

Krishan K Khurana

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162
papers

8,324
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86
g-index

168
ext. papers

8,930
ext. citations

9.9
avg, IF

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L-index

#	Paper	IF	Citations
162	A new functional form to study the solar wind control of the magnetopause size and shape. <i>Journal of Geophysical Research</i> , 1997 , 102, 9497-9511		506
161	Induced magnetic fields as evidence for subsurface oceans in Europa and Callisto. <i>Nature</i> , 1998 , 395, 777-80	47.5	444
160	Galileo magnetometer measurements: a stronger case for a subsurface ocean at Europa. <i>Science</i> , 2000 , 289, 1340-3	32.2	444
159	Discovery of Ganymede's magnetic field by the Galileo spacecraft. <i>Nature</i> , 1996 , 384, 537-541	47.5	300
158	Identification of a dynamic atmosphere at Enceladus with the Cassini magnetometer. <i>Science</i> , 2006 , 311, 1406-9	32.2	294
157	Cassini magnetometer observations during Saturn orbit insertion. <i>Science</i> , 2005 , 307, 1266-70	32.2	195
156	Probabilistic models of the Jovian magnetopause and bow shock locations. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 17-1		163
155	Io's Interaction with the Plasma Torus: Galileo Magnetometer Report. <i>Science</i> , 1996 , 274, 396-398	32.2	151
154	Euler potential models of Jupiter's magnetospheric field. <i>Journal of Geophysical Research</i> , 1997 , 102, 11295-11306		148
153	Europa and Callisto: Induced or intrinsic fields in a periodically varying plasma environment. <i>Journal of Geophysical Research</i> , 1999 , 104, 4609-4625		146
152	Warping of Saturn's magnetospheric and magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		129
151	Titan's magnetic field signature during the first Cassini encounter. <i>Science</i> , 2005 , 308, 992-5	32.2	127
150	Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. <i>Journal of Geophysical Research</i> , 2006 , 111,		125
149	Magnetic Field Signatures Near Galileo's Closest Approach to Gaspra. <i>Science</i> , 1993 , 261, 331-4	32.2	101
148	Ganymede's magnetosphere: Magnetometer overview. <i>Journal of Geophysical Research</i> , 1998 , 103, 19963-19973		98
147	The magnetic field and magnetosphere of Ganymede. <i>Geophysical Research Letters</i> , 1997 , 24, 2155-2158	4.8	99
146	Evidence of a plume on Europa from Galileo magnetic and plasma wave signatures. <i>Nature Astronomy</i> , 2018 , 2, 459-464	12	101

145	Intermittent short-duration magnetic field anomalies in the Io torus: Evidence for plasma interchange?. <i>Geophysical Research Letters</i> , 1997 , 24, 2127-2130	4.8	97
144	Plasma sheet turbulence observed by Cluster II. <i>Journal of Geophysical Research</i> , 2005 , 110,		96
143	Influence of solar wind on Jupiter's magnetosphere deduced from currents in the equatorial plane. <i>Journal of Geophysical Research</i> , 2001 , 106, 25999-26016		96
142	Localized reconnection in the near jovian magnetotail. <i>Science</i> , 1998 , 280, 1061-4	32.2	94
141	Evidence of a global magma ocean in Io's interior. <i>Science</i> , 2011 , 332, 1186-9	32.2	90
140	A Magnetic Signature at Io: Initial Report from the Galileo Magnetometer. <i>Science</i> , 1996 , 273, 337-40	32.2	92
139	Mass release at Jupiter: Substorm-like processes in the Jovian magnetotail. <i>Journal of Geophysical Research</i> , 2005 , 110,		87
138	Storm-like dynamics of Jupiter's inner and middle magnetosphere. <i>Journal of Geophysical Research</i> , 1999 , 104, 22759-22778		87
137	Improved mapping of Jupiter's auroral features to magnetospheric sources. <i>Journal of Geophysical Research</i> , 2011 , 116,		85
136	Reconnection and flows in the Jovian magnetotail as inferred from magnetometer observations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		84
135	Saturn's magnetodisc current sheet. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		85
134	Periodic motion of Saturn's nightside plasma sheet. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		82
133	Large-scale dynamics of Saturn's magnetopause: Observations by Cassini. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		81
132	Saturn's magnetic field revealed by the Cassini Grand Finale. <i>Science</i> , 2018 , 362,	32.2	61
131	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. <i>Journal of Geophysical Research</i> , 2006 , 111,		77
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128	Location and shape of the Jovian magnetopause and bow shock. <i>Journal of Geophysical Research</i> , 1998 , 103, 20075-20082		73

127	Mirror mode structures in the Jovian magnetosheath. <i>Journal of Geophysical Research</i> , 2006 , 111,		71
126	The electron density of Saturn's magnetosphere. <i>Annales Geophysicae</i> , 2009 , 27, 2971-2991	1.9	70
125	Sources of rotational signals in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		69
124	Properties of Ganymede's magnetosphere inferred from improved three-dimensional MHD simulations. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		67
123	Cluster electric current density measurements within a magnetic flux rope in the plasma sheet. <i>Geophysical Research Letters</i> , 2003 , 30,	4.8	66
122	MHD simulations of Io's interaction with the plasma torus. <i>Journal of Geophysical Research</i> , 1998 , 103, 19867-19877		63
121	Three-dimensional MHD simulations of Ganymede's magnetosphere. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		62
120	Mass loading of Saturn's magnetosphere near Enceladus. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		63
119	Constraints from Galileo observations on the origin of jovian dust streams. <i>Nature</i> , 1996 , 381, 395-398	47.5	61
118	The origin of Ganymede's polar caps. <i>Icarus</i> , 2007 , 191, 193-202	3.7	56
117	Ultralow frequency MHD waves in Jupiter's middle magnetosphere. <i>Journal of Geophysical Research</i> , 1989 , 94, 5241		55
116	Mass of Saturn's magnetodisc: Cassini observations. <i>Geophysical Research Letters</i> , 2007 , 34,	4.8	54
115	Magnetic portraits of Tethys and Rhea. <i>Icarus</i> , 2008 , 193, 465-474	3.7	50
114	The dust halo of Saturn's largest icy moon, Rhea. <i>Science</i> , 2008 , 319, 1380-4	32.2	49
113	A generalized hinged-magnetodisc model of Jupiter's nightside current sheet. <i>Journal of Geophysical Research</i> , 1992 , 97, 6269		48
112	Structure and statistical properties of plasmoids in Jupiter's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 821-843	2.5	49
111	Observations of thermal plasmas in Jupiter's magnetotail. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 1-1		48
110	Plasma and fields in the wake of Rhea: 3-D hybrid simulation and comparison with Cassini data. <i>Annales Geophysicae</i> , 2008 , 26, 619-637	1.9	46

109	Ion cyclotron waves observed at Galileo's Io encounter: Implications for neutral cloud distribution and plasma composition. <i>Geophysical Research Letters</i> , 1997 , 24, 2139-2142	4.8	45
108	Inference of the angular velocity of plasma in the Jovian magnetosphere from the sweepback of magnetic field. <i>Journal of Geophysical Research</i> , 1993 , 98, 67-79		45
107	Three-dimensional lunar wake reconstructed from ARTEMIS data. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5220-5243	2.5	44
106	Absence of an internal magnetic field at Callisto. <i>Nature</i> , 1997 , 387, 262-264	47.5	45
105	First Results from ARTEMIS, a New Two-Spacecraft Lunar Mission: Counter-Streaming Plasma Populations in the Lunar Wake. <i>Space Science Reviews</i> , 2011 , 165, 93-107	7.4	41
104	Dynamics of the Saturnian inner magnetosphere: First inferences from the Cassini magnetometers about small-scale plasma transport in the magnetosphere. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.8	41
103	Mirror-mode structures at the Galileo-Io flyby: Instability criterion and dispersion analysis. <i>Journal of Geophysical Research</i> , 1999 , 104, 17479-17489		41
102	Wave activity in Europa's wake: Implications for ion pickup. <i>Journal of Geophysical Research</i> , 2001 , 106, 26033-26048		41
101	ARTEMIS Science Objectives. <i>Space Science Reviews</i> , 2011 , 165, 59-91	7.4	40
100	Thermal electron periodicities at 20RS in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2008 , 35,	4.8	40
99	Magnetospheric convection in the presence of interplanetary magnetic field By : A conceptual model and simulations. <i>Journal of Geophysical Research</i> , 1996 , 101, 4907-4916		39
98	Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. <i>Space Science Reviews</i> , 2011 , 164, 1-83	7.4	39
97	Saturn's Magnetospheric Configuration 2009 , 203-255		38
96	Plasma sheet dynamics in the Jovian magnetotail: Signatures For substorm-like processes ?. <i>Geophysical Research Letters</i> , 1999 , 26, 2137-2140	4.8	37
95	Development and validation of inversion technique for substorm current wedge using ground magnetic field data. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1909-1924	2.5	37
94	Anti-planetward auroral electron beams at Saturn. <i>Nature</i> , 2006 , 439, 699-702	47.5	37
93	A plasmopause-like density boundary at high latitudes in Saturn's magnetosphere. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.8	36
92	Signatures of field-aligned currents in Saturn's nightside magnetosphere. <i>Geophysical Research Letters</i> , 2009 , 36,	4.8	36

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90	Saturn's periodic magnetic field perturbations caused by a rotating partial ring current. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.8	35
89	Europa's near-surface radiation environment. <i>Geophysical Research Letters</i> , 2007 , 34,	4.8	33
88	Properties of the magnetic field in the Jovian magnetotail. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 23-1-SMP 23-9		33
87	Dynamics of Ganymede's magnetopause: Intermittent reconnection under steady external conditions. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		33
86	LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme. <i>Experimental Astronomy</i> , 2009 , 23, 849-892	1.3	31
85	Mirror-mode structures at the Galileo-Io flyby: Observations. <i>Journal of Geophysical Research</i> , 1999 , 104, 17471-17477		33
84	On Jovian plasma sheet structure. <i>Journal of Geophysical Research</i> , 1989 , 94, 11791		33
83	Magnetic Fields of the Satellites of Jupiter and Saturn. <i>Space Science Reviews</i> , 2010 , 152, 271-305	7.4	32
82	Modeling a force-free flux transfer event probed by multiple Time History of Events and Macroscale Interactions during Substorms (THEMIS) spacecraft. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		32
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79	Searching for liquid water in Europa by using surface observatories. <i>Astrobiology</i> , 2002 , 2, 93-103	3.6	30
78	Models of flux ropes embedded in a harris neutral sheet: Force-free solutions in low and high beta plasmas. <i>Journal of Geophysical Research</i> , 1995 , 100, 23637		29
77	The Galileo Earth encounter: Magnetometer and allied measurements. <i>Journal of Geophysical Research</i> , 1993 , 98, 11299		30
76	Warm flux tubes in the E-ring plasma torus: Initial Cassini magnetometer observations. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.8	29
75	Effects of radial motion on interchange injections at Saturn. <i>Icarus</i> , 2016 , 264, 342-351	3.7	28
74	Dynamic Harris current sheet thickness from Cluster current density and plasma measurements. <i>Journal of Geophysical Research</i> , 2005 , 110,		28

73	Magnetized or unmagnetized: Ambiguity persists following Galileo's encounters with Io in 1999 and 2000. <i>Journal of Geophysical Research</i> , 2001 , 106, 26121-26135		27
72	Interaction of Io with its torus: Does Io have an internal magnetic field?. <i>Geophysical Research Letters</i> , 1997 , 24, 2391-2394	4.8	27
71	Thermal and Energetic Ion Dynamics in Ganymede's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4614-4637	2.5	26
70	Asymmetries in Saturn's radiation belts. <i>Journal of Geophysical Research</i> , 2010 , 115,		25
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67	The exploration of Titan with an orbiter and a lake probe. <i>Planetary and Space Science</i> , 2014 , 104, 78-92	2	21
66	Ion composition in interchange injection events in Saturn's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9761-9772	2.5	22
65	Energetic electron signatures of Saturn's smaller moons: Evidence of an arc of material at Methone. <i>Icarus</i> , 2008 , 193, 455-464	3.7	22
64	In situ observations of the preexisting auroral arc by THEMIS all sky imagers and the FAST spacecraft. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
63	Sheared magnetic field structure in Jupiter's dusk magnetosphere: Implications for return currents. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 17-1		21
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61	Generation and properties of in vivo flux transfer events. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
60	Pitch angle distributions of energetic electrons at Saturn. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		19
59	Magnetic field studies of the solar wind interaction with Venus from the Galileo flyby. <i>Science</i> , 1991 , 253, 1518-22	32.2	19
58	Field dipolarization in Saturn's magnetotail with planetward ion flows and energetic particle flow bursts: Evidence of quasi-steady reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3603-3617	2.5	17
57	Time-varying magnetospheric environment near Enceladus as seen by the Cassini magnetometer. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.8	18
56	Europa's Alfvén wing: shrinkage and displacement influenced by an induced magnetic field. <i>Annales Geophysicae</i> , 2007 , 25, 905-914	1.9	18

55	Callisto plasma interactions: Hybrid modeling including induction by a subsurface ocean. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4877-4889	2.5	17
54	Spinning, breathing, and flapping: Periodicities in Saturn's middle magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 393-416	2.5	17
53	Interaction of Saturn's magnetosphere and its moons: 1. Interaction between corotating plasma and standard obstacles. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		17
52	Jovian plasma sheet morphology: particle and field observations by the Galileo spacecraft. <i>Planetary and Space Science</i> , 2005 , 53, 681-692	2	17
51	Probing Ganymede's magnetosphere with field line resonances. <i>Journal of Geophysical Research</i> , 1999 , 104, 14729-14738		17
50	Discovery of Atmospheric-Wind-Driven Electric Currents in Saturn's Magnetosphere in the Gap Between Saturn and its Rings. <i>Geophysical Research Letters</i> , 2018 , 45, 10,068-10,074	4.8	16
49	Simulating the effect of centrifugal forces in Jupiter's magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1925-1950	2.5	16
48	Flux ropes, interhemispheric conjugacy, and magnetospheric current closure. <i>Journal of Geophysical Research</i> , 1996 , 101, 27341-27350		15
47	Alfvén wings in the lunar wake: The role of pressure gradients. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,698-10,711	2.5	14
46	Diffuse auroral precipitation in the jovian upper atmosphere and magnetospheric electron flux variability. <i>Icarus</i> , 2005 , 178, 406-416	3.7	14
45	Sources of Local Time Asymmetries in Magnetodiscs. <i>Space Science Reviews</i> , 2015 , 187, 301-333	7.4	13
44	Ionospheric flow shear associated with the preexisting auroral arc: A statistical study from the FAST spacecraft data. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5194-5213	2.5	13
43	A variable cross-section model of the bow shock of Venus. <i>Journal of Geophysical Research</i> , 1994 , 99, 8505		12
42	The far-ultraviolet main auroral emission at Jupiter [Part 1: Dawn/dusk brightness asymmetries. <i>Annales Geophysicae</i> , 2015 , 33, 1203-1209	1.9	12
41	Cassini observations of Saturn's southern polar cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3006-3030	2.5	12
40	Outward expansion of the lunar wake: ARTEMIS observations. <i>Geophysical Research Letters</i> , 2012 , 39,	4.8	12
39	Non-self-similar scaling of plasma sheet and solar wind probability distribution functions of magnetic field fluctuations. <i>Journal of Geophysical Research</i> , 2006 , 111,		12
38	Energetic ion dynamics in Jupiter's plasma sheet. <i>Journal of Geophysical Research</i> , 2001 , 106, 18895-18905		12

37	Measuring the stress state of the Saturnian magnetosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.8	11
36	The far-ultraviolet main auroral emission at Jupiter [Part 2: Vertical emission profile. <i>Annales Geophysicae</i> , 2015 , 33, 1211-1219	1.9	10
35	Global configuration of Saturn's magnetic field derived from observations. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.8	10
34	Interaction of Saturn's magnetosphere and its moons: 3. Time variation of the Enceladus plume. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		10
33	A statistical study of the inner edge of the electron plasma sheet and the net convection potential as a function of geomagnetic activity. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		10
32	Detection of a strongly negative surface potential at Saturn's moon Hyperion. <i>Geophysical Research Letters</i> , 2014 , 41, 7011-7018	4.8	9
31	Interaction of Saturn's magnetosphere and its moons: 2. Shape of the Enceladus plume. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		9
30	Cassini magnetometer observations over the Enceladus poles. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.8	9
29	Flow vortices associated with flux transfer events moving along the magnetopause: Observations and an MHD simulation. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		8
28	Environments in the Outer Solar System. <i>Space Science Reviews</i> , 2010 , 153, 11-59	7.4	8
27	The role of plasma slowdown in the generation of Rhea's Alfvén wings. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1778-1788	2.5	7
26	Cluster observations of quasi-periodic impulsive signatures in the dayside northern lobe: High-latitude flux transfer events?. <i>Journal of Geophysical Research</i> , 2004 , 109,		7
25	Surface current balance and thermoelectric whistler wings at airless astrophysical bodies: Cassini at Rhea. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 8881-8901	2.5	6
24	Joule heating of the south polar terrain on Enceladus. <i>Journal of Geophysical Research</i> , 2011 , 116,		5
23	Ion pick-up near the icy Galilean satellites 2010 ,		6
22	The Locations and Shapes of Jupiter's Bow Shock and Magnetopause. <i>AIP Conference Proceedings</i> , 2005 ,	0	6
21	ULF waves in Ganymede's upstream magnetosphere. <i>Annales Geophysicae</i> , 2013 , 31, 45-59	1.9	5
20	Magnetospheric Interactions of Saturn's Moon Dione (2005-2015). <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027688	2.5	5

19	Local Time Asymmetries in Jupiter's Magnetodisc Currents. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027455	2.5	5
18	Ultralow frequency waves in the magnetotails of the Earth and the outer planets. <i>Advances in Space Research</i> , 1992 , 12, 57-63	2.3	5
17	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. <i>Planetary and Space Science</i> , 2020 , 193, 104960	2	3
16	Measuring magnetic field gradients from four point vector measurements in space. <i>Geophysical Monograph Series</i> , 1998 , 311-316	1.1	4
15	Ion cyclotron waves in the Saturnian magnetosphere associated with Cassini's engine exhaust. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.8	4
14	Mode conversion at the Jovian plasma sheet boundary. <i>Journal of Geophysical Research</i> , 1998 , 103, 14995-15000		
13	ARTEMIS Science Objectives 2011 , 27-59		4
12	Reply [to Comment on Interaction of Io with its torus: Does Io have an internal magnetic field?] by Krishan K. Khurana, Margaret G. Kivelson and Christopher T. Russell. <i>Geophysical Research Letters</i> , 1998 , 25, 2351-2352	4.8	3
11	First Results from ARTEMIS, a New Two-Spacecraft Lunar Mission: Counter-Streaming Plasma Populations in the Lunar Wake 2011 , 93-107		1
10	The Galileo Magnetic Field Investigation 1992 , 357-383		2
9	Quasiperiodic 1-Hour Alfvén Wave Resonances in Saturn's Magnetosphere: Theory for a Realistic Plasma/Field Model. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090967	4.8	2
8	Current Systems in Planetary Magnetospheres. <i>Geophysical Monograph Series</i> , 2018 , 17-41	1.1	1
7	The 2013 Saturn auroral campaign. <i>Icarus</i> , 2016 , 263, 1	3.7	1
6	Saturn's Magnetic Field and Dynamo 2018 , 69-96		1
5	Embedded Regions 1 and 2 Field-Aligned Currents: Newly Recognized From Low-Altitude Spacecraft Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029207	2.5	1
4	Sources of Local Time Asymmetries in Magnetodiscs. <i>Space Sciences Series of ISSI</i> , 2016 , 301-333	0.1	0
3	Magnetic Fields of the Satellites of Jupiter and Saturn. <i>Space Sciences Series of ISSI</i> , 2009 , 271-305	0.1	0
2	Medicean Moons Sailing Through Plasma Seas: Challenges in Establishing Magnetic Properties. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 58-70	0.1	

1 Environments in the Outer Solar System. *Space Sciences Series of ISSI*, **2010**, 11-59

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