Selected Publications

1. **Deng, X. H.**, Matsumoto, H., Pickett, J.S., Fazakerley, A.N., Kojima H. ,Baumjohann, W., Liu Z. X. , Coates A. and Gurnett, D.A., Electrostatic Solitary waves associated with reconnection observed Cluster and Geotail, Advances in Space Research 37 (2006) 1373–1381.
2. Zhigang Yuan, Baiqi Ning, **Xiaohua Deng,** Effects of TADs on the F1-region of the mid-latitude ionosphere during geomagnetic storms: A case study. JGR in press, 2007.
3. **Deng X. H.**, R. X. Tang R. Nakamura, W. Baumjohann, T. L. Zhang, T. P. W. Daly, C. M. Carr, A. Balogh, Z. X. Liu and H. Reme, Observation of reconnection pulses by Cluster and Double star, Ann Geophys., **23**, 2921-2927, 2005.

4. **Deng X. H.**, H. Matsumoto, H. Kojima, T. Mukai and R. R. Anderson, GEOTAIL encounter with reconnection diffusion region in the Earth's magnetotail: evidence of multiple X-lines collisionless reconnection, **J. Geophys. Res.**, Vol. 109, A05206, doi:10.1029/2003JA010031, 2004.
5. H. Matsumoto, **X. H. Deng**, H. Kojima, and R. R. Anderson, Observation of Electrostatic Solitary Waves associated with reconnection on the dayside magnetopause boundary, **GEOPHYSICAL RESEARCH LETTERS,** VOL. 30, NO. 6, 1326, doi:10.1029/2002GL016319, 2003.
6. **Deng, X. H.**, H. Matsumoto, H. Kojima, R. R. Anderson, T. Mukai and J. F. Wang, Dynamic processes and kinetic structure of collisionless reconnection at the dayside magnetopause: Comparison between GEOTAIL observations and computer simulations, **Annales Geophysicae**, **21**, 1939–1946, 2003.
7. **Deng X. H.** & Matsumoto H., Rapid magnetic reconnection in the Earth's magnetosphere mediated by whistler waves, **Nature**, **401**, 557-560, 2001.
8. **Deng X. H**. and Wang J. F.: Three-dimensional nonlinear mode interaction of double-tearing instability, **Journal of Plasma Physics**, **58**, part 2, 223, 1997.
9. **Deng X. H.** and Wang J. F. Three-dimensional nonlinear mode interaction of double-tearing instability, **Journal of Geomagnetism and Geoeletrotism, 49**, S15, 1997.
10. **Deng X. H.,** Huo Y. P., Zhang C., Wang J. F. and Wang S.: Global energy confinement under coupling of transport process with MHD modes, **Physics of Plasma**，2（7）2753, 1995.
11. **Deng X. H.**, Zhang C., Huo Y. P., Wang J.F. and Wang S. Sensitivity of global energy confinement on the boundary condition due to coupling of MHD modes and transport process, **Journal of Plasma Physics**, Vol.51, No. 2, 201, 1994.