CURRICULUM VITAE - M.G. KIVELSON - PART 2 March 26, 2014

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, P*hys. 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, Alfven 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 Alfven 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_2 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 Alfven 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: Alfven 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 Alfven 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_E, (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 plasmasheet structure, *J. Geophys. Res., 94*, 11,791, 1998. (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_2^+ 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, Alfven 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 dispersian 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 Alfven 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, Bejing, 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. Vasyliunas, 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. Vasyliunas, 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 Alfven 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. Reme, 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. Réme, 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:1029/2005JA011411. 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*, 2nd 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 Alfven 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
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
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
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
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
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
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
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
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
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
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
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
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 90th celebration volume*, edited by D. J. Southwood and S. W. H. Cowley, Springer, 2013.