

## Galileo/PLS Publications

**L. A. Frank *et al.***  
**Department of Physics and Astronomy**  
**The University of Iowa**  
**Iowa City, IA**

### 1992

1. Frank, L. A., K. L. Ackerson, J. A. Lee, M. R. English and G. L. Pickett, The Plasma Instrumentation for the Galileo Mission, Sp. Sci. Rev., 60, 283-307, 1992.

### 1994

2. Frank, L. A., W. R. Paterson and M. G. Kivelson, Observations of Nonadiabatic Acceleration of Ions in Earth's Magnetotail, J. Geophys. Res., 99, 14,877-14,890, 1994.
3. Frank, L. A., W. R. Paterson, K. L. Ackerson, S. Kokubun, M. G. Kivelson and T. Yamamoto, Ion Velocity Distributions in the Vicinity of the Current Sheet in Earth's Distant Magnetotail, in Proceedings of the Second International Conference on Substorms, eds. J. R. Kan, J. D. Craven and S.-I. Akasofu, pp. 99-104, University of Alaska Press, Fairbanks, Alaska, 1994.
4. Ashour-Abdalla, M., L. M. Zelenyi, J. M. Bosqued, V. Perroomian, R. L. Richard, L. A. Frank and J. Dandouras, Structure of Plasma Flows in the Earth's Magnetotail, in Proceedings of the Second International Conference on Substorms, eds. J. R. Kan, J. D. Craven and S.-I. Akasofu, pp. 111-118, University of Alaska Press, Fairbanks, Alaska, 1994.

### 1995

5. 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, Geophys. Res. Lett., 22, 2087-2090, 1995.

### 1996

6. Khurana, K. K., M. G. Kivelson and L. A. Frank, The Relationship of Magnetic Flux Ropes to Substorms, Adv. Space Res., 18, (8)59-(8)62, 1996.

7. Ashour-Abdalla, M., L. A. Frank, W. R. Paterson, V. Perroomian and L. M. Zelenyi, Proton Velocity Distributions in the Magnetotail: Theory and Observations, J. Geophys. Res., 101, 2587-2598, 1996.
8. Ashour-Abdalla, M., L. M. Zelenyi, V. Perroomian, L. A. Frank and W. R. Paterson, Coarse-Grained Texture of Ion Distributions in the Magnetotail: A Fractal-Like Approach, J. Geophys. Res., 101, 15,287-15,296, 1996.
9. Frank, L. A., W. R. Paterson, K. L. Ackerson, V. M. Vasyliunas, F. V. Coroniti and S. J. Bolton, Plasma Observations at Io with the Galileo Spacecraft, Science, 274, 394-395, 1996.

## **1997**

10. Vasyliunas, V. M., L. A. Frank, K. L. Ackerson and W. R. Paterson, Geometry of the Plasma Sheet in the Midnight-to-Dawn Sector of the Jovian Magnetosphere: Plasma Observations With the Galileo Spacecraft, Geophys. Res. Lett., 24, 869-872, 1997.
11. Frank, L. A., W. R. Paterson, K. L. Ackerson and S. J. Bolton, Outflow of Hydrogen Ions From Ganymede, Geophys. Res. Lett., 24, 2151-2154, 1997.
12. Frank, L. A., W. R. Paterson, K. L. Ackerson and S. J. Bolton, Low-Energy Electron Measurements at Ganymede With the Galileo Spacecraft: Probes of the Magnetic Topology, Geophys. Res. Lett., 24, 2159-2162, 1997.
13. Bennett, L., M. G. Kivelson, K. K. Khurana, L. A. Frank and W. R. Paterson, A Model of the Earth's Distant Bow Shock, UCLA-IGPP Publication #4860, 1997.
14. Bagenal, F., F. J. Crary, A. I. F. Stewart, N. M. Schneider, D. A. Gurnett, W. S. Kurth, L. A. Frank and W. R. Paterson, Galileo Measurements of Plasma Density in the Io Torus, Geophys. Res. Lett., 24, 2119-2122, 1997.

## **1998**

15. Hull, A. J., J. D. Scudder, L. A. Frank, W. R. Paterson and M. G. Kivelson, Electron Heating and Phase Space Signatures at Strong and Weak Quasi-perpendicular Shocks, J. Geophys. Res., 103, 2041-2054, 1998.
16. Hull, A. J., J. D. Scudder, L. A. Frank, W. R. Paterson and M. G. Kivelson, Correction to Electron Heating and Phase Space Signatures at Strong and Weak Quasi-perpendicular Shocks, J. Geophys. Res., 103, 9587-9590, 1998.

17. Crary, F. J., F. Bagenal, L. A. Frank and W. R. Paterson, Galileo Plasma Spectrometer Measurements of Composition and Temperature in the Io Plasma Torus, *J. Geophys. Res.*, 103, 29,359-29,370, 1998.

## **1999**

18. Paterson, W. R., L. A. Frank and K. L. Ackerson, Galileo Plasma Observations at Europa: Ion Energy Spectra and Moments, *J. Geophys. Res.*, 104, 22,779-22,791, 1999.
19. Frank, L. A. and W. R. Paterson, Production of Hydrogen Ions at Io, *J. Geophys. Res.*, 104, 10,345-10,354, 1999.
20. Paranicas, C., W. R. Paterson, A. F. Cheng, B. H. Mauk, R. W. McEntire, L. A. Frank and D. J. Williams, Energetic Particle Observations Near Ganymede, *J. Geophys. Res.*, 104, 17,459-17,469, 1999.
21. Frank, L. A. and W. R. Paterson, Intense Electron Beams Observed at Io With the Galileo Spacecraft, *J. Geophys. Res.*, 104, 28,657-28,669, 1999.
22. Russell, C. T., D. E. Huddleston, R. J. Strangeway, X. Blanco-Cano, M. G. Kivelson, K. K. Khurana, L. A. Frank, W. R. Paterson, D. A. Gurnett and W. S. Kurth, Mirror Mode Structures at the Galileo-Io Flyby: Observations, *J. Geophys. Res.*, 104, 17,471-17,477, 1999.

## **2000**

23. Frank, L. A. and W. R. Paterson, Observations of Plasmas in the Io Torus With the Galileo Spacecraft, *J. Geophys. Res.*, 105, 16,017-16,034, 2000.
24. Frank, L. A. and W. R. Paterson, Return to Io by the Galileo Spacecraft: Plasma Observations, *J. Geophys. Res.*, 105, 25,363-25,378, 2000.
25. Yin, L., F. V. Coroniti, P. L. Pritchett, L. A. Frank and W. R. Paterson, Kinetic Aspects of the Jovian Current Sheet, *J. Geophys. Res.*, 105, 25,345-25,361, 2000.

## **2001**

26. Frank, L. A. and W. R. Paterson, Survey of Thermal Ions in the Io Plasma Torus With the Galileo Spacecraft, *J. Geophys. Res.*, 106, 6131-6149, 2001.
27. Frank, L. A. and W. R. Paterson, Passage Through Io's Ionospheric Plasmas by the Galileo Spacecraft, *J. Geophys. Res.*, 106, 26,209-26,224, 2001.

## 2002

28. Frank, L. A., W. R. Paterson and K. K. Khurana, Observations of Thermal Plasmas in Jupiter's magnetotail, J. Geophys. Res., 107(A1), 1003, DOI 10.1029/2001JA000077, 2002.
29. Frank, L. A. and W. R. Paterson, Plasmas Observed With the Galileo Spacecraft During its Flyby Over Io's Northern Polar Region, J. Geophys. Res., 107(A8), 1220, DOI 10.1029/2002JA009240, 2002.
30. Frank, L. A. and W. R. Paterson, Galileo Observations of Electron Beams and Thermal Ions in Jupiter's Magnetosphere and Their Relationship to the Auroras, J. Geophys. Res., 107(A12), 1478, DOI 10.1029/2001JA009150, 2002.

## 2004

31. Frank, L. A. and W. R. Paterson, Plasmas Observed Near Local Noon in Jupiter's Magnetosphere With the Galileo Spacecraft, J. Geophys. Res., 109, A11217, DOI 10.1029/2002JA009795, 2004.