73-82	3.8	18
22	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
21	The Pluto system: Initial results from its exploration by New Horizons. <i>Science</i> , 2015 , 350, aad1815	33.3	295
20	MeV proton flux predictions near Saturn's D ring. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8586-8602	2.6	9
19	The lens feature on the inner saturnian satellites. <i>Icarus</i> , 2014 , 234, 155-161	3.8	20
18	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
17	The variable extension of Saturn's electron radiation belts. <i>Planetary and Space Science</i> , 2014 , 104, 3-17	2	25
16	Processes forming and sustaining Saturn's proton radiation belts. <i>Icarus</i> , 2013 , 222, 323-341	3.8	41
15	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
14	HELIOSPHERIC ENERGETIC NEUTRAL HYDROGEN MEASURED WITH ASPERA-3 AND ASPERA-4. <i>Astrophysical Journal</i> , 2013 , 775, 24	4.7	7
13	Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012 , 61, 60-65	2	30
12	Mimas's far-UV albedo: Spatial variations. <i>Icarus</i> , 2012 , 220, 922-931	3.8	17

11	Saturn's inner magnetospheric convection pattern: Further evidence. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		56
10	Energetic electron observations of Rhea's magnetospheric interaction. <i>Icarus</i> , 2012 , 221, 116-134	3.8	20
9	The Cassini Enceladus encounters 2005-2010 in the view of energetic electron measurements. <i>Icarus</i> , 2012 , 218, 433-447	3.8	13
8	Long- and short-term variability of Saturn's ionic radiation belts. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		37
7	Energetic particle phase space densities at Saturn: Cassini observations and interpretations. <i>Journal of Geophysical Research</i> , 2011 , 116,		46
6	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
5	Transport of energetic electrons into Saturn's inner magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		34
4	Investigation of dephasing rates in an interacting Rydberg gas. <i>New Journal of Physics</i> , 2009 , 11, 055014	2.9	43
3	Plasma, Neutral Atmosphere, and Energetic Radiation Environments of Planetary Rings		363-398 2
2	Galileo/EPD user guide		2
1	The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 1	1.3	0