

First Author:

Volwerk, M., R.F. van Oss, J. Kuijpers: Magnetic flares near accreting black holes, *Astron. Astrophys.*, **270**, 265 (1993)

Volwerk, M.: Radiation from electrostatic double layers in laboratory plasmas, *J. Phys. D: Appl. Phys.*, **26**, 1192, doi: 10.1088/0022-3727/26/8/007 (1993)

Volwerk, M., J. Kuijpers: Pair creation in double layers, *Space Sci. Rev.*, **68**, 363, doi: 10.1007/BF00749165 (1994)

Volwerk, M., J. Kuijpers: Strong double layers, existence criteria, and annihilation: An application to solar flares, *Astrophys. J. Suppl. Ser.*, **90**, 589, doi: 10.1086/191879 (1994)

Volwerk, M., P. Louarn, T. Chust, A. Roux, H. de Feraudy: Solitary kinetic Alfvén waves: A study of the Poynting flux, *J. Geophys. Res.*, **101**, 13335, doi: 10.1029/96JA00166 (1996)

Volwerk, M.: Systems III and IV modulation of the Io phase effect in the Io plasma torus, *J. Geophys. Res.*, **102**, 24403, doi: 10.1029/97JA02368 (1997)

Volwerk, M., M.E. Brown, A.J. Dessler, B.R. Sandel: Evidence for short cooling time in the Io plasma torus, *Geophys. Res. Lett.*, **24**, 1147, doi: 10.1029/97GL00966 (1997)

Volwerk, M., M.G. Kivelson, K.K. Khurana, R.L. McPherron: Probing Ganymede's magnetosphere with field line resonances, *J. Geophys. Res.*, **104**, 14729, doi: 10.1029/1999JA900161 (1999)

Volwerk, M., M.G. Kivelson, K.K. Khurana: Wave activity in Europa's wake: Implications for ion pickup, *J. Geophys. Res.*, **106**, doi: 10.1029/1999JA900161 (2001)

Volwerk, M., M. Kivelson, K. Khurana, C. Zimmer: Discovery of water on the Galilean satellites by the Galileo magnetometer, in: *Proceedings of the First European Workshop on Exo-Astrobiology*, Ed.: Huguet Lacoste. **ESA SP-518**, 565 (2002)

Volwerk, M., K.-H. Glaßmeier, A.V. Runov, W. Baumjohann, R. Nakamura, T.L. Zhang, B. Klecker, A. Balogh, H. Rème: Kink mode oscillation of the current sheet, *Geophys. Res. Lett.*, **30**, 1320, doi:10.1029/2002GL016467 (2003)

Volwerk, M., R. Nakamura, W. Baumjohann, R.A. Treumann, A.V. Runov, Z. Vörös, T.L. Zhang, Y. Asano, B. Klecker, I. Richter, A. Balogh, H. Rème: A statistical study of compressional waves in the tail current sheet, *J. Geophys. Res.*, **108**, 1429, doi:10.1029/2003JA010155 (2003)

Volwerk, M., K.-H. Glaßmeier, A.V. Runov, R. Nakamura, W. Baumjohann, B. Klecker, I. Richter, A. Balogh, H. Rème, K. Yumoto: Flow burst-induced large-scale plasma sheet oscillation, *J. Geophys. Res.*, **109**, A11208, doi:10.1029/2004JA010533 (2004)

Volwerk, M., Z. Vörös, W. Baumjohann, R. Nakamura, A.V. Runov, T.L. Zhang, K.-H. Glaßmeier, R.A. Treumann, B. Klecker, A. Balogh, H. Rème: Multi-scale analysis of turbulence in the Earth's current sheet, *Ann. Geophys.*, **22**, 2525 (2004)

Volwerk, M., W. Baumjohann, K.-H. Glaßmeier, R. Nakamura, T.L. Zhang, A.V. Runov, Z. Vörös, B. Klecker, R.A. Treumann, Y. Bogdanova, H.-U. Eichelberger, A. Balogh, H. Rème: Compressional waves in the Earth's neutral sheet, *Ann. Geophys.*, **22**, 303–315 (2004)

Volwerk, M., T.L. Zhang, R. Nakamura, A.V. Runov, W. Baumjohann, K.-H. Glassmeier, T. Takada, H.U. Eichelberger, C.M. Carr, A. Balogh, B. Klecker, H. Rème: Plasma flow channels with ULF waves observed by Cluster and Double Star, *Ann. Geophys.*, **23**, 2929-2935 (2005)

Volwerk, M., K. Khurana, M. Kivelson: Europa's Alfvén wing: shrinkage and displacement influenced by an induced magnetic field, *Ann. Geophys.*, **25**, 905-914(2007)

Volwerk, M., K.-H. Glassmeier, R. Nakamura, T. Takada, W. Baumjohann, B. Klecker, H. Rème, T.L. Zhang, E. Lucek, C.M. Carr: Flow burst-induced Kelvin-Helmholtz waves in the terrestrial magnetotail, *Geophys. Res. Lett.*, **34**, L10102, doi:10.1029/2007GL029459(2007)

Volwerk, M., R. Nakamura, W. Baumjohann, T. Uozumi, K. Yumoto, A. Balogh: Tailward propagation of Pi2 waves in the Earth's magnetotail lobe, *Ann. Geophys.*, **26**, 4023–4030 (2008)

Volwerk, M., T.L. Zhang, K.H. Glassmeier, A. Runov, W. Baumjohann, A. Balogh, H. Rème, B. Klecker, C. Carr: Study of waves in the magnetotail region with Cluster and DSP, *Adv. Space Res.*, **41**, 1593-1597, doi:10.1016/j.asr.2007.04.005 (2008)

Volwerk, M., T.L. Zhang, M. Delva, Z. Vörös, W. Baumjohann, K.-H. Glassmeier: First identification of mirror mode waves in Venus' magnetosheath?, *Geophys. Res. Lett.*, **35**, L12204, doi:10.1029/2008GL033621 (2008)

Volwerk, M., T.L. Zhang, M. Delva, Z. Vörös, W. Baumjohann, K.-H. Glassmeier: Mirror-mode-like structures in Venus' induced magnetosphere, *J. Geophys. Res.*, **113**, E00B16, doi:10.1029/2008JE003154 (2008)

Volwerk, M., A.T.Y. Lui, M. Lester, A.P. Walsh, I. Alexeev, X. Cao, M.W. Dunlop, A.N. Fazakerley, A. Grocott, L. Kistler, X. Lun, C. Mouikis, Z. Pu, C. Shen, J.K. Shi, M.G.G.T. Taylor, W. Baumjohann, R. Nakamura, A. Runov, Z. Vörös, T.L. Zhang, T. Takada, H. Rème, B. Klecker, C.M. Carr: Magnetotail dipolarization and associated current systems observed by Cluster and Double Star, *J. Geophys. Res.*, **113**, A08S90, doi:10.1029/2007JA012729 (2008)

Volwerk, M., M. Delva, Y. Futaana, A. Retinò, Z. Vörös, T.L. Zhang, W. Baumjohann, S. Barabash: Substorm activity in Venus's magnetotail, *Ann. Geophys.*, **27**, 2321–2330 (2009)

Volwerk, M., J. Berchem, Y.V. Bogdanova, O.D. Constantinescu, M.W. Dunlop, J.P. Eastwood, P. Escoubet, A.N. Fazakerley, H. Frey, H. Hasegawa, B. Savraud, E.V. Panov, C. Shen, J.K. Shi, M.G.G.T. Taylor, J. Wang, J.A. Wild, Q.-H. Zhang, O. Amm, J.M. Weygand: Interplanetary magnetic field rotations followed from L1 to the ground: The response of the Earth's magnetosphere as seen by multi-spacecraft and ground-based observations, *Ann. Geophys.*, **29**, 1549-1569, doi:10.5194/angeo-29-1549-2011 (2011)

Volwerk, M., N. Andre, C.S. Arridge, C.M. Jackman, X. Jia, S.E. Milan, A. Radioti, M.F. Vogt, A.P. Walsh, R. Nakamura, A. Masters, C. Forsyth: Comparative magnetotail flapping: An overview of

selected events at Earth, Jupiter and Saturn, *Ann. Geophys.*, **31**, 817-833, doi:10.5194/angeo-31-817-2013 (2013)

Volwerk, M., X. Jia, C. Paranicas, W.S. Kurth, M.G. Kivelson, K.K. Khurana: ULF waves in Ganymede's upstream magnetosphere, *Ann. Geophys.*, **31**, 45-59, doi:10.5194/angeo-31-45-2013 (2013)

Volwerk, M., C. Koenders, M. Delva, I. Richter, K. Schwingenschuh, M.S. Bentley, K.-H. Glassmeier: Corrigendum to "Ion cyclotron waves during the Rosetta approach phase: a magnetic estimate of cometary outgassing" published in *Ann. Geophys.*, 31, 2201-2206, 2013, *Ann. Geophys.*, **31**, 2213, doi:10.5194/angeo-31-2213-2013 (2013)

Volwerk, M., C. Koenders, M. Delva, I. Richter, K. Schwingenschuh, M.S. Bentley, K.-H. Glassmeier: Ion cyclotron waves during the Rosetta approach phase: A magnetic estimate of cometary outgassing, *Ann. Geophys.*, **31**, 2201, doi:10.5194/angeo-31-2201-2013 (2013)

Volwerk, M., K.-H. Glassmeier, M. Delva, D. Schmid, C. Koenders, I. Richter, K. Szegö: A comparison between VEGA 1, 2 and Giotto flybys of comet 1P/Halley: Implications for Rosetta, *Ann. Geophys.*, **32**, 1441, doi:10.5194/angeo-32-1441-2014 (2014)

Volwerk, M., I. Richter, B. Tsurutani, C. Götz, K. Altwegg, T. Broiles, J. Burch, C. Carr, E. Cupido, M. Delva, M. Dósa, N.J.T. Edberg, A. Eriksson, P. Henri, C. Koenders, J.-P. Lebreton, K.E. Mandt, H. Nilsson, A. Opitz, M. Rubin, K. Schwingenschuh, G. Stenberg Wieser, K. Szegö, C. Vallat, X. Vallieres, K.-H. Glassmeier: Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko, *Ann. Geophys.*, **34**, 1, doi:10.5194/angeo-34-1-2016 (2016)

Volwerk, M., D. Schmid, B.T. Tsurutani, M. Delva, F. Plaschke, Y. Narita, T.L. Zhang, K.-H. Glassmeier: Mirror mode waves in Venus's magnetosheath: Solar minimum vs. solar maximum, *Ann. Geophys.*, **34**, 1099, doi:10.5194/angeo-34-1099-2016 (2016)

Volwerk, M., G.H. Jones, T. Broiles, J. Burch, C. Carr, A.J. Coates, E. Cupido, M. Delva, N.J.T. Edberg, A. Eriksson, C. Goetz, R. Goldstein, P. Henri, H. Madanian, H. Nilsson, I. Richter, K. Schwingenschuh, G. Stenberg Wieser, K.-H. Glassmeier: Current sheets in comet 67P/Churyumov-Gerasimenko's coma, *J. Geophys. Res.*, **122**, 3308, doi:10.1002/2017JA023861 (2017)

Volwerk, M., C. Goetz, I. Richter, M. Delva, K. Ostaszewski, K. Schwingenschuh, K.-H. Glassmeier: A tail like no other. The RPC-MAG view of Rosetta's tail excursion at comet 67P/Churyumov-Gerasimenko, *Astron. Astrophys.*, **614**, A10, doi:10.1051/0004-6361/201732198 (2018)

Volwerk, M.: On the location of the Io plasma torus: Voyager 1 observations, *Ann. Geophys.*, **36**, 831, doi:10.5194/angeo-36-831-2018 (2018)

Co-Author:

- Arridge, C.S., J.P. Eastwood, C.M. Jackman, G.-K. Poh, J.A. Slavin, M.F. Thomsen, N. André, X. Jia, A. Kidder, L. Lamy, A. Radioti, D.B. Reisenfeld, N. Sergis, M. Volwerk, A.P. Walsh, P. Zarka, A.J. Coates, M.K. Dougherty: Cassini in situ observations of long-duration magnetic reconnection in Saturn's magnetotail, *Nat. Phys.*, **12**, 268, doi:10.1038/NPHYS3565 (2016)
- Asano, Y., R. Nakamura, W. Baumjohann, A.V. Runov, Z. Vörös, M. Volwerk, T.L. Zhang, A. Balogh, B. Klecker, H. Rème: How typical are atypical current sheets?, *Geophys. Res. Lett.*, **32**, doi:10.1029/2004GL021834 (2005)
- Benz, A.O., T. Kusugi, M.J. Aschwanden, S.G. Benka, E.L. Chupp, S. Enome, H. Garcia, G.D. Holman, V.G. Kurt, T. Sakao, A.V. Stepanov, M. Volwerk, Particle acceleration in flares, *Sol. Phys.*, **153**, 33, doi:10.1007/BF00712491 (1994)
- Boakes, P.D., R. Nakamura, M. Volwerk, S.E. Milan: ECLAT Cluster spacecraft magnetotail plasma region identifications (2001-2009), *Dataset Papers in Science*, **2014**, 684305, doi:10.1155/2014/684305 (2014)
- Chust, T., P. Louarn, M. Volwerk, H. de Feraudy, A. Roux: Electric fields with a large parallel component observed by the Freja spacecraft: Artifacts or real signals?, *J. Geophys. Res.*, **103**, 215, doi:10.1029/97JA02587 (1998)
- De Spiegeleer, A., M. Hamrin, T. Pitkänen, M. Volwerk, I. Mann, H. Nilsson, P. Norqvist, L. Andersson, J. Vaverka: Low-frequency oscillatory flow signatures and high-speed flows in the Earth's magnetotail, *J. Geophys. Res.*, **122**, 7042, doi:10.1002/2017JA024076 (2017)
- Delva, M., T.L. Zhang, M. Volwerk, C.T. Russell, H.Y. Wei: Upstream proton cyclotron waves at Venus, *Planet. Space Sci.*, **56**, 1293–1299, doi:10.1016/j.pss.2008.04.014 (2008)
- Delva, M., T.L. Zhang, M. Volwerk, W. Magnes, C.T. Russell, H.Y. Wei: First upstream proton cyclotron wave observations at Venus, *Geophys. Res. Lett.*, **35**, L03105, doi:10.1029/2007GL032594 (2008)
- Delva, M., T.L. Zhang, M. Volwerk, Z. Vörös, S.A. Pope: Proton cyclotron waves in the solar wind at Venus, *J. Geophys. Res.*, **113**, E00B06, doi:10.1029/2008JE003148 (2008)
- Delva, M., M. Volwerk, C. Mazelle, J.Y. Chaufray, J.L. Bertaux, T.L. Zhang, Z. Vörös: Hydrogen in the extended Venus exosphere, *Geophys. Res. Lett.*, **36**, L01203, doi:10.1029/2008GL036164 (2009)
- Delva, M., C. Mazelle, C. Bertucci, M. Volwerk, Z. Vörös, T.L. Zhang: Proton cyclotron wave generation mechanisms upstream of Venus, *J. Geophys. Res.*, **116**, A02318, doi:10.1029/2010JA015826 (2011)
- Delva, M., C. Bertucci, K. Schwingenschuh, M. Volwerk, N. Romanelli: Magnetic pileup boundary and field draping at Comet Halley, *Planet. Space Sci.*, **96**, 125, doi:10.1016/j.pss.2014.02.010 (2014)
- Delva, M., C. Bertucci, M. Volwerk, R. Lundin, C. Mazelle, N. Romanelli: Upstream proton cyclotron waves at Venus near solar maximum, *J. Geophys. Res.*, **120**, 344, doi:10.1002/2014JA020318 (2015)

Delva, M., M. Volwerk, R. Jarvinen, C. Bertucci: Asymmetries in the magnetosheath field draping on Venus' nightside, *J. Geophys. Res.*, **122**, 10396, doi:10.1002/2017JA024604 (2017)

Desai, R.T., M.M. Cowee, H. Wei, X. Fu, S.P. Gary, M. Volwerk, A.J. Coates: Hybrid simulations of positively and negatively charged pickup ions and cyclotron wave generation at Europa, *J. Geophys. Res.*, **122**, 10408, doi:10.1002/2017JA024479 (2017)

Du, A.M., R. Nakamura, T.L. Zhang, E.V. Panov, W. Baumjohann, H. Luo, W.Y. Xu, Q.M. Lu, M. Volwerk, A. Retinò, B. Zieger, V. Angelopoulos, K.-H. Glassmeier, J.P. McFadden, D. Larson: Fast tailward flows in the plasma sheet boundary layer during a substorm on 9 March 2008: THEMIS observations, *J. Geophys. Res.*, **116**, A03216, doi:10.1029/2010JA015969 (2011)

Du, J., C. Wang, T.L. Zhang, M. Volwerk, C. Carr: Mirror waves and mode transition observed in the magnetosheath by Double Star TC-1, *Ann. Geophys.*, **27**, 351 (2009)

Du, J., T.L. Zhang, C. Wang, M. Volwerk, M. Delva, W. Baumjohann: Magnetosheath fluctuations at Venus for two extreme orientations of the interplanetary magnetic field, *Geophys. Res. Lett.*, **36**, L09102, doi:10.1029/2009GL037725 (2009)

Du, J., T.L. Zhang, W. Baumjohann, C. Wang, M. Volwerk, Z. Vörös, L. Guicking: Statistical study of low - frequency magnetic field fluctuations near Venus under the different interplanetary magnetic field orientations, *J. Geophys. Res.*, **115**, A12251, doi:10.1029/2010JA015549 (2010)

Du, J., T.L. Zhang, R. Nakamura, C. Wang, W. Baumjohann, A.M. Du, M. Volwerk, K.-H. Glassmeier, J.P. McFadden: Mode conversion between Alfvén and slow waves observed in the magnetotail by THEMIS, *Geophys. Res. Lett.*, **38**, L07101, doi:10.1029/2011GL046989 (2011)

Dunlop, M.W., Q.-H. Zhang, Y.V. Bogdanova, K.J. Trattner, Z. Pu, H. Hasegawa, J. Berchem, M.G.G.T. Taylor, M. Volwerk, J.P. Eastwood, B. Lavraud, C. Shen, J.-K. Shi, J. Wang, D. Constantinescu, A.N. Fazakerley, H. Frey, D. Sibeck, P. Escoubet, J.A. Wild, Z.X. Liu, C. Carr: Magnetopause reconnection across wide local time, *Ann. Geophys.*, **29**, 1683, doi:10.5194/angeo-29-1683-2011 (2011)

Dunlop, M.W., Q.-H. Zhang, Y.V. Bogdanova, M. Lockwood, Z. Pu, H. Hasegawa, J. Wang, M.G.G.T. Taylor, J. Berchem, B. Lavraud, J. Eastwood, M. Volwerk, C. Shen, J.-K. Shi, D. Constantinescu, H. Frey, A.N. Fazakerley, D. Sibeck, P. Escoubet, J.A. Wild, Z.-X. Liu: Extended magnetic reconnection across the dayside magnetopause, *Phys. Rev. Lett.*, **107**, doi:10.1103/PhysRevLett.107.025004 (2011)

Edberg, N.J.T., A.I. Eriksson, E. Odelstad, P. Henri, J.-P. Lebreton, S. Gasc, M. Rubin, M. André, R. Gill, E.P.G. Johansson, F. Johansson, E. Vigren, J.E. Wahlund, C.M. Carr, E. Cupido, K.-H. Glassmeier, R. Goldstein, C. Koenders, K. Mandt, Z. Nemeth, H. Nilsson, I. Richter, G. Stenberg Wieser, K. Szego, M. Volwerk: Spatial distribution of low-energy plasma around comet 67P/CG from Rosetta measurements, *Geophys. Res. Lett.*, **42**, 4263, doi:10.1002/2015GL064233 (2015)

Edberg, N.J.T., M. Alho, M. Andre, D.J. Andrews, E. Behar, J.L. Burch, C.M. Carr, E. Cupido, I.A.D. Engelhardt, A.I. Eriksson, K.-H. Glassmeier, C. Goetz, R. Goldstein, P. Henri, F.L. Johansson, C. Koenders, K. Mandt, C. Möstl, H. Nilsson, E. Odelstad, I. Richter, C. Simon Wedlund, G. Stenberg Wieser, K. Szego, E. Vigren, M. Volwerk: CME impact on comet 67P/Churyumov-Gerasimenko, *MNRAS*, **462**, S45, doi:10.1093/mnras/stw2112 (2016)

Goetz, C., C. Koenders, I. Richter, K. Altwegg, J. Burch, C. Carr, E. Cupido, A. Eriksson, C. Güttler, P. Henri, P. Mokashi, Z. Nemeth, H. Nilsson, M. Rubin, H. Sierks, B. Tsurutani, C. Vallat, M. Volwerk, K.-H. Glassmeier: First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko, *Astron. Astrophys.*, **588**, A24, doi:10.1051/0004-6361/201527728 (2016)

Goetz, C., C. Koenders, K.C. Hansen, J. Burch, C. Carr, A. Eriksson, D. Frühauff, C. Güttler, P. Henri, H. Nilsson, I. Richter, M. Rubin, H. Sierks, B. Tsurutani, M. Volwerk, K.H. Glassmeier: Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov-Gerasimenko, *MNRAS*, **463**, S459, doi:10.1093/mnras/stw3148 (2016)

Goetz, C., M. Volwerk, I. Richter, K.-H. Glassmeier: Evolution of the magnetic field at comet 67P/Churyumov-Gerasimenko, *MNRAS*, **469**, S268, doi:10.1093/mnras/stx1570 (2017)

Hasegawa, H., J.P. McFadden, O.D. Constantinescu, Y.V. Bogdanova, J. Wang, M.W. Dunlop, V. Angelopoulos, H.U. Frey, T. Takada, B. Lavraud, Q.-H. Zhang, Z.Y. Pu, A.N. Fazakerley, E.V. Panov, M. Volwerk, C. Shen, J.K. Shi: Boundary layer plasma flows from high-latitude reconnection in the summer hemisphere for northward IMF: THEMIS multi-point observations, *Geophys. Res. Lett.*, **36**, L15107, doi:10.1029/2009GL039410 (2009)

Hasegawa, H., J. Wang, M.W. Dunlop, Z.Y. Pu, Q.-H. Zhang, B. Lavraud, M.G.G.T. Taylor, O.D. Constantinescu, J. Berchem, V. Angelopoulos, J.P. McFadden, H.U. Frey, E.V. Panov, M. Volwerk, Y.V. Bogdanova: Evidence for a flux transfer event generated by multiple X-line reconnection at the magnetopause, *Geophys. Res. Lett.*, **37**, L16101, doi:10.1029/2010GL044219 (2010)

Hettrich, S., Y. Kempf, N. Perakis, J. Gorski, M. Edl, J. Urbar, M. Dosa, F. Gini, O.W. Roberts, St. Schindler, M. Schemmer, D. Steenari, N. Joldzic, L.-K. Glesnes Odegaard, D. Sarria, M. Volwerk, J. Praks: Atmospheric Drag, Occultation 'N' Ionospheric Scintillation (ADONIS) mission proposal, *J Space Weather Space Clim.*, **5**, A2, doi:10.1051/swsc/2015004 (2015)

Huang, G.L., D.Y. Wang, D.J. Wu, H. de Feraudy, D. Le Quéau, M. Volwerk, B. Holback: The eigenmode of solitary kinetic Alfvén waves observed by Freja satellite: *J. Geophys. Res.*, **103**, 7271, doi:10.1029/96JA02607 (1997)

Jackman, C.M., C.S. Arridge, N. André, F. Bagenal, J. Birn, M.P. Freeman, X. Jia, A. Kidder, S.E. Milan, A. Radioti, J.A. Slavin, M.F. Vogt, M. Volwerk, A.P. Walsh: Large-scale structure and dynamics of the magnetotails of Mercury, Earth, Jupiter and Saturn, *Space Sci. Rev.*, **182**, 85, doi:10.1007/s11214-014-0060-8 (2014)

Keika, K., R. Nakamura, W. Baumjohann, A. Runov, T. Takada, M. Volwerk, T.L. Zhang, B. Klecker, E.A. Lucek, C. Carr, H. Réme, I. Dandouras, M. André, H. Frey: Response of the inner magnetosphere and the plasma sheet to a sudden impulse, *J. Geophys. Res.*, **113**, A07S35, doi:10.1029/2007JA012763 (2008)

Keika, K., R. Nakamura, M. Volwerk, V. Angelopoulos, W. Baumjohann, A. Retinò, M. Fujimoto, J.W. Bonnell, H.J. Singer, H.U. Auster, J.P. McFadden, D. Larson, I. Mann: Observations of plasma vortices in the vicinity of flow-braking: A case study, *Ann. Geophys.*, **27**, 3009 (2009)

- Kivelson, M.G., K.K. Khurana, C.T. Russell, M. Volwerk, R.J. Walker, C. Zimmer: Galileo magnetometer measurements: A stronger case for a subsurface ocean at Europa, *Science*, **289**, 1340, doi: 10.1126/science.289.5483.1340 (2000)
- Kivelson, M.G., K.K. Khurana, C.T. Russell, S.P. Joy, M. Volwerk, R.J. Walker, C. Zimmer, J.A. Linker: Magnetized or unmagnetized: Ambiguity persists following Galileo's encounters with Io in 1999 and 2000, *J. Geophys. Res.*, **106**, 26121, doi:10.1029/2000JA002510 (2001)
- Kivelson, M.G., K.K. Khurana, M. Volwerk: The permanent and inductive magnetic moments of Ganymede, *Icarus*, **157**, 507 (2002)
- Kivelson, M.G., K.K. Khurana, M. Volwerk: Europa's interaction with the Jovian magnetosphere, in: *Europa*, Eds. R.T. Pappalardo, W.B. McKinnon, K.K. Khurana, University of Arizona Press, 545 (2009)
- Kuijpers, J., M. Volwerk: Radio emission from polar caps in pulsars, in: *Pulsars: problems and progress*. Eds. S. Johnston, M.A. Walker, M. Bailes, Astronomical Society of the Pacific Conference Series, 105, 181 (1996)
- Lavraud, B., J.E. Borovsky, V. Genot, S.J. Schwartz, J. Birn, A.N. Fazakerley, M.W. Dunlop, M.G.G.T. Taylor, H. Hasegawa, A.P. Rouillard, J. Berchem, Y. Bogdanova, D. Constantinescu, I. Dandouras, J.P. Eastwood, C.P. Escoubet, H. Frey, C. Jacquy, E. Panov, Z.Y. Pu, C. Shen, J. Shi, D.G. Sibeck, M. Volwerk, J.A. Wild: Tracing solar wind plasma entry into the magnetosphere using ion-to-electron temperature ratio, *Geophys. Res. Lett.*, **36**, L18109, doi:10.1029/2009GL039442 (2009)
- Lui, A.T.Y., M. Volwerk, M.W. Dunlop, I.V. Alexeev, A.N. Fazakerley, A.P. Walsh, M. Lester, A. Grocott, C. Mouikis, M.G. Henderson, L.M. Kistler, C. Shen, J.K. Shi, T.L. Zhang, H. Rème: Near-Earth substorm features from multiple satellite observations, *J. Geophys. Res.*, **113**, A07S26, doi:10.1029/2007JA012738 (2008)
- Mandt, K.E., A. Eriksson, N.J.T. Edberg, C. Koenders, T. Broiles, S.A. Fuselier, P. Henri, Z. Nemeth, M. Alho, N. Biver, A. Beth, J. Burch, C. Carr, K. Chae, A.J. Coates, E. Cupido, M. Galand, K.-H. Glassmeier, C. Goetz, R. Goldstein, K.C. Hansen, J. Haiducek, E. Kallio, J.-P. Lebreton, A. Luspay-Kuti, P. Mokashi, H. Nilsson, A. Opitz, I. Richter, M. Samara, K. Szego, C.-Y. Tzou, M. Volwerk, C. Simon Wedlund, G. Stenberg Wieser: RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko, *MNRAS*, **462**, S9- doi:10.1093/mnras/stw1736 (2016)
- Masters, A., N. Achilleos, C.B. Agnor, S. Campagnola, S. Charnoz, B. Christophe, A.J. Coates, L.N. Fletcher, G.H. Jones, L. Lamy, F. Marzari, N. Nettelmann, J. Ruiz, R. Ambrosi, N. Andre, A. Bhardwaj, J.J. Fortney, C.J. Hansen, R. Helled, G. Moragas-Klostermeyer, G. Orton, L. Ray, S. Reynaud, N. Sergis, R. Srama, M. Volwerk: Neptune and Triton: Essential pieces of the Solar System puzzle, *Planet. Space Sci.*, **104**, 108, doi:10.1016/j.pss.2014.05.008 (2014)
- Nakamura, R., W. Baumjohann, A.V. Runov, M. Volwerk, T.L. Zhang, B. Klecker, Y. Bogdanova, A. Roux, A. Balogh, H. Rème, J.A. Sauvaud, H.U. Frey: Fast flow during current sheet thinning, *Geophys. Res. Lett.*, **29**, 2140, doi:10.1029/2002GL016200 (2002)
- Nakamura, R., W. Baumjohann, C. Mouikis, L.M. Kistler, A.V. Runov, M. Volwerk, Y. Asano, Z. Vörös, T.L. Zhang, B. Klecker, H. Rème, A. Balogh: Spatial scale of high-speed flows in the plasma sheet observed by Cluster, *Geophys. Res. Lett.*, **31**, doi:10.1029/2004GL019558 (2004)

Nakamura, R., W. Baumjohann, C. Mouikis, L.M. Kistler, A.V. Runov, M. Volwerk, Y. Asano, Z. Vörös, T.L. Zhang, B. Klecker, A. Balogh, H. Rème: Multi-point observation of the high-speed flows in the plasma sheet, *Adv. Space Res.*, **36**, 1444 (2005)

Nakamura, R., W. Baumjohann, T.L. Zhang, C.M. Carr, A. Balogh, K.-H. Fornacon, E. Georgescu, H. Rème, I. Dandouras, T. Takada, M. Volwerk, Y. Asano, A.V. Runov, H. Eichelberger, B. Klecker, C. Mouikis, L.M. Kistler, O. Amm: Cluster and Double Star observations of dipolarization, *Ann. Geophys.*, **23**, 2915 (2005)

Nakamura, R., A. Retinò, W. Baumjohann, M. Volwerk, N. Erkaev, B. Klecker, E.A. Lucek, I. Dandouras, M. André, Y. Khotyaintsev: Evolution of dipolarization in the near-Earth current sheet induced by earthward rapid flux transport, *Ann. Geophys.*, **27**, 1743 (2009)

Nakamura, R., W. Baumjohann, E. Panov, A.A. Petrukovich, V. Angelopoulos, M. Volwerk, W. Magnes, Y. Nishimura, A. Runov, C.T. Russell, J.M. Weygand, O. Amm, H.U. Auster, J. Bonnell, H. Frey, D. Larson, J. McFadden: Flux transport, dipolarization, and current sheet evolution during a double - onset substorm, *J. Geophys. Res.*, **116**, A00136, doi:10.1029/2010JA015865 (2011)

Nakamura, R., W. Baumjohann, E.V. Panov, M. Volwerk, J. Birn, A. Artemyev, A.A. Petrukovich, O. Amm, L. Juusola, M.V. Kubyshkina, S. Apatenkov, E.A. Kronberg, P.W. Daly, M. Fillingim, J.M. Weygand, A. Fazakerley, Y. Khotyaintsev: Flow bouncing and electron injection observed by Cluster, *J. Geophys. Res.*, **118**, 2055, doi:10.1002/jgra.50134 (2013)

Nilsson, H., G. Stenberg Wieser, E. Behar, C. Simon Wedlund, E. Kallio, H. Gunell, N.J.T. Edberg, A.I. Eriksson, M. Yamauchi, C. Koenders, M. Wieser, R. Lundin, S. Barabash, K. Mandt, J.L. Burch, R. Goldstein, P. Mokashi, C. Carr, E. Cupido, P.T. Fox, K. Szego, Z. Nemeth, A. Fedorov, J.-A. Sauvaud, H. Koskinen, I. Richter, J.-P. Lebreton, P. Henri, M. Volwerk, C. Vallat, B. Geiger: Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. Observations between 3.6 and 2.0 AU, *Astron. Astrophys.*, **583**, A20, doi:10.1051/0004-6361/201526142 (2015)

Nilsson, H., G. Stenberg Wieser, E. Behar, C.S. Wedlund, H. Gunell, M. Yamauchi, R. Lundin, S. Barabash, M. Wieser, C. Carr, E. Cupido, J.L. Burch, A. Fedorov, J.-A. Sauvaud, H. Koskinen, E. Kallio, J.-P. Lebreton, A. Eriksson, N. Edberg, R. Goldstein, P. Henri, C. Koenders, P. Mokashi, Z. Nemeth, I. Richter, K. Szego, M. Volwerk, C. Vallat, M. Rubin: Birth of a comet magnetosphere: A spring of water ions, *Science*, **347**, aaa0571, doi:10.1126/science.aaa0571 (2015)

Panov, E.V., R. Nakamura, W. Baumjohann, V. Angelopoulos, A.A. Petrukovich, A. Retinò, M. Volwerk, T. Takada, K.-H. Glassmeier, J.P. McFadden, D. Larson: Multiple overshoot and rebound of a bursty bulk flow, *Geophys. Res. Lett.*, **37**, L08103, doi:10.1029/2009GL041971 (2010)

Panov, E.V., R. Nakamura, W. Baumjohann, V.A. Sergeev, A.A. Petrukovich, V. Angelopoulos, M. Volwerk, A. Retinò, T. Takada, K.-H. Glassmeier, J.P. McFadden, D. Larson: Plasma sheet thickness during a bursty bulk flow reversal, *J. Geophys. Res.*, **115**, A05213, doi:10.1029/2009JA014743 (2010)

Plaschke, F., C. Goetz, M. Volwerk, I. Richter, D. Frühauff, Y. Narita, K.-H. Glassmeier, M.K. Dougherty: Fluxgate magnetometer offset vector determination by the 3D mirror mode method, *MNRAS*, **469**, S675, doi:10.1093/mnras/stx2532 (2017)

- Plaschke, F., T. Karlsson, C. Götz, C. Möstl, I. Richter, M. Volwerk, A. Eriksson, E. Behar, R. Goldstein: First observations of magnetic holes deep within the coma of a comet, *Astron. Astrophys.*, **618**, A114, doi:10.1051/0004-6361/201833300 (2018)
- Richter, I., C. Koenders, H.-U. Auster, D. Frühauff, C. Götz, P. Heinisch, C. Perschke, U. Motschmann, B. Stoll, K. Altwegg, J. Burch, C. Carr, E. Cupido, A. Eriksson, P. Henri, R. Goldstein, J.-P. Lebreton, P. Mokashi, Z. Nemeth, H. Nilsson, M. Rubin, K. Szegö, B.T. Tsurutani, C. Vallat, M. Volwerk, K.-H. Glassmeier: Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko, *Ann. Geophys.*, **33**, 1031, doi:10.5194/angeo-33-1031-2015 (2015)
- Richter, I., H.-U. Auster, G. Berghofer, C. Carr, E. Cupido, K.-H. Fornacon, C. Goetz, P. Heinisch, C. Koenders, B. Stoll, B.T. Tsurutani, C. Vallat, M. Volwerk, K.-H. Glassmeier: Two-point observations of low-frequency waves at 67P/Churyumov-Gerasimenko during the descent of PHILAE: Comparison of RPCMAG and ROMAP, *Ann. Geophys.*, **34**, 609, doi:10.5194/angeo-34-609-2016 (2016)
- Runov, A.V., R. Nakamura, W. Baumjohann, R.A. Treumann, T.L. Zhang, M. Volwerk, Z. Vörös, A. Balogh, K.-H. Glaßmeier, B. Klecker, H. Rème, L. Kistler: Current sheet structure near magnetic X-line observed by Cluster, *Geophys. Res. Lett.*, **30**, 1579, doi:10.1029/2002GL016730 (2003)
- Runov, A.V., R. Nakamura, W. Baumjohann, T.L. Zhang, M. Volwerk, H.-U. Eichelberger, A. Balogh: Cluster observation of a bifurcated current sheet, *Geophys. Res. Lett.*, **30**, 1036, doi:10.1029/2002GL016136 (2003)
- Runov, A.V., V. Sergeev, R. Nakamura, W. Baumjohann, Z. Vörös, M. Volwerk, Y. Asano, B. Klecker, H. Rème, A. Balogh: Properties of a bifurcated current sheet observed on 29 August 2001, *Ann. Geophys.*, **22**, 2535 (2004)
- Runov, A.V., V.A. Sergeev, R. Nakamura, W. Baumjohann, T.L. Zhang, Y. Asano, M. Volwerk, Z. Vörös, A. Balogh, H. Rème: Reconstruction of the magnetotail current sheet structure using multi-point Cluster measurements, *Planet. Space Sci.*, **53**, 237 (2005)
- Runov, A.V., V.A. Sergeev, W. Baumjohann, R. Nakamura, S. Apatenkov, Y. Asano, M. Volwerk, Z. Vörös, T.L. Zhang, A. Petrukovich, A. Balogh, J.-A. Sauvaud, B. Klecker, H. Rème: Electric current and magnetic field geometry in flapping magnetotail current sheets, *Ann. Geophys.*, **23**, 1391 (2005)
- Runov, A.V., V.A. Sergeev, R. Nakamura, W. Baumjohann, S. Apatenkov, Y. Asano, T. Takada, M. Volwerk, Z. Vörös, T.L. Zhang, J.-A. Sauvaud, H. Rème, A. Balogh: Local structure of the magnetotail current sheet: 2001 Cluster observations, *Ann. Geophys.*, **24**, 247 (2006)
- Runov, A., I. Voronkov, Y. Asano, W. Baumjohann, M. Fujimoto, R. Nakamura, T. Takada, M. Volwerk, Z. Vörös, M. Meurant, A. Fazakerley, H. Rème, A. Balogh: Structure of the near-Earth plasma sheet during tailward flows, *Ann. Geophys.*, **26**, 709, (2008)
- Schmid, D., M. Volwerk, F. Plaschke, R. Nakamura, W. Baumjohann, G.Q. Wang, M.Y. Wu, T.L. Zhang: A statistical study on the properties of dips ahead of dipolarization fronts observed by MMS, *J. Geophys. Res.*, **124**, 139, doi:10.1029/2018JA026062 (2019)
- Schmid, D., M. Volwerk, R. Nakamura, W. Baumjohann, M.F. Heyn: A statistical and event study of magnetotail dipolarization fronts, *Ann. Geophys.*, **29**, 1537, doi:10.5194/angeo-29-1537-2011 (2011)

Schmid, D., M. Volwerk, F. Plaschke, Z. Vörös, T.-L. Zhang, W. Baumjohann, Y. Narita: Mirror mode structures near Venus and comet P/Halley, *Ann. Geophys.*, **32**, 651, doi:10.5194/angeo-32-651-2014 (2014)

Schmid, D., R. Nakamura, F. Plaschke, M. Volwerk, W. Baumjohann: Two states of magnetotail dipolarization fronts: A statistical study, *J. Geophys. Res.*, **120**, 1096, doi:10.1002/2014JA020380 (2015)

Schmid, D., R. Nakamura, M. Volwerk, F. Plaschke, Y. Narita, W. Baumjohann, W. Magnes, D. Fischer, H.U. Eichelberger, R.B. Torbert, C.T. Russell, R.J. Strangeway, H.K. Leinweber, G. Le, K.R. Bromund, B.J. Anderson, J.A. Slavin, E.L. Kepko: A comparative study of dipolarization fronts at MMS and Cluster, *Geophys. Res. Lett.*, **43**, 6012, doi:10.1002/2016GL069520 (2016)

Sergeev, V., A.V. Runov, W. Baumjohann, R. Nakamura, T.L. Zhang, M. Volwerk, A. Balogh, H. Rème, J.A. Sauvaud, M. André, B. Klecker: Current sheet flapping motion and structure observed by Cluster, *Geophys. Res. Lett.*, **30**, 1327, doi:10.1029/2002GL016500 (2003)

Shi, J.K., Z.W. Cheng, T.L. Zhang, M. Dunlop, Z.X. Liu, K. Torkar, A. Fazakerley, E. Lucek, H. Rème, I. Dandouras, A.T.Y. Lui, Z.Y. Pu, A.P. Walsh, M. Volwerk, A.D. Lahiff, M.G.G.T. Taylor, A. Grocott, L.M. Kistler, M. Lester, C. Moukikis, C. Shen: South-north asymmetry of field-aligned currents in the magnetotail observed by Cluster, *Geophys. Res. Lett.*, **115**, A07228, doi:10.1029/2009JA014446 (2010)

Takada, T., R. Nakamura, W. Baumjohann, K. Seki, Z. Vörös, Y. Asano, M. Volwerk, A.V. Rounov, T.L. Zhang, A. Balogh, G. Paschmann, R.B. Torbert, B. Klecker, H. Rème, P. Puhl-Quinn, P. Canu, P.M.E. Décréau: Alfvén waves in the near-PSBL lobe: Cluster observations, *Ann. Geophys.*, **24**, 1001 (2006)

Takada, T., R. Nakamura, W. Baumjohann, Y. Asano, M. Volwerk, T.L. Zhang, B. Klecker, H. Rème, E.A. Lucek, C. Carr: Do BBFs contribute to inner magnetosphere dipolarizations: Concurrent Cluster and Double Star observations, *Geophys. Res. Lett.*, **33**, L21109, doi:10.1029/2006GL027440 (2006)

Takada, T., R. Nakamura, L. Juusola, O. Amm, W. Baumjohann, M. Volwerk, A. Matsuoka, B. Klecker, K. Snekvik, C.J. Owen, A.N. Fazakerley, H.U. Frey, H. Rème, E.A. Lucek, C. Carr: Local field-aligned currents in the magnetotail and ionosphere as observed by a Cluster, Double Star, and MIRACLE conjunction, *J. Geophys. Res.*, **113**, A07S20, doi:10.1029/2007JA012759 (2008)

Takada, T., R. Nakamura, Y. Asano, W. Baumjohann, A. Runov, M. Volwerk, T.L. Zhang, Z. Vörös, K. Keika, B. Klecker, H. Rème, E.A. Lucek, C. Carr, H.U. Frey: Plasma sheet oscillations and their relation to substorm development: Cluster and Double Star TC1 case study, *Adv. Space Res.*, **41**, 1585-1592, doi:10.1016/j.asr.2007.04.008 (2008)

Taylor, M.G.G.T., H. Hasegawa, B. Lavraud, T. Phan, C.P. Escoubet, M.W. Dunlop, Y.V. Bogdanova, A.L. Borg, M. Volwerk, J. Berchem, O.D. Constantinescu, J.P. Eastwood, A. Masson, H. Laakso, J. Soucek, A.N. Fazakerley, H.U. Frey, E.V. Panov, C. Shen, J.K. Shi, D.G. Sibeck, Z.Y. Pu, J. Wang, J.A. Wild: Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause, *Ann. Geophys.*, **30**, 1025, doi:10.5194/angeo-30-1025-2012 (2012)

Teh, W.-L., R. Nakamura, B.U.Ö. Sonnerup, J.P. Eastwood, M. Volwerk, A.N. Fazakerley, W. Baumjohann: Evidence of the origin of the Hall magnetic field for reconnection: Hall MHD

reconstruction results from Cluster observations, *J. Geophys. Res.*, **116**, A11218, doi:10.1029/2011JA016991 (2011)

Tian, A.M., Q.G. Zong, T.L. Zhang, R. Nakamura, A.M. Du, W. Baumjohann, K.H. Glassmeier, M. Volwerk, M. Hartinger, Y.F. Wang, J. Du, B. Yang, X.Y. Zhang, E. Panov: Dynamics of long-period ULF waves in the plasma sheet: Coordinated space and ground observations, *J. Geophys. Res.*, **117**, A03211, doi:10.1029/2011JA016551 (2012)

Vörös, Z., W. Baumjohann, R. Nakamura, A.V. Runov, T.L. Zhang, M. Volwerk, H.U. Eichelberger, A. Balogh, T.S. Horbury, K.-H. Glaßmeier, B. Klecker, H. Rème: Multi-scale magnetic field intermittence in the plasma sheet, *Ann. Geophys.*, **21**, 1955-1964 (2003)

Vörös, Z., W. Baumjohann, R. Nakamura, A.V. Runov, M. Volwerk, T.L. Zhang, A. Balogh: Wavelet analysis of magnetic turbulence in the Earth's plasma sheet, *Phys. Plasmas*, **11**, 1333, doi:10.1063/1.1667499 (2004)

Vörös, Z., W. Baumjohann, R. Nakamura, M. Volwerk, A.V. Runov, T.L. Zhang, H.-U. Eichelberger, R. Treumann, E. Georgescu, A. Balogh, B. Klecker, H. Reme: Magnetic turbulence in the plasma sheet, *J. Geophys. Res.*, **109**, 1 (2004)

Vörös, Z., W. Baumjohann, R. Nakamura, A.V. Runov, M. Volwerk, H. Schwarzl, A. Balogh, H. Rème: Dissipation scales in the Earth's plasma sheet estimated from Cluster measurements, *Nonl. Proc. Geophys.*, **12**, 725 (2005)

Vörös, Z., W. Baumjohann, R. Nakamura, M. Volwerk, A.V. Runov: Bursty bulk flow driven turbulence in the Earth's plasma sheet, *Space Sci. Rev.*, **122**, 301, doi: 10.1007/s11214-006-6987-7 (2006)

Vörös, Z., W. Baumjohann, R. Nakamura, A.V. Runov, M. Volwerk, T. Takada, E.A. Lucek, H. Rème: Spatial structure of plasma flow associated turbulence in the Earth's plasma sheet, *Ann. Geophys.*, **25**, 13 (2007)

Vörös, Z., W. Baumjohann, R. Nakamura, A.V. Runov, M. Volwerk, Y. Asano, D. Jankovicova, E.A. Lucek, H. Rème: Spectral scaling in the turbulent Earth's plasma sheet revisited, *Nonlin. Proc. Geophys.*, **14**, 535 (2007)

Vörös, Z., R. Nakamura, V. Sergeev, W. Baumjohann, A. Runov, T.L. Zhang, M. Volwerk, T. Takada, D. Jankovicova, E. Lucek, H. Reme: Study of reconnection-associated multiscale fluctuations with Cluster and Double Star, *J. Geophys. Res.*, **113**, A07S29, doi:10.1029/2007JA012688 (2008)

Vörös, Z., T.L. Zhang, M.P. Leubner, M. Volwerk, M. Delva, W. Baumjohann: Intermittent turbulence, noisy fluctuations and wavy structures in the Venusian magnetosheath and wake, *J. Geophys. Res.*, **113**, E00B21, doi:10.1029/2008JE003159 (2008)

Vörös, Z., T.L. Zhang, M.P. Leubner, M. Volwerk, M. Delva, W. Baumjohann, K. Kudela: Magnetic fluctuations and turbulence in the Venus magnetosheath and wake, *Geophys. Res. Lett.*, **35**, L11102, doi:10.1029/2008GL033879 (2008)

Vörös, Z., A.V. Runov, M.P. Leubner, W. Baumjohann, M. Volwerk: Is current disruption associated with an inverse cascade?, *Nonlin. Proc. Geophys.*, **17**, 287, doi:10.5194/npg-17-287-2010 (2010)

- Walsh, A.P., A.N. Fazakerley, A.D. Lahiff, M. Volwerk, A. Grocott, M.W. Dunlop, A.T.Y. Lui, L.M. Kistler, M. Lester, C. Mouikis, Z. Pu, C. Shen, J. Shi, M.G.G.T. Taylor, E. Lucek, T.L. Zhang, I. Dandouras: Cluster and Double Star multipoint observations of a plasma bubble, *Ann. Geophys.*, **27**, 725 (2009)
- Walsh, A.P., I.J. Rae, A.N. Fazakerley, K.R. Murphy, I.R. Mann, C.E.J. Watt, M. Volwerk, C. Forsyth, H.J. Singer, E.F. Donovan, T.L. Zhang: Comprehensive ground-based and in situ observations of substorm expansion phase onset, *J. Geophys. Res.*, **115**, A00113, doi:10.1029/2010JA015748 (2010)
- Wang, G.Q., M. Volwerk, R. Nakamura, P. Boakes, T.L. Zhang, A. Yoshikawa, D.G. Baishev: Flapping current sheet with superposed waves seen in space and on the ground, *J. Geophys. Res.*, **119**, 10078, doi:10.1002/2014JA020526 (2014)
- Wang, G.Q., Y.S. Ge, T.L. Zhang, R. Nakamura, M. Volwerk, W. Baumjohann, A.M. Du, Q.M. Lu: A statistical analysis of Pi2-band waves in the plasma sheet and their relation to magnetospheric drivers, *J. Geophys. Res.*, **120**, 6167, doi:10.1002/2014JA020753 (2015)
- Wang, G.Q., T.L. Zhang, M. Volwerk: Statistical study on ultralow-frequency waves in the magnetotail lobe observed by Cluster, *J. Geophys. Res.*, **121**, 5319, doi:10.1002/2016JA022533 (2016)
- Wang, G.Q., T.L. Zhang, M. Volwerk, D. Schmid, W. Baumjohann, R. Nakamura, Z.H. Pan: Mirror mode structures ahead of dipolarization front near the neutral sheet observed by Cluster, *Geophys. Res. Lett.*, **43**, 8853, doi:10.1002/2016GL070382 (2016)
- Wang, G.Q., M. Volwerk, T.L. Zhang, D. Schmid, A. Yoshikawa: High-latitude Pi2 pulsations associated with kink-like neutral sheet oscillations, *J. Geophys. Res.*, **122**, 2889, doi:10.1002/2016JA023370 (2017)
- Wang, G.Q., T.L. Zhang, M.Y. Wu, D. Schmid, J.B. Cao, M. Volwerk: Solar wind directional change triggering flapping motions of the current sheet: MMS observations, *Geophys. Res. Lett.*, **46**, 64, doi:10.1029/2018GL080023 (2019)
- Wang, R.S., R. Nakamura, Q. Lu, A. Du, T.L. Zhang, W. Baumjohann, Y.V. Khotyaintsev, M. Volwerk, M. André, M. Fujimoto, T.K.M. Nakamura, A.N. Fazakerley, J. Du, W.-L. Teh, E.V. Panov, B. Zieger, Y. Pan, S. Lu: 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)
- Wang, R., A. Du, R. Nakamura, Q. Lu, Y.V. Khotyaintsev, M. Volwerk, T.L. Zhang, E.A. Kronberg, P.W. Daly, A.N. Fazakerley: Observation of multiple sub-cavities adjacent to single separatrix, *Geophys. Res. Lett.*, **40**, 2511-2517, doi:10.1002/grl.50537 (2013)
- Wang, R., Q. Lu, Y.V. Khotyaintsev, M. Volwerk, A. Du, R. Nakamura, W.D. Gonzalez, X. Sun, W. Baumjohann, X. Li, T.-L. Zhang, A.N. Fazakerley, C. Huang, M. Wu: Observation of double layer in the separatrix region during magnetic reconnection, *Geophys. Res. Lett.*, **41**, 4851-4858, doi:10.1002/2014GL061157 (2014)
- Wang, R., R. Nakamura, Q. Lu, W. Baumjohann, R.E. Ergun, J.L. Burch, M. Volwerk, A. Varsani, T.K.M. Nakamura, W. Gonzalez, B. Giles, D. Gershman, S. Wang: Electron-scale quadrants of the Hall

magnetic field observed by the Magnetospheric Multiscale spacecraft during asymmetric reconnection, *Phys. Rev. Lett.*, **118**, 175101, doi:10.1103/PhysRevLett.118.175101 (2017)

Wu, M.Y., M. Volwerk, Q.M. Lu, Z. Vörös, R. Nakamura, T.L. Zhang: The proton temperature anisotropy associated with bursty bulk flows in the magnetotail, *J. Geophys. Res.*, **118**, 4875, doi:10.1002/jgra.50451 (2013)

Wu, M.Y., Q.M. Lu, M. Volwerk, Z. Vörös, T.L. Zhang, L.C. Shan, C. Huang: A statistical study of electron acceleration behind the dipolarization fronts in the magnetotail, *J. Geophys. Res.*, **118**, 4804, doi:10.1002/jgra.50456 (2013)

Wu, M., C. Huang, Q. Lu, M. Volwerk, R. Nakamura, Z. Vörös, T.L. Zhang, S. Wang: In situ observations of multistage electron acceleration driven by magnetic reconnection, *J. Geophys. Res.*, **120**, 6320, doi:10.1002/2015JA021165 (2015)

Wu, M., Q. Lu, M. Volwerk, Z. Vörös, X. Ma, S. Wang: Current sheet flapping motions in the tailward flow of magnetic reconnection, *J. Geophys. Res.*, **121**, 7817, doi:10.1002/2016JA022819 (2016)

Wu, M., Q. Lu, M. Volwerk, R. Nakamura, T.-L. Zhang: Electron acceleration behind a wavy dipolarization front, *Astrophys. Space Sci.*, **363**, 22, doi:10.1007/s10509-017-3241-6 (2018)

Wu, Q., A.M. Du, M. Volwerk, G.Q. Wang: The distribution of spectral index of magnetic field and ion velocity in Pi2 frequency band in BBFs: THEMIS statistics, *Adv. Space Res.*, **58**, 847, doi:10.1016/j.asr.2016.05.029 (2016)

Wu, Q., A.M. Du, M. Volwerk, B.T. Tsurutani, Y.S. Ge: The distribution of oscillation frequency of magnetic field and plasma parameters in BBFs: THEMIS statistics, *J. Geophys. Res.*, **122**, 4325, doi:10.1002/2016JA023089 (2017)

Xiao, S., T.L. Zhang, G. Wang, M. Volwerk, Y. Ge, D. Schmid, R. Nakamura, W. Baumjohann, F. Plaschke: Occurrence rate of dipolarization fronts in the plasma sheet: Cluster observations, *Ann. Geophys.*, **35**, 1015, doi:10.5194/angeo-35-1015-2017 (2017)

Zhang, Q.-H., M.W. Dunlop, M. Lockwood, B. Lavraud, Y.V. Bogdanova, H. Hasegawa, H.-G. Yang, R.-Y. Liu, H.-Q. Hu, B.-C. Zhang, Z.-Y. Pu, Z.-W. Yang, J. Wang, M.G.G.T. Taylor, J. Berchem, D. Constantinescu, M. Volwerk, H. Frey, A.N. Fazakerley, C. Shen, J.-K. Shi, D. Sibeck, P. Escoubet, J.A. Wild: Inner plasma structure of the low-latitude reconnection layer, *J. Geophys. Res.*, **117**, A08205, doi:10.1029/2012JA017622 (2012)

Zhang, T.L., W. Baumjohann, R. Nakamura, M. Volwerk, A.V. Runov, Z. Vörös, K.-H. Glassmeier, A. Balogh: Neutral sheet normal direction determination, *Adv. Space Res.*, **36**, 1940 (2005)

Zhang, T.L., R. Nakamura, M. Volwerk, A.V. Runov, W. Baumjohann, H.U. Eichelberger, C. Carr, A. Balogh, V. Sergeev, J.K. Shi, K.-H. Fornacon: Double Star/Cluster observation of neutral sheet oscillations on 5 August 2004, *Ann. Geophys.*, **23**, 2909 (2005)

Zhang, T.L., W. Baumjohann, R. Nakamura, A.V. Rounov, M. Volwerk, Y. Asano, Z. Vörös, H.-U. Eichelberger, V. Sergeev, J.K. Shi, A. Balogh: A statistical survey of the magnetotail current sheet, *Adv. Space Res.*, **38**, 1834, doi:10.1016/j.asr.2006.05.009 (2006)

Zhang, T.L., M. Delva, W. Baumjohann, H.-U. Auster, C. Carr, C.T. Russell, S. Barabash, M. Balikhin, K. Kudela, G. Berghofer, H.K. Biernat, H. Lammer, H.I.M. Lichtenegger, W. Magnes, R. Nakamura, K. Schwingenschuh, M. Volwerk, Z. Vörös., W. Zambelli, K.-H. Fornacon, K.-H. Glassmeier, I. Richter, A. Balogh, H. Schwarzl, S.A. Pope, J.K. Shi, C. Wang, U. Motschmann, J.-P. Lebreton: Little or no solar wind enters Venus' atmosphere at solar minimum, *Nature*, **450**, 654, doi:10.1038/nature06026 (2007)

Zhang, T.L., C.T. Russell, W. Baumjohann, L.K. Jian, M.A. Balikhin, J.B. Cao, C. Wang, X. Blanco-Cano, K.H. Glassmeier, W. Zambelli, M. Volwerk, M. Delva, Z. Vörös: Characteristic size and shape of the mirror mode structures in the solar wind at 0.72 AU, *Geophys. Res. Lett.*, **35**, L10106, doi:10.1029/2008GL033793 (2008)

Zhang, T.L., C.T. Russell, W. Zambelli, Z. Vörös, C. Wang, J.B. Cao, L.K. Jian, R.J. Strangeway, M. Balikhin, W. Baumjohann, M. Delva, M. Volwerk, K.H. Glassmeier: Behavior of current sheets at directional magnetic discontinuities in the solar wind at 0.72 AU, *Geophys. Res. Lett.*, **35**, L24102, doi:10.1029/2008GL036120 (2008)

Zhang, T.L., M. Delva, W. Baumjohann, M. Volwerk, C.T. Russell, H.Y. Wei, C. Wang, M. Balikhin, S. Barabash, H.U. Auster, K. Kudela: The induced magnetosphere and its outer boundary at Venus, *J. Geophys. Res.*, **113**, E00B20, doi:10.1029/2008JE003215 (2008)

Zhang, T.L., M. Delva, W. Baumjohann, M. Volwerk, C.T. Russell, S. Barabash, M. Balikhin, S. Pope, K.-H. Glassmeier, C. Wang, K. Kudela: Initial Venus Express magnetic field observations of the magnetic barrier at solar minimum, *Planet. Space Sci.*, **56**, 790-795, doi:10.1016/j.pss.2007.10.013 (2008)

Zhang, T.L., M. Delva, W. Baumjohann, M. Volwerk, C.T. Russell, S. Barabash, M. Balikhin, S. Pope, K.-H. Glassmeier, K. Kudela, C. Wang, Z. Vörös, W. Zambelli: Initial Venus Express magnetic field observations of the Venus bow shock location at solar minimum, *Planet. Space Sci.*, **56**, 785, doi:10.1016/j.pss.2007.09.012 (2008)

Zhang, T.L., S. Pope, M. Balikhin, C.T. Russell, L.K. Jian, M. Volwerk, M. Delva, W. Baumjohann, C. Wang, J.B. Cao, M. Gedalin, K.-H. Glassmeier, K. Kudela: Venus Express observations of an atypically distant bow shock during the passage of an interplanetary coronal mass ejection, *J. Geophys. Res.*, **113**, E00B12, doi:10.1029/2008JE003128 (2008)

Zhang, T.L., W. Baumjohann, C.T. Russell, L.K. Jian, C. Wang, J.B. Cao, M. Balikhin, X. Blanco-Cano, M. Delva, M. Volwerk: Mirror mode structures in the solar wind at 0.72 AU, *J. Geophys. Res.*, **114**, A10107, doi:10.1029/2009JA014103 (2009)

Zhong, J., Z.Y. Pu, M.W. Dunlop, Y.V. Bogdanova, X.G. Wang, C.J. Xiao, R.L. Guo, H. Hasegawa, J. Raeder, X.Z. Zhou, V. Angelopoulos, Q.G. Zong, S.Y. Fu, L. Xie, M.G.G.T. Taylor, C. Shen, J. Berchem, Q.H. Zhang, M. Volwerk, J.P. Eastwood: Three-dimensional magnetic flux rope structure formed by multiple sequential X-line reconnection at the magnetopause, *J. Geophys. Res.*, **118**, 1904, doi:10.1002/jgra.50281 (2013)