

PUBLICATIONS

## PUBLISHED PAPERS

1. Karplus, R., M. G. Kivelson, and P. C. Martin, A note on meson-nucleon scattering, *Phys. Rev.*, *90*, 1072, 1953.
2. Kivelson, D., and M. G. Kivelson, Spin-spin splitting in the NMR spectrum of methanol, *Molecular Spectroscopy*, *2*, 518, 1958.
3. DuBois, D. F., and M. G. Kivelson, Quasi-classical theory of electron correlations in atoms, *Phys. Rev.*, *127*, 1182, 1962. [62PR1271182](#)
4. DuBois, D. F., V. Gilinsky, and M. G. Kivelson, Collision damping of plasma oscillations, *Phys. Rev. Letters*, *8*, 419, 1962. [62PR8419](#)
5. DuBois, D. F., V. Gilinsky, and M. G. Kivelson, Propagation of electromagnetic waves in plasmas, *Phys. Rev.*, *129*, 2376, 1963. [63PR1292379](#)
6. Kivelson, M. G., and D. F. DuBois, Plasma conductivity at low frequencies and wave numbers, *Phys. Fluids*, *7*, 1578, 1964. [64PF1101578](#)
7. Kivelson, M. G., and S. A. Moszkowski, Reflection of electromagnetic waves from a rough surface, *J. Applied Phys.*, *36*, 3609, 1965.
8. Kivelson, M. G., and J. A. Welch, Jr., Radiation smoothing of shocks, *J. Quant. Spectrosc. Radiat. Transfer*, *8*, 601, 1968.
9. DuBois, D. F., and M. G. Kivelson, Electron correlational effects on plasma damping and ultraviolet absorption in metals, *Phys. Rev.*, *186*, 409, 1969.
10. Kivelson, D., M. G. Kivelson, and I. Oppenheim, Rotational relaxation in fluids, *J. Chem. Phys.*, *52*, 1810, 1970.
11. Aubry, M. P., C. T. Russell, and M. G. Kivelson, Inward motion of the magnetopause preceding a substorm, *J. Geophys. Res.*, *75*, 7018, 1970. (IGPP Pub. No. 846). [70JGR757018](#)
12. Aubry, M. P., M. G. Kivelson, and C. T. Russell, Motion and structure of the magnetopause, *J. Geophys. Res.*, *76*, 1673, 1971. (IGPP Pub. No. 865). [71JGR761673](#)
13. Aubry, M. P., M. G. Kivelson, R. L. McPherron, C. T. Russell and D. S. Colburn, Outer magnetosphere near midnight at quiet and disturbed times, *J. Geophys. Res.*, *77*, 5487, 1972. (IGPP Pub. No. 972). [72JGR775487](#)
14. Farley, T. A., M. G. Kivelson, and M. Walt, Effects of the secular magnetic variations on the distribution function of inner zone protons, *J. Geophys. Res.*, *77*, 6087, 1972. (IGPP Pub. No. 1025). [JA077i031p06087](#)
15. Kivelson, M. G., C. T. Russell, M. Neugebauer, F. L. Scarf, and R. W. Fredricks, The dependence of the polar cusp on the north-south component of the interplanetary field, *J. Geophys. Res.*, *78*, 3761, 1973. (IGPP Pub. No. 1078) [JA078i019p03761](#)
16. Kivelson, M. G., T. A. Farley, and M. P. Aubry, Satellite studies of magnetospheric substorms on August 15, 1968: 5. Energetic electrons, spatial boundaries and wave-particle interactions at OGO-5, *J. Geophys. Res.*, *78*, 3079, 1973. (IGPP Pub. No. 967). [73JGR783079](#)
17. Scarf, F. L., R. W. Fredricks, C. T. Russell, M. G. Kivelson, M. Neugebauer, and C. R. Chappell, Observation of a current driven plasma instability at the outer zone-plasma sheet boundary, *J. Geophys. Res.*, *78*, 2150, 1973. (IGPP Pub. No. 1208)
18. Russell, C. T., R. W. Fredricks, M. G. Kivelson, M. Neugebauer and F. L. Scarf, OGO-5 observations of the physical processes occurring in the disturbed polar cusp and the cusp-magnetosheath interface, *Space Research*, *XIV*, 335-342, 1974. (IGPP Pub. No. 1210). [COSPAR335](#)
19. Kivelson, M. G., and C. T. Russell, Active experiments, magnetospheric modification and a naturally occurring analogue, *Radio Science*, *8*, 1035-1048, 1973. (IGPP Pub. No. 1214, 1294) [RS008i011p01035](#)

20. McPherron, R. L., C. T. Russell, M. G. Kivelson, and P. J. Coleman, Jr., Substorms in space: The correlation between ground and satellite observations of the magnetic field, *Radio Science*, 8, 1059-1079, 1973. (IGPP Pub. No. 1217) [RS008i011p01059](#)
21. Russell, C. T., M. G. Kivelson, and M. Neugebauer, OGO-5 Observations of the Magnetopause, *Correlated Interplanetary and Magnetospheric Observations*, (ed. by D. E. Page), page 139, D. Reidel Publ. Co., Dordrecht-Holland, 1974. (IGPP Pub. No. 1201). [CIMO139](#)
22. Kivelson, M. G., S. A. Kivelson, and D. Kivelson, Introduction, in *Turkoman Weaving*, Ed. R. Benardout, London, 1974.
23. Kivelson, M. G., and D. J. Southwood, Local time variations of particle flux produced by an electrostatic field in the magnetosphere, *J. Geophys. Res.*, 80, 56, 1975. (IGPP Pub. No. 1013). [75JGR8056](#)
24. Walker, R. J., and M. G. Kivelson, Energization of electrons at synchronous orbit by substorm-associated cross-magnetosphere electric fields, *J. Geophys. Res.*, 80, 2074, 1975. (IGPP Pub. No. 1239) [JA080i016p02074](#)
25. Kivelson, M. G., and D. J. Southwood, Note on the electric splitting of drift shells, *J. Geophys. Res.*, 80, 3525, 1975. (IGPP Pub. No. 1397). [75JGR803525](#)
26. Southwood, D. J., and M. G. Kivelson, An approximate analytic description of plasma bulk parameters and pitch angle anisotropy under adiabatic flow in a dipolar magnetospheric field, *J. Geophys. Res.*, 80, 2069, 1975. (IGPP Pub. No. 1398). [75JGR802069](#)
27. Kivelson, M. G., and D. J. Southwood, Approximations for the study of drift boundaries in the magnetosphere, *J. Geophys. Res.*, 80, 3528, 1975. (IGPP Pub. No. 1399). [75JGR803528](#)
28. Scarf, F. L., R. W. Fredricks, C. T. Russell, M. Neugebauer, M. G. Kivelson, and C. R. Chappell, Current-driven plasma instabilities at high latitudes, *J. Geophys. Res.*, 80, 2030, 1975. (IGPP Pub. No. 1485). [JA080i016p02030](#)
29. Russell, C. T., and M. G. Kivelson, Book Review: The Magnetospheres of the Earth and Jupiter (edited by V. Formisano), *Space Science Reviews*, 19, 162, 1976. (IGPP Pub. No. 1715).
30. Kivelson, M. G., Magnetospheric electric fields and their variation with geomagnetic activity, *Rev. Geophys. Space Phys.*, 14, 189, 1976. (IGPP Pub. No. 1448). [76RGSP14189](#)
31. Russell, C. T., M. G. Kivelson, and R. E. Holzer, Natural precedents to active magnetospheric experiments, *Space Research XVI*, Akademie-Verlag, Berlin, 581-588, 1976. (IGPP Pub. No. 1514).
32. Russell, C. T., M. G. Kivelson, M. Neugebauer, and F. L. Scarf, Comment on 'On double layers in the polar cusp' by A. Bahnsen, N. D'Angelo, and A. Menke Hansen, *J. Geophys. Res.*, 81, 4035, 1976. (IGPP pub. No. 1624). [JA081i022p04035](#)
33. Pytte, T., R. L. McPherron, M. G. Kivelson, H. I. West, Jr., and E. W. Hones, Jr., Multiple-satellite studies of magnetospheric substorms: Radial dynamics of the plasma sheet, *J. Geophys. Res.*, 81, 5921, 1976. (IGPP Pub. No. 1528). [JA081i034p05921](#)
34. Kivelson, M. G., and C. R. Winge, Field-aligned currents in the Jovian magnetosphere: Pioneers 10 and 11, *J. Geophys. Res.*, 81, 5853, 1976. (IGPP pub. No. 1496). [76JGR815853](#)
35. Kivelson, M. G., Jupiter's distant environment, in *Physics of Solar Planetary Environments* (edited by D. J. Williams), Am. Geophys. Union, Washington, D. C., 1976. (IGPP Pub. No. 1582). [76PSPE836](#)
36. Kivelson, M. G., Instability phenomena in detached plasma regions, *J. Atmos. Terrest. Phys.*, 38, 1115, 1976. [76JATP381115](#)
37. Rosenberg, R. L., M. G. Kivelson, and P. C. Hedgecock, Heliographic latitude dependence of IMF dominant polarity by comparison of simultaneous Pioneer 10 and HEOS 1, 2 data, *J. Geophys. Res.*, 82, 1273, 1977. (IGPP Pub. No. 1523).
38. Kokubun, S., M. G. Kivelson, R. L. McPherron, C. T. Russell and H. I. West, Jr., OGO-5 observations of Pc 5 waves: Particle flux modulations, *J. Geophys. Res.*, 82, 2774, 1977. (IGPP Pub. No. 1594). [7A0269](#)

39. Singer, H. J., C. T. Russell, M. G. Kivelson, E. W. Greenstadt and J. V. Olson, Evidence for the control of Pc 3, 4 magnetic pulsations by the solar wind velocity, *Geophys. Res. Letts.*, *4*, 377, 1977. (IGPP Pub. No. 1724). [7L0650](#)
40. West, H. I., Jr., R. M. Buck, and M. G. Kivelson, On the configuration of the magnetotail near midnight during quiet and weakly disturbed periods: State of the magnetosphere, *J. Geophys. Res.*, *83*, 3805, 1978. [78JGR833805](#)
41. West, H. I., Jr., R. M. Buck, and M. G. Kivelson, On the configuration of the magnetotail near midnight during quiet and weakly disturbed periods: Magnetic field modeling, *J. Geophys. Res.*, *83*, 3819, 1978. [8A0043](#)
42. Rosenberg, R. L., M. G. Kivelson, P. J. Coleman, Jr., and E. J. Smith, The radial dependences of the interplanetary magnetic field between 1 and 5 A.U.: Pioneer 10, *J. Geophys. Res.*, *83*, 4165, 1978. (IGPP Pub. No. 1500). [8A0012](#)
43. Walker, R. J., M. G. Kivelson, and A. W. Schardt, High beta plasma in the dynamic Jovian current sheet, *Geophys. Res. Letts.*, *5*, 799, 1978. (IGPP Pub. No. 1825). [8L0760](#)
44. Kivelson, M. G., P. J. Coleman, Jr., L. Froidevaux, and R. L. Rosenberg, A time dependent model of the Jovian current sheet, *J. Geophys. Res.*, *83*, 4823, 1978. (IGPP Pub. No. 1704). [8A0587](#)
45. Pytte, T., R. L. McPherron, M. G. Kivelson, E. W. Hones, Jr., and H. I. West, Jr., Multiple-satellite studies of magnetospheric substorms: Plasma sheet recovery and the poleward leap of auroral zone activity, *J. Geophys. Res.*, *83*, 5256, 1978. [8A0696](#)
46. Kivelson, M. G., J. A. Slavin, and D. J. Southwood, Magnetospheres of the galilean satellites, *Science*, *205*, 491, 1979. [79Sci205491](#)
47. Kaye, S. M., and M. G. Kivelson, Time dependent convection electric fields and plasma injection, *J. Geophys. Res.*, *84*, 4183, 1979. (IGPP Pub. No. 1888). [9A0533](#)
48. Kaye, S. M., and M. G. Kivelson, Observations of Pc 1-2 waves in the outer magnetosphere, *J. Geophys. Res.*, *84*, 4276, 1979. (IGPP Pub. No. 1830). [8A1216](#)
49. Kivelson, M. G., Review of 'Geomagnetic Diagnosis of the Magnetosphere' by A. Nishida, *Eos Trans. AGU*, *60*, 660, 1979.
50. Singer, H. J., C. T. Russell, M. G. Kivelson, T. A. Fritz, and W. Lennartsson, Satellite observations of the spatial extent and structure of Pc 3, 4, 5 pulsations near the magnetospheric equator, *Geophys. Res. Letts.*, *6*, 889, 1979. (IGPP Pub. No. 1959). [9L1295](#)
51. Kaye, S. M., M. G. Kivelson, and D. J. Southwood, Evolution of ion cyclotron instability in the plasma convection system of the magnetosphere, *J. Geophys. Res.*, *84*, 6397, 1979. (IGPP Pub. No. 1912). [9A0817](#)
52. Kivelson, M. G., S. M. Kaye, and D. J. Southwood, The physics of plasma injection events, in *Dynamics of the Magnetosphere*, (S. I. Akasofu, Editor), D. Reidel, Dordrecht, Holland, 1979. (IGPP Pub. No. 1878). [79Dyn of Mag](#)
53. Kivelson, M. G., Mysterious Jupiter, *CSMI In Focus*, *2*(4), 1979. (IGPP Pub. No. 1965).
54. Singer, H. J., and M. G. Kivelson, The latitudinal structure of Pc 5 waves in space: Magnetic and electric field observations, *J. Geophys. Res.*, *84*, 7213, 1979. (IGPP Pub. No. 1898). [JA084iA12p07213](#)
55. Clauer, C. R., R. L. McPherron, and M. G. Kivelson, Uncertainty in ring current parameters due to the quiet magnetic field field variability at midlatitudes, *J. Geophys. Res.*, *85*, 633, 1980. (IGPP Pub. No. 1958). [JA085iA02p00633](#)
56. Southwood, D. J., M. G. Kivelson, R. J. Walker, and J. A. Slavin, Io and its plasma environment, *J. Geophys. Res.*, *85*, 5959, 1980. (IGPP Pub. No. 1990). [JGR8559591980](#)
57. Kaye, S. M., and M. G. Kivelson, The influence of geomagnetic activity on the radial variation of the magnetospheric electric field between L = 4 and L = 10, *J. Geophys. Res.*, *86*, 863, 1981. (IGPP Pub. No. 2136). [JA086iA02p00863](#)
58. Singer, H. J., D. J. Southwood, R. J. Walker, and M. G. Kivelson, Alfvén wave resonances in a realistic magnetospheric field geometry, *J. Geophys. Res.*, *86*, 4589, 1981. (IGPP Pub. No. 1995). [80A1801](#)

59. Southwood, D. J., and M. G. Kivelson, Charged particle behavior in low frequency pulsations: 1. Transverse waves, *J. Geophys. Res.*, *86*, 5643, 1981. (IGPP Pub. No. 2085). [1A0103](#)
60. Winterhalter, D., M. G. Kivelson, C. T. Russell, and E. J. Smith, ISEE-1, -2 and -3 observation of the interaction between an interplanetary shock and the earth's magnetosphere: A rapid traversal of the magnetopause, *Geophys. Res. Letts.*, *8*, 911-914, 1981. (IGPP Pub. No. 2139). [GL008i008p00911](#)
61. Clauer, C. R., R. L. McPherron, C. Searls, and M. G. Kivelson, Solar wind control of auroral zone geomagnetic activity, *Geophys. Res. Letts.*, *8*, 915, 1981. [GL008i008p00915](#)
62. Pu, Z. -Y., K. B. Quest, M. G. Kivelson, and C. -Y. Tu, Lower hybrid drift instability and its associated anomalous resistivity in the neutral sheet of Earth's magnetotail, *J. Geophys. Res.*, *86*, 8919, 1981. (IGPP Pub. No. 2053). [JA086iA11p08919](#)
63. Kivelson, M. G., and D. J. Southwood, Plasma near Io: Estimates of some physical parameters, *J. Geophys. Res.*, *86*, 10122, 1981. (IGPP Pub. No. 2096). [1A1171](#)
64. Walker, R. J., and M. G. Kivelson, Multiply reflected standing Alfvén waves in the Io torus: Pioneer 10 observations, *Geophys. Res. Letts.*, *8*, 1281, 1981. (IGPP Pub. No. 2184). [1L1705](#)
65. Kivelson, M. G., Magnetic fields and charged particles around major planets and their satellites, *Phil. Trans. Roy. Soc. (London)*, *A303*, 247, 1981. Also, Planetary Exploration, the Royal Society, London, 1981. (IGPP Pub. No. 2105).
66. Southwood, D. J., and M. G. Kivelson, Charged particle behavior in low frequency geomagnetic pulsations: 2. Graphical approach, *J. Geophys. Res.*, *87*, 1707, 1982. (IGPP Pub. No. 2204). [1A1717](#)
67. Kivelson, M. G., July 29, 1977 magnetospheric studies: Impulsive waves, global dynamics and geomagnetic indices, *J. Geophys. Res.*, *87*, 5981, 1982. (IGPP Pub. No. 2183). [2A0330](#)
68. Baker, D. N., T. A. Fritz, B. Wilken, P. R. Higbie, S. M. Kaye, M. G. Kivelson, A. J. Masley, P. H. Smith, W. Studemann, and A. L. Vampola, Observation and modeling of energetic particles at synchronous orbit on July 29, 1977, *J. Geophys. Res.*, *87*, 5917, 1982. [JA087iA08p05917](#)
69. Kivelson, M. G., and D. J. Southwood, Charged particle behavior in low frequency geomagnetic pulsations: 3. Spin phase dependence, *J. Geophys. Res.*, *88*, 174, 1983. (IGPP Pub. No. 2279). [2A1275](#)
70. Kivelson, M.G., and C.T. Russell, The interaction of flowing plasmas with planetary ionospheres: a Titan-Venus comparison *J. Geophys. Res.*, *88*, 49, 1983. (IGPP Pub. No. 2318). [2A1523](#)
71. Pu, Z. -Y., and M. G. Kivelson, Kelvin-Helmholtz instability at the magnetopause: Solution for compressible plasmas, *J. Geophys. Res.*, *88*, 841, 1983a. (IGPP Pub. No. 2255). [2A1667](#)
72. Pu, Z. -Y., and M. G. Kivelson, Kelvin-Helmholtz instability at the magnetopause: Energy flux into the magnetosphere, *J. Geophys. Res.*, *88*, 853, 1983b. (IGPP Pub. No. 2281). [2A1666](#)
73. Barbosa, D. D., and M. G. Kivelson, Dawn-dusk electric field asymmetry of the Io plasma torus, *Geophys. Res. Letts.*, *10*, 210, 1983. (IGPP Pub. No. 2348). [3L0211](#)
74. Kivelson, M. G., K. W. Behannon, T. E. Cravens, I. dePater, T. V. Johnson, H. Masursky, D. L. Matson, D. J. Southwood, and V. M. Vasyliunas, The giant planets and their satellites: report on the COSPAR Symposium, Ottawa, Canada, May 18-21, 1982, University of California, Los Angeles, 1982. *Adv. Space Res.*, *3*, 5, 1983. (IGPP Pub. No. 2338).
75. Kivelson, M. G., Review of 'Physics of the Jovian Magnetosphere' (edited by A.J. Dessler), *Physics Today*, *36*, 61, 1983.
76. Kivelson, M. G., Across space and through time, *Radcliffe Quarterly*, *69*(3), 7, 1983.
77. Kivelson, M. G., J. Etcheto, and J. G. Trotignon, Global compressional oscillations of the terrestrial magnetosphere: The evidence and a model, *J. Geophys. Res.*, *89*, 9851, 1984. (IGPP Pub. No. 2503). [4A8018](#)



78. Pu, Zu-Yin, and M. G. Kivelson, The collisionless Kelvin-Helmholtz instability at Earth's magnetopause (I), *Acta Geophysica Sinica*, 27, 309, 1984a. (Principally, a translation of the paper: Pu, Zu-Yin, and M. G. Kivelson, Kelvin-Helmholtz instability at the magnetopause: Solutions for compressible plasmas, *J. Geophys. Res.*, 88, 841, 1983).
79. Pu, Zu-Yin, and M. G. Kivelson, Kelvin-Helmholtz instability and MHD surface waves on Saturn's magnetopause, *Chinese Journal of Space Science*, 4, 105, 1984b.
80. Southwood, D. J., and M. G. Kivelson, Relations between polarization and the structure of ULF waves in the magnetosphere, *J. Geophys. Res.*, 89, 5523, 1984. (IGPP Pub. No. 2469). [4A0428](#)
81. Kivelson, M. G., and Z. -Y. Pu, The Kelvin-Helmholtz instability on the magnetopause, *Planet. Space Sci.*, 32 1335, 1984. (IGPP Pub. No. 2499). [84PSS321335](#)
82. Winterhalter, D., M. G. Kivelson, R. J. Walker, and C. T. Russell, The MHD Rankine-Hugoniot jump conditions and the terrestrial bow shock: A statistical comparison, *Adv. Space Res.*, 4(2-3), 287-292, 1984. (IGPP Pub. No. 2579). [84ASR4287](#)
83. Kivelson, M. G., and D. J. Southwood, Charged particle behavior in low frequency geomagnetic pulsations, 4. Compressional waves, *J. Geophys. Res.*, 90, 1486-1498, 1985a. (IGPP Pub. No. 2470). [4A1269](#)
84. Kivelson, M. G., and D. J. Southwood, Resonant ULF waves: A new interpretation, *Geophys. Res. Lett.*, 12, 49-52, 1985b. (IGPP Pub. No. 2596). [4L6378](#)
85. Linker, J. A., M. G. Kivelson, M. A. Moreno, and R. J. Walker, Explanation of the inward displacement of Io's hot plasma torus and consequences for sputtering sources, *Nature*, 315(6018), 373-378, 1985. (IGPP Pub. No. 2578). [85NAT315373](#)
86. Winterhalter, D., M. G. Kivelson, R. J. Walker, and C. T. Russell, Magnetic field change across the earth's bow shock: Comparison between observations and theory, *J. Geophys. Res.*, 90(A5), 3925-3933, 1985. (IGPP Pub. No. 2549). [JA090iA05p03925](#)
87. Wasson, J. T., and M. G. Kivelson, Introduction: The Sun, the solar nebula, and the planetary system, Chapter 1 in *The Solar System: Observations and Interpretations*, Rubey Volume IV (edited by M. G. Kivelson), 1986. [RubeyChapt1](#)
88. Kivelson, M. G., and G. Schubert, Atmospheres of the terrestrial planets, Chapter 6 in *The Solar System: Observations and Interpretations*, Rubey Volume IV (edited by M. G. Kivelson), 1986. [RubeyChapt6](#)
89. Kivelson, M. G., Future planetary exploration, Chapter 17 in *The Solar System: Observations and Interpretations*, Rubey Volume IV (edited by M. G. Kivelson), 1986.
90. Kivelson, M. G., editor, *The Solar System: Observations and Interpretations*, Rubey Volume IV, 1986.
91. Moreno, M. A., W. I. Newman, and M. G. Kivelson, Ion partitioning in the Io torus: The influence of SO<sub>2</sub> outgassing, *J. Geophys. Res.*, 90(A12) 12065-12072, 1985. (IGPP Pub. No. 2518). [4A8051](#)
92. Kivelson, M. G., and D. J. Southwood, Coupling of global magnetospheric MHD eigenmodes to field line resonances, *J. Geophys. Res.*, 91(A4), 4345-4351, 1986. (IGPP Pub. No. 2557). [5A8873](#)
93. Southwood, D. J., and M. G. Kivelson, The effect of parallel inhomogeneity on magnetospheric hydromagnetic wave coupling, *J. Geophys. Res.*, 91, 6871, 1986. (IGPP Pub. No. 2697). [5A8260](#)
94. Southwood, D. J., and M. G. Kivelson, Magnetospheric interchange instability, *J. Geophys. Res.*, 92, 109, 1987. [6A8530](#)
95. Kivelson, M. G., Report on dialogue session: "Injection boundary versus Alfvén layer models," in *Proc. of Chapman Conference on Magnetotail Physics*, (edited by A. Lui), 1987.
96. Spence, H. E., M. G. Kivelson, and R. J. Walker, Static magnetic field models consistent with nearly isotropic plasma pressure, *Geophys. Res. Letts.*, 14, 872, 1987. (IGPP Pub. No. 2955). [7L6555](#)
97. Khurana, K. K., M. G. Kivelson, T. P. Armstrong, and R. J. Walker, Voids in the Jovian magnetosphere revisited: Evidence of spacecraft charging, *J. Geophys. Res.*, 92, 13, 399, 1987. [6A8859](#)

98. Lin, N., R. L. McPherron, M. G. Kivelson, and D. J. Williams, An unambiguous determination of the propagation of a compressional Pc 5 wave, *J. Geophys. Res.*, *93*, 5601, 1988. (IGPP Pub. No. 3301). . [7A9350](#)
99. Zhu, X., and M. G. Kivelson, Analytic formulation and quantitative solutions of the coupled ULF wave problem *J. Geophys. Res.*, *93*, 8602, 1988. (IGPP Pub. No. 2911 or 3201). . [7A8926](#)
100. Winterhalter, D., and M. G. Kivelson, Observations of the earth's bow shock under high Mach number/high plasma beta solar wind conditions, *Geophys. Res. Letts.*, *15*, 1161, 1988. (IGPP Pub. No. 3086). [8L6764](#)
101. Kivelson, M. G., and D. J. Southwood, Hydromagnetic waves and the ionosphere, *Geophys. Res. Lett.*, *15*, 1271, 1988. (IGPP Pub. No. 3097). . [88GL03441](#)
102. Linker, J. A., M. G. Kivelson, and R. J. Walker, An MHD simulation of plasma flow past Io: Alfvén and slow mode perturbations, *Geophys. Res. Lett.*, *15*, 1311, 1988. (IGPP Pub. No. 3120). . [88GL03662](#)
103. Balogh, A., et al., The magnetic field investigation on Cluster, *European Space Agency (ESA) Publication SP-1103*, *15*, 1988.
104. Southwood, D. J., and M. G. Kivelson, Magnetospheric interchange motions, *J. Geophys. Res.*, *94*, 299, 1989. (IGPP Pub. No. 3046). [88JA03629](#)
105. Kivelson, M. G., and H. E. Spence, On the possibility of quasi-static convection in the quiet magnetotail, *Geophys. Res. Lett.*, *15*, 1501, 1988. (IGPP Pub. No. 3181). [88GL03940](#)
106. Lin, N., M. G. Kivelson, R. L. McPherron, D. J. Williams, and T. A. Fritz, Multi-point measurements of ULF wave phases using a multi-channel energetic ion detector, *Adv. Space Res.*, *8*, 437, 1988.
107. Zhu, X., and M. G. Kivelson, Global mode ULF pulsations in a magnetosphere with a nonmonotonic Alfvén velocity profile, (IGPP Pub. No. 3092). *J. Geophys. Res.*, *94*, 1479, 1989 . [88JA03797](#)
108. Spence, H. E., M. G. Kivelson, R. J. Walker, and D. J. McComas, Magnetospheric plasma pressures in the midnight meridian: Observations from 2.5 to 35 R<sub>E</sub>, (IGPP Pub. No. 3088). *J. Geophys. Res.*, *94*, 5264, 1989 [88JA04188](#)
109. Khurana, K. K., and M. G. Kivelson, Ultralow frequency MHD waves in Jupiter's middle magnetosphere, *J. Geophys. Res.*, *94*, 5241, 1989, (IGPP Pub. No. 3057). ]] [88JA04266](#)
110. Kivelson, M. G., and D. J. Southwood, Reply, *J. Geophys. Res.*, *94*, 2747, 1989. [JA094iA03p02747](#)
111. Spence, H. E., M. G. Kivelson, and R. J. Walker, Comparison of field-aligned currents at ionospheric and magnetospheric altitudes, *Advances in Space Research*, *8*, 343, 1988. (IGPP Pub. No. 3309). .
112. Linker, J. A., M. G. Kivelson, and R. J. Walker, The effect of mass loading on the temperature of a flowing plasma, *Geophys. Res. Lett.*, *16*, 763, 1989. (IGPP Pub. No. 3407). [89GL01160](#)
113. Khurana, K. K., and M. G. Kivelson, On jovian plasmashet structure, *J. Geophys. Res.*, *94*, 11,791, 1988. (IGPP Pub. No. 3125). [89JA00626](#)
114. Zhu, X. M., M. G. Kivelson, R. J. Walker, C. T. Russell, M. F. Thomsen, and D. J. McComas, ISEE-1,2 spacecraft study of an unusual flux transfer event, *Advances in Space Research*, *8*, 259, 1988 .
115. Kivelson, M. G., and W. J. Hughes, On the threshold for triggering substorms, *Planet. Space Sci.*, *38*, 211, 1990. (IGPP Pub. No. 3147). . [90PSS38211](#)
116. Southwood, D. J., and M. G. Kivelson, The magnetohydrodynamic response of the magnetospheric cavity to changes in solar wind pressure, *J. Geophys. Res.*, *95*, 2301, 1990. IGPP Pub. No. 3195). [89JA01368](#)
117. Spence, H. E., and M. G. Kivelson, The variation of the plasma sheet polytropic index along the midnight meridian in a finite width magnetotail, *Geophys. Res. Lett.*, *17*, 591, 1990. (IGPP Pub. No. 3589). [90GL00623](#)

118. Kivelson, M. G., and D. J. Southwood, Magnetopause pressure pulses as a source of localized field-aligned currents in the magnetosphere, p. 619 in *AGU Monograph 58, Physics of Magnetic Flux Ropes*, edited by C. T. Russell, E. R. Priest, and L. C. Lee, AGU, Washington, D.C., 1990. (IGPP Pub. No. 3243). [90GEOMONO58619](#)
119. Lin, N., R. J. Walker, R. L. McPherron, and M. G. Kivelson, Magnetic islands in the near geomagnetic tail and its implications for the mechanism of 1054 UT CDAW 6 substorm, p. 647 in *AGU Monograph 58, Physics of Magnetic Flux Ropes*, edited by C. T. Russell, E.R. Priest, and L. C. Lee, AGU, Washington, D.C., 1990. (IGPP Pub. No. 3255).
120. Hammond, C. M., R. J. Walker, and M. G. Kivelson, A pincer-shaped plasma sheet at Uranus, *J. Geophys. Res.*, 95, 14,987, 1990. (IGPP Pub. No. 3238). [JA095iA09P14987](#)
121. Kivelson, M. G. and D. J. Southwood, Ionospheric traveling vortex generation by solar wind buffeting of the magnetosphere, *J. Geophys. Res.*, 96, 1661, 1991. (IGPP Pub. No. 3318). [90JA01805](#)
122. Southwood, D. J., and M. G. Kivelson, An approximate description of field aligned currents in a planetary magnetic field, *J. Geophys. Res.*, 96, 67, 1991, (IGPP Pub. No. 3317). [90JA01806](#)
123. Engebretson, M.J., N. Lin, W. Baumjohann, B.J. Anderson, L.J. Zanetti, T.A. Potemra, C.T. Russell, R.L. McPherron, M.G. Kivelson, and H. Luehr, A comparison of ULF fluctuations in the solar wind, magnetosheath, and dayside magnetosphere, 1, magnetosheath morphology, *J. Geophys. Res.*, 96, 3441, 1991. (IGPP Pub. No. 3592). [90JA02101](#)
124. Lin, N., M.J. Engebretson, R.L. McPherron, M.G. Kivelson, H. Luehr, W. Baumjohann, C.T. Russell, T.A. Potemra, B.J. Anderson, and L.J. Zanetti, A comparison of ULF fluctuations in the solar wind, magnetosheath, and dayside magnetosphere, 2, field and plasma conditions in the magnetosheath, *J. Geophys. Res.*, 96, 3445, 1991. (IGPP Pub. No. 3593). [90JA02098](#)
125. Chen, S.-H., and M.G. Kivelson, On ultralow frequency waves in the lobes of the Earth's magnetotail.(IGPP Pub. No. 3364). *J. Geophys. Res.* 96, 15,711, 1991. [91JA01422](#)
126. Moreno, M. A., G. Schubert, J. Baumgardner, M. G. Kivelson, and D. A. Paige, Io's volcanic and sublimation atmospheres, (original title: Volcanic eruptions and the atmosphere of Io), *Icarus*, 93, 63, 1991. (IGPP Pub. No. 3044). [91ICARUS9363](#)
127. Kivelson, M.G., C. F. Kennel, R. L. McPherron, C. T. Russell, D. J. Southwood, R. J. Walker, C. M. Hammond, K. K. Khurana, R. J. Strangeway, and P. J. Coleman, Magnetic field studies of the solar wind interaction with Venus from the Galileo flyby, *Science*, 253, 1518, 1991. (IGPP Pub. No. 3462). [91Sci2531518](#)
128. Lin, N., R. L. McPherron, M. G. Kivelson, and R. J. Walker, Multi-point reconnection in the near-Earth magnetotail: CDAW 6 observations of energetic particles and magnetic field, *J. Geophys. Res.*, 96, 19427, 1991. (IGPP Pub. No. 3193). [91JA01952](#)
129. Zhu, X., and M.G. Kivelson, Compressional ULF waves in the outer magnetosphere: 1. Statistical study, *J. Geophysical Res.*, 96, 19,451, 1991. (IGPP Pub. No. 3343). [91JA01860](#)
130. Hameiri, E., and M. G. Kivelson, Magnetospheric waves and the atmosphere-ionosphere layer, *J. Geophys. Res.*, 96, 21125, 1991. (IGPP Pub. No. 3698). [91JA02129](#)
131. Linker, J.A., M.G. Kivelson, and R.J. Walker, A three-dimensional MHD simulation of plasma flow past Io, *J. Geophys. Res.*, 96, 21037, 1991. (IGPP Pub. No. 3699). [91JA02132](#)
132. Southwood, D. J., and M. G. Kivelson, On the form of the flow in the magnetosheath, *J. Geophys. Res.*, 97, 2873, 1992. (IGPP Pub. No. 3506). [91JA02446](#)
133. Angelopoulos, V., W. Baumjohann, C. F. Kennel, F. V. Coroniti, M. G. Kivelson, R. Pellat, R. J. Walker, H. Luhr, and G. Paschmann, Bursty bulk flows in the inner central plasma sheet, *J. Geophys. Res.*, 97, 4027, 1992. (IGPP Pub. No. 3884). [91JA02701](#)

134. Khurana, K. K., S. -H. Chen, C. M. Hammond, and M. G. Kivelson, Ultralow frequency waves in the magnetotail of Earth and the outer planets, *Adv. in Space Res.*, 12/8, 57, 1992. (IGPP Pub. No. 3397). [92ASR12857](#)
135. Hammond, C. M., M. G. Kivelson, and R. J. Walker, Phase space densities in the Uranian plasma sheet, *in Space Res.*, 12/8, 67, 1992. (IGPP Pub. No. 3885).
136. Kivelson, M. G., K. K. Khurana, J. D. Means, C. T. Russell and R. C. Snare, The Galileo Magnetic Field Investigation, (IGPP Pub. No. 3803). *Space Science Rev.*, 60, 357, 1992. [92SSR357](#)
137. Kivelson, M. G., and D. J. Southwood, Ionospheric signatures of localized magnetospheric perturbations, *J. Geomag. and Geoelectr.*, 43, 129-140, 1991. (IGPP Pub. No. 3398). [91JGG43129](#)
138. Angelopoulos, V., C. F. Kennel, F. V. Coroniti, R. Pellat, M. G. Kivelson, R. J. Walker, W. Baumjohann, G. Paschmann, and H. Luhr, Bursty bulk flows in the inner central plasma sheet: An effective means of earthward transport in the magnetotail, *Proc. Int. Conf. on Substorms*, Kiruna, Sweden, *ESA SP-335*, May 1992. (IGPP Pub. No. 3886). [92PICS303](#)
139. Khurana, K. K., and Margaret G. Kivelson, Inference of the angular velocity of plasma in the Jovian magnetosphere from the sweepback of magnetic field, (UCLA IGPP Pub. No. No. 3312). *J. Geophys. Res.*, 98, 67, 1993. [92JA01890](#)
140. Chen, S.-H., M.G. Kivelson, J.T. Gosling, R.J. Walker, and A.J. Lazarus, Anomalous aspects of magnetosheath flow and of the shape and oscillation of the magnetopause during an interval of strongly northward interplanetary magnetic field, (UCLA IGPP Pub. No. No. 3696). *J. Geophys. Res.*, 98, 5727, 1993. [92JA02263](#)
141. Southwood, D.J., and M.G. Kivelson, Mirror instability I: The physical mechanism of linear instability, (UCLA IGPP Pub. No. No. 3816). *J. Geophys. Res.*, 98, 9181, 1993. [92JA02837](#)
142. Kivelson, M.G., C. F. Kennel, R. L. McPherron, C. T. Russell, D. J. Southwood, R. J. Walker, K. K. Khurana, P. J. Coleman, C. M. Hammond, V. Angelopoulos, A. J. Lazarus, and R. P. Lepping, The Galileo Earth encounter: The magnetometer data and allied measurements, (UCLA IGPP Pub. No. No. 3744). *J. Geophys. Res.*, 98, 11,299, 1993. [92JA03001](#)
143. Southwood, D.J., and M.G. Kivelson, Vortex motion in the ionosphere and nonlinear transport, (UCLA IGPP Pub. No. 3757). *J. Geophys. Res.*, 98, 11, 459, 1993. [93JA00434](#)
144. Spence, H. E., and M. G. Kivelson, Contributions of the low-latitude boundary layer to the finite width magnetotail convection model, *J. Geophys. Res.*, 98, 15,487, 1993. (IGPP Pub. No. 4124). [93JA01531](#)
145. Angelopoulos, V., C. F. Kennel, F. V. Coroniti, R. Pellat, H. E. Spence, M. G. Kivelson, R. J. Walker, W. Baumjohann, W. C. Feldman, J. T. Gosling, C. T. Russell, Characteristics of ion flow in the quiet inner plasma sheet, (UCLA IGPP Pub. No. No. 4018). *Geophys. Res. Lett.*, 20, 1711, 1993. [93GL00847](#)
146. Kivelson, M. G., L. F. Bargatze, K. K. Khurana, D. J. Southwood, R. J. Walker, and P. J. Coleman, Jr., Magnetic signatures near Galileo's closest approach to Gaspra, (UCLA IGPP Pub. No. No. 3845). *Science*, 261, 331, 1993. [93Sci261331](#)
147. Frank, L. A., W. R. Paterson, and M. G. Kivelson, Galileo observations of the motions of ion and electron plasmas in the magnetotail, *Geophys. Res. Lett.*, 20, 1771, 1993. (IGPP Pub. No. 4125). [93GL01450](#)
148. Reeves, G. D., R. D. Belian, T. A. Fritz, M. G. Kivelson, R. W. McEntire, E. C. Roelof, B. Wilken, and D. J. Williams, Structured plasma sheet thinning observed by Galileo and 1984-129, *J. Geophys. Res.*, 98, 21,323, 1993. (IGPP Pub. No. 4126). [93JA02290](#)
149. Chen, S.-H., and M. G. Kivelson, On nonsinusoidal waves at the Earth's magnetopause, (UCLA IGPP Pub. No. No. 3965). *Geophys. Res. Lett.*, 20, 2699, 1993. [93GL02622](#)



150. Angelopoulos, V., C. F. Kennel, F. V. Coroniti, W. C. Feldman, J. T. Gosling, M. G. Kivelson, and R. J. Walker, Observations of a quasi-static plasma sheet boundary, (UCLA IGPP Pub. No. No. 4030). *Geophys. Res. Lett.*, 20, 2813, 1993. Plasma Physics ms. no. 6626). . [93GL01979](#)
151. Southwood, D. J. and M. G. Kivelson, Aspects in common of high latitude ionospheric vortex motions, *Adv. in Space Res.*, 14, 149, 1993. [ASR14149](#)
152. Zhu, X. and M. G. Kivelson, Compressional ULF waves in the outer magnetosphere: 2. A case study of Pc 5 wave activity, *J. Geophys. Res.*, 99, 241, 1994. [93JA02106](#)
153. Kivelson, M.G., S.-H. Chen, and D.J. Southwood, Consequences of magnetohydrodynamic processes for large scale flow in the magnetosheath, (IGPP Pub. No. 3822). *Adv. in Space*, 14, (7)95, 1994. [ASR14795](#)
154. Southwood, D.J., and M.G. Kivelson, Non-linear vortex motions in the high latitude ionosphere, p. 193 in *The Solar Wind-Magnetosphere System*, edited by H.K. Biernat, G.A. Bachmaier, S.J. Bauer, and R.P. Rijnbeek, Austrian Acad. Science, Graz, 1994. ] [AustAcadSci1931994](#)
155. Khurana, K.K., and M.G. Kivelson, A variable cross-section model of the bow shock of Venus, *J. Geophys. Res.*, 99, 8505, 1994. (IGPP Pub. No. 3904). [93JA03527](#)
156. Xu, D., and M.G. Kivelson, Polar cap field-aligned currents for southward interplanetary magnetic fields, *J. Geophys. Res.*, 99, 6067, 1994, (IGPP Pub. No. 3833). [93JA02697](#)
157. Hammond, C.M., M.G. Kivelson, and R.J. Walker, Imaging the effect of dipole tilt on magnetotail boundaries, *J. Geophys. Res.*, 99, 6079, 1994. (UCLA IGPP Pub. No.3667). 1993. [93JA01924](#)
158. Frank, L. A., W. R. Paterson, and M. G. Kivelson, Observations of nonadiabatic acceleration of ions in Earth's magnetotail, *J. Geophys. Res.*, 99, 14,877, 1994. [94JA00780](#)
159. Angelopoulos, V. C. F. Kennel, F. V. Coroniti, R. Pellat, M. G. Kivelson, R. J. Walker, C. T. Russell, W. Baumjohann, W. C. Feldman, and J. T. Gosling, Statistical characteristics of bursty bulk flow events, *J. Geophys. Res.* 99, 21,257, 1994. (IGPP Pub. No. 4236). [94JA01263](#)
160. Reeves, G.D., T.A. Fritz, R.D. Belian, R.W. McEntire, D.J. Williams E.C. Roelof, M.G. Kivelson, and B. Wilken, The structure and dynamics of the plasma sheet during the Galileo Earth-1 flyby, p. 149 in *AGU Monograph 84, Solar System Plasmas in Space and Time*, AGU, Washington, D.C., 1994. [Mono8414994](#)
161. Kivelson, M., Physics of space plasmas, in *Introduction to Space Physics*, edited by M. G. Kivelson and C. T. Russell, Cambridge U. Press, p. 27-57, 1995. [IntroSPchap2](#)
162. Kivelson, M., Pulsations and magnetohydrodynamic waves, in *Introduction to Space Physics*, edited by M. G. Kivelson and C. T. Russell, Cambridge U. Press, p. 330-355, 1995. [IntroSPchap11](#)
163. Hospodarsky, G. B., D. A. Gurnett, W. S. Kurth, M. G. Kivelson, R. J. Strangeway, and S. J. Bolton, Fine structure of Langmuir waves observed upstream of the bow shock at Venus, *J. Geophys. Res.*, 99, 13,363, 1994. (IGPP Pub. No. 4265). [94JA00868](#)
164. Frank, L.A., W.R. Paterson, K.L. Ackerson, S. Kokubun, M.G. Kivelson, T. Yamamoto, and D.H. Fairfield, Ion velocity distributions in the vicinity of the current sheet in earth's distant magnetotail, p. 99 in *Substorms 2, Proceedings of the Second International Conference on Substorms*, edited by J.R. Kan, J.D. Craven, and S.-I. Akasofu, University of Alaska Press, Fairbanks, Alaska, 1994. [IonVelDisFRANK](#)
165. Wang, Z., M.G. Kivelson, S. Joy, K.K. Khurana, C. Polanskey, D.J. Southwood, and R.J. Walker, Solar wind interaction with small bodies: 1. Whistler wing signatures near Galileo's closest approach to Gaspra and Ida, (IGPP Pub. No. 4193). *Adv. in Space Res.*, 16, 47, 1995. [ASR16471995](#)
166. Kivelson, M.G., Z. Wang, S. Joy, K.K. Khurana, C. Polanskey, D.J. Southwood, and R.J. Walker, Solar wind interaction with small bodies: 2. What can Galileo's detection of magnetic rotations tell us about Gaspra and Ida. (IGPP Pub. No. 4194). *Adv. in Space Res.*, 16, 59, 1995. [ASR16591995](#)

167. Kivelson, M.G., A. Prevost, F.V. Coroniti, K.K. Khurana, and D.J. Southwood, Galileo flybys of Earth: The nature of the distant shock, (IGPP Pub. No. 4192). *Adv. in Space Res.*, 16, 197, 1995. [ASR161971995](#)
168. Kivelson, M.G., K.K. Khurana, and Z. Wang, Models of flux ropes in the magnetotail, *Physics of Space Plasmas*, number 14, pp.287, 1995. (IGPP Pub. No. 4919). [PSP142871995](#)
169. Xu, D., M.G. Kivelson, R.J. Walker, P.T. Newell, and C.-I. Meng, Interplanetary magnetic field control of mantle precipitation and associated field-aligned currents, (IGPP Pub. No. 4143). *J. Geophys. Res.*, 100, 1837, 1995. [94JA02037](#)
170. Kivelson, M.G., Serendipitous science from flybys of secondary targets: Galileo at Venus, Earth, and Asteroids; Ulysses at Jupiter, (IGPP Pub No. 4184). *US National Report to the IUGG (1991-1994)*, p. 565-575, 1995. [95RG00494](#)
171. Southwood, D.J., and M.G. Kivelson, The formation of slow mode fronts in the magnetosheath, p. 109 in *AGU Monograph 90, Physics of Magnetopause*, edited by P. Song and B.U.O. Sonnerup, (IGPP Pub. No. 4168). AGU, Washington, D.C., 1995. [Mono90109](#)
172. Kivelson, M.G., and S.-H. Chen, The magnetopause: Surface waves and instabilities and their possible dynamical consequences, p. 257 in *AGU Monograph 90, Physics of Magnetopause*, edited by P. Song and B.U.O. Sonnerup, (IGPP Pub. No. 4173). AGU, Washington, D.C., 1995. [Mono90257](#)
173. Khurana, K. K., M. G. Kivelson, L. A. Frank, and W. R. Paterson, Observations of magnetic flux ropes and associated currents in Earth's magnetotail with the Galileo spacecraft, (IGPP Pub. No. 4217). *Geophys. Res. Lett.*, 22, 2087, 1995. [95GL01518](#)
174. Southwood, D.J., and M.G. Kivelson, Magnetosheath flow near the subsolar magnetopause: Zwan-Wolf and Southwood-Kivelson theories reconciled, (IGPP Pub. No. 4285). *Geophys. Res. Lett.*, 22, 3275, 1995. [95GL03131](#)
175. Kivelson, M. G. and K. K. Khurana, Models of flux ropes embedded in a Harris neutral sheet: Force free solutions in low and high beta plasmas, (UCLA IGPP Pub. No. 4244). *J. Geophys. Res.*, 100, 23,637, 1995. [95JA01548](#)
176. Khurana, K. K., M. G. Kivelson, and L. A. Frank, The relationship of magnetic flux ropes to substorms, (IGPP Pub. No. 4216). *Adv. Space Res.*, 18, 59, 1995. [ASR185995](#)
177. Kepko, E. L., K. K. Khurana, and M. G. Kivelson, Accurate determination of magnetic field gradients from four point vector measurements: 1. Use of natural constraints on vector data obtained from a single spinning spacecraft, (IGPP Pub. No. 4281). *IEEE Transactions on Magnetics*, 32, 377, 1996. [IEEE32377](#)
178. Angelopoulos, V., F. V. Coroniti, C. F. Kennel, M. G. Kivelson, R. J. Walker, C. T. Russell, R. L. McPherron, E. Sanchez, E.-I. Meng, W. Baumjohann, G. D. Reeves, R. D. Belian, N. Sato, E. Friis-Christensen, P. R. Sutcliffe, K. Yumoto, and T. Harris, Multi-point analysis of bursty bulk flow events: I. April 11, 1985, *J. Geophys. Res.*, 101, 4967, 1996. (IGPP Pub. No. 4635). [95JA02722](#)
179. Huddleston, D.E., C.T. Russell, M.G. Kivelson, and J.G. Luhmann, Time delays in the solar wind flow past Venus: Galileo - Pioneer Venus correlations, *JGR Planets (Special Issue)*, 101, 4539, 1996. (IGPP Pub. No. 4619). [95JE02774](#)
180. Kivelson, M.G., K.K. Khurana, R.J. Walker, J.A. Linker, C.T. Russell, D.J. Southwood, and C. Polanskey, A magnetic signature at Io: Initial report from the Galileo magnetometer, *Science*, 273, 337, 1996. (IGPP Pub. No. 4627). [Sci273337](#)
181. Kivelson, M.G., K.K. Khurana, R.J. Walker, J. Warnecke, C.T. Russell, J.A. Linker, D.J. Southwood, and C. Polanskey, Io's interaction with the plasma torus: Galileo magnetometer report, *Science*, 274, 396, 1996. (IGPP Pub. No. 4650). [Sci274396](#)
182. Grun, E., M. Baguhl, D. Hamilton, R. Riemann, H.A. Zook, S. Dermott, H. Fechtig, B.A. Gustafson, M.S. Hanner, M. Horanyi, K.K. Khurana, J. Kissel, M. Kivelson, B.A. Lindblad, D. Linkert, G. Linkert, I. Mann, J.A.M. McDonnell, G.E. Morfill, C. Polanskey, G. Schwehm, and R. Srama, Constraints from Galileo observations on the origin of jovian dust streams, *Nature*, 381, 395, 1996. (IGPP Pub. No. 4812). [N381395a0](#)

183. Khurana, K.K., E.L. Kepko, M.G. Kivelson, and R.C. Elphic, Accurate determination of magnetic field gradients from four point vector measurements: 2. Use of natural constraints on vector data obtained from four spinning spacecraft, *IEEE Transactions on Magnetics*, 32, 5193, 1996. (IGPP Pub. No. 4088). [IEEE32519396](#)
184. Kivelson, M.G. and D.J. Southwood, Mirror instability II: The mechanism of non-linear saturation, *J. Geophys. Res.*, 101, 17,365, 1996. (UCLA IGPP Pub. No. 4917). [96JA01407](#)
185. Kivelson, M.G., and D.J. Southwood, ULF waves: A tribute to Valeria Troitskaya, *EOS*, 77, 417, 1996. (IGPP Pub. No. 4813). [vtag0528](#)
186. Kivelson, M.G., K.K. Khurana, R.J. Walker, L. Kepko, and D. Xu, Flux ropes, interhemispheric conjugacy, and magnetospheric current closure, *J. Geophys. Res.*, 101, 27,341, 1996. (IGPP Pub. No. 4572). [96JA02220](#)
187. Newell, P.T., D. Xu, C.I. Meng, and M.G. Kivelson, The dynamical polar cap: A unifying approach, *J. Geophys. Res.*, 102, 127, 1997. (IGPP Pub. No. 4819). [[  
[96JA03045](#)
188. Schubert, G., K. Zhang, M.G. Kivelson, and J.D. Anderson, The magnetic field and internal structure of Io and Ganymede, *Nature*, 384, 544, 1996. (UCLA IGPP Pub. No. No. 4707). [N384544a0](#)
189. Kivelson, M.G., K.K. Khurana, C.T. Russell, R.J. Walker, J. Warnecke, F.V. Coroniti, C. Polanskey, D.J. Southwood, and G. Schubert, Discovery of Ganymede's magnetic field by the Galileo spacecraft, *Nature*, 384, 537, 1996. (IGPP Pub. No. 4652). [[  
[N384537](#)
190. Wang, Z. and M.G. Kivelson, Asteroid interaction with the solar wind, *J. Geophys. Res.*, 101, 24,479, 1996. (IGPP Pub. No. 4918). [96JA02019](#)
191. Kivelson, M.G., K.K. Khurana, S. Joy, C.T. Russell, R.J. Walker, and C. Polanskey, Europa's magnetic signature: Report from Galileo's first pass on December 19, 1996, *Science*, 276, 1239, 1997. (IGPP Pub. No. 4864). [Sci2761239](#)
192. Khurana, K.K., M.G. Kivelson, C.T. Russell, R.J. Walker, and D.J. Southwood, Absence of an internal magnetic field at Callisto, *Nature*, 387, 262, 1997. (IGPP Pub. No. 4844). [N387262a0](#)
193. Kivelson, M.G., K.K. Khurana, C.T. Russell, and R.J. Walker, Intermittent short-duration plasma-field anomalies in the Io plasma torus: Evidence for interchange in the Io plasma torus?, *Geophys. Res. Lett.*, 24, 2127, 1997. (IGPP Pub. No. 4851). [97GL02202](#)
194. Thorne, R.M., D.J. Williams, R.W. McEntire, T.P. Armstrong, S. Stone, S. Bolton, D.A. Gurnett, and M.G. Kivelson, Galileo evidence for rapid interchange transport in the Io Torus, *Geophys. Res. Lett.*, 24, 2131, 1997. [97GL01788](#)
195. Huddleston, D.E., R.J. Strangeway, J. Warnecke, C.T. Russell, M.G. Kivelson, and F. Bagenal, Ion cyclotron waves in the Io torus during the Galileo encounter: Warm plasma dispersion analysis, *Geophys. Res. Lett.*, 24, 2143, 1997. (IGPP Pub. No. 4898). [97GL01203](#)
196. Warnecke, J., M.G. Kivelson, K.K. Khurana, D.E. Huddleston, and C.T. Russell, Ion cyclotron waves observed at Galileo's Io encounter: Implications for neutral cloud distribution and plasma composition, *Geophys. Res. Lett.*, 24, 2139, 1997. (IGPP Pub. No. 4852). [97GL01129](#)
197. Kivelson, M.G., K.K. Khurana, F.V. Coroniti, S. Joy, C.T. Russell, R.J. Walker, J. Warnecke, L. Bennett, and C. Polanskey, The magnetic field and magnetosphere of Ganymede, *Geophys. Res. Lett.*, 24, 2155, 1997. (IGPP Pub. No. 4865). [97GL02201](#)
198. Stellmacher, M., K.-H. Glassmeier, R.L. Lysak, and M.G. Kivelson, Field line resonances in discretized magnetospheric models: An artifact study, *Ann., Geophysicae*, 15, 614, 1997. (IGPP Pub. No. 5001). [AG1561497](#)
199. Khurana, K.K., M.G. Kivelson, and C.T. Russell, Interaction of Io with its torus: Does Io have an internal magnetic field?, *Geophys. Res. Lett.*, 24, 2391, 1997. (IGPP Pub. No. 4866). [97GL02507](#)

200. Kivelson, M.G., K.K. Khurana, C.T. Russell, R.J. Walker, P.J. Coleman, F.V. Coroniti, J. Green, S. Joy, R.L. McPherron, C. Polanskey, D.J. Southwood, L. Bennett, J. Warnecke, and D.E. Huddleston, Galileo at Jupiter: Changing states of the magnetosphere and first look at Io and Ganymede, *Adv. Space Res.*, 20, 193, 1997. (IGPP Pub. No. 4576). [ASR20193](#)
201. Bennett, L., M.G. Kivelson, K.K. Khurana, L.A. Frank, and W. Paterson, A model of the earth's distant bow shock, *J. Geophys. Res.*, 102, 26,927, 1997. (IGPP Pub. No. 4860). [97JA01906](#)
202. Southwood, D.J., and M.G. Kivelson, Frequency doubling in ultralow frequency wave signals, *J. Geophys. Res.*, 102, 27,151, 1997. (IGPP Pub. No. 4874). [97JA02534](#)
203. Kivelson, M.G., M. Cao, R.L. McPherron, and R.J. Walker, A possible signature of magnetic cavity mode oscillations in ISEE spacecraft observations, *J. Geomagnetism and Geoelectricity*, 49, 1079, 1997. (IGPP Pub. No. 3831). [JGeoGeo491079](#)
204. Southwood, D.J., and M.G. Kivelson, The magnetic fields of the Galilean moons of Jupiter: The Galileo spacecraft magnetometer results, *The Three Galileos: The Man, The Spacecraft, The Telescope*, 299, 1997. (IGPP Pub. No. 4875). [threegalileos299](#)
205. Balogh, A., M.W. Dunlop, S.W.H. Cowley, D.J. Southwood, J.G. Thomlinson, K.H. Glassmeier, G. Musmann, H. Luhr, S. Buchert, M.H. Acuna, D.H. Fairfield, J.A. Slavin, W. Riedler, K. Schwingenschuh, and M.G. Kivelson, The Cluster Magnetic Field Investigation, *Space Sci. Rev.*, 79, 65, 1997. (Also in *The Cluster and Phoenix Missions*, (edited by C.P. Escoubet, C.T. Russell, and R. Schmidt) Kluwer Academic Publishers, Belgium, pp. 65, 1997. [SSR79651997](#)
206. Ogino T., R.J. Walker, and M.G. Kivelson, A global magnetohydrodynamic simulation of the Jovian magnetosphere, *J. Geophys. Res.*, 103, 225, 1998. (IGPP Pub. No. 4649). [97JA02247](#)
207. Khurana, K.K., E.L. Kepko, and M.G. Kivelson, Measuring magnetic field gradients from four point vector measurements in space, *AGU Monograph 103*, Measurement Techniques in Space Plasmas: Fields, 311, 1998. (UCLA IGPP Pub. No. No. 4602). [Mono103311](#)
208. Hull, A.J., J.D. Scudder, L.A. Frank, W. Paterson, and M.G. Kivelson, Electron heating and phase space signatures in collisionless shocks of different strengths and geometries, *J. Geophys. Res.*, 103, 2041, 1998. (IGPP Pub. No. 4815). [97JA03058](#)
209. Russell, C.T., K.K. Khurana, D.E. Huddleston, and M.G. Kivelson, Localized reconnection in the near Jovian magnetotail, *Science*, 280, 1061, 1998. (IGPP Pub. No. 5100). [Sci2801061](#)
210. Huddleston, D.E., C.T. Russell, M.G. Kivelson, K.K. Khurana, and L. Bennett, Location of the Jovian magnetopause and bow shock: Galileo initial results, *Adv. Space Res.*, 21, 1463, 1998. (IGPP Pub. No. 4899). [ASR211463](#)
- 210a. Huddleston, D.E., C.T. Russell, M.G. Kivelson, K.K. Khurana, and L. Bennett, Location and shape of the Jovian magnetopause and bow shock, *J. Geophys. Res.*, 103, 20,075, 1998. [98JE00394](#)
211. Linker, J.A., K.K. Khurana, M.G. Kivelson, and R.J. Walker, MHD simulations of Io's interaction with the plasma torus, *Geophys. Res.*, 103, 19,867, 1998. (IGPP Pub. No. 5011). [98JE00632](#)
212. Huddleston, D.E., R.J. Strangeway, J. Warnecke, C.T. Russell, and M.G. Kivelson, Ion cyclotron waves in the Io torus: Wave dispersion, free energy analysis, and SO<sub>2</sub><sup>+</sup> source rate estimates, *J. Geophys. Res.*, 103, 19,887, 1998. (IGPP Pub. No. 4949). [97JE03557](#)
213. Kivelson, M.G., J. Warnecke, L. Bennett, S. Joy, K.K. Khurana, J.A. Linker, C.T. Russell, R.J. Walker, and C. Polanskey, Ganymede's magnetosphere: Magnetometer overview, *J. Geophys. Res.*, 103, 19,963, 1998. (IGPP Pub. No. 4931). [98JE00227](#)
214. Kivelson, M.G., and F. Bagenal, Planetary magnetospheres, *The Encyclopedia of the Solar System*, P. Weissman, L.-A. McFadden, and T. Johnson, Eds.-in-Chief, Academic Press, pp. 477, 1998. (IGPP Pub. No. 4857). [EncyPlanMag](#)



215. Hesse, M., and M.G. Kivelson, The formation and structure of flux ropes in the magnetotail, *AGU Monograph*, New Perspective on the Earth's Magnetotail, 105, 139, 1998. (IGPP Pub. No. 4873). [Mono105139](#)
216. Khurana, K. K., J.A. Linker, M.G. Kivelson, and C.T. Russell, Alfvén wing currents at Io: Reply to comments by F.M. Neubauer, *Geophys. Res. Lett.*, 25, 2351, 1998. (IGPP Pub. No. 5079). [98GL01586](#)
217. Khurana, K.K., M.G. Kivelson, D.J. Stevenson, G. Schubert, C.T. Russell, R.J. Walker, S. Joy, C. Polanskey, Induced magnetic fields as evidence for subsurface oceans in Europa and Callisto, *Nature*, 395, 777, 1998c. (IGPP Pub. No. 5306). [N395777](#)
218. Russell, C.T., D.E. Huddleston, K.K. Khurana, and M.G. Kivelson, The fluctuating magnetic field in the middle Jovian magnetosphere: Initial Galileo observations, *Planet. Space Sci.*, 47, 133, 1999. (IGPP Pub. No. 5262). [PSS47133](#)
219. Russell, C.T., M.G. Kivelson, K.K. Khurana, and D.E. Huddleston, Magnetic fluctuations close to Io: Ion cyclotron and mirror mode wave properties, *Planet. Space Sci.*, 47, 143, 1999. (IGPP Pub. No. 5250). [PSS47143](#)
220. Kivelson, M.G., K.K. Khurana, D.J. Stevenson, L. Bennett, S. Joy, C.T. Russell, R.J. Walker, C. Zimmer, and C. Polanskey, Europa and Callisto: Induced or intrinsic fields in a periodically varying plasma environment, *J. Geophys. Res.*, 104, 4609, 1999. (IGPP Pub. No. 5086). [1998JA900095](#)
221. Russell, C.T., D.E. Huddleston, K.K. Khurana, and M.G. Kivelson, Observations at the inner edge of the Jovian current sheet: Evidence for a dynamic magnetosphere, *Planet. Space Sci.*, 47, 521, 1999. (IGPP Pub. No. 5267). [PSS47521](#)
222. Volwerk, M., M.G. Kivelson, K.K. Khurana, and R.L. McPherron, Probing Ganymede's magnetosphere with field line resonances, *J. Geophys. Res.*, 104, 14,729, 1999. (IGPP Pub. No. 5105). [1999JA900161](#)
223. Huddleston, D.E., R.J. Strangeway, X. Blanco-Cano, C.T. Russell, M.G. Kivelson, and K.K. Khurana, Mirror mode structures at the Galileo-Io flyby: Instability criterion and dispersion analysis, *J. Geophys. Res.*, 104, 17,479, 1999. (IGPP Pub. No. 5072). [1999JA900195](#)
224. Russell, C.T., D.E. Huddleston, K.K. Khurana, and M.G. Kivelson, Structure of the Jovian magnetodisk current sheet: Initial Galileo observations, *Planet. Space Sci.*, 47, 1101, 1999. (IGPP Pub. No. 5423). [PSS471101](#)
225. Kepko, L., and M.G. Kivelson, Generation of Pi 2 pulsations by bursty bulk flows, *J. Geophys. Res.*, 104, 25,021, 1999. [1999JA900361](#)
226. Woch, J., N. Krupp, K.K. Khurana, M.G. Kivelson, A. Roux, S. Perraut, P. Louarn, A. Lagg, D.J. Williams, S. Livi, and B. Wilken, Plasma sheet dynamics in the Jovian magnetotail: Signatures for substormlike processes? *Geophys. Res. Lett.*, 14, 2137, 1999. [1999GL900493](#)
227. Russell, C.T., D.E. Huddleston, R.J. Strangeway, X. Blanco-Cano, M.G. Kivelson, K.K. Khurana, L.A. Frank, W. Paterson, D.A. Gurnett, and W.S. Kurth, Mirror mode structures at the Galileo Io flyby: Observations, *J. Geophys. Res.*, 104, 17,471, 1999. (IGPP Pub. No. 5343). [1999JA900202](#)
228. Kivelson, M.G., Jupiter magnetic field and particles, in Report of Commission 16, Reports on Astronomy, Vol. XXIVA, 21, 1999.
229. Russell, C.T., and M.G. Kivelson, Detection of SO in Io's exosphere, *Science*, 287, 1998, 2000. (IGPP Pub. No. 5510). [Sci2871998](#)
230. Russell C. T., M.G. Kivelson, W.S. Kurth, and D.A. Gurnett, Implications of depleted flux tubes in the Jovian magnetosphere, *Geophys. Res. Lett.* 27, 3133, 2000. (IGPP Pub. No. 5535). [2000GL003815](#)
231. Kivelson, M.G., Currents and flow in distant magnetospheres, in *Magnetospheric Current Systems*, S. Ohtani, editor, AGU Monograph 118, pp. 339, 2000. (IGPP Pub. No. 5426). [Mono118339](#)
232. Eviatar, A., D.J. Williams, C. Paranicas, R.E. McEntire, B.M. Mauk, and M.G. Kivelson, Trapped energetic electrons in the magnetosphere of Ganymede, *J. Geophys. Res.*, 105, 5547, 2000. (IGPP Pub. No. 6108). [1999JA900450](#)

233. Kivelson, M.G., K.K. Khurana, C.T. Russell, M. Volwerk, R.J. Walker, and C. Zimmer, Galileo magnetometer measurements strengthen the case for a subsurface ocean at Europa, *Science*, 289, 1340, 2000. (IGPP Pub. No. 5461). [Sci2891340](#)
234. Zimmer, C., K.K. Khurana, and M.G. Kivelson, Subsurface oceans on Europa and Callisto: Constraints from Galileo magnetometer observations, *ICARUS*, 147, 329, 2000. (IGPP Pub. No. 5422). [ICRUS147329](#)
235. Korotova, G.I., M.G. Kivelson, D.G. Sibeck, T.A. Potemra, and P. Stauning, Multipoint observations of global magnetospheric compressions, *J. Geophys. Res.*, 105, 23,293, 2000. (IGPP Pub. No. 6109). [1999JA000388](#)
236. Russell, C.T., K.K. Khurana, M.G. Kivelson, and D.E. Huddleston, Substorms at Jupiter: Galileo observations of transient reconnection in the near tail, *Adv. Space Res.*, 26, 1499, 2000. (IGPP Pub. No. 5522). [ASR261499](#)
237. Russell, C.T., D.E. Huddleston, K.K. Khurana, and M.G. Kivelson, Waves and fluctuations in the Jovian magnetosphere, *Adv. Space Res.*, 26, 1489, 2000. (IGPP Pub. No. 5526). [ASR261489](#)
238. Huddleston, D.E., R.J. Strangeway, X. Blanco-Cano, C.T. Russell, M.G. Kivelson, and K.K. Khurana, Io - Jupiter interaction: Waves generated by pickup ions, *Adv. Space Res.*, 26, 1513, 2000. (IGPP Pub. No. 5521). [ASR261513](#)
239. Russell, C.T., M.G. Kivelson, K.K. Khurana, and D.E. Huddleston, Circulation and dynamics in the Jovian magnetosphere, *Adv. Space Res.*, 26, 1671, 2000. (IGPP Pub. No. 5523). [ASR261671](#)
240. Southwood, D.J., and M.G. Kivelson, Relationships between phase structure and energy flux in magnetohydrodynamic waves in the magnetosphere, *J. Geophys. Res.*, 105, 27,701, 2000. (IGPP Pub. No. 5479). [2000JA000261](#)
241. Kepko, L., M.G. Kivelson, and K. Yumoto, Flow burst, braking, and Pi2 pulsations, *J. Geophys. Res.*, 106, 1903, 2001. (IGPP Pub. No. 5473). [2000JA000158](#)
242. Walker, R.J., T. Ogino, and M.G. Kivelson, Magnetohydrodynamic simulations of the effects of the solar wind on the Jovian magnetosphere, *Planet. Space Sci.*, 49, 237, 2001. (IGPP Pub. No. 5444). [PSS49237](#)
243. Prange, R., G. Chagnon, M.G. Kivelson, T.A. Livengood, and W. Kurth, Temporal monitoring of Jupiter's auroral activity with IUE during the Galileo mission, implications for magnetospheric processes, *Planetary Space Sci.*, 49, 405, 2001. [PSS49405](#)
244. Southwood, D.J., and M.G. Kivelson, A new perspective concerning the influence of the solar wind on the Jovian magnetosphere, *J. Geophys. Res.*, 106, 6123, 2001. (IGPP Pub. No. 5480). [2000JA000236](#)
245. Russell, C.T., Z.J. Yu, and M.G. Kivelson, The rotation period of Jupiter, *Geophys. Res. Lett.*, 28, 1911, 2001. (IGPP Pub. No. 5689). [2001GL012917](#)
246. Southwood, D.J., and M.G. Kivelson, Damping standing Alfvén waves in the magnetosphere, *J. Geophys. Res.*, 106, 10,829, 2001. (IGPP Pub. No. 5488). [2000JA000343](#)
247. Thompson, S.M., and M.G. Kivelson, New evidence for the origin of giant pulsations, *J. Geophys. Res.*, 106 21,237, 2001. (IGPP Pub. No. 5589). [2001JA000026](#)
248. Green, J., and M.G. Kivelson, A tale of two theories: How the adiabatic response and ULF waves affect relativistic electrons, *J. Geophys. Res.*, 106, 25,777, 2001. (IGPP Pub. No. 5606). [2001JA000054](#)
249. Volwerk, M., M.G. Kivelson, and K.K. Khurana, Wave activity in Europa's wake: implications for ion pick-up, *J. Geophys. Res.*, 106, 26,033, 2001. (IGPP Pub. No. 5487). [2000JA000347](#)
250. Kivelson, M.G., K.K. Khurana, C.T. Russell, M. Volwerk, S.P. Joy, R.J. Walker, C. Zimmer, and J.A. Linker, Magnetized or unmagnetized: Ambiguity persists following Galileo's encounters with Io in 1999 and 2000, *J. Geophys. Res.*, 106, 26,121, 2001. (IGPP Pub. No. 5492). [2000JA002510](#)
251. Louarn, P.; Mauk, B. H.; Kivelson, M. G.; Kurth, W. S.; Roux, A.; Zimmer, C.; Gurnett, D. A., Williams, D. J., A multi-instrument study of a Jovian magnetospheric

- disturbance *J. Geophys. Res.*, 106, 29,883, 2001. (IGPP Pub. No. 6111). [2001JA900067](#)
252. Russell, C.T., P.D. Fieseler, D. Bindshadler, Z.J. Yu, S.P. Joy, K.K. Khurana, and M.G. Kivelson, Large scale changes in the highly energetic charged particles in the region of the Io torus, *Adv. Space Res.*, 28, 1495, 2001. (IGPP Pub. No. 5730). [ASR281495](#)
253. Russell, C.T., and M.G. Kivelson, Identification of sulfur compounds in Io's exosphere, *Adv. Space Res.*, 28, 1463, 2001. (IGPP Pub. No. 5732). [ASR281463](#)
254. Blanco-Cano, X., C.T. Russell, R.J. Strangeway, M.G. Kivelson, and K.K. Khurana, Galileo observations of Ion cyclotron waves in the Io torus, *Adv. Space Res.*, 28, 1469, 2001. (IGPP Pub. No. 5741). [ASR281469](#)
255. Russell, C.T., Z.J. Yu, K.K. Khurana, and M.G. Kivelson, Magnetic field changes in the inner magnetosphere of Jupiter, *Adv. Space Res.*, 28, 897, 2001. (IGPP Pub. No. 5733). [ASR28897](#)
256. Russell, C.T. and M.G. Kivelson, Evidence for Sulfur Dioxide, Sulfur Monoxide, and Hydrogen Sulfide in the Io Exosphere, *J. Geophys. Res.*, 106(E12), 33,267, 2001. (IGPP Pub. No. 5749). [2000JE001342](#)
257. Kivelson, M., and C.T. Russell, *Introduction to Space Physics*, (amended & translated into Chinese), Science Press, Beijing, 2001. (IGPP Pub. No. 5748).
258. Russell, C.T., M.G. Kivelson, W.S. Kurth, and D.A. Gurnett, Depleted magnetic flux tubes a probes of the Io torus plasma, *Adv. Space Res.*, 28(10), 1489, 2001. (IGPP Pub. No. 5731). [ASR28101489](#)
259. Khurana, K.K., M.G. Kivelson, and C.T. Russell, Searching for liquid water in Europa by using surface observations, *Astrobiology Journal*, 2, 93, 2002. (IGPP Pub. No. 5721). [Astro2932002](#)
260. Kurth, W.S., D.A. Gurnett, G.B. Hospodarsky, W.M. Farrell, A. Roux, M.K. Dougherty, S.P. Joy, M.G. Kivelson, R.J. Walker, F.J. Crary, and C.J. Alexander, The dusk flank of Jupiter's magnetosphere, *Nature*, 415, 991, 2002. (IGPP Pub. No. 6107). [N415991](#)
261. Kivelson, M.G., K.K. Khurana, and M. Volwerk, The permanent and inductive magnetic moments of Ganymede, *Icarus* 157(2), 507, 2002. (IGPP Pub. No. 5562). [ICRUS1572507](#)
262. Kivelson, M. G., K. K. Khurana, and R. J. Walker, Sheared magnetic field structure in Jupiter's dusk magnetosphere: Implications for return currents, *J. Geophys. Res.*, 107(A7), 10.1029/2001JA000251, 2002. (IGPP Pub. No. 5680). [2001JA000251](#)
263. Joy, S. P., M. G. Kivelson, R. J. Walker, K. K. Khurana, C. T. Russell, and T. Ogino, Probabilistic models of the Jovian magnetopause and bow shock locations, *J. Geophys. Res.*, 107(0), 10.1029/2001JA009146, 2002. (IGPP Pub. No. 5704). [2001JA009146](#)
264. Kivelson, M.G., and K.K. Khurana, Properties of the magnetic field in the Jovian magnetotail, *J. Geophys. Res.*, 107(A8), 10.1029/2001JA000249, 2002. (IGPP Pub. No. 5679 or 6113). [2001JA000249](#)
265. Volwerk, M., M.G. Kivelson, K.K. Khurana, and C. Zimmer, Discovery of water on the Galilean satellites by the Galileo magnetometer, Proceedings of the Second European Workshop on Exo/Astrobiology, Graz, Austria, pp. 565, Sept. 2002. (IGPP Pub. No. 6114). [PSEWEA565](#)
266. McPherron, R.L., M.G. Kivelson, K.K. Khurana, O. Amm, J.B. Baker, A. Balogh, H. Reme, M. Connors, F. Creutzberg, I. Dandouras, I. Mann, D. Milling, M.B. Moldwin, G. Rostoker, C.T. Russell, and H. Singer, Cluster Observations of the Postmidnight Plasma Sheet at 18  $R_e$  during Substorms, in *Proc. of International Conference*

- Substorms-6 (ICS6)*, pp. 283-290, University of Washington, Seattle, Washington, 2002. (IGPP Pub. No. 5888 or 6089 or 6115). [McPics6](#)
267. Russell, C.T., X-Blanco-Cano, and M.G. Kivelson, Ion cyclotron waves in Io's wake region, *Planetary Space Sci.*, 51, 233, 2003. (IGPP Pub. No. 5796 or 5810). [PSS51233](#)
268. Russell, C.T., X. Blanco-Cano, Y.L. Wang, and M.G. Kivelson, Ion cyclotron waves at Io: Implications for the temporal variation of Io's atmosphere, *Planet. Space Sci.*, 51, 937, 2003. (IGPP Pub. No. 6102). [PSS51937](#)
269. Slavin, J.A., R.P. Lepping, J. Gjerloev, M.L. Goldstein, D.H. Fairfield, M.H. Acuna, A. Balogh, M. Dunlop, M.G. Kivelson, K. Khurana, A. Fazakerley, C.J. Owen, H. Reme and J.M. Bosqued, Cluster electric current density measurements within a magnetic flux rope in the plasma sheet, *Geophys. Res. Lett.*, 30, 1362, 2003. (IGPP Pub. No. 6117). [2002GL016411](#)
270. Kivelson, M.G., and D.J. Southwood, First evidence of IMF control of Jovian magnetospheric boundary locations: Cassini and Galileo magnetic field measurements compared, *Planetary and Space Science*, 51, 891, 2003. (IGPP Pub. No. 5767). [PSS51891](#)
271. Green, J.C., and M.G. Kivelson, Relativistic electrons in the outer radiation belt: Differentiating between acceleration mechanisms, *J. Geophys. Res.*, Vol. 109, No. A3, A03213, 10.1029/2003JA010153, 2004. (IGPP Pub. No. 5805 or 5808). [2003JA010153](#)
272. Kivelson, M.G., Moon-magnetosphere interactions: a tutorial, *Adv. Space Res.*, 33, 2061, 2004. (IGPP Pub. No. 5804). [ASR332061](#)
273. Thompson, S.M., M.G. Kivelson, K.K. Khurana, A. Balogh, H. Reme, A. Fazakerley, L. Kistler, Cluster observations of quasi-periodic impulsive signatures in the dayside northern lobe: High latitude flux transfer events?, *J. Geophys. Res.*, 109, A02213, 2004. (IGPP Pub. No. 5803 or 5122). [2003JA010138](#)
274. Zhang, T.L., K.K. Khurana, C.T. Russell, M.G. Kivelson, R. Nakamura, and W. Baumjohann, On the venus bow shock compressibility, *Adv. Space Res.*, 33, 1920, 2004. [ASR331920](#)
275. Kepko, L., M.G. Kivelson, and R.L. McPherron, Relative timing of substorm onset phenomena, *J. Geophys. Res.*, 109, A04203, 2004. (IGPP Pub. No. 5809). [2003JA010285](#)
276. Schilling, N., K.K. Khurana, and M.G. Kivelson, Limits on an intrinsic dipole moment in Europa, *J. Geophys. Res.*, 109, E05006, 2004. (IGPP Pub. No. 5820). [2003JE002166](#)
277. Kivelson, M.G., F. Bagenal, W.S. Kurth, F.M. Neubauer, C. Paranicas, and J. Saur, Chapter 21 – Magnetospheric interactions with satellites, in *Jupiter: The Planet, Satellites and Magnetosphere*, edited by F. Bagenal, T. Dowling and W. McKinnon, Cambridge Univ. Press, 513, 2004. (IGPP Pub. No. 6118). [CH21](#)
278. Saur, J., F. M. Neubauer, J. E. P. Connerney, P. Zarka, and M. G. Kivelson, Chapter 22, Plasma interaction of Io with its plasma torus, in *Jupiter: The Planet, Satellites and Magnetosphere*, edited by F. Bagenal, T. Dowling and W. McKinnon, Cambridge Univ. Press, 537, 2004. (IGPP Pub. No. 6120). [CH22](#)
279. Khurana, K. K., M. G. Kivelson, V. M. Vasylunas, N. Krupp, J. Woch, A. Lagg, B. H. Mauk, W. S. Kurth, Chapter 24 - The configuration of Jupiter's magnetosphere, in *Jupiter: The Planet, Satellites and Magnetosphere*, edited by F. Bagenal, T. Dowling and W. McKinnon, Cambridge Univ. Press, 593, 2004. (IGPP Pub. No. 6119). [CH24](#)



280. Krupp, N., V.M. Vasylunas, J. Woch, A. Lagg, K.K. Khurana, M.G. Kivelson, B.H. Mauk, E.C. Roelof, D.J. Williams, S.M. Krimigis, W.S. Kurth, L.A. Frank, W.R. Paterson, Chapter 25, Dynamics of the Jovian magnetosphere, in *Jupiter: The Planet, Satellites and Magnetosphere*, edited by F. Bagenal, T. Dowling and W. McKinnon, Cambridge Univ. Press, 617, 2004. (IGPP Pub. No. 6121). [CH25](#)
281. Chust, T., A. Roux, W.S. Kurth, D.A. Gurnett, M.G. Kivelson, and K.K. Khurana, Are Io's Alfvén wings filamented? Galileo observations, *Planetary and Space Science*, 53, 395, 2005. (IGPP Pub. No. 6124). [PSS53395](#)
282. Waldrop, L.S., T.A. Fritz, M.G. Kivelson, K.K. Khurana, N. Krupp, and A. Lagg, Jovian plasma sheet morphology and field observations by the Galileo spacecraft, *Planetary and Space Science*, 53, 681, 2005. [PSS53681](#)
283. Weygand J. M., M. G. Kivelson, K. K. Khurana, H.K. Schwarzl, S.M. Thompson, R. L. McPherron, A. Balogh, L. Kistler, M.L. Goldstein, J. Borovsky, and D.A. Roberts (2005), Plasma sheet turbulence observed by Cluster II, *J. Geophys. Res.*, 110, A01205 (IGPP Pub. No. 5821). ] [2004JA010581](#)
284. Thompson, S. M., M. G. Kivelson, K. K. Khurana, R. L. McPherron, J. M. Weygand, A. Balogh, H. Rème, and L. M., Kistler (2005), Dynamic Harris current sheet thickness from Cluster current density and plasma measurements, *J. Geophys. Res.*, 110, A02212 (IGPP Pub. No. 6197). [2004JA010714](#)
285. Kivelson, M. G. (2005), The current systems of the Jovian magnetosphere and ionosphere and predictions for Saturn, *Space Sci. Rev.*, 116, 299. Also in *The Outer Planets and Their Moons*, edited by T. Encrenaz, R. Kallenbach, T.C. Owen and C. Sotin, Springer, Dordrecht, The Netherlands (IGPP Pub. No. 6209). [SSR11629905](#)
286. Russell, C.T., M.G. Kivelson and K.K. Khurana (2005), Statistics of depleted flux tubes in the Jovian magnetosphere, *Planetary and Space Science*, 53, 937. (IGPP Pub. No. 6239). [PSS53937](#)
287. Kivelson, M.G. (2005), Transport and acceleration of plasma in the magnetospheres of Earth and Jupiter and expectations for Saturn, *Adv. Space Res.*, 36, 2077. (IGPP Pub. No. 6207). [ASR362077](#)
288. Kivelson, M.G., R.L. McPherron, S. Thompson, K.K. Khurana, J.M. Weygand, and Andre Balogh (2005), The response of the near earth magnetotail to substorm activity, *Adv. Space Res.*, 36, 1818. (IGPP Pub. No. 6123). [ASR361818](#)
289. Kivelson M.G., and D.J. Southwood (2005), Dynamical consequences of two modes of centrifugal instability in Jupiter's outer magnetosphere, *J. Geophys. Res.*, 110, A12209, doi:10.1029/2005JA011176. (IGPP Pub. No. 6211). [2005JA011176](#)
290. Matthaeus, W.H., S. Dasso, J.M. Weygand, L.J. Milano, C.W. Smith, and M.G. Kivelson (2005), Spatial correlation of solar wind turbulence from two point measurements, *Phys. Rev. Letters*, 95, 231101. [05PRL95231101](#)
291. Walker, R.J., S.P. Joy, M.G. Kivelson, K.K. Khurana, T. Ogino, and K. Fukazawa (2006), The locations and shapes of Jupiter's bow shock and magnetopause, *AIP Conference Proceedings* -- August 1, 2005 -- Volume 781, pp. 95-108. [05CP78195](#)
292. Thompson, S.M., M.G. Kivelson, M. El-Alaoui, A. Balogh, H. Rème, L.M. Kistler (2006), Bifurcated current sheets: Statistics from Cluster magnetometer measurements, *J. Geophys. Res.*, 111, A03212. (IGPP Pub. No. 6240). [2005JA011009](#)
293. Kivelson, M.G. (2006), Does Enceladus govern magnetospheric dynamics at Saturn?, *Science*, 311, 1391. [2006SCI1391](#)

294. Xin, L., D.A. Gurnett, and M.G. Kivelson (2006), Whistler-mode auroral his emissions observed near Jupiter's moon Io, *J. Geophys. Res.*, 111, A04212, doi:10.29/2005JA011411. [2005JA011411](#)
295. Xiao, C.J., X.G. Wang, Z.Y. Pu, H. Zhao, J.X. Wang, Z.W. Ma, S.Y. Fu, M.G. Kivelson, Z.X. Liu, Q. G. Zong, K.H. Glassmeier, A. Balogh, A. Korth, H. Reme, and C.P. Escoubet (2006), In situ evidence for the structure of the magnetic null in a 3D reconnection event in the Earth's magnetotail, *Nature*, 2, 478. [NPHYS342](#)
296. Kivelson, M.G. (2006), ULF waves from the ionosphere to the outer planets, in AGU Monograph 169, p. 11, *Magnetospheric ULF Waves: Synthesis and New Direction*, editors K. Takahashi and P.-J. Chi. (IGPP Pub. No. 6264). [169GM04](#)
297. Joy, S.P., M.G. Kivelson, R.J. Walker, K.K. Khurana, C.T. Russell, and W.P. Paterson (2006), Mirror mode structures in the Jovian magnetosheath, *J. Geophys. Res.*, 111, A12212. (IGPP Pub. No. 6296). [2006JA011985](#)
298. Weygand, J.M., M.G. Kivelson, K.K. Khurana, H.K. Schwarzl, R.J. Walker, A. Balogh, L.M. Kistler, and M.L. Goldstein (2006), Non-self-similar scaling of plasma sheet and solar wind probability distribution functions of magnetic field fluctuations, *J. Geophys. Res.*, 111, A11209. [2006JA011820](#)
299. Kivelson, M.G., and F. Bagenal (2007), Planetary magnetospheres, *The Encyclopedia of the Solar System*, 2<sup>nd</sup> Edition, P. Weissman, L.-A. McFadden, and T. Johnson, Eds.-in-Chief, Academic Press, pp. 519. (IGPP Pub. No.6229). [Encyclopedia 519-540](#)
300. Volwerk, M., K.K. Khurana, and M.G. Kivelson (2007), Europa's Alfvén Wing: Shrinkage and Displacement Influenced by an Induced Magnetic Field, *Ann. Geophysicae*, 25, 905. (IGPP Pub. No. 5490). [2007AG25905](#)
301. Xiao, C. J., X. G. Wang, Z. Y. Pu, Z. W. Ma, H. Zhao, G. P. Zhou, J. X. Wang, M. G. Kivelson, S. Y. Fu, Z. X. Liu, Q. G. Zong, M. W. Dunlop, K.-H. Glassmeier, E. Lucek, H. Reme, I. Dandouras and C. P. Escoubet (2007), Satellite observations of separator-line geometry of three-dimensional magnetic reconnection, *Nature Physics* 3, 609, [nphys650](#)
302. Weygand, J.M., W.H. Matthaeus, S. Dasso, M.G. Kivelson, and R.J. Walker (2007), Taylor scale and effective magnetic Reynolds number determination from plasma sheet and solar wind magnetic field fluctuations, *J. Geophys. Res.*, 112, A10201, doi:10.1029/2007JA012486. (IGPP Pub. No.6345). [2007JA012486](#)
303. Kivelson, M.G. (2007), A twist on periodicity at Saturn, *Nature*, 450, 8, 178, Nov., [satperNVN450178a](#)
304. Kivelson, M.G., Chapter 19, Planetary Magnetospheres, in *Solar-Terrestrial Environment*, edited by Y. Kamide, and C.-L. Chian, Springer Verlag, New York, pp. 470-492, 2007. (IGPP Pub. No. 6232). [CH19](#)
305. Southwood, D.J., and M.G. Kivelson (2007), Saturnian magnetospheric dynamics: Elucidation of a camshaft model, *J. Geophys. Res.*, 112, A12222, doi:10.1029/2007JA012254. (IGPP Pub. No.6338). [2007JA012254](#)
306. Kivelson, M.G. (2008), The Rest of the Solar System, *Annu. Rev. Earth Planet. Sci.*. First published online as a Review, in Advance on December 18, 2007, ANRV341-EA36-01. [MKbioannurev.earth.36.0312071](#)
307. Kivelson, M.G., and A.J. Ridley (2008), Saturation of the polar cap potential: Inference from Alfvén wing arguments, *J. Geophys. Res.*, 113, A05214, doi:10.1029/2007JA012302. (IGPP Pub. No.6339). [2007JA012302](#)
308. Matthaeus, W.H., J.M. Weygand, P. Chuychai, S. Dasso, C.W. Smith, and M.G. Kivelson (2008), Interplanetary magnetic Taylor microscale and implications for the

- plasma dissipation, *The Astrophysics Journal*, 678: L141. [ApJ-678-L141-2008](#) [[NAG5-8134 and NAG5-11603, and NSF-ATM 0539995]]
309. Jia, X., R.J. Walker, M.G. Kivelson, K.K. Khurana, and J.A. Linker (2008), Three-dimensional MHD simulations of Ganymede's magnetosphere, *J. Geophys. Res.*, 113, A06212, doi: 10.1029/2007JA012748. [2007JA012748](#) [[NNG05GG85G, NNG06GG67G]]
310. Dasso, S., W.H. Matthaeus, J.M. Weygand, P. Chuychai, L.J. Milano, C.W. Smith, and M.G. Kivelson (2008), ACE/Wind multispacecraft analysis of the magnetic correlation in the solar wind, *Proceedings of the 30th International Cosmic Ray Conference*, Vol. 1 (SH), pages 625–628, Mexico City, Mexico. [dasso08\\_icrc07\\_mexico](#)
311. H. Zhang, K.K. Khurana, M.G. Kivelson, V. Angelopoulos, Z.Y. Pu, Q.-G. Zong, J. Liu and X.-Z. Zhou (2008), Modeling a force-free flux-transfer event probed by multiple THEMIS spacecraft, *J. Geophys. Res.*, 113, A00C05, doi:10.1029/2008JA013451. [2008JA013451](#) [[NAS5-02099]]
312. Southwood, D.J., and M.G. Kivelson (2009), The source of Saturn's periodic radio emission, *J. Geophys. Res.* 114, A09201, doi:10.1029/2008JA013800. [2008JA013800](#) [[ATM 02 – 05958, NNX08AQ46G]]
313. Weygand, J.M., W. H. Matthaeus, S. Dasso, and M.G. Kivelson (2009), Anisotropy of the Taylor scale and the correlation scale in plasma sheet and solar wind magnetic field fluctuations, *J. Geophys. Res.*, 114, A07213, doi:10.1029/2008JA013766 (IGPP Pub. No. 6388). [2008JA013766](#) [[NAG5-12131 at UCLA, NAG5-12131 at UCLA, NNX08AI47G and NNG05GG83G]]
314. Blanc, M., Y. Alibert, N. Andre, S. Atreya, R. Beebe, W. Benz, S.J. Bolton, A. Coradini, A. Coustenis, V. Dehant, M. Dougherty, P. Drossart, M. Fujimoto, O. Grasset, L. Gurvits, P. Hartogh, H. Hussmann, Y. Kasaba, M. Kivelson, K. Khurana, N. Krupp, P. Louarn, J. Lunine, M. McGrath, D. Mimoun, O. Mousis, J. Oberst, T. Okada, R. Pappalardo, O. Prieto-Ballesteros, D. Prieur, P. Regnier, M. Roos-Serote, S. Sasaki, G. Schubert, C. Sotin, T. Spilker, Y. Takahashi, T. Takashima, F. Tosi, D. Turrini, T. Van Hoolst, and L. Zelenyi (2009), LAPLACE: A mission to Europa and the Jupiter System for ESA's Cosmic Vision Programme, *Experimental Astronomy*, 23 (3), 849-892, doi: 10.1007/s10686-008-9127-4. [2009EA23849](#)
315. Jia, X., R. J. Walker, M. G. Kivelson, K. K. Khurana, and J. A. Linker (2009), Properties of Ganymede's magnetosphere inferred from improved three-dimensional MHD simulations, *J. Geophys. Res.*, 114, A9, doi: 10.1029/2009JA014375, [2009JA014375](#) [[NNG05GB82G, NNG06GG67G, NNX08AQ46G, NNX06AB91G, and NNX08AT48G]]
316. Kivelson, M.G., Khurana, K.K. and Volwerk, M. (2009), Europa's interaction with the Jovian magnetosphere, Chapter 23, in *Europa*, edited by R.T. Pappalardo, W.B. McKinnon and K. K. Khurana, University of Arizona Press, Tucson, 545-570. [EuropaChapt23](#) [[NNG06GG67G]]
317. Khurana, K.K., M.G. Kivelson, K.P. Hand, and C.T. Russell (2009), Electromagnetic induction from Europa's ocean and the deep interior, Chapter 24, in *Europa*, edited by R.T. Pappalardo, W.B. McKinnon and K.K. Khurana, University of Arizona Press, Tucson, 571-586. [EuropaChapt24](#) [[NNX06AB91G]]
318. Jia, X., M.G. Kivelson, K.K. Khurana, R.J. Walker (2009), Magnetic fields of the satellites of Jupiter and Saturn, *Space Sci. Rev. (proceedings of an ISSI workshop on Planetary Magnetism)*. doi:10.1007/s11214-009-9507-8. [2010SSR152271](#) [[NNX08AQ46G]]

319. Vogt, M. F., M. G. Kivelson, K. K. Khurana, S. P. Joy, and R. J. Walker (2010), Reconnection and flows in the Jovian magnetotail as inferred from magnetometer observations, *J. Geophys. Res.*, *115*, A06219, doi:10.1029/2009JA015098. [2009JA015098](#)
320. Masters, A., et al. (2010), Cassini observations of a Kelvin Helmholtz vortex in Saturn's outer magnetosphere, *J. Geophys. Res.*, *115*, A07225, doi:10.1029/2010JA015351. [2010JA015351](#)
321. Zhang, H., M. G. Kivelson, K. K. Khurana, R. J. Walker, V. Angelopoulos, J. M. Weygand, T. Phan, J. McFadden, D. Larson, K. H. Glassmeier, and H. U. Auster (2010), Evidence that crater flux transfer events are initial stages of typical flux transfer events, *J. Geophys. Res.*, *115*, A08229, doi:10.1029/2009JA015013, [2009JA015013](#) [[NAS5 - 02099]]
322. Paranicas, C., D. G. Mitchell, S. M. Krimigis, J. F. Carbary, P. C. Brandt, F. S. Turner, E. Roussos, N. Krupp, M. G. Kivelson, K. K. Khurana (2010), Asymmetries in Saturn's radiation belts, *J. Geophys. Res.*, *115*, A07216, doi:10.1029/2009JA014971, [2009JA014971](#)
323. Jia, X., R. J. Walker, M. G. Kivelson, K. K. Khurana, and J. A. Linker (2010), Dynamics of Ganymede's magnetopause: Intermittent reconnection under steady external conditions, *J. Geophys. Res.*, doi: 10.1029/2010JA015771, [2010JA015771](#) [[NNX09AQ54G, NNX08AQ46G and NNX06AB91G]]
324. Matthaeus, W. H., S. Dasso, J. M. Weygand, M. G. Kivelson and K. T. Osman (2010), Eulerian decorrelation of fluctuations in the interplanetary magnetic field, *Ap. J. Lett.*, doi:10.1088/2041-8205/721/1/L10. [2041-8205\\_721\\_1\\_L10](#) [[NNX-09AG31G, NNG-05GF56G, and NNX-09AH01G:000001]]
325. Kivelson, M.G., X. Jia, and K.K. Khurana, Medicean Moons Sailing Through Plasma Seas: Challenges in Establishing Magnetic Properties, in *Galileo's Medicean Moons: Their impact on 400 years of Discovery*, C. Barbieri, S. Chakrabarti, M. Coradini & M. Lazzarin, eds. *Proceedings IAU Symposium 269*, pp. 58-70, 2010. [S1743921310007271](#)
326. Gleick PH, Adams RM, Amasino RM, et al., Climate change and the integrity of science, *Science*, *328*, 689-690, MAY 7 2010. [Sci3286892010](#)
327. Weygand, J., W. Matthaeus, M. El-Alaoui, S. Dasso, and M.G. Kivelson, Anisotropy of the Taylor scale and the correlation scale in plasma sheet magnetic field fluctuations as a function of auroral electrojet activity, *J. Geophys. Res.*, *115*, A12250, doi:10.1029/2010JA015499, 2010. [2010JA015499](#) [[NAG5 12131]]
328. Nazarova, K., M. Kivelson, and J. Heirtzler, Valery Troitskaya (1917–2010) (obituary) *Eos Trans. AGU*, *91*, 16, doi:10.1029/2010EO160004, 201, 2010. [2010EO160004](#)
329. Vogt, M. F., M. G. Kivelson, K. K. Khurana, R. J. Walker, B. Bonfond, D. Grodent, and A. Radioti (2011), Improved mapping of Jupiter's auroral features to magnetospheric sources, *J. Geophys. Res.*, *116*, A03220, doi:10.1029/2010JA016148. [2010JA016148](#) [[NNX08AQ46G, NNX09AV91G, and NNG05GH41G]]
330. Ashour-Abdalla, M., M. El-Alaoui, M. L. Goldstein, M. Zhou, D. Schriver, R. Richard, R. Walker, M. G. Kivelson and K.-J. Hwang (2011), Observations and simulations of non-local acceleration of electrons in magnetotail magnetic reconnection events, *Nature Physics*, *7*, 360–365, doi:10.1038/nphys1903. [nphys1903](#) [[NNX08AO48G, NAS5-02099]]



331. Went, D.R., M.G. Kivelson, N. Achilleos, C.S. Arridge, and M.K. Dougherty (2011), Outer magnetospheric structure: Jupiter and Saturn compared, *J. Geophys. Res.*, 116, A04224, doi:10.1029/2010JA016045. [2010JA016045](https://doi.org/10.1029/2010JA016045)
332. Khurana, K.K, X. Jia, M.G. Kivelson, F. Nimmo, G. Schubert and C.T. Russell (2011), Evidence of a global magma ocean in Io's interior, *Science*, 332, 1186, DOI: 10.1126/Science.1201415. [SCI3321186](https://doi.org/10.1126/Science.1201415)
333. Blanc, M., Alibert, Y., André, N., Atreya, S., Beebe, R., Benz, W., Bolton, S.J., Coradini, A., Coustenis, A., Dehant, V., Dougherty, M., Drossart, P., Fujimoto, M., Grasset, O., Gurvits, L., Hartogh, P., Hussmann, H., Kasaba, Y., Kivelson, M., Khurana, K., Krupp, N., Louarn, P., Lunine, J., McGrath, M., Mimoun, D., Mousis, O., Oberst, J., Okada, T., Pappalardo, R., Prieto-Ballesteros, O., Prieur, D., Regnier, P., Roos-Serote, M., Sasaki, S., Schubert, G., Sotin, C., Spilker, T., Takahashi, Y., Takashima, T., Tosi, F., Turrini, D., Van Hoolst, T., Zelenyi, L.(2009), LAPLACE: A mission to Europa and the Jupiter system for ESA's Cosmic Vision programme, *Experimental Astronomy*, 23, 849 - 892. [LAPLACE](https://doi.org/10.1007/s10867-009-9211-1)
334. Weygand, J. M., W. H. Matthaeus, S. Dasso, and M. G. Kivelson (2011), Correlation and Taylor scale variability in the interplanetary magnetic field fluctuations as a function of solar wind speed, *J. Geophys. Res.*, 116, A08102, doi:10.1029/2011JA016621. [2011JA016621](https://doi.org/10.1029/2011JA016621)
335. Zhang, H., M.G. Kivelson, V. Angelopoulos, K.K. Khurana, R. J., Walker, Y. D. Jia, J. McFadden, and H.U. Auster (2011), Flow vortices associated with flux transfer events moving along the magnetopause: Observations and an MHD simulation, *J. Geophys. Res.*, doi:10.1029/2011JA016500. [2011JA016500](https://doi.org/10.1029/2011JA016500)
336. Jiang, F., M. G. Kivelson, R. J. Walker, K. K. Khurana, V. Angelopoulos, and T. Hsu (2011), A statistical study of the inner edge of the electron plasma sheet and the net convection potential as a function of geomagnetic activity, *J. Geophys. Res.*, 116, A06215, doi:10.1029/2010JA016179. [2010JA016179](https://doi.org/10.1029/2010JA016179)
337. Gao, Y., M. G. Kivelson, A. J. Ridley, J. M. Weygand, R. J. Walker (2012), Long-term variation of driven and unloading effects on polar cap dynamics, *J. Geophys. Res.*, A02203, doi:10.1029/2011JA017149. [2011JA017149](https://doi.org/10.1029/2011JA017149)
338. Jia, X., M. G. Kivelson and T. I. Gombosi (2012), Driving Saturn's magnetospheric periodicities from the upper atmosphere/ionosphere, *J. Geophys. Res.*, A04215, 2011JA017367. [2011JA017367](https://doi.org/10.1029/2011JA017367)
339. Jia, X., K. C. Hansen, T. I. Gombosi, M. G. Kivelson, G. Tóth, D. L. DeZeeuw, and A. J. Ridley (2012), Magnetospheric configuration and dynamics of Saturn's magnetosphere: A global MHD simulation, *J. Geophys. Res.*, 117, A05225, doi:10.1029/2012JA017575. [2012JA017575](https://doi.org/10.1029/2012JA017575)
340. Zhang, H., M. G. Kivelson, V. Angelopoulos, K. K. Khurana, Z. Y. Pu, R. J. Walker, R. L. McPherron, T.-S. Hsu, Q. G. Zong, and T. Phan (2012), Generation and properties of in vivo flux transfer events, *J. Geophys. Res.*, 117, A05224, doi:10.1029/2011JA017166. [2011JA017166](https://doi.org/10.1029/2011JA017166)
341. Gao, Y., M. G. Kivelson, and R. J. Walker (2012), The linear dependence of polar cap index on its controlling factors in solar wind and magnetotail, *J. Geophys. Res.*, 117, A05213, doi:10.1029/2011JA017229. [2011JA017229](https://doi.org/10.1029/2011JA017229)
342. Hartinger, M., V. Angelopoulos, M. B. Moldwin, Y. Nishimura, D. L. Turner, K.-H. Glassmeier, M. G. Kivelson, J. Matzka, and C. Stolle (2012), Observations of a Pc5 global (cavity/waveguide) mode outside the plasmasphere by THEMIS, *J. Geophys. Res.*, 117, A06202, doi:10.1029/2011JA017266. [2011JA017266](https://doi.org/10.1029/2011JA017266)
343. Jiang, F., R. J. Strangeway, M. G. Kivelson, J. M. Weygand, R. J. Walker, K. K. Khurana, Y. Nishimura, V. Angelopoulos, and E. Donovan (2012), In-situ observations

- of the "preexisting auroral arc" by THEMIS All Sky Imagers and the FAST spacecraft: *J. Geophys. Res.*, *117*, doi:10.1029/2011JA017128. [2011JA017128](#)
344. Gao, Y., M. G. Kivelson, A. J. Ridley, J. M. Weygand, and R. J. Walker (2012), Utilizing the polar cap index to explore strong driving of polar cap dynamics, *J. Geophys. Res.*, *117*, A07213, doi:10.1029/2011JA017087. [2011JA017087](#)
345. Zhang, H., K. K. Khurana, Q-G. Zong, M. G. Kivelson, W. X. Wan, Z. Y. Pu, V. Angelopoulos, X. Cao, Y. F. Wang, Q. Q. Shi, W. L. Liu, A. M. Tian, and C. L. Tang, et al. (2012), Outward expansion of the lunar wake: ARTEMIS observations, *Geophys. Res. Lett.*, *39*, L18104, doi:10.1029/2012GL052839. [2012GL052839](#)
346. Jia, X., and M. G. Kivelson (2012), Driving Saturn's magnetospheric periodicities from the upper atmosphere/ionosphere: Magnetotail response to dual sources, *J. Geophys. Res.*, *117*, A11219, doi:10.1029/2012JA018183. [Described in "Research Spotlight, *Eos*, *94* (6), 5 February 2013 page 68] [2012JA018183](#)
347. Vogt, M. F., and M.G. Kivelson (2012), Relating Jupiter's auroral features to magnetospheric sources, , p. XXX in *AGU Monograph XX "Auroral Phenomenology and Magnetospheric Processes: Earth and Other Planets"* (editors: A. Keiling, E. Donovan, F. Bagenal, and T. Karlsson). 10.1029/2011GM001181. [2011GM001181](#)
348. Volwerk, M. X. Jia, C. Paranicas, W. S. Kurth, M. G. Kivelson and K. K. Khurana (2013), ULF waves in Ganymede's upstream magnetosphere, *Ann. Geophys.*, *31*, 45–59, 2013, doi:10.5194/angeo-31-45-2013. [angeo-31-45-2013](#)
349. Gao, Y., M. G. Kivelson, and R. J. Walker (2013), Two models of cross polar cap potential saturation compared: Siscoe-Hill model versus Kivelson-Ridley model, *J. Geophys. Res. Space Physics*, *118*, 794–803, doi:10.1002/jgra.50124. [jgra.50124](#)
350. Weygand, J., W. Matthaeus , M. G. Kivelson , S. Dasso (2013), Magnetic correlation functions in the slow and fast solar wind in the Eulerian reference frame, *J. Geophys. Res.*, *Space Physics*, *118*, doi:10.1002/jgra.50398. [jgra.50398](#)
351. Krupp, N., E. Roussos, H. Kriegel, P. Kollmann, M.G. Kivelson, A. Kotova, C. Paranicas, D.G. Mitchell, S.M. Krimigis, K.K. Khurana (2013), Energetic particle measurements in the vicinity of Dione during the three Cassini encounters 2005-2011, *Icarus*, *226*(1), 617-628. [351-Krupp Dione encounters Icaru2013.pdf](#)
352. Kivelson, M. G., and X. Jia (2013), An MHD model of Ganymede's mini-magnetosphere suggests that the heliosphere forms in a sub-Alfvénic flow, *J. Geophys. Res. Space Physics*, *118*, doi:10.1002/2013JA019130. [2013JA019130](#)
353. Ream, J. B., R. J. Walker, M. Ashour-Abdalla, M. El-Alaoui, M. G. Kivelson, and M. L. Goldstein (2013), Generation of Pi2 pulsations by intermittent earthward propagating dipolarization fronts: An MHD case study, *J. Geophys. Res. Space Physics*, *118*, 6364–6377, doi:10.1002/2013JA018734. [2013JA018734](#)
354. Vogt, M. F., C. M. Jackman, J. A. Slavin, E.J. Bunce, S. W. H. Cowley, M. G. Kivelson, and K. K. Khurana (2014), Structure and statistical properties of plasmoids in Jupiter's magnetotail, *J. Geophys. Res. Space Physics*, *119*, doi:10.1002/2013JA019393. [2013JA019393](#)
355. Vogt, M., M. G. Kivelson, K. K. Khurana, R. J. Walker, and M. Ashour-Abdalla (2014), Simulating the effect of centrifugal forces in Jupiter's magnetosphere, *J. Geophys. Res.*, FILL IN doi: 10.1002/2013JA019381. [2013JA019381](#)

## THESIS

"Bremsstrahlung of Extreme Relativistic Electrons" with Professor Julian Schwinger

## PAPERS IN PRESS

1. Kivelson, M. G., Adventures in parameter space: Reconnection and the magnetospheres of the solar system, *Jim Dungey 90<sup>th</sup> celebration volume*, edited by D. J. Southwood and S. W. H. Cowley, Springer, 2013.