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Scientific Publications of Kumpula Space Centre 2010

Ph.D. Theses

- Alha, Lauri, Characterization of Non-Imaging Semiconductor X-ray Solar Monitors, Report Series in Astronomy 3, Helsinki 2010, ISBN 978-952-10-5985-8, ISSN 1799-3024, [ISBN 978-952-10-5986-5 \(pdf\)](#)
- Miettinen, Oskari, Molecular Line and Continuum Studies of the Early Stages of Star Formation Report Series in Astronomy 1, Helsinki 2010, ISBN 978-952-10-5981-0, ISSN 1799-3024, [ISBN 978-952-10-5982-7 \(pdf\)](#)
- Sandroos, Arto, Shock Acceleration in the Solar Corona, Finnish Meteorological Institute Contributions 83, Helsinki 2010, ISBN 978-951-697-715-0, ISSN 0782-6117, [ISBN 978-951-697-716-7 \(pdf\)](#)
- Väänänen, Mikko, Studies of Solar and Stellar Flares Using Multi-Instrument Data, Report Series in Astronomy 2, Helsinki 2010, ISBN 978-952-10-5983-4, ISSN 1799-3024, [ISBN 978-952-10-5984-1\(pdf\)](#) (PhD degree awarded in 2011)

Peer-reviewed scientific publications (110)

- Agueda, N, Vainio, R, Lario, D & Sanahuja, B 2010, 'Solar near-relativistic electron observations as a proof of a back-scatter region beyond 1 AU during the 2000 February 18 event', *Astronomy & Astrophysics*, vol 519, pp. A36.
- Amm O., et al. 2010, Local determination of ionospheric plasma convection from coherent scatter radar data using the SECS technique, *J. Geophys. Res.*, 115, A03304, doi:10.1029/2009JA01483
- Amm O., et al. (with Kauristie K., Vanhamäki H.) 2010, A statistical investigation of the Cowling channel efficiency in the auroral zone, *J. Geophys. Res.*, doi:10.1029/2010JA015988
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- Bersanelli, M et al. (with Poutanen, T) 2010, 'Planck pre-launch status: Design and description of the Low Frequency Instrument', *Astronomy & Astrophysics*, vol 520, pp. A4.
- Bertaux, J. L. et al. (with Kyrölä, E., Sofieva, V., Tamminen, Leppelmeier, G. W.) 2010: Global ozone monitoring by occultation of stars: an overview of GOMOS measurements on ENVISAT. *Atmos. Chem. Phys.*, 10, 12091-12148.
- Brain, D., et al (with E. Kallio) 2010: A Comparison of Global Models for the Solar Wind Interaction with Mars. *Icarus*, Vol. 206, Issue 1, pp 139-151. doi:10.1016/j.icarus.2009.06.030
- Briquet, M, Korhonen, H, Gonzalez, JF, Hubrig, S & Hackman, T 2010, 'Dynamical evolution of titanium, strontium, and yttrium spots on the surface of the HgMn star HD11753', *Astronomy & Astrophysics*, vol 511, pp. A71.

- Calbet X., Kivi R, Tjemkes S., Montagner F., Stuhlman R., Matching radiative transfer models and radiosonde data from the EPS/MetOp Sodankylä campaign to IASI measurements., *Atmos. Meas. Tech. Discuss.*, 3, 4497-4530, 2010.
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