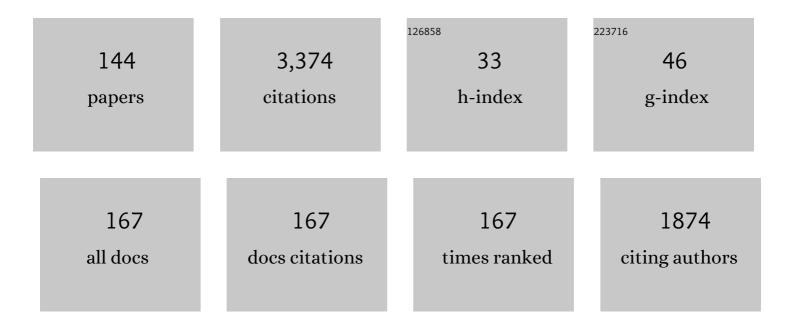
Elias Roussos

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cassini Finds an Oxygen–Carbon Dioxide Atmosphere at Saturn's Icy Moon Rhea. Science, 2010, 330, 1813-1815.	6.0	116
2	Plasma Morphology at Mars. Aspera-3 Observations. Space Science Reviews, 2007, 126, 209-238.	3.7	102
3	Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	0.8	87
4	Plasma Moments in the Environment of Mars. Space Science Reviews, 2007, 126, 165-207.	3.7	77
5	Location of the bow shock and ion composition boundaries at Venus—initial determinations from Venus Express ASPERA-4. Planetary and Space Science, 2008, 56, 780-784.	0.9	64
6	Sources and losses of energetic protons in Saturn's magnetosphere. Icarus, 2008, 197, 519-525.	1.1	64
7	Electron microdiffusion in the Saturnian radiation belts: Cassini MIMI/LEMMS observations of energetic electron absorption by the icy moons. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	63
8	Saturn's inner magnetospheric convection pattern: Further evidence. Journal of Geophysical Research, 2012, 117, .	3.3	60
9	The Source of Saturn's G Ring. Science, 2007, 317, 653-656.	6.0	59
10	Fundamental Plasma Processes in Saturn's Magnetosphere. , 2009, , 281-331.		59
11	Enceladus' Varying Imprint on the Magnetosphere of Saturn. Science, 2006, 311, 1412-1415.	6.0	57
12	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	0.9	56
13	Discovery of a transient radiation belt at Saturn. Geophysical Research Letters, 2008, 35, .	1.5	54
14	The Dust Halo of Saturn's Largest Icy Moon, Rhea. Science, 2008, 319, 1380-1384.	6.0	53
15	Energetic particle phase space densities at Saturn: Cassini observations and interpretations. Journal of Geophysical Research, 2011, 116, .	3.3	51
16	Plasma and fields in the wake of Rhea: 3-D hybrid simulation and comparison with Cassini data. Annales Geophysicae, 2008, 26, 619-637.	0.6	50
17	Electron Acceleration to MeV Energies at Jupiter and Saturn. Journal of Geophysical Research: Space Physics, 2018, 123, 9110-9129.	0.8	46
18	Processes forming and sustaining Saturn's proton radiation belts. Icarus, 2013, 222, 323-341.	1.1	45

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19	Europa's nearâ€surface radiation environment. Geophysical Research Letters, 2007, 34, .	1.5	44
20	A noon-to-midnight electric field and nightside dynamics in Saturn's inner magnetosphere, using microsignature observations. Icarus, 2012, 220, 503-513.	1.1	44
21	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	1.6	44
22	Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004–July) Tj ETQq0 0	0 rgBT /0\	verlock 10 Tf

23	Anti-planetward auroral electron beams at Saturn. Nature, 2006, 439, 699-702.	13.7	40
24	Long- and short-term variability of Saturn's ionic radiation belts. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	40
25	Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. Space Science Reviews, 2011, 164, 1-83.	3.7	40
26	lce Giant Systems: The scientific potential of orbital missions to Uranus and Neptune. Planetary and Space Science, 2020, 191, 105030.	0.9	39
27	Plasma environment of Venus: Comparison of Venus Express ASPERAâ€4 measurements with 3â€D hybrid simulations. Journal of Geophysical Research, 2009, 114, .	3.3	37
28	Quasi-periodic injections of relativistic electrons in Saturn's outer magnetosphere. Icarus, 2016, 263, 101-116.	1.1	36
29	Plasma intrusion above Mars crustal fields—Mars Express ASPERA-3 observations. Icarus, 2006, 182, 406-412.	1.1	35
30	Transient auroral features at Saturn: Signatures of energetic particle injections in the magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	35
31	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. Journal of Geophysical Research: Space Physics, 2018, 123, 1989-1999.	0.8	35
32	Transport of energetic electrons into Saturn's inner magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	34
33	Cusp observation at Saturn's high″atitude magnetosphere by the Cassini spacecraft. Geophysical Research Letters, 2014, 41, 1382-1388.	1.5	34
34	Energetic Ion Moments and Polytropic Index in Saturn's Magnetosphere using Cassini/MIMI Measurements: A Simple Model Based on <i>ΰ</i> â€Distribution Functions. Journal of Geophysical Research: Space Physics, 2018, 123, 8066-8086.	0.8	34
35	Effects of radial motion on interchange injections at Saturn. Icarus, 2016, 264, 342-351.	1.1	33
36	Formation of Saturn's ring spokes by lightning-induced electron beams. Geophysical Research Letters, 2006, 33, .	1.5	32

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37	Azimuthal plasma flow in the Kronian magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	32
38	Signatures of magnetospheric injections in Saturn's aurora. Journal of Geophysical Research: Space Physics, 2013, 118, 1922-1933.	0.8	32
39	Spatial and temporal dependence of the convective electric field in Saturn's inner magnetosphere. Icarus, 2014, 229, 57-70.	1.1	32
40	Energetic charged particle weathering of Saturn's inner satellites. Planetary and Space Science, 2012, 61, 60-65.	0.9	31
41	Solar Energetic Particles (SEP) and Galactic Cosmic Rays (GCR) as tracers of solar wind conditions near Saturn: Event lists and applications. Icarus, 2018, 300, 47-71.	1.1	31
42	Analysis of Cassini magnetic field observations over the poles of Rhea. Journal of Geophysical Research, 2012, 117, .	3.3	30
43	Comparison of plasma data from ASPERA-3/Mars-Express with a 3-D hybrid simulation. Annales Geophysicae, 2007, 25, 1851-1864.	0.6	29
44	Low energy electron microsignatures at the orbit of Tethys: Cassini MIMI/LEMMS observations. Geophysical Research Letters, 2005, 32, .	1.5	28
45	Asymmetries in Saturn's radiation belts. Journal of Geophysical Research, 2010, 115, .	3.3	28
46	Access of solar wind electrons into the Martian magnetosphere. Annales Geophysicae, 2008, 26, 3511-3524.	0.6	28
47	Evidence of Enceladus and Tethys microsignatures. Geophysical Research Letters, 2005, 32, .	1.5	27
48	Extreme densities in Titan's ionosphere during the T85 magnetosheath encounter. Geophysical Research Letters, 2013, 40, 2879-2883.	1.5	27
49	The variable extension of Saturn× ³ s electron radiation belts. Planetary and Space Science, 2014, 104, 3-17.	0.9	27
50	The vertical thickness of Jupiter's Europa gas torus from charged particle measurements. Geophysical Research Letters, 2016, 43, 9425-9433.	1.5	27
51	Statistical analysis and multi-instrument overview of the quasi-periodic 1-hour pulsations in Saturn's outer magnetosphere. Icarus, 2016, 271, 1-18.	1.1	27
52	A radiation belt of energetic protons located between Saturn and its rings. Science, 2018, 362, .	6.0	27
53	Drift-resonant, relativistic electron acceleration at the outer planets: Insights from the response of Saturn's radiation belts to magnetospheric storms. Icarus, 2018, 305, 160-173.	1.1	26
54	Evolution of electron pitch angle distributions across Saturn's middle magnetospheric region from MIMI/LEMMS. Planetary and Space Science, 2014, 104, 18-28.	0.9	25

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55	Energetic electron observations of Rhea's magnetospheric interaction. Icarus, 2012, 221, 116-134.	1.1	24
56	The lens feature on the inner saturnian satellites. Icarus, 2014, 234, 155-161.	1.1	24
57	Surface charging and electrostatic dust acceleration at the nucleus of comet 67P during periods of low activity. Planetary and Space Science, 2015, 119, 24-35.	0.9	24
58	Access of energetic particles to Titan׳s exobase: A study of Cassini׳s T9 flyby. Planetary and Space Science, 2016, 130, 40-53.	0.9	24
59	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. Science, 2019, 364, .	6.0	24
60	Combined â^1⁄410 eV to â^1⁄4344 MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. Astrophysical Journal Letters, 2020, 905, L24.	3.0	24
61	Ion composition in interchange injection events in Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 9761-9772.	0.8	23
62	Magnetospheric considerations for solar system ice state. Icarus, 2018, 302, 560-564.	1.1	23
63	Energetic electron signatures of Saturn's smaller moons: Evidence of an arc of material at Methone. Icarus, 2008, 193, 455-464.	1.1	22
64	The interaction between Saturn's moons and their plasma environments. Physics Reports, 2015, 602, 1-65.	10.3	21
65	Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028052.	0.8	21
66	An Active Plume Eruption on Europa During Galileo Flyby E26 as Indicated by Energetic Proton Depletions. Geophysical Research Letters, 2020, 47, e2020GL087806.	1.5	21
67	Investigation of the Influence of Magnetic Anomalies on Ion Distributions at Mars. Space Science Reviews, 2007, 126, 355-372.	3.7	20
68	Asymmetry of plasma fluxes at Mars. ASPERA-3 observations and hybrid simulations. Planetary and Space Science, 2008, 56, 832-835.	0.9	20
69	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.	1.6	20
70	The Formation of Saturn's and Jupiter's Electron Radiation Belts by Magnetospheric Electric Fields. Astrophysical Journal Letters, 2020, 905, L10.	3.0	20
71	The evolution of Saturn's radiation belts modulated by changes in radial diffusion. Nature Astronomy, 2017, 1, 872-877.	4.2	18
72	Surface charging of Saturn's plasmaâ€absorbing moons. Journal of Geophysical Research, 2010, 115, .	3.3	17

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73	Mimas' far-UV albedo: Spatial variations. Icarus, 2012, 220, 922-931.	1.1	17
74	Numerical simulation of energetic electron microsignature drifts at Saturn: Methods and applications. Icarus, 2013, 226, 1595-1611.	1.1	17
75	Cassini observations of Saturn's southern polar cusp. Journal of Geophysical Research: Space Physics, 2016, 121, 3006-3030.	0.8	17
76	Energetic particle measurements in the vicinity of Dione during the three Cassini encounters 2005–2011. Icarus, 2013, 226, 617-628.	1.1	16
77	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. Space Science Reviews, 2020, 216, 1.	3.7	16
78	Magnetic Structure and Propagation of Two Interacting CMEs From the Sun to Saturn. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	16
79	Modeling of the energetic ion observations in the vicinity of Rhea and Dione. Icarus, 2015, 258, 402-417.	1.1	15
80	Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. Astrophysical Journal Letters, 2018, 868, L23.	3.0	15
81	The Cassini Enceladus encounters 2005–2010 in the view of energetic electron measurements. Icarus, 2012, 218, 433-447.	1.1	14
82	Heliospheric Conditions at Saturn During Cassini's Ringâ€Grazing and Proximal Orbits. Geophysical Research Letters, 2018, 45, 10812-10818.	1.5	14
83	Recurrent Magnetic Dipolarization at Saturn: Revealed by Cassini. Journal of Geophysical Research: Space Physics, 2018, 123, 8502-8517.	0.8	14
84	Dipolarization Fronts With Associated Energized Electrons in Saturn's Magnetotail. Journal of Geophysical Research: Space Physics, 2018, 123, 2714-2735.	0.8	14
85	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
86	Pulsations of the polar cusp aurora at Saturn. Journal of Geophysical Research: Space Physics, 2016, 121, 11,952.	0.8	13
87	Sources, Sinks, and Transport of Energetic Electrons Near Saturn's Main Rings. Geophysical Research Letters, 2019, 46, 3590-3598.	1.5	13
88	Detection of a strongly negative surface potential at Saturn's moon Hyperion. Geophysical Research Letters, 2014, 41, 7011-7018.	1.5	12
89	MeV proton flux predictions near Saturn's D ring. Journal of Geophysical Research: Space Physics, 2015, 120, 8586-8602.	0.8	12
90	Evidence for dust-driven, radial plasma transport in Saturn's inner radiation belts. Icarus, 2016, 274, 272-283.	1.1	12

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91	Spectral Signatures of Adiabatic Electron Acceleration at Saturn Through Corotation Drift Cancelation. Geophysical Research Letters, 2019, 46, 10240-10249.	1.5	12
92	Io's Effect on Energetic Charged Particles as Seen in Juno Data. Geophysical Research Letters, 2019, 46, 13615-13620.	1.5	12
93	Survey of pickup ion signatures in the vicinity of Titan using CAPS/IMS. Journal of Geophysical Research: Space Physics, 2016, 121, 8317-8328.	0.8	11
94	Suprathermal electron penetration into the inner magnetosphere of Saturn. Journal of Geophysical Research: Space Physics, 2016, 121, 5436-5448.	0.8	11
95	Evolution of the Auroral Signatures of Jupiter's Magnetospheric Injections. Journal of Geophysical Research: Space Physics, 2018, 123, 8489-8501.	0.8	11
96	Local-time averaged maps of H ₃ ⁺ emission, temperature and ion winds. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180405.	1.6	11
97	The in-situ exploration of Jupiter's radiation belts. Experimental Astronomy, 2022, 54, 745-789.	1.6	11
98	A source of very energetic oxygen located in Jupiter's inner radiation belts. Science Advances, 2022, 8, eabm4234.	4.7	11
99	On the Energization of Pickup Ions Downstream of the Heliospheric Termination Shock by Comparing 0.52–55 keV Observed Energetic Neutral Atom Spectra to Ones Inferred from Proton Hybrid Simulations. Astrophysical Journal Letters, 2022, 931, L21.	3.0	11
100	Energetic electron microsignatures as tracers of radial flows and dynamics in Saturn's innermost magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	10
101	Mechanisms of Saturn's Nearâ€Noon Transient Aurora: In Situ Evidence From Cassini Measurements. Geophysical Research Letters, 2017, 44, 11,217.	1.5	10
102	Auroral Storm and Polar Arcs at Saturn—Final Cassini/UVIS Auroral Observations. Geophysical Research Letters, 2018, 45, 6832-6842.	1.5	10
103	Auroral Beads at Saturn and the Driving Mechanism: Cassini Proximal Orbits. Astrophysical Journal Letters, 2019, 885, L16.	3.0	10
104	Sustaining Saturn's Electron Radiation Belts Through Episodic, Global‧cale Relativistic Electron Flux Enhancements. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027621.	0.8	10
105	Jupiter's Ion Radiation Belts Inward of Europa's Orbit. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028925.	0.8	10
106	Saturn's Inner Magnetospheric Convection in the View of Zebra Stripe Patterns in Energetic Electron Spectra. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029600.	0.8	10
107	Variation in Cosmic-Ray Intensity Lags Sunspot Number: Implications of Late Opening of Solar Magnetic Field. Astrophysical Journal, 2022, 928, 157.	1.6	10
108	Auroral spirals at Saturn. Journal of Geophysical Research: Space Physics, 2015, 120, 8633-8643.	0.8	9

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109	Saturn's Innermost Radiation Belt Throughout and Inward of the Dâ€Ring. Geophysical Research Letters, 2018, 45, 10,912.	1.5	9
110	Galactic Cosmic Rays Access to the Magnetosphere of Saturn. Journal of Geophysical Research: Space Physics, 2019, 124, 166-177.	0.8	9
111	Magnetospheric Interactions of Saturn's Moon Dione (2005–2015). Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027688.	0.8	9
112	The role of plasma slowdown in the generation of Rhea's Alfvén wings. Journal of Geophysical Research: Space Physics, 2017, 122, 1778-1788.	0.8	8
113	Statistical Study of the Energetic Proton Environment at Titan's Orbit From the Cassini Spacecraft. Journal of Geophysical Research: Space Physics, 2018, 123, 4820-4834.	0.8	8
114	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.	1.5	8
115	Jovian Cosmic-Ray Protons in the Heliosphere: Constraints by Cassini Observations. Astrophysical Journal, 2019, 871, 223.	1.6	8
116	Photometric Analyses of Saturn's Small Moons: Aegaeon, Methone, and Pallene Are Dark; Helene and Calypso Are Bright. Astronomical Journal, 2020, 159, 129.	1.9	8
117	Acceleration of Ions in Jovian Plasmoids: Does Turbulence Play a Role?. Journal of Geophysical Research: Space Physics, 2019, 124, 5056-5069.	0.8	7
118	Inflow Speed Analysis of Interchange Injections in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028299.	0.8	7
119	Cassini Observation of Relativistic Electron Butterfly Distributions in Saturn's Inner Radiation Belts: Evidence for Acceleration by Local Processes. Geophysical Research Letters, 2021, 48, e2021GL092690.	1.5	7
120	Callisto's Atmosphere and Its Space Environment: Prospects for the Particle Environment Package on Board JUICE. Earth and Space Science, 2022, 9, .	1.1	6
121	Correction to "Plasma environment of Venus: Comparison of Venus Express ASPERAâ€4 measurements with 3â€D hybrid simulations― Journal of Geophysical Research, 2009, 114, .	3.3	5
122	Energetic Electron Periodicities During the Cassini Grand Finale. Journal of Geophysical Research: Space Physics, 2017, 122, 12,229-12,235.	0.8	5
123	Energetic Electron Pitch Angle Distributions During the Cassini Final Orbits. Geophysical Research Letters, 2018, 45, 2911-2917.	1.5	5
124	Zebra Stripe Patterns in Energetic Ion Spectra at Saturn. Geophysical Research Letters, 2022, 49, .	1.5	5
125	Energetic electron measurements near Enceladus by Cassini during 2005–2015. Icarus, 2018, 306, 256-274.	1.1	4
126	Mapping Saturn's Nightside Plasma Sheet Using Cassini's Proximal Orbits. Geophysical Research Letters, 2018, 45, 6798-6804.	1.5	4

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127	Long-standing Small-scale Reconnection Processes at Saturn Revealed by Cassini. Astrophysical Journal Letters, 2019, 884, L14.	3.0	4
128	Ice giant system exploration within ESA's Voyage 2050. Experimental Astronomy, 2022, 54, 1015-1025.	1.6	4
129	Large-scale episodic enhancements of relativistic electron intensities in Jupiter's radiation belt. Earth and Planetary Physics, 2021, 5, 1-13.	0.4	4
130	Plasma Morphology at Mars. ASPERA-3 Observations. , 2007, , 209-238.		4
131	Spectra of Saturn's proton belts revealed. Icarus, 2022, 376, 114795.	1.1	4
132	Plasma, Neutral Atmosphere, and Energetic Radiation Environments of Planetary Rings. , 0, , 363-398.		3
133	Saturn's Nightside Ring Current During Cassini's Grand Finale. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028605.	0.8	3
134	Reply to Comment on "An Active Plume Eruption on Europa During Galileo Flyby E26 as Indicated by Energetic Proton Depletions― Geophysical Research Letters, 2021, 48, e2021GL095240.	1.5	3
135	Energetic electron asymmetries at Mars: ASPERA-3 observations. Planetary and Space Science, 2008, 56, 836-839.	0.9	2
136	Open science questions and missing measurements in the radiation belts of Jupiter. , 2021, 53, .		2
137	Magnetospheric Electron Flows In The Martian Ionosphere. Detection And Implications. AIP Conference Proceedings, 2006, , .	0.3	1
138	Corotation Plasma Environment Model: An Empirical Probability Model of the Jovian Magnetosphere. IEEE Transactions on Plasma Science, 2018, 46, 2126-2145.	0.6	1
139	Dawnâ€Dusk Asymmetry in Energetic (>20ÂkeV) Particles Adjacent to Saturn's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028264.	0.8	1
140	Enceladus and Titan: emerging worlds of the Solar System. Experimental Astronomy, 0, , 1.	1.6	1
141	Mars: Determination of the most appropriate electron energy for the bow shock identification, using MGS data. AIP Conference Proceedings, 2006, , .	0.3	Ο
142	Investigation of the Influence of Magnetic Anomalies on Ion Distributions at Mars. , 2007, , 355-372.		0
143	Missing link found?. Nature Astronomy, 2018, 2, 621-622.	4.2	0
144	The response of Saturn's dawn fieldâ€aligned currents to magnetospheric and ring current conditions during Cassini's proximal orbits: Evidence for a Region 2 response at Saturn. Journal of Geophysical Research: Space Physics, 0, , .	0.8	0