

## A. Xinlin Li

**Title:** Associate Professor

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### Education:

1986—1992, Dartmouth College, New Hampshire, Ph.D. in Physics. Thesis topic: *Ring Current Oxygen Ion Interaction with Micropulsations*, (Mary K. Hudson)

1982—1985, Shanghai Institute of Optics and Fine Mechanics, Academia Sinica, M.S. in Physics. Thesis topic: *Interaction of Intense Laser Light with Plasmas*, (Zhizhan Xu)

1978—1982, University of Science and Technology of China, B.S. in Physics

### Employment:

2002—Present, Dept. of Aerospace Engineering Science and Laboratory for Atmospheric and Space Physics, University of Colorado at Boulder, Associate Professor

1999—2002, Dept. of Aerospace Engineering Science and Laboratory for Atmospheric and Space Physics, University of Colorado at Boulder, Associate Research Professor

1995—1999, Laboratory for Atmospheric and Space Physics, U. of Colorado at Boulder, Research Associate.

1993—1995, Dartmouth College, Research Associate.

1992—1993, Dartmouth College, Postdoctoral Research Associate.

1989—1991, Dartmouth College, Research Assistant.

1987—Summer, Space Sciences Laboratory at UC Berkeley, visiting graduate student.

1986—1989, Dartmouth College, Teaching Assistant.

1985—1986, Shanghai University of Science and Technology, Lecturer.

1983—1985, Shanghai Institute of Optics and Fine Mechanics, Research Assistant.

### B. Most Relevant Publications:

Li, X., M. Temerin, B. T. Tsurutani, S. Alex, Modeling of 1-2 September 1859 super magnetic storm, *Adv. Space Res.*, in press, 2005.

Li, X., D. N. Baker, M. Temerin, G. D. Reeves, R. Friedel, and C. Shen, Energetic electrons, 50 keV – 6 MeV, at geosynchronous orbit: their responses to solar wind variations, *Space Weather*, 3, S04001, doi:10.1029/2004SW000105, 2005.

Li, X., Variations of 0.7-6.0 MeV Electrons at Geosynchronous Orbit as a Function of Solar Wind, *Space Weather*, Vol. 2, No. 3, S0300610.1029/2003SW0 00017, 2004.

Li, X., T. E. Sarris, D. N. Baker, W. K. Peterson, H. J. Singer, Simulation of energetic particle injections associated with a substorm on August 27, 2001, *Geophys. Res. Lett.*, 30, No. 1, 10.1029/2002GL015967, 2003.

Li, X., M. Temerin, D. N. Baker, G. D. Reeves, D. Larson, and S. G. Kanekal, The Predictability of the Magnetosphere and Space Weather, a feature article in EOS, AGU, 16 Sept, 2003.

Temerin, M., and X. Li, A New Model for the Prediction of Dst on the Basis of the Solar Wind, *J. Geophys. Res.*, 107, No. A12, 1472, 2002.

Li, X., D. N. Baker, S. G. Kanekal, M. Looper, M. Temerin, SAMPEX Long Term Observations of MeV Electrons, *Geophys. Res. Lett.*, 28, 3827, 2001.

Li, X., M. Temerin, D. N. Baker, G. D. Reeves, and D. Larson, Quantitative Prediction of Radiation Belt Electrons at Geostationary Orbit Based on Solar Wind Measurements, *Geophys. Res. Lett.*, 28, 1887, 2001.

Li, X. and M. Temerin, The Electron Radiation Belt, (a solicited review paper), *Space Science Reviews*, 95(1/2), 569, 2001.

Li, X., D. N. Baker, M. Temerin, W. K. Peterson, and J. F. Fennell, Multiple Discrete-Energy Ion Features in the Inner Magnetosphere: Observations and Simulations, *Geophys. Res. Lett.*, 27, 1447, 2000.