

## Publication List of Debi Prasad Choudhary

### A) Article in referred journals (37)

- D. P. Choudhary, R. L. Moore, Filament eruption without coronal mass ejection, *Geophys. Res. Lett.*, 30, 2107, 2003.
- D. P. Choudhary, S. Gosain, Solar Coronal Mass Ejection and Prominence Eruption - A case for emerging flux trigger, *Astron. Astrophys.*, 2003, (Submitted).
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- D. P. Choudhary, S. Gosain, Solar Magnetic Field and Global Warming, *Curr. Sci.*, 2003, (Submitted).
- S. Gosain, D. P. Choudhary, Simultaneous Stokes-V diagnostic of a sunspot using Mg b and Fe I lines, *Sol. Phys.*, 2003, (accepted).
- D. P. Choudhary, The question of Life and Death of the Sunspots, 2003, *Curr. Sc.*, 84, 101-103.
- D. P. Choudhary, N. Srivastava and S. Gosain, The Source of a coronal mass ejection in a decayed solar active region, 2002, *Astron. Astrophys.*, 395, 257-262.
- D. P. Choudhary, A. Ambastha, K. R. Murali, V. Kumar, N. G., 2002, No evidence of circumsolar dust ring during solar activity minimum Phase, *Ind. J. Phy.*, 76B, 609-613
- D. P. Choudhary, P. Venkatakrisnan, S. Gosain, 2002, On Magnetic Flux Imbalance in Solar Active Regions, *Astrophys. J.*, 573, 851-856.
- D. P. Choudhary, Y. Suematsu, K. Ichimoto, Observational Study of the Three-Dimensional Magnetic Field Structure and Mass Motion in Active Regions, 2002, *Sol. Phys.*, 209, 349-360.
- D. P. Choudhary, T. Sakurai, P. Venkatakrisnan, 2001, Chromospheric Magnetic Field of Solar Active Regions, *Astrophys. J.*, 560, 539-444, 2001.
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- D. P. Choudhary, A. Ambastha, S. K. Mathew, Dynamical properties of quiescent prominence in He D3 5876 Å line emission, 1999, *Bull. Astr. Soc. India*, 27, 411-414.
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- D. P. Choudhary, S. K. Mathew, A. Bhatnagar, A. Ambastha, Solar Photospheric and Chromospheric Observations using a Lithium Niobate Fabry-Perot ETALON, *Exp. Astron.*, 8, 125, 1998
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- D. P. Choudhary, Near Infrared Observations of solar atmosphere, *Bull. Astr. Soc. India*, 26, 253-259, 1998.
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## **B) Published Contribution in Conferences and Symposia (26)**

- D. P. Choudhary, K. S. Balasubramaniam, Y. Suematsu, Asymmetric Stokes-V profiles at the penumbral boundary of a sunspot, The Solar-B mission and the Forefront of Solar Physics – Proceedings of the Fifth Solar-B Science Meeting, Ed. T. Sakurai and T. Sekii, ASP Conference Series, 2004 (to appear).
- T. Sakurai, D. P. Choudhary, and P. Venkatakrishnan, "Useful Aspects of Chromospheric Magnetic Field Data", Solar-Terrestrial Magnetic Activity and Space Environment', eds. H. N. Wang and R. L. Xu, COSPAR Colloquia Series 14, pp.37-40, 2002
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- Three-dimensional structure of active regions: D.P. Choudhary, Sanjay Gosain, Probing the Sun with High Resolution Editor(s): S. C. Tripathy, P. Venkatakrishnan, Narosa Publishing House, New Delhi. p. 93-98.
- Cometary and Solar observations with small telescopes connected to a computer network, D. P. Choudhary, Ninth United Nation / European Space Agency Workshop on Basic Space Science, 27-30, June, 2001, ST/Space, 5, PP: 87.
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- D. P. Choudhary, G. A. Gary and A. Ambastha, 1999, Complex Ha Loop Activity in a long duration flare, High Resolution Solar Physics: Theory, Observations, and Techniques, ASP Conference Series #183. Eds. T. R. Rimmele, K. S. Balasubramaniam, and R. R. Radick. ISBN: 1-58381-009-9 (1999), p.523
- S. K. Mathew, A. Bhatnagar, D. P. Choudhary, and A. Ambastha, Circular polarization and magnetic field measurement using a Lithium Niobate based video magnetograph, Solar polarization: proceedings of an international workshop held in Bangalore, India, 12-16 October, 1998 / edited by K.N. Nagendra and J.O. Stenflo. Boston, Mass.: Kluwer Academic Publishers, 1999. (Astrophysics and space science library; v. 243), p.321-324
- A. Ambastha, D. P. Choudhary, The Role of Magnetic Shear and New Emerging Fluxes in Producing Large Solar Flares in NOAA AR 6555, Physics of the Sun and Heliosphere in the Era of Space Probes: Scientific Highlights of SOHO, Ulysses, and Yohkoh, 23rd meeting of the IAU, Joint Discussion 19, 26-27 August 1997, Kyoto, Japan.
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### C) Book Review (3)

- Physics and Chemistry of Comets, Ed. W. F. Huebner, 1991, D. P. Choudhary, Earth Moon and Planets, 52, 291-292.
- The Origin of Comets, By M. Bailey et al, 1991, D. P. Choudhary, Earth moon and Planets, 52, 103.
- Cometary and Solar Plasma Physics, By B. Buti, 1990, D. P. Choudhary, Earth Moon and Planets, 48, 187.

### D) Popular Articles (10)

Article	Language
Ab Surya Ka Sakraya Kshetra Ka Adhayan Ka Tayrai, Dainik Bhaskar, September 2000.	Hindi
Flares in Sun and Stars, Science and Culture, January-March 1995.	English
Takaroub Sour Mandal ka Sir Mour Sa, Rajasthan Patrika, July 1994.	Hindi
Comments on plus minus Forty, Science Focus, April 1991.	English
Disastrous journey of the solar system, Science Reporter, March 1988.	English
Is there intelligent life beyond earth? Science Reporter, February 1987.	English
Does the star have enough energy to cool, Science Reporter, July 1986.	English
Prof. Sarabhai also was a great scientist, Science Age (1986).	English

- Why we do not see the stars in the daytime, Science Reporter (1994). English
- Pruthibiprutha ra Surjaya ra Maratmaka rashami, in an Oriya daily (1983). Oriya

### **E) Review Article (2)**

- Near Infrared Observations of solar atmosphere, 1998, Bull. Astron. Soc. India, 26, 253-259.
- The interaction of Cometary plasma with interplanetary medium - A post-Halley view, D. P. Choudhary, 1990, In Basic plasma processes on the Sun, ed. E. R. Priest and V. Krishan, 429-434, Kluwer Academic Publishers, Dordrecht, Boston, London.

### **F) Under Preparation (5)**

- Decay of active region magnetic field over five solar rotations (With David Hathaway)
- Chromospheric magnetic field of solar active region over one solar cycle (Using the NSO/KP chromospheric magnetograms)
- Nature of quiescent filament eruption (With Ronald L. Moore)
- Narrow band imaging filter using double-pass Fabry-Perot etalon (On going experiment)