

List of publications

[Citations from WoS/ISI as of Feb 2017]

1978

1. **W. Baumjohann**, R.A. Greenwald, F. Küppers: Joint magnetometer array and radar backscatter observations of auroral currents in northern Scandinavia. *J. Geophys.*, 44, 373-383, 1978 [44]^Δ
2. J. Untiedt, R. Pellinen, F. Küppers, H.J. Opgenoorth, W.D. Pelster, **W. Baumjohann**, H. Ranta, J. Kangas, P. Czechowsky, W.J. Heikkila: Observations of the initial development of an auroral and magnetic substorm. *J. Geophys.*, 45, 41-64, 1978 [51]

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3. **W. Baumjohann**: Spatially inhomogeneous current configurations as seen by the Scandinavian Magnetometer Array. In *Magnetospheric Study 1979*, ed. by T. Obayashi, pp. 35-40, Tokyo, 1979* [24]
4. **W. Baumjohann**, H. Sulzbacher, T.A. Potemra: Joint magnetic observations of small-scale structures with Triad and the Scandinavian Magnetometer Array. In *Magnetospheric Study 1979*, ed. by T. Obayashi, pp. 49-52, Tokyo, 1979* [13]
5. U. Mersmann, **W. Baumjohann**, F. Küppers, K. Lange: Analysis of an eastward electrojet by means of upward continuation of ground-based magnetometer data. *J. Geophys.*, 45, 281-298, 1979 [52]
6. F. Küppers, J. Untiedt, **W. Baumjohann**, K. Lange, A.G. Jones: A two-dimensional magnetometer array for ground-based observations of auroral zone electric currents during the International Magnetospheric Study (IMS). *J. Geophys.*, 46, 429-450, 1979 [110]

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7. H. Sulzbacher, **W. Baumjohann**, T.A. Potemra: Coordinated magnetic observations of morning sector auroral zone currents with TRIAD and the Scandinavian Magnetometer Array. *J. Geophys.*, 48, 7-17, 1980 [23]
8. **W. Baumjohann**, J. Untiedt, R.A. Greenwald: Joint two-dimensional observations of ground magnetic and ionospheric electric fields associated with auroral zone currents: 1. Three-dimensional current flows associated with a substorm-intensified eastward electrojet. *J. Geophys. Res.*, 85, 1963-1978, 1980 [55]
9. K. Wilhelm, N. Klöcker, B. Theile, W. Ott, K. Spenner, R. Grabowski, H. Wolf, W. Stüdemann, G. Dehmel, H.M. Fischer, G.L. Schmidtke, **W. Baumjohann**, W. Riedler, A. Urban: Sounding rocket observations of field-aligned current sheets. *ESA-SP*, 152, 279-284, 1980* [7]

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10. K. Brüning, **W. Baumjohann**, K. Wilhelm, W. Stüdemann, A. Urban, W. Ott, K. Spenner, G.L. Schmidtke, H.M. Fischer: Application of different methods for the determination of ionospheric conductivities from sounding rocket observations. *J. Geophys.*, 49, 74-81, 1981 [11]
11. K. Wilhelm, N. Klöcker, B. Theile, W. Ott, K. Spenner, R. Grabowski, H. Wolf, W. Stüdemann, G. Dehmel, H.M. Fischer, G.L. Schmidtke, **W. Baumjohann**, W. Riedler, A. Urban: Observations of field-aligned current sheets above discrete auroral arcs. *J. Geophys.*, 49, 128-137, 1981 [2]
12. G. Gustafsson, **W. Baumjohann**, I. Iversen: Multi-method observations and modelling of the three-dimensional currents associated with a very strong Ps6 event. *J. Geophys.*, 49, 138-145, 1981 [46]
13. **W. Baumjohann**, R. J. Pellinen, H.J. Opgenoorth, E. Nielsen: Joint two-dimensional observations of ground magnetic and ionospheric electric fields associated with auroral zone currents: Current systems associated with local auroral break-ups. *Planet. Space Sci.*, 29, 431-447, 1981 [209]
14. B. Inhester, **W. Baumjohann**, R.A. Greenwald, E. Nielsen: Joint two-dimensional observations of ground magnetic and ionospheric electric fields associated with auroral zone currents: 3. Auroral zone currents during the passage of a westward travelling surge. *J. Geophys.*, 49, 155-162, 1981 [123]

^Δ Square brackets enclose number of citations (if any)

* Publications marked by asterisk have not been refereed

15. **W. Baumjohann**, V.M. Mishin, T.I. Saifudinova, G.B. Shpynev, A.D. Bazarzhapov: Substorms, microsubstorms and disruption of currents in the magnetospheric plasma sheet. *Issled. Geomag. Aeron. Fiz. Sol.*, 53, 172-181, 1981 [3]
16. **W. Baumjohann**, Y. Kamide: Joint two-dimensional observations of ground magnetic and ionospheric electric fields associated with auroral zone currents: 2. Three-dimensional current flow in the morning sector during substorm recovery. *J. Geomag. Geoelec.*, 33, 297-318, 1981 [25]
17. T. Bösinger, K. Alanko, J. Kangas, H.J. Opgenoorth, **W. Baumjohann**: Correlation between PiB-type magnetic micropulsations, auroras, and equivalent current structures during two isolated substorms. *J. Atmos. Terr. Phys.*, 43, 933-945, 1981 [48]
18. **W. Baumjohann**: A simple method for calculating latitudinally integrated Joule heating rates during the Energy Budget Campaign. In *Energy Budget Campaign 1980*, ed. by D. Offermann and E.V. Thrane, pp. 46-56, Bonn, 1981* [1]
19. **W. Baumjohann**: Substorm current systems. In *Proceedings of the Finnish-American Auroral Workshop*, ed. by L. Jalonon and T. Nygren, pp. 98-103, Oulu, 1981*

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23. Y. Kamide, S.-I. Akasofu, B.-H. Ahn, **W. Baumjohann**, J.L. Kisabeth: Total current of the auroral electrojet estimated from the IMS Alaska meridian chain of magnetic observatories. *Planet. Space Sci.*, 30, 621-625, 1982 [11]
24. R.J. Pellinen, **W. Baumjohann**, E. Nielsen: Examples of multi-instrumental studies on auroral phenomena. In *The IMS Source Book*, ed. by C.T. Russell and D.J. Southwood, pp. 124-133, Washington, 1982 [2]
25. **W. Baumjohann**: Magnetometer networks in Northern Europe. In *The IMS Source Book*, ed. by C.T. Russell and D.J. Southwood, pp. 134-140, Washington, 1982 [3]
26. Y. Kamide, B.-H. Ahn, S.-I. Akasofu, **W. Baumjohann**, E. Friis-Christensen, H.W. Kroehl, H. Maurer, A.D. Richmond, G. Rostoker, R.W. Spiro, J.K. Walker, A.N. Zaitsev: Global distribution of ionospheric and field-aligned currents during substorms determined using data from six IMS meridian chains: Initial results. *J. Geophys. Res.*, 87, 8228-8240, 1982 [77]
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 34. H.J. Opgenoorth, R.J. Pellinen, **W. Baumjohann**, E. Nielsen, G. Marklund, L. Eliasson: Three-dimensional current flow and particle precipitation in a westward travelling surge (observed during the Barium-GEOS rocket experiment). *J. Geophys. Res.*, *88*, 3138-3152, 1983 [147]
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 37. A.G. Yahnin, V.A. Sergeev, R.J. Pellinen, **W. Baumjohann**, K.U. Kaila, H. Ranta, J. Kangas, O.M. Raspopov: Substorm time sequence and microstructure on 11 November 1976. *J. Geophys.*, *53*, 182-197, 1983 [41]
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