

PUBLICATIONS OF DR. ANIL BHARDWAJ

Refereed Journal Publications:

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3. R.P. Singhal and **A. Bhardwaj**, Monte Carlo Simulation of Photoelectron Energization in Parallel Electric Fields: Electrogrow on Uranus, *Journal of Geophysical Research*, 96, 15963-15972 (1991).
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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).
7. **A. Bhardwaj**, S. A. Haider, and R. P. Singhal, Consequences of Cometary Aurora on the Carbon Chemistry at Comet P/Halley, *Advances in Space Research*, 16(2), 31-36 (1995).
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11. M. Michael and **A. Bhardwaj**, On the Dissociative ionization of SO₂ in the Io's Atmosphere, *Geophysical Research Letters*, 24, 1971-1974 (1997).
12. **A. Bhardwaj**, Ring current H Atom Precipitation on the Outer Planets, *Advances in Space Research*, 20(2), 233-237 (1997).
13. **A. Bhardwaj**, On the Role of Solar EUV, Photoelectrons, and Auroral Electrons in the Chemistry of C(¹D) and the Production of Cl 1931 Å in the Inner Cometary Coma: A Case for Comet P/Halley, *Journal of Geophysical Research*, 104, 1929-1942 (1999).

14. **A. Bhardwaj** and M. Michael, On the Excitation of Io's Atmosphere by the Photoelectrons: Application of the Analytical Yield Spectrum of SO₂, *Geophysical Research Letters*, 26, 393-396 (1999).
15. **A. Bhardwaj** and S.A. Haider, Modeling of Metastable Carbon Atoms in Comets: Implications for ROSETTA, *Advances in Space Research*, 23(7), 1325-1328 (1999).
16. **A. Bhardwaj** and M. Michael, Monte Carlo Model for Electron Degradation in SO₂ Gas: Cross Sections, Yield Spectra and Efficiencies, *Journal of Geophysical Research*, 104, 24713-24728 (1999).
17. **A. Bhardwaj** and G.R. Gladstone, Auroras on Saturn, Uranus, and Neptune, *Advances in Space Research*, 26(10), 1551-1558 (2000).
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23. **A. Bhardwaj** and S.A. Haider, Chemistry of O(¹D) Atoms in the Inner Coma: Implications for Cometary Missions, *Advances in Space Research*, 29, No.5, 745-750 (2002).
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28. **A. Bhardwaj**, X-ray Emissions from the Jovian System, *Bulletin of Astronomical Society of India*, 31, 159-166 (2003).
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35. Joseph Ajello, Prahlad Vatti Palle, Hervé Abgrall, Evelyne Roueff, **Anil Bhardwaj**, and Jacques Gustin, The Electron Excited UV Spectrum of HD: Cross Sections and Transition Probabilities, *Astrophysical Journal Supplement Series*, 159, 314-330 (2005).
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