

Publication List

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Articles in refereed journals

The published papers are distributed as follows

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| Baltic Astronomy | 1 |
| Plasma and Fusion Research | 1 |
| Total: | 192 |

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3. A. S. Sharma, B. Eliasson, X. Shao, and D. K. Papadopoulos: Generation of ELF waves during HF heating of the ionosphere at midlatitudes, Radio Science (in press 2016).

4. H. Schamel and B. Eliasson: On the correct implementation of Fermi-Dirac statistics and electron trapping in nonlinear electrostatic plane wave propagation in collisionless plasmas, *Physics of Plasmas* (in press 2016).
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Book Chapters

1. A. S. Sharma, B. Eliasson, G. Milikh, A. Najmi, D. K. Papadopoulos, X. Shao, and A. Vartanyan: Low Frequency Waves in HF Heating of the Ionosphere, in *Low-Frequency Waves in Space Plasmas*, Eds. A. Keilin, D. Lee, and V. Nakariakov, Geophysical Monograph Series 216, pp. 31-49, doi:10.1002/9781119055006.ch3 (John Wiley & Sons, Inc, Hoboken, NJ, 2016).

1. B. Eliasson, L. Stenflo, R. Bingham and J. T. Mendonça (Guest Editors), Special Issue in memory of Professor Padma Kant Shukla (1950-2013). *Journal of Plasma Physics* **79**(06) (December 2013).
2. J. T. Mendonça, P. K. Shukla, B. Eliasson, and J. A. Rodrigues (Guest Editors), Proceedings of the 2012 International Topical Conference on Plasma Science: Advanced Plasma Concepts, held in Faro, Portugal, 24-28 September 2012. *Journal of Plasma Physics* **79** (04) (August 2013).
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4. P. K. Shukla, B. Eliasson, J. T. Mendonca and D. Resendes (Editors), International Topical Conference on Plasma Science: Strongly Coupled Ultra-Cold and Quantum Plasmas Lisbon, Portugal 12-14 September 2011. ISBN 978-0-7354-0999-6, ISSN 0094-243X (print), 1551-7616 (online). *AIP Conference Proceedings* **1421** (2012).
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Conference and Workshop contributions (The presenting author is underlined)

1. X. Shao, T.-C. Liu, C.-S. Liu, B. Eliasson, J. Wang, and S.-H. Chen: Generation of whistler waves by continuous HF heating of the upper ionosphere. Bulletin of the APS, 55th Annual Meeting of the APS Division of Plasma Physics Volume 58, Number 16 (2013). Monday-Friday, November 11-15, 2013; Denver, Colorado. Abstract GP8.00097. Poster presentation.
2. G. M. Milikh, B. Eliasson, X. Shao, B. Djordjevic, E. V. Mishin, K. Zawdie, and K. Papadopoulos: Geometric Aspects of artificial ionospheric layers driven by high-power HF-heating. AGU Fall Meeting, San Francisco, 9-13 December 2013. Abstract SA21A-2006. Poster presentation.
3. A. Vartanyan, G. M. Milikh, B. E. Eliasson, A. S. Sharma, C.-L. Chang, M. Parrot, and K. Papadopoulos: Generation of whistler waves by continuous HF heating of the upper ionosphere. AGU Fall Meeting, San Francisco, 9-13 December 2013. Abstract SA21A-2013. Poster presentation.
4. B. Eliasson, X. Shao, K. Papadopoulos, and G. M. Milikh, Modeling ELF wave injection and propagation into the magnetosphere by the ionospheric current drive, AGU Fall Meeting, San Francisco, Calif. 3-7 December 2012. Abstract SA12A-04. Talk.
5. G. M. Milikh, B. Eliasson, X. Shao, E. V. Mishin, and K. Papadopoulos, Numerical modeling of artificial ionospheric layers driven by high-power HF-heating. AGU Fall Meeting, San Francisco, Calif. 3-7 December 2012. Abstract SA13A-2150. Poster presentation.
6. A. Vartanyan, B. Eliasson, G. M. Milikh, X. Shao, and K. Papadopoulos, Modeling of wave dynamics following modulated ionospheric heating. AGU Fall Meeting, San Francisco, Calif. 3-7 December 2012. Abstract SA13A-2157. Poster presentation.
7. B. Eliasson, Relativistic X-ray quantum free electron lasers: a collective Klein-Gordon model. Joint 39th European Physical Society Conference on Plasma Physics and 16th International Congress on Plasma Physics, Stockholm, Sweden, 2-6 July 2012. Invited talk I3.212.
8. P. K. Shukla, B. Eliasson, and L. Stenflo, Hydromagnetic solitary and shocks waves in a magnetoplasma, Joint 39th European Physical Society Conference on Plasma Physics and 16th International Congress on Plasma Physics, Stockholm, Sweden, 2-6 July 2012. Poster presentation P4.180.
9. M. Holmström and B. Eliasson, Modeling the Lunar Plasma wake. Joint 39th European Physical Society Conference on Plasma Physics and 16th International Congress on Plasma Physics, Stockholm, Sweden, 2-6 July 2012. Oral presentation O5.409.
10. C. S. Liu, X. Shao, T. C. Liu, J. J. Su, M. Q. He, B. Eliasson, V. K. Tripathi, G. Dudnikova, R. Z. Sagdeev, S. Wilks, C. D. Chen, and Z. M. Sheng, Laser radiation pressure accelerator for quasi-monoenergetic proton generation and its medical implications. In K. Yamanouchi, M. Nisoli, and W. T. Hill III (Editors) Progress in Ultrafast Intense Laser Science VIII Springer Series in Chemical Physics, Vol. 103, doi:10.1007/978-3-642-28726-8_9. (Springer-Verlag, Berlin Heidelberg, 2012). Chapter 9, pp. 177-193. ISBN-10: 3642287255, ISBN-13: 978-3642287251.
11. B. Eliasson and P. K. Shukla, Nonlinear relativistic interactions between electromagnetic waves and quantum plasmas. International Topical Conference on Plasma Science: Strongly Coupled Ultra-Cold and Quantum Plasmas, 12-14 September 2011, Lisbon, Portugal. AIP Conference Proceedings 1421, pp. 177-192; doi:10.1063/1.3679596 (2012).

12. X. Shao, B. Eliasson, S. F. Fung, L. N. Garcia, Full Scale Time Domain Modeling of the Interaction of HF Waves with the Topside Ionosphere, *URSI General Assembly*, 13-20 August 2011, Istanbul, Turkey. Poster HP2.7.
13. K. Papadopoulos, B. Eliasson, X. Shao, and A. S. Sharma, Modeling Pitch Angle Scattering of Radiation Belt Particles by the Injection of Low Frequency Waves with F-region HF-Driven Ionospheric Currents, *URSI General Assembly*, 13-20 August 2011, Istanbul, Turkey. Talk H03.1.
14. C. S. Liu, X. Shao, B. Eliasson, T. C. Liu, Galina Dudnikova, and Roald Z. Sagdeev, Laser Acceleration of Quasi-Monoenergetic Protons via Radiation Pressure Driven Thin Foil, in *Modern Challenges in Nonlinear Plasma Physics: A Festschrift Honoring the Career of Dennis Papadopoulos*, Sani Resort, Halkidiki, (Greece), 15–19 June 2009. *AIP Conference Proceedings* **1320**, pp. 104-110, doi:10.1063/1.3544313 (2011).
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 60. B. Eliasson, Numerical Vlasov simulations: Problems and applications, *Autumn College on Plasma Physics*, Abdus Salam ICTP, Trieste (Italy), 5-30 September, 2005. Lecture.
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81. B. Eliasson, Vlasov-Maxwell computer simulations of plasma turbulent processes in geospace to be studied with LOIS. *4th LOIS Workshop*, Uppsala, Sweden, 23–25 June 2003. Talk.
82. B. Eliasson and P. K. Shukla, Analytical and Simulation Studies of Nonlinear Effects Caused by Upper-Hybrid Waves in Plasmas, *STAMMS meeting* in Orléans, France, May 12–16, 2003. Poster presentation.

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