

2012 EFW

André, M. and C. M. Cully, Low-energy ions: A previously hidden solar system particle population, *Geophys. Res. Lett.*, 39, L03101, doi:10.1029/2011GL050242, 2012.

Berthomier, M., and 62 co-authors, including **Y. Khotyaintsev**, Alfvén: magnetosphere-ionosphere connection explorers, *Exp. Astron.*, 33, 445-489, doi: 10.1007/s10686-011-9273-y, 2012.

Birn, J., A. Artemyev, D. Baker, M. Echim, M. Hoshino, L.M. Zelenyi, Particle Acceleration in the Magnetotail and Aurora, *Space Sci. Rev.*, 173, 1-4, 49-102, 2012.

Borg, A.L., Taylor, M.G.G.T., and Eastwood, J.P., Electron pitch angle distribution during magnetic reconnection diffusion region observations in the Earth's magnetotail, *Ann. Geophys.*, 30, 109-117, doi:10.5194/angeo-30-109-2012, 2012.

Borg, A.L., Taylor, M.G.G.T., and Eastwood, J.P., Observations of magnetic flux ropes during magnetic reconnection in the Earth's magnetotail, *Ann. Geophys.*, 30, 761-773, doi:10.5194/angeo-30-761-2012, 2012.

Chen, L.-J., W. Daughton, A. Bhattacharjee, R.B. Torbert, V. Roytershteyn, and N. Bessho, In-plane electric fields in magnetic islands during collisionless magnetic reconnection, *Phys. Plasmas*, 19, 112902, 2012.

Dimmock, A.P., M.A. Balikhin, V.V. Krasnoselskikh, S.N. Walker, S.D. Bale, and Y. Hobara, A statistical study of the cross-shock electric potential at low Mach number, quasi-perpendicular bow shock crossings using Cluster data, *J. Geophys. Res.*, 117, A02210, doi:10.1029/2011JA017089, 2012.

Engebretson, M.J., C.R.G. Kahlstorf, D.L. Murr, J.L. Posch, A. Keiling, B. Lavraud, H. Rème, M.R. Lessard, E.-H. Kim, J.R. Johnson, J. Dombek, B. Grison, P. Robert, K.-H. Glassmeier, and P.M.E. Décréau, Cluster observations of band-limited Pc 1 waves associated with streaming H⁺ and O⁺ ions in the high-altitude plasma mantle, *J. Geophys. Res.*, 117, A10219, doi:10.1029/2012JA017982, 2012.

Forsyth, C., A. N. Fazakerley, A. P. Walsh, C. E. J. Watt, K. J. Garza, C. J. Owen, D. Constantinescu, I. Dandouras, K.-H. Fornacon, E. Lucek, G. T. Marklund, S. S. Sadeghi, **Y. Khotyaintsev**, A. Masson and N. Doss, Temporal evolution and electric potential structure of the auroral acceleration region from multispacecraft measurements, *J. Geophys. Res.*, 117, A12203, doi:10.1029/2012JA017655, 2012.

Fu, H. S., Y. V. Khotyaintsev, A. Vaivads, M. André, and S. Y. Huang, Occurrence rate of earthward-propagating dipolarization fronts, *Geophys. Res. Lett.*, 39, L10101, doi:10.1029/2012GL051784, 2012.

Fu, H. S., Y. V. Khotyaintsev, A. Vaivads, M. André, and S. Y. Huang, Electric structure of dipolarization front at sub-proton scale, *Geophys. Res. Lett.*, 39, L06105, doi:10.1029/2012GL051274, 2012.

Fu, H., Y. V. Khotyaintsev, A. Vaivads, M. André, V. A. Sergeev, S. Y. Huang, E. A. A. Kronberg, and P. W. Daly, Pitch angle distribution of suprathermal electrons behind dipolarization fronts: A statistical overview, *J. Geophys. Res.* 117, A12221, doi:10.1029/2012JA018141, 2012.

Gunell, H., H. Nilsson, G. Stenberg, M. Hamrin, T. Karlsson, R. Maggiolo, **M. André**, R. Lundin, and I. Dandouras, Plasma penetration of the dayside magnetopause, *Phys. Plasmas* 19, 072906, DOI:10.1063/1.4739446, 2012.

Haaland, S., **A. Eriksson, E. Engwall**, B. Lybekk, H. Nilsson, A. Pedersen, K. Svenes, **M. André**, M. Förster, K. Li, C. Johnsen and N. Östgaard, Estimating the capture and loss of cold plasma from ionospheric outflow, *J. Geophys. Res.*, 117, A07311, doi:10.1029/2012JA017679, 2012.

Haaland, S., K. Svenes, B. Lybekk, and A. Pedersen, A survey of the polar cap density based on Cluster EFW probe measurements: Solar wind and solar irradiation dependence, *J. Geophys. Res.*, 117, A01216, doi:10.1029/2011JA017250, 2012.

Hamrin, M., O. Marghitu, P. Norqvist, **S. Buchert, M. André**, B. Klecker, L. M. Kistler, and I. Dandouras, The role of the inner tail to midtail plasma sheet in channeling solar wind power to the ionosphere, *J. Geophys. Res.*, 117, A06310, doi:10.1029/2012JA017707, 2012.

Hietala, H., N. Partamies, T. V. Laitinen, L. B. N. Clausen, G. Facskó, **A. Vaivads**, H. E. J. Koskinen, I. Dandouras, H. Rème and E. A. Lucek, Supermagnetosonic subsolar magnetosheath jets and their effects: from the solar wind to the ionospheric convection, *Ann. Geophys.*, 30, 33-48, doi:10.5194/angeo-30-33-2012, 2012.

Huang, S. Y., Zhou, M., Deng, X. H., Yuan, Z. G., Pang, Y., Wei, Q., Su, W., Li, H. M., and Wang, Q. Q., Kinetic structure and wave properties associated with sharp dipolarization front observed by Cluster, *Ann. Geophys.*, 30, 97-107, doi:10.5194/angeo-30-97-2012, 2012.

Huang, S. Y., M. Zhou, F. Sahraoui, **A. Vaivads**, X. H. Deng, **M. André**, J. S. He, H. S. Fu, H. M. Li, Z. G. Yuan and D. D. Wang, Observations of turbulence within reconnection jet in the presence of guide field, *Geophys. Res. Lett.*, 39, L11104, doi:10.1029/2012GL052210, 2012.

Huang, S. Y., A. Vaivads, Y. V. Khotyaintsev, M. Zhou, H. S. Fu, A. Retinò, X. H. Deng, **M. André, C. M. Cully**, J. S. He, F. Sahraoui, Z. G. Yuan and Y. Pang, Electron acceleration in the reconnection diffusion region: Cluster observations, *Geophys. Res. Lett.*, 39, L11103, doi:10.1029/2012GL051946, 2012..

Karlsson, T., N. Brenning, H. Nilsson, J.-G. Trotignon, X. Vallières, and G. Facskó, Localized density enhancements in the magnetosheath: Three-dimensional morphology and possible importance for impulsive penetration, *J. Geophys. Res.*, 117, A03227, doi:10.1029/2011JA017059, 2012.

Li, K., Haaland, S., **Eriksson, A., André, M., Engwall, E.**, Wei, Y., Kronberg, E.A., Fränz, M., Daly, P.W., Zhao, H., Ren, Q.Y., On the ionospheric source region of cold ion outflow, *Geophys. Res. Lett.*, 39, L18102, 2012.

- Liu, Y. H., B.J. Fraser, and F.W. Menk, Pc2 EMIC waves generated high off the equator in the dayside outer magnetosphere, *Geophys. Res. Lett.*, 39, L17102, doi:10.1029/2012GL053082, 2012.
- Lybekk, B., A. Pedersen, S. Haaland, K. Svenes, A.N. Fazakerley, A. Masson, M.G.G.T. Taylor, and J.-G. Trotignon, Solar cycle variations of the Cluster spacecraft potential and its use for electron density estimations, *J. Geophys. Res.*, 117, A01217, doi:10.1029/2011JA016969, 2012.
- Marklund, G. T., S. Sadeghi, Bin Li, O. Amm, J. A. Cumnock, Y. Zhang, H. Nilsson, A. Masson, T. Karlsson, P.-A. Lindqvist, A. Fazakerley, E. Lucek and J. Pickett, Cluster multipoint study of the acceleration potential pattern and electrodynamics of an auroral surge and its associated horn arc, *J. Geophys. Res.*, 117, A10223, doi:10.1029/2012JA018046, 2012.
- Matsui, H., F. Darrouzet, J. Goldstein, P. A. Puhl-Quinn, **Yu. V. Khotyaintsev**, P.-A. Lindqvist, E. Georgescu, C. G. Mouikis and R. B. Torbert, Multi-spacecraft observations of small-scale fluctuations in density and fields in plasmaspheric plumes, *Ann. Geophys.*, 30, 623-637, doi:10.5194/angeo-30-623-2012, 2012.
- Maynard, N. C., C. J. Farrugia, W. J. Burke, D. M. Ober, F. S. Mozer, H. Rème, M. Dunlop, and K. D. Siebert, Cluster observations of the dusk flank magnetopause near the sash: Ion dynamics and flow-through reconnection, *J. Geophys. Res.*, 117, A10201, doi:10.1029/2012JA017703, 2012.
- Nilsson, H., I. A. Barghouthi, R. Slapak, **A. I. Eriksson, and M. André**, Hot and cold ion outflow: Spatial distribution of ion heating, *J. Geophys. Res.*, 117, A11201, doi:10.1029/2012JA017974., 2012.
- Norgren, C., A. Vaivads, Yu. V. Khotyaintsev and M. André**, Lower hybrid drift waves: Space observations, *Phys. Rev. Lett.*, 109, 055001, doi:10.1103/PhysRevLett.109.055001, 2012.
- Nykyri, K., A. Otto, E. Adamson, E. Kronberg, P. Daly, On the origin of high-energy particles in the cusp diamagnetic cavity, *J. Atmos. Solar-Terres. Phys.*, 87-88, 70-81, 2012.
- Omura, Y., and Q. Zhao, Nonlinear pitch angle scattering of relativistic electrons by EMIC waves in the inner magnetosphere, *J. Geophys. Res.*, 117, A08227, 2012.
- Pang, Y., M.H. Lin, X.H. Deng, M. Zhou, and S.Y. Huang, Deformation of plasma bubbles and the associated field aligned current system during substorm recovery phase, *J. Geophys. Res.*, 117, A09223, doi:10.1029/2011JA017410, 2012.
- Salem, C.S., Howes, G.G., Sundkvist, D., S.D. Bale, C.C. Chaston, C.H.K. Chen, and F.S. Mozer, Identification of kinetic Alfvén wave turbulence in the solar wind, *ApJ*, 745, L9, 2012.

Sjögren, A., A. I. Eriksson and C. M. Cully, Simulation of spacecraft sheath impact on Langmuir probe measurements, *IEEE Transactions on Plasma Science*, 40, 1257-1261, doi:10.1109/TPS.2012.2186616, 2012.

Slapak, R., H. Nilsson, L. G. Westerberg, and **A. Eriksson**, Observations of oxygen ions in the dayside magnetosheath associated with southward IMF, *J. Geophys. Res.*, 117, A07218, doi:10.1029/2012JA017754, 2012.

Sundkvist, D., V. Krasnoselskikh, S.D. Bale, S.J. Schwartz, J. Soucek, and F. Mozer, Dispersive nature of high Mach number collisionless plasma shocks: Poynting flux of oblique whistler waves, *Phys. Rev. Lett.*, 108, 025002, 2012.

Tenerani, A., O. Le Contel, F. Califano, F. Pegoraro, P. Robert, N. Cornilleau-Wehrlin, and J.A. Sauvaud, Coupling between whistler waves and ion-scale solitary waves: Cluster measurements in the magnetotail during a substorm, *Phys. Rev. Lett.*, 109, 155005, 2012.

Wang, R., and 17 co-authors, including **M. André and Yu. V. Khotyaintsev**, Asymmetry in the current sheet and secondary magnetic flux ropes during guide field magnetic reconnection, *J. Geophys. Res.*, 117, A07223, doi:10.1029/2011JA017384, 2012.

Waara, M., H. Nilsson, R. Slapak, **M. André** and G. Stenberg, Oxygen ion energization by waves in the high altitude cusp and mantle, *Ann. Geophys.*, 30, 1309-1314, doi:10.5194/angeo-30-1309-2012, 2012.

Zhou, M., W. Su, X.-H. Deng, Y. Ming, Anomalous resistivity associated with secondary islands in the reconnection region, *Chin. Phys. Lett.*, 29, 8, 089401, 2012.

Zhou, M., Deng, X.H., Huang, S.Y., Electric field structure inside the secondary island in the reconnection diffusion region, *Phys. Plasmas*, 19, 042902, 2012.

Zong, Q.-G., Y.F. Wang, H. Zhang, S.Y. Fu, H. Zhang, C.R. Wang, C.J. Yuan, and I. Vogiatzis, Fast acceleration of inner magnetospheric hydrogen and oxygen ions by shock induced ULF waves, *J. Geophys. Res.*, 117, A11206, 2012.