

# Scientific Publications

## Articles in International Scientific Journals with Referee Practice

1. Kocharov, L., R. Vainio, J. Pomoell, E. Valtonen, A. Klassen, and C. A. Young, *Non-Standard Energy Spectra of Shock Accelerated Solar Particles*, *Astrophys. J.* (2012), in press.
2. Hietala, H., A. Sandroos, and R. Vainio, *Particle Acceleration in Shock-Shock Interaction: Model to Data Comparison*, *Astrophys. J. Lett.* (2012), in press.
3. Ganse, U., P. Kilian, F. Spanier, and R. Vainio, *Nonlinear Wave Interactions as Emission Process of Type II Radio Bursts*, *Astrophys. J.* (2012), in press.
4. Agueda, N., D. Lario, V. Ontiveros, E. Kilpua, B. Sanahuja, and R. Vainio, *Multi-spacecraft Study of the 8 November 2000 SEP Event: Electron Injection Histories 100° Apart*, *Solar Phys.* (2012), in press.
5. Pomoell, J., and R. Vainio, *Influence of Solar Wind Heating Formulations on the Properties of Shocks in the Corona*, *Astrophys. J.* **745** (2012), 151.
6. Battarbee, M., T. Laitinen, and R. Vainio, *Heavy-ion Acceleration and Self-Generated Waves in Coronal Shocks*, *Astron. Astrophys.* **535** (2011), 34.
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12. Watermann, J., R. Vainio, J. Liliensten, A. Belehaki, and M. Messerotti, *The State of Space Weather Scientific Modeling—An Introduction*, *Space Sci. Rev.* **147** (2009), 111.
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32. Tammi, J., and R. Vainio, *Turbulence Transmission in Parallel Relativistic Shocks Using Ray Tracing*, Astron. Astrophys. **460** (2006), 23.
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## Articles in Scientific Monographs and International Conference Proceedings with Referee Practice

1. Battarbee, M., T. Laitinen, R. Vainio, and N. Agueda, *Acceleration of Energetic Particles through Self-Generated Waves in a Decelerating Coronal Shock Wave*, in: M. Maksimovic et al. (eds.), *Twelfth International Solar Wind Conference*, AIP Conf. Proc. **1216** (2010), 84.
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9. Pick, M., T. G. Forbes, G. Mann, H. V. Cane, J. Chen, A. Ciaravella, H. Cremades, R. A. Howard, H. S. Hudson, A. Klassen, K. L. Klein, M. A. Lee, J. A. Linker, D. Maia, Z. Mikić, J. C. Raymond, M. J. Reiner, G. M. Simnett, N. Srivastava, D. Tripathi, R. Vainio, A. Vourlidas, J. Zhang, T. H. Zurbuchen, N. R. Sheeley, and C. Marqué, *Multi-Wavelength Observations of CMEs and Associated Phenomena*, in H. Kunow, N. Crooker, J. Linker, R. Schwenn, R. von Steiger (eds.): *Coronal Mass Ejections*, Springer, Dordrecht, (2007), p. 341. Published also in Space Sci. Rev.
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Vainio, R., *Monte-Carlo Simulations of Interplanetary Transport and Acceleration of Energetic Particles*, Annales Universitatis Turkuensis – Part A1, **226** (1998), Turku University Library, Turku.

## Other Scientific Publications

1. Näsilä, A., A. Hakkarainen, J. Praks, A. Kestilä, K. Nordling, R. Modrzewski, H. Saari, J. Antila, R. Mannila, P. Janhunen, R. Vainio, and M. Hallikainen, *Aalto-1: a hyperspectral Earth observing nanosatellite*, Proc. SPIE **8176** (2011), 81760C.
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9. Vainio, R., N. Agueda, T. Laitinen, and M. Battarbee, *Simulations of coronal shock acceleration in self-generated waves*, Proc. 31st Internat. Cosmic Ray Conf. (2009). CD-ROM: ISBN 978-83-929057-0-7
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