

# PUBLICATIONS OF DR. ANIL BHARDWAJ

## Refereed Publications:

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4. R.P. Singhal, S.C. Chakravarty, **A. Bhardwaj**, and B. Prasad, Energetic Electron Precipitation in Jupiter's Upper Atmosphere, *Journal of Geophysical Research*, 97, 18245-18256 (1992).
5. S.A. Haider, **A. Bhardwaj**, and R.P. Singhal, Role of Auroral and Photoelectrons on the Abundances of Methane and Ammonia in the Coma of Comet Halley, *Icarus*, 101, 234-243 (1993).
6. **A. Bhardwaj** and R.P. Singhal, Optically Thin H Lyman Alpha Production on Outer Planets: Low-Energy Proton Acceleration in Parallel Electric Fields and Neutral H Atom Precipitation from Ring Current, *Journal of Geophysical Research*, 98, 9473-9481 (1993).
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8. M. Michael and **A. Bhardwaj**, On the Dissociative ionization of SO<sub>2</sub> in the Io's Atmosphere, *Geophysical Research Letters*, 24, 1971-1974 (1997).
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10. **A. Bhardwaj** and M. Michael, On the Excitation of Io's Atmosphere by the Photoelectrons: Application of the Analytical Yield Spectrum of SO<sub>2</sub>, *Geophysical Research Letters*, 26, 393-396 (1999).
11. **A. Bhardwaj** and M. Michael, Monte Carlo Model for Electron Degradation in SO<sub>2</sub> Gas: Cross Sections, Yield Spectra and Efficiencies, *Journal of Geophysical Research*, 104, 24713-24728 (1999).
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13. M. Michael and **A. Bhardwaj**, FUV Emissions on Io: Role of Galileo-Observed Field-Aligned Energetic Electrons, *Geophysical Research Letters*, 27, 3137-3140 (2000).

14. G.R. Gladstone, J.H. Waite, Jr., D. Grodent, W.S. Lewis, F.J. Crary, R.F. Elsner, M.C. Weisskopf, T. Majeed, J.-M. Jahn, **A. Bhardwaj**, J.T. Clarke, D.T. Young, M.K. Dougherty, S.A. Espinosa, T.E. Cravens, A Pulsating Auroral X-Ray Hot Spot on Jupiter, *Nature*, 415, 1000-1003 (2002). **{NASA DID PRESS RELEASE ON THIS PAPER}**
15. R.F. Elsner, G.R. Gladstone, J.H. Waite, Jr., F.J. Crary, R.R. Howell, R.E. Johnson, P.G. Ford, A.E. Metzger, K.C. Hurley, E.D. Feigelson, G.P. Garmire, **A. Bhardwaj**, D. Grodent, T. Majeed, A.F. Tennant, M.C. Weisskopf, Discovery of Soft X-Ray Emission from Io, Europa and the Io Plasma Torus, *Astrophysical Journal*, 572, 1077-1082 (2002).
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19. O. P. Makarov, J. M. Ajello, P. Vatti Palle, I. Kanik, M. C. Festou, and **A. Bhardwaj**, Kinetic Energy Distributions and Line Profile Measurements of Dissociation Products of Water Upon Electron Impact, *Journal of Geophysical Research*, 109, A09303, pp.1-15 (2004).
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