Margaret G Kivelson

List of Publications by Citations

300 papers	17,307 citations	74 h-index	118 g-index
305 ext. papers	18,329 ext. citations	9.3 avg, IF	6.34 L-index

#	Paper	IF	Citations
300	Bursty bulk flows in the inner central plasma sheet. *Journal of Geophysical Research*, **1992**, 97, 4027		811
299	Statistical characteristics of bursty bulk flow events. *Journal of Geophysical Research*, **1994**, 99, 21257		537
298	Induced magnetic fields as evidence for subsurface oceans in Europa and Callisto. *Nature*, **1998**, 395, 777-80	47.5	444
297	Galileo magnetometer measurements: a stronger case for a subsurface ocean at Europa. *Science*, **2000**, 289, 1340-3	32.2	444
296	Coupling of global magnetospheric MHD eigenmodes to field line resonances. *Journal of Geophysical Research*, **1986**, 91, 4345		302
295	Discovery of Ganymede's magnetic field by the Galileo spacecraft. *Nature*, **1996**, 384, 537-541	47.5	300
294	Inward motion of the magnetopause before a substorm. *Journal of Geophysical Research*, **1970**, 75, 7018-7031		269
293	The Permanent and Inductive Magnetic Moments of Ganymede. *Icarus*, **2002**, 157, 507-522	3.7	265
292	Resonant ULF waves: A new interpretation. *Geophysical Research Letters*, **1985**, 12, 49-52	4.8	264
291	THE CLUSTER MAGNETIC FIELD INVESTIGATION. *Space Science Reviews*, **1997**, 79, 65-91	7.4	261
290	Subsurface Oceans on Europa and Callisto: Constraints from Galileo Magnetometer Observations. *Icarus*, **2000**, 147, 329-347	3.7	264
289	Relativistic electrons in the outer radiation belt: Differentiating between acceleration mechanisms. *Journal of Geophysical Research*, **2004**, 109,		237
288	Alfven wave resonances in a realistic magnetospheric magnetic field geometry. *Journal of Geophysical Research*, **1981**, 86, 4589-4596		216
287	Mirror instability: 1. Physical mechanism of linear instability. *Journal of Geophysical Research*, **1993**, 98, 9181		215
286	Kelvin:Helmholtz Instability at the magnetopause: Solution for compressible plasmas. *Journal of Geophysical Research*, **1983**, 88, 841		171
285	Multipoint analysis of a bursty bulk flow event on April 11, 1985. *Journal of Geophysical Research*, **1996**, 101, 4967-4989		168
284	Probabilistic models of the Jovian magnetopause and bow shock locations. *Journal of Geophysical Research*, **2002**, 107, SMP 17-1		163

283	Spatial correlation of solar-wind turbulence from two-point measurements. *Physical Review Letters*, **2005**, 95, 231101	7.3	153
282	The magnetohydrodynamic response of the magnetospheric cavity to changes in solar wind pressure. *Journal of Geophysical Research*, **1990**, 95, 2301		153
281	Motion and structure of the magnetopause. *Journal of Geophysical Research*, **1971**, 76, 1673-1696		153
280	Characteristics of ion flow in the quiet state of the inner plasma sheet. *Geophysical Research Letters* , **1993**, 20, 1711-1714	4.8	153
279	Io's Interaction with the Plasma Torus: Galileo Magnetometer Report. *Science*, **1996**, 274, 396-398	32.2	151
278	Charged particle behavior in low-frequency geomagnetic pulsations 1. Transverse waves. *Journal of Geophysical Research*, **1981**, 86, 5643		148
277	Europa and Callisto: Induced or intrinsic fields in a periodically varying plasma environment. *Journal of Geophysical Research*, **1999**, 104, 4609-4625		146
276	Observations and simulations of non-local acceleration of electrons in magnetotail magnetic reconnection events. *Nature Physics*, **2011**, 7, 360-365	16	144
275	Flow bursts, braking, and Pi2 pulsations. *Journal of Geophysical Research*, **2001**, 106, 1903-1915		141
274	Generation of Pi2 pulsations by bursty bulk flows. *Journal of Geophysical Research*, **1999**, 104, 25021-25034		137
273	Rotational Relaxation in Fluids. *Journal of Chemical Physics*, **1970**, 52, 1810-1821	3.8	135
272	Dynamical consequences of two modes of centrifugal instability in Jupiter's outer magnetosphere. *Journal of Geophysical Research*, **2005**, 110,		126
271	Charged particle behavior in low-frequency geomagnetic pulsations, 2. Graphical approach. *Journal of Geophysical Research*, **1982**, 87, 1707-1710		124
270	Magnetospheric plasma pressures in the midnight meridian: Observations from 2.5 to 35 RE. *Journal of Geophysical Research*, **1989**, 94, 5264		118
269	A new perspective concerning the influence of the solar wind on the Jovian magnetosphere. *Journal of Geophysical Research*, **2001**, 106, 6123-6130		118
268	Anomalous aspects of magnetosheath flow and of the shape and oscillations of the magnetopause during an interval of strongly northward interplanetary magnetic field. *Journal of Geophysical Research*, **1993**, 98, 5727-5742		118
267	Saturnian magnetospheric dynamics: Elucidation of a camshaft model. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		116
266	Climate change and the integrity of science. *Science*, **2010**, 328, 689-90	32.2	119

265	The magnetic field and internal structure of Ganymede. *Nature*, **1996**, 384, 544-545	47.5	119
264	Magnetospheric interchange instability. *Journal of Geophysical Research*, **1987**, 92, 109		108
263	Ionospheric traveling vortex generation by solar wind buffeting of the magnetosphere. *Journal of Geophysical Research*, **1991**, 96, 1661-1667		107
262	Analytic formulation and quantitative solutions of the coupled ULf wave problem. *Journal of Geophysical Research*, **1988**, 93, 8602		106
261	Solar wind control of auroral zone geomagnetic activity. *Geophysical Research Letters*, **1981**, 8, 915-918	4.8	107
260	Io and its plasma environment. *Journal of Geophysical Research*, **1980**, 85, 5959		104
259	Magnetic Field Signatures Near Galileo's Closest Approach to Gaspra. *Science*, **1993**, 261, 331-4	32.2	101
258	Ganymede's magnetosphere: Magnetometer overview. *Journal of Geophysical Research*, **1998**, 103, 19963-19972		98
257	The magnetic field and magnetosphere of Ganymede. *Geophysical Research Letters*, **1997**, 24, 2155-2158	4.8	99
256	In situ evidence for the structure of the magnetic null in a 3D reconnection event in the Earth's magnetotail. *Nature Physics*, **2006**, 2, 478-483	16	101
255	Evidence of a plume on Europa from Galileo magnetic and plasma wave signatures. *Nature Astronomy*, **2018**, 2, 459-464	12	101
254	Magnetospheric configuration and dynamics of Saturn's magnetosphere: A global MHD simulation. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		97
253	Galileo evidence for rapid interchange transport in the Io torus. *Geophysical Research Letters*, **1997**, 24, 2131-2134	4.8	98
252	Global mode ULF pulsations in a magnetosphere with a nonmonotonic Alfvē velocity profile. *Journal of Geophysical Research*, **1989**, 94, 1479		98
251	Intermittent short-duration magnetic field anomalies in the Io torus: Evidence for plasma interchange?. *Geophysical Research Letters*, **1997**, 24, 2127-2130	4.8	97
250	Plasma sheet turbulence observed by Cluster II. *Journal of Geophysical Research*, **2005**, 110,		96
249	Outer magnetosphere near midnight at quiet and disturbed times. *Journal of Geophysical Research*, **1972**, 77, 5487-5502		96
248	Magnetospheric electric fields and their variation with geomagnetic activity. *Reviews of Geophysics*, **1976**, 14, 189	22.6	94

247	Localized reconnection in the near jovian magnetotail. *Science*, **1998**, 280, 1061-4	32.2	94
246	Hydromagnetic waves and the ionosphere. *Geophysical Research Letters*, **1988**, 15, 1271-1274	4.8	93
245	Evidence of a global magma ocean in Io's interior. *Science*, **2011**, 332, 1186-9	32.2	90
244	A Magnetic Signature at Io: Initial Report from the Galileo Magnetometer. *Science*, **1996**, 273, 337-40	32.2	92
243	Cassini observations of a Kelvin-Helmholtz vortex in Saturn's outer magnetosphere. *Journal of Geophysical Research*, **2010**, 115,		88
242	Dawn-dusk electric field asymmetry of the Io plasma torus. *Geophysical Research Letters*, **1983**, 10, 210-213	4.8	89
241	On the possibility of quasi-static convection in the quiet magnetotail. *Geophysical Research Letters*, **1988**, 15, 1541-1544	4.8	86
240	Improved mapping of Jupiter's auroral features to magnetospheric sources. *Journal of Geophysical Research*, **2011**, 116,		85
239	Contributions of the low-latitude boundary layer to the finite width magnetotail convection model. *Journal of Geophysical Research*, **1993**, 98, 15487		86
238	Reconnection and flows in the Jovian magnetotail as inferred from magnetometer observations. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		84
237	Kelvin-Helmholtz Instability at the magnetopause: Energy flux into the magnetosphere. *Journal of Geophysical Research*, **1983**, 88, 853		83
236	Magnetospheric interchange motions. *Journal of Geophysical Research*, **1989**, 94, 299		83
235	The effect of parallel inhomogeneity on magnetospheric hydromagnetic wave coupling. *Journal of Geophysical Research*, **1986**, 91, 6871		83
234	Ogo 5 observations of Pc 5 waves: Particle flux modulations. *Journal of Geophysical Research*, **1977**, 82, 2774-2786		83
233	A comparison of ULF fluctuations in the solar wind, magnetosheath, and dayside magnetosphere: 1. Magnetosheath morphology. *Journal of Geophysical Research*, **1991**, 96, 3441		82
232	Saturn's magnetic field revealed by the Cassini Grand Finale. *Science*, **2018**, 362,	32.2	61
231	The latitudinal structure of Pc 5 waves in space: Magnetic and electric field observations. *Journal of Geophysical Research*, **1979**, 84, 7213		81
230	Saturation of the polar cap potential: Inference from Alfvén wing arguments. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		78

229	Propagation of Electromagnetic Waves in Plasmas. *Physical Review*, **1963**, 129, 2376-2397		74
228	Europa's magnetic signature: report from Galileo's pass on 19 December 1996. *Science*, **1997**, 276, 1239-1241	31.2	77
227	Electron Correlational Effects on Plasmon Damping and Ultraviolet Absorption in Metals. *Physical Review*, **1969**, 186, 409-419		75
226	Location and shape of the Jovian magnetopause and bow shock. *Journal of Geophysical Research*, **1998**, 103, 20075-20082		73
225	Mirror mode structures in the Jovian magnetosheath. *Journal of Geophysical Research*, **2006**, 111,		71
224	On the configuration of the magnetotail near midnight during quiet and weakly disturbed periods: Magnetic field modeling. *Journal of Geophysical Research*, **1978**, 83, 3819		68
223	Properties of Ganymede's magnetosphere inferred from improved three-dimensional MHD simulations. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		67
222	Anisotropy of the Taylor scale and the correlation scale in plasma sheet and solar wind magnetic field fluctuations. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		67
221	Cluster electric current density measurements within a magnetic flux rope in the plasma sheet. *Geophysical Research Letters*, **2003**, 30,	4.8	66
220	Evidence for the control of Pc 3,4 magnetic pulsations by the solar wind velocity. *Geophysical Research Letters*, **1977**, 4, 377-379	4.8	66
219	On nonsinusoidal waves at the Earth?s magnetopause. *Geophysical Research Letters*, **1993**, 20, 2699-2702	4.8	65
218	Approximations for the study of drift boundaries in the magnetosphere. *Journal of Geophysical Research*, **1975**, 80, 3528-3534		64
217	MHD simulations of Io's interaction with the plasma torus. *Journal of Geophysical Research*, **1998**, 103, 19867-19877		63
216	On the form of the flow in the magnetosheath. *Journal of Geophysical Research*, **1992**, 97, 2873-2879		63
215	The Kelvin-Helmholtz instability on the magnetopause. *Planetary and Space Science*, **1984**, 32, 1335-1341	2	64
214	Three-dimensional MHD simulations of Ganymede□s magnetosphere. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		62
213	Multiple-satellite studies of magnetospheric substorms: Radial dynamics of the plasma sheet. *Journal of Geophysical Research*, **1976**, 81, 5921-5933		62
212	Saturn's dynamic magnetotail: A comprehensive magnetic field and plasma survey of plasmoids and traveling compression regions and their role in global magnetospheric dynamics. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5465-5494	2.5	62

211	Ion cyclotron waves in the Io torus during the Galileo encounter: Warm plasma dispersion analysis. *Geophysical Research Letters*, **1997**, 24, 2143-2146	4.8	60
210	Constraints from Galileo observations on the origin of jovian dust streams. *Nature*, **1996**, 381, 395-398	47.5	61
209	A global magnetohydrodynamic simulation of the Jovian magnetosphere. *Journal of Geophysical Research*, **1998**, 103, 225-235		59
208	Driving Saturn's magnetospheric periodicities from the upper atmosphere/ionosphere: Magnetotail response to dual sources. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		58
207	Compressional ULF waves in the outer magnetosphere: 1. Statistical study. *Journal of Geophysical Research*, **1991**, 96, 19451		59
206	A three-dimensional MHD simulation of plasma flow past Io. *Journal of Geophysical Research*, **1991**, 96, 21037		58
205	Observation and modeling of energetic particles at synchronous orbit on July 29, 1977. *Journal of Geophysical Research*, **1982**, 87, 5917		58
204	Satellite observations of the spatial extent and structure of Pc 345 pulsations near the magnetospheric equator. *Geophysical Research Letters*, **1979**, 6, 889-892	4.8	59
203	Substorms in space: The correlation between ground and satellite observations of the magnetic field. *Radio Science*, **1973**, 8, 1059-1076	1.3	57
202	Satellite observations of separator-line geometry of three-dimensional magnetic reconnection. *Nature Physics*, **2007**, 3, 609-613	16	55
201	Ion cyclotron waves in the Io torus: Wave dispersion, free energy analysis, and SO2 + source rate estimates. *Journal of Geophysical Research*, **1998**, 103, 19887-19899		56
200	Ultralow frequency MHD waves in Jupiter's middle magnetosphere. *Journal of Geophysical Research* , **1989**, 94, 5241		55
199	A time dependent model of the Jovian current sheet. *Journal of Geophysical Research*, **1978**, 83, 4823-4829		52
198	Observation of a current-driven plasma instability at the outer zone-plasma sheet boundary. *Journal of Geophysical Research*, **1973**, 78, 2150-2165		52
197	An approximate analytic description of plasma bulk parameters, and pitch angle anisotropy under adiabatic flow, in a dipolar magnetospheric field. *Journal of Geophysical Research*, **1975**, 80, 2069-2073		52
196	Dynamical polar cap: A unifying approach. *Journal of Geophysical Research*, **1997**, 102, 127-139		51
195	On the configuration of the magnetotail near midnight during quiet and weakly disturbed periods: State of the magnetosphere. *Journal of Geophysical Research*, **1978**, 83, 3805		51
194	Charged particle behavior in the growth and damping stages of ultralow frequency waves: Theory and Van Allen Probes observations. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3254-3263	2.5	49

193	Driving Saturn's magnetospheric periodicities from the upper atmosphere/ionosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		50
192	A comparison of ULF fluctuations in the solar wind, magnetosheath, and dayside magnetosphere: 2. Field and plasma conditions in the magnetosheath. *Journal of Geophysical Research*, **1991**, 96, 3455		50
191	Local time variations of particle flux produced by an electrostatic field in the magnetosphere. *Journal of Geophysical Research*, **1975**, 80, 56-65		50
190	Structure and statistical properties of plasmoids in Jupiter's magnetotail. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 821-843	2.5	49
189	Are Io's Alfvẽn wings filamented? Galileo observations. *Planetary and Space Science*, **2005**, 53, 395-412	2	49
188	An approximate description of field-aligned currents in a planetary magnetic field. *Journal of Geophysical Research*, **1991**, 96, 67		48
187	Relative timing of substorm onset phenomena. *Journal of Geophysical Research*, **2004**, 109,		45
186	Ion cyclotron waves observed at Galileo's Io encounter: Implications for neutral cloud distribution and plasma composition. *Geophysical Research Letters*, **1997**, 24, 2139-2142	4.8	45
185	Charged particle behavior in low-frequency geomagnetic pulsations: 4. Compressional waves. *Journal of Geophysical Research*, **1985**, 90, 1486		46
184	Magnetospheres of the galilean satellites. *Science*, **1979**, 205, 491-3	32.2	46
183	A tale of two theories: How the adiabatic response and ULF waves affect relativistic electrons. *Journal of Geophysical Research*, **2001**, 106, 25777-25791		45
182	Inference of the angular velocity of plasma in the Jovian magnetosphere from the sweepback of magnetic field. *Journal of Geophysical Research*, **1993**, 98, 67-79		45
181	An MHD simulation of plasma flow past Io: Alfvẽn and slow mode perturbations. *Geophysical Research Letters*, **1988**, 15, 1311-1314	4.8	44
180	Three-dimensional lunar wake reconstructed from ARTEMIS data. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5220-5243	2.5	44
179	A model of the Earth's distant bow shock. *Journal of Geophysical Research*, **1997**, 102, 26927-26941		43
178	Io's volcanic and sublimation atmospheres. *Icarus*, **1991**, 93, 63-81	3.7	44
177	Dependence of the polar cusp on the north-south component of the interplanetary magnetic field. *Journal of Geophysical Research*, **1973**, 78, 3761-3772		44
176	Detection of SO in Io's exosphere. *Science*, **2000**, 287, 1998-9	32.2	43

175	Satellite studies of magnetospheric substorms on August 15, 1968: 5. Energetic electrons, spatial boundaries, and wave-particle interactions at Ogo 5. *Journal of Geophysical Research*, **1973**, 78, 3079-3092		43
174	The source of Saturn's periodic radio emission. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		42
173	Absence of an internal magnetic field at Callisto. *Nature*, **1997**, 387, 262-264	47.5	45
172	The variation of the plasma sheet polytropic index along the midnight meridian in a finite width magnetotail. *Geophysical Research Letters*, **1990**, 17, 591-594	4.8	42
171	Mirror-mode structures at the Galileo-Io flyby: Instability criterion and dispersion analysis. *Journal of Geophysical Research*, **1999**, 104, 17479-17489		41
170	Wave activity in Europa's wake: Implications for ion pickup. *Journal of Geophysical Research*, **2001**, 106, 26033-26048		41
169	Multiple-satellite studies of magnetospheric substorms: Plasma sheet recovery and the poleward leap of auroral zone activity. *Journal of Geophysical Research*, **1978**, 83, 5256		41
168	The dusk flank of Jupiter's magnetosphere. *Nature*, **2002**, 415, 991-4	47.5	40
167	Static magnetic field models consistent with nearly isotropic plasma pressure. *Geophysical Research Letters*, **1987**, 14, 872-875	4.8	39
166	Magnetohydrodynamic simulations of the effects of the solar wind on the Jovian magnetosphere. *Planetary and Space Science*, **2001**, 49, 237-245	2	37
165	Plasma sheet dynamics in the Jovian magnetotail: Signatures For substorm-like processes ?. *Geophysical Research Letters*, **1999**, 26, 2137-2140	4.8	37
164	Magnetosheath flow near the subsolar magnetopause: Zwan-Wolf and Southwood-Kivelson theories reconciled. *Geophysical Research Letters*, **1995**, 22, 3275-3278	4.8	37
163	Time dependent convection electric fields and plasma injection. *Journal of Geophysical Research*, **1979**, 84, 4183-4188		38
162	Correlation and Taylor scale variability in the interplanetary magnetic field fluctuations as a function of solar wind speed. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		37
161	Observations of nonadiabatic acceleration of ions in Earth's magnetotail. *Journal of Geophysical Research*, **1994**, 99, 14877		37
160	Limits on an intrinsic dipole moment in Europa. *Journal of Geophysical Research*, **2004**, 109,		36
159	Charged particle behavior in low-frequency geomagnetic pulsations: 3. Spin phase dependence. *Journal of Geophysical Research*, **1983**, 88, 174		36
158	Energization of electrons at synchronous orbit by substorm-associated cross-magnetosphere electric fields. *Journal of Geophysical Research*, **1975**, 80, 2074-2082		36

157	Taylor scale and effective magnetic Reynolds number determination from plasma sheet and solar wind magnetic field fluctuations. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		36
156	Properties of the magnetic field in the Jovian magnetotail. *Journal of Geophysical Research*, **2002**, 107, SMP 23-1-SMP 23-9		33
155	Fine structure of Langmuir waves observed upstream of the bow shock at Venus. *Journal of Geophysical Research*, **1994**, 99, 13363		34
154	Dynamics of Ganymede's magnetopause: Intermittent reconnection under steady external conditions. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		33
153	LAPLACE: A mission to Europa and the Jupiter System for ESA Cosmic Vision Programme. *Experimental Astronomy*, **2009**, 23, 849-892	1.3	31
152	Mirror-mode structures at the Galileo-Io flyby: Observations. *Journal of Geophysical Research*, **1999**, 104, 17471-17477		33
151	On Jovian plasma sheet structure. *Journal of Geophysical Research*, **1989**, 94, 11791		33
150	Imprints of impulse-excited hydromagnetic waves on electrons in the Van Allen radiation belts. *Geophysical Research Letters*, **2015**, 42, 6199-6204	4.8	32
149	Magnetic Fields of the Satellites of Jupiter and Saturn. *Space Science Reviews*, **2010**, 152, 271-305	7.4	32
148	Modeling a force-free flux transfer event probed by multiple Time History of Events and Macroscale Interactions during Substorms (THEMIS) spacecraft. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		32
147	Imaging the effect of dipole tilt on magnetotail boundaries. *Journal of Geophysical Research*, **1994**, 99, 6079		32
146	An unambiguous determination of the propagation of a compressional Pc 5 wave. *Journal of Geophysical Research*, **1988**, 93, 5601		32
145	The interaction of flowing plasmas with planetary ionospheres: A Titan-Venus comparison. *Journal of Geophysical Research*, **1983**, 88, 49		31
144	Magnetosphere-ionosphere mapping at Jupiter: Quantifying the effects of using different internal field models. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 2584-2599	2.5	30
143	Self-consistent multifluid MHD simulations of Europa's exospheric interaction with Jupiter's magnetosphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 3503-3524	2.5	29
142	Does Enceladus govern magnetospheric dynamics at Saturn?. *Science*, **2006**, 311, 1391-2	32.2	31
141	Searching for liquid water in Europa by using surface observatories. *Astrobiology*, **2002**, 2, 93-103	3.6	30
140	The Galileo Earth encounter: Magnetometer and allied measurements. *Journal of Geophysical Research*, **1993**, 98, 11299		30

139	Evidence for periodic variations in the thickness of Saturn's nightside plasma sheet. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 280-292	2.5	29
138	Compressional ULF waves in the outer magnetosphere:, 2. A case study of Pc 5 type wave activity. *Journal of Geophysical Research*, **1994**, 99, 241		29
137	The radial dependences of the interplanetary magnetic field between 1 and 5 AU: Pioneer 10. *Journal of Geophysical Research*, **1978**, 83, 4165		29
136	Dynamic Harris current sheet thickness from Cluster current density and plasma measurements. *Journal of Geophysical Research*, **2005**, 110,		28
135	A multi-instrument study of a Jovian magnetospheric disturbance. *Journal of Geophysical Research*, **2001**, 106, 29883-29898		28
134	Magnetized or unmagnetized: Ambiguity persists following Galileo's encounters with Io in 1999 and 2000. *Journal of Geophysical Research*, **2001**, 106, 26121-26135		27
133	The Physics of Plasma Injection Events. *Astrophysics and Space Science Library*, **1979**, 385-405	0.3	27
132	Outer magnetospheric structure: Jupiter and Saturn compared. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		27
131	Interaction of Io with its torus: Does Io have an internal magnetic field?. *Geophysical Research Letters*, **1997**, 24, 2391-2394	4.8	27
130	On the threshold for triggering substorms. *Planetary and Space Science*, **1990**, 38, 211-220	2	27
129	Electron heating and phase space signatures at strong and weak quasi-perpendicular shocks. *Journal of Geophysical Research*, **1998**, 103, 2041-2054		26
128	Instability phenomena in detached plasma regions. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1976**, 38, 1115-1126		26
127	Asymmetries in Saturn's radiation belts. *Journal of Geophysical Research*, **2010**, 115,		25
126	Evidence that crater flux transfer events are initial stages of typical flux transfer events. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		23
125	Interplanetary Magnetic Taylor Microscale and Implications for Plasma Dissipation. *Astrophysical Journal*, **2008**, 678, L141-L144	4.7	25
124	Observations of Pc 12 waves in the outer magnetosphere. *Journal of Geophysical Research*, **1979**, 84, 4267-4276		25
123	Plasma Conductivity at Low Frequencies and Wavenumbers. *Physics of Fluids*, **1964**, 7, 1578		25
122	Temporal monitoring of Jupiter's auroral activity with IUE during the Galileo mission. Implications for magnetospheric processes. *Planetary and Space Science*, **2001**, 49, 405-415	2	24

121	Implications of depleted flux tubes in the Jovian magnetosphere. *Geophysical Research Letters*, **2000**, 27, 3133-3136	4.8	24
120	The effect of mass loading on the temperature of a flowing plasma. *Geophysical Research Letters*, **1989**, 16, 763-766	4.8	24
119	Evolution of ion cyclotron instability in the plasma convection system of the magnetosphere. *Journal of Geophysical Research*, **1979**, 84, 6397		24
118	The Cluster Magnetic Field Investigation **1997**, 65-91		24
117	Observations of a Pc5 global (cavity/waveguide) mode outside the plasmasphere by THEMIS. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		23
116	Magnetic field change across the Earth's bow shock: Comparison between observations and theory. *Journal of Geophysical Research*, **1985**, 90, 3925		23
115	Dawn-dusk asymmetries in rotating magnetospheres: Lessons from modeling Saturn. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 1413-1424	2.5	22
114	Evidence for sulfur dioxide, sulfur monoxide, and hydrogen sulfide in the Io exosphere. *Journal of Geophysical Research*, **2001**, 106, 33267-33272		22
113	On ultralow frequency waves in the lobes of the Earth's magnetotail. *Journal of Geophysical Research*, **1991**, 96, 15711-15723		22
112	Multiply reflected standing Alfven waves in the IO torus: Pioneer 10 observations. *Geophysical Research Letters*, **1981**, 8, 1281-1284	4.8	22
111	In situ observations of the preexisting auroral arc by THEMIS all sky imagers and the FAST spacecraft. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
110	EULERIAN DECORRELATION OF FLUCTUATIONS IN THE INTERPLANETARY MAGNETIC FIELD. *Astrophysical Journal Letters*, **2010**, 721, L10-L13	7.8	21
109	Sheared magnetic field structure in Jupiter's dusk magnetosphere: Implications for return currents. *Journal of Geophysical Research*, **2002**, 107, SMP 17-1		21
108	The rotation period of Jupiter. *Geophysical Research Letters*, **2001**, 28, 1911-1912	4.8	20
107	Observations of magnetic flux ropes and associated currents in Earth's magnetotail with the Galileo spacecraft. *Geophysical Research Letters*, **1995**, 22, 2087-2090	4.8	21
106	Effects of the secular magnetic variation on the distribution function of inner-zone protons. *Journal of Geophysical Research*, **1972**, 77, 6087-6092		21
105	Field-aligned currents in the Jovian magnetosphere: Pioneer 10 and 11. *Journal of Geophysical Research*, **1976**, 81, 5853-5858		21
104	Generation and properties of in vivo flux transfer events. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		20

103	First evidence of IMF control of Jovian magnetospheric boundary locations: Cassini and Galileo magnetic field measurements compared. *Planetary and Space Science*, **2003**, 51, 891-898	2	19
102	The influence of geomagnetic activity on the radial variation of the magnetospheric electric field between L=4 and 10. *Journal of Geophysical Research*, **1981**, 86, 863		20
101	Active experiments, magnetospheric modification, and a naturally occurring analogue. *Radio Science*, **1973**, 8, 1035-1048	1.3	20
100	Collision Damping of Plasma Oscillations. *Physical Review Letters*, **1962**, 8, 419-421	7.3	20
99	Magnetic field studies of the solar wind interaction with venus from the galileo flyby. *Science*, **1991**, 253, 1518-22	32.2	19
98	High □plasma in the dynamic Jovian current sheet. *Geophysical Research Letters*, **1978**, 5, 799-802	4.8	18
97	Europa's Alfv□ wing: shrinkage and displacement influenced by an induced magnetic field. *Annales Geophysicae*, **2007**, 25, 905-914	1.9	18
96	Multipoint reconnection in the near-Earth magnetotail: CDAW 6 observations of energetic particles and magnetic field. *Journal of Geophysical Research*, **1991**, 96, 19427		18
95	Spinning, breathing, and flapping: Periodicities in Saturn's middle magnetosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 393-416	2.5	17
94	Introduction to Space Physics **1995**, 330-355		17
93	Probing Ganymede's magnetosphere with field line resonances. *Journal of Geophysical Research*, **1999**, 104, 14729-14738		17
92	Observations of the Earth's bow shock under high Mach number/high plasma beta solar wind conditions. *Geophysical Research Letters*, **1988**, 15, 1161-1164	4.8	17
91	A Note on Meson-Nucleon Scattering. *Physical Review*, **1953**, 90, 1072-1075		17
90	Nonlinear Drift Resonance Between Charged Particles and Ultralow Frequency Waves: Theory and Observations. *Geophysical Research Letters*, **2018**, 45, 8773-8782	4.8	16
89	Discovery of Atmospheric-Wind-Driven Electric Currents in Saturn's Magnetosphere in the Gap Between Saturn and its Rings. *Geophysical Research Letters*, **2018**, 45, 10,068-10,074	4.8	16
88	Simulating the effect of centrifugal forces in Jupiter's magnetosphere. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1925-1950	2.5	16
87	Saturn's quasiperiodic magnetohydrodynamic waves. *Geophysical Research Letters*, **2016**, 43, 11,102	4.8	14
86	Magnetic correlation functions in the slow and fast solar wind in the Eulerian reference frame. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3995-4004	2.5	15

85	New evidence for the origin of giant pulsations. *Journal of Geophysical Research*, **2001**, 106, 21237-21253		15
84	Flux ropes, interhemispheric conjugacy, and magnetospheric current closure. *Journal of Geophysical Research*, **1996**, 101, 27341-27350		15
83	Explanation of the inward displacement of Io's hot plasma torus and consequences for sputtering sources. *Nature*, **1985**, 315, 373-378	47.5	15
82	Heliographic latitude dependence of the dominant polarity of the interplanetary magnetic field by comparison of simultaneous Pioneer 10 and Heos 1, 2 data. *Journal of Geophysical Research*, **1977**, 82, 1273-1274		15
81	Quasi-Classical Theory of Electron Correlations in Atoms. *Physical Review*, **1962**, 127, 1182-1192		15
80	A Possible Signature of Magnetic Cavity Mode Oscillations in ISEE Spacecraft Observations.. *Journal of Geomagnetism and Geoelectricity*, **1997**, 49, 1079-1098		15
79	Alfvén wings in the lunar wake: The role of pressure gradients. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 10,698-10,711	2.5	14
78	ISEE-1, -2 and -3 observation of the interaction between an interplanetary shock and the Earth's magnetosphere: A rapid traversal of the magnetopause. *Geophysical Research Letters*, **1981**, 8, 911-914	4.8	14
77	July 29, 1977, magnetospheric studies: Impulsive waves, global dynamics and geomagnetic indices. *Journal of Geophysical Research*, **1982**, 87, 5981		14
76	Current-driven plasma instabilities at high latitudes. *Journal of Geophysical Research*, **1975**, 80, 2030-2040		14
75	Ionospheric flow shear associated with the preexisting auroral arc: A statistical study from the FAST spacecraft data. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5194-5213	2.5	13
74	A variable cross-section model of the bow shock of Venus. *Journal of Geophysical Research*, **1994**, 99, 8505		12
73	Magnetospheric waves and the atmosphere-ionosphere layer. *Journal of Geophysical Research*, **1991**, 96, 21125		12
72	Outward expansion of the lunar wake: ARTEMIS observations. *Geophysical Research Letters*, **2012**, 39,	4.8	12
71	Non-self-similar scaling of plasma sheet and solar wind probability distribution functions of magnetic field fluctuations. *Journal of Geophysical Research*, **2006**, 111,		12
70	Trapped Energetic Electrons in the Magnetosphere of Ganymede. *Journal of Geophysical Research*, **2000**, 105, 5547-5553		12
69	Interplanetary magnetic field control of mantle precipitation and associated field-aligned currents. *Journal of Geophysical Research*, **1995**, 100, 1837		12
68	Observations of a quasi-static plasma sheet boundary. *Geophysical Research Letters*, **1993**, 20, 2813-2816	4.8	12

67	Ion partitioning in the hot Io torus: The influence of S2 outgassing. *Journal of Geophysical Research*, **1985**, 90, 12065		12
66	The linear dependence of polar cap index on its controlling factors in solar wind and magnetotail. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		11
65	Anisotropy of the Taylor scale and the correlation scale in plasma sheet magnetic field fluctuations as a function of auroral electrojet activity. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		11
64	Bifurcated current sheets: Statistics from Cluster magnetometer measurements. *Journal of Geophysical Research*, **2006**, 111,		11
63	Frequency doubling in ultralow frequency wave signals. *Journal of Geophysical Research*, **1997**, 102, 27151-27158		11
62	Polar cap field-aligned currents for southward interplanetary magnetic fields. *Journal of Geophysical Research*, **1994**, 99, 6067		11
61	Reflection of Electromagnetic Waves from a Rough Surface. *Journal of Applied Physics*, **1965**, 36, 3609-3612	2.4	10
60	OGO-5 Observations of the Magnetopause. *Astrophysics and Space Science Library*, **1974**, 139-157	0.3	11
59	Two models of cross polar cap potential saturation compared: Siscoe-Hill model versus Kivelson-Ridley model. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 794-803	2.5	10
58	A statistical study of the inner edge of the electron plasma sheet and the net convection potential as a function of geomagnetic activity. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		10
57	Note on the electric splitting of drift shells. *Journal of Geophysical Research*, **1975**, 80, 3525-3527		10
56	Damping standing Alfvén waves in the magnetosphere. *Journal of Geophysical Research*, **2001**, 106, 10829-10836		9
55	Long-term variation of driven and unloading effects on polar cap dynamics. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		8
54	Flow vortices associated with flux transfer events moving along the magnetopause: Observations and an MHD simulation. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		8
53	Galileo observations of the motions of ion and electron plasmas in the magnetotail. *Geophysical Research Letters*, **1993**, 20, 1771-1774	4.8	8
52	Relations between polarization and the structure of ULF waves in the magnetosphere. *Journal of Geophysical Research*, **1984**, 89, 5523		8
51	The Formation of Slow Mode Fronts in the Magnetosheath. *Geophysical Monograph Series*, **2013**, 109-114	1.1	7
50	The Formation and Structure of Flux Ropes in the Magnetotail. *Geophysical Monograph Series*, **2013**, 139-151	1.1	7

49	Cluster observations of quasi-periodic impulsive signatures in the dayside northern lobe: High-latitude flux transfer events?. *Journal of Geophysical Research*, **2004**, 109,		7
48	Vortex motion in the ionosphere and nonlinear transport. *Journal of Geophysical Research*, **1993**, 98, 11459		7
47	Spin-spin splitting in the NMR spectrum of methanol. *Journal of Molecular Spectroscopy*, **1958**, 2, 518-523	1.3	7
46	Utilizing the polar cap index to explore strong driving of polar cap dynamics. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		6
45	The Locations and Shapes of Jupiter's Bow Shock and Magnetopause. *AIP Conference Proceedings*, **2005**,	0	6
44	Structured plasma sheet thinning observed by Galileo and 1984-129. *Journal of Geophysical Research*, **1993**, 98, 21323-21333		6
43	A Pincer-shaped plasma sheet at Uranus. *Journal of Geophysical Research*, **1990**, 95, 14987		6
42	Jensen–Shannon Complexity Measurements in Solar Wind Magnetic Field Fluctuations. *Astrophysical Journal*, **2019**, 872, 59	4.7	5
41	Generation of Pi2 pulsations by intermittent earthward propagating dipolarization fronts: An MHD case study. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 6364-6377	2.5	5
40	ULF waves in Ganymede's upstream magnetosphere. *Annales Geophysicae*, **2013**, 31, 45-59	1.9	5
39	Relating Jupiter's Auroral Features to Magnetospheric Sources. *Geophysical Monograph Series*, **2013**, 421-430	1.1	5
38	Multipoint observations of global magnetospheric compressions. *Journal of Geophysical Research*, **2000**, 105, 23293-23302		5
37	Ultralow frequency waves in the magnetotails of the Earth and the outer planets. *Advances in Space Research*, **1992**, 12, 57-63	2.3	5
36	Voids in Jovian magnetosphere revisited: Evidence of spacecraft charging. *Journal of Geophysical Research*, **1987**, 92, 13399		3
35	Propagation of Pi2 pulsations through the braking region in global MHD simulations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 10,574	2.5	4
34	On the links between the radio flux and magnetodisk distortions at Jupiter. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 9651-9670	2.5	4
33	Measuring magnetic field gradients from four point vector measurements in space. *Geophysical Monograph Series*, **1998**, 311-316	1.1	4
32	Whistler mode auroral hiss emissions observed near Jupiter's moon Io. *Journal of Geophysical Research*, **2006**, 111,		4

31	The response of the near earth magnetotail to substorm activity. *Advances in Space Research*, **2005**, 36, 1818-1824	2.3	4
30	Relationships between phase structure and energy flux in magnetohydrodynamic waves in the magnetosphere. *Journal of Geophysical Research*, **2000**, 105, 27701-27706		4
29	Field line resonances in discretized magnetospheric models: an artifact study. *Annales Geophysicae*, **1997**, 15, 614-624	1.9	4
28	Time delays in the solar wind flow past Venus: Galileo-Pioneer Venus correlations. *Journal of Geophysical Research*, **1996**, 101, 4539-4546		4
27	Technique for measuring and correcting the Taylor microscale. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 4256-4265	2.5	3
26	Comment on "An Active Plume Eruption on Europa During Galileo Flyby E26 as Indicated by Energetic Proton Depletions" by Huybrighs et al.. *Geophysical Research Letters*, **2021**, 48, e2020GL091550	4.8	3
25	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"] *Geophysical Research Letters*, **1998**, 25, 2351-2352	4.8	3
24	Magnetic Islands in the Near Geomagnetic Tail and Its Implications for the Mechanism of 1054 UT CDAW 6 Substorm. *Geophysical Monograph Series*, **1990**, 647-654	1.1	3
23	Magnetopause Pressure Pulses as a Source of Localized Field-Aligned Currents in the Magnetosphere. *Geophysical Monograph Series*, **1990**, 619-625	1.1	3
22	Plasma near Io: Estimates of some physical parameters. *Journal of Geophysical Research*, **1981**, 86, 10122		3
21	The Galileo Magnetic Field Investigation **1992**, 357-383		2
20	The latitudinal structure of the nightside outer magnetosphere of Saturn as revealed by velocity moments of thermal ions. *Annales Geophysicae*, **2015**, 33, 1195-1202	1.9	3
19	Global MHD Modeling of the Coupled Magnetosphere-Ionosphere System at Saturn. *Geophysical Monograph Series*, **2016**, 319-334	1.1	2
18	Quasiperiodic 1-Hour Alfvén Wave Resonances in Saturn's Magnetosphere: Theory for a Realistic Plasma/Field Model. *Geophysical Research Letters*, **2021**, 48, e2020GL090967	4.8	2
17	Ulysses spacecraft rendezvous with jupiter. *Science*, **1992**, 257, 1487-9	32.2	2
16	Coupled SKR Emissions in Saturn's Northern and Southern Ionospheres. *Geophysical Research Letters*, **2018**, 45, 2893-2900	4.8	1
15	Energy-banded ions in Saturn's magnetosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 5181-5202	2.5	1
14	Embedded Regions 1 and 2 Field-Aligned Currents: Newly Recognized From Low-Altitude Spacecraft Observations. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029207	2.5	1

13	The Magnetosphere of Ganymede. *Geophysical Monograph Series*, **2021**, 557-573	1.1	
12	Reply [to Comment on Coupling of global magnetospheric MHD eigenmodes to field line resonances by M. G. Kivelson and D. J. Southwood]. *Journal of Geophysical Research*, **1989**, 94, 2747		1
11	Comment on On double current layers in the polar cusp by A. Bahnsen, N. D'Angelo, and A. Mencke Hansen. *Journal of Geophysical Research*, **1976**, 81, 4035-4036		1
10	Ionospheric Signatures of Localized Magnetospheric Perturbations. *Journal of Geomagnetism and Geoelectricity*, **1991**, 43, 129-140		1
9	An Improbable Collaboration. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028407	2.5	0
8	Magnetic Fields of the Satellites of Jupiter and Saturn. *Space Sciences Series of ISSI*, **2009**, 271-305	0.1	0
7	Q&A Margaret Kivelson. *Astronomy and Geophysics*, **2019**, 60, 3.43-3.43	0.2	
6	Zuyin Pu Receives 2012 International Award: Citation. *Eos*, **2013**, 94, 35-35	1.2	
5	Valery Troitskaya (1917–2010). *Eos*, **2010**, 91, 142-143	1.2	
4	Medicean Moons Sailing Through Plasma Seas: Challenges in Establishing Magnetic Properties. *Proceedings of the International Astronomical Union*, **2010**, 6, 58-70	0.1	
3	Observation of high speed flows (V > Vsw) in the magnetosheath during an interval of strongly northward IMF. *Geophysical Monograph Series*, **1995**, 365-369	1.1	
2	The Structure and Dynamics of the Plasma Sheet During the Galileo Earth-1 Flyby. *Geophysical Monograph Series*, **1994**, 149-154	1.1	
1	The Magnetic Fields of the Galilean Moons of Jupiter: The Galileo Spacecraft Magnetometer Results. *Astrophysics and Space Science Library*, **1998**, 299-310	0.3	