

5.LIST OF PUBLICATIONS

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Part of the work of the Association has been presented in the following articles, which have appeared (or

1. J. Gr. Pagonakis and J. L. Vomvouridis, "Evolution of an electron beam with azimuthal magnetic field", *Journal of Plasma Physics*, vol. 78, part 2, pp. 171-182, 2007.
2. A. A. Maragos, Z. C. Ioannidis and I. G. Tigelis, "Dispersion characteristics of a relativistic electron beam in a uniform magnetic field", *Journal of Plasma Physics*, vol. 78, part 2, pp. 183-192, 2007.
3. Z. C. Ioannidis, S. Mallios, I. D. Paraskevopoulos and I. G. Tigelis, "Axisymmetric relativistic electron beam in a uniform magnetic field", *Journal of Plasma Physics*, vol. 78, part 2, pp. 193-202, 2007.
4. K. A. Avramides, C. T. Iatrou and J. L. Vomvouridis, "Design considerations for a relativistic electron beam in a uniform magnetic field", *Journal of Plasma Physics*, vol. 78, part 2, pp. 203-212, 2007.
5. G. Breyiannis and D. Valougeorgis, "Lattice kinetic simulations in 3-D magneto-relativistic electron beams", *Journal of Plasma Physics*, vol. 78, part 2, pp. 213-222, 2007.
6. D. Valougeorgis and S. Naris "Analytical Lattice Boltzmann solutions for thermal electron beams in a uniform magnetic field", *Journal of Plasma Physics*, vol. 78, part 2, pp. 223-232, 2007.
7. D. Valougeorgis and S. Naris, "Acceleration schemes of the discrete velocity method for relativistic electron beams in a uniform magnetic field", *Journal of Plasma Physics*, vol. 78, part 2, pp. 233-242, 2007.
8. D. Valougeorgis, "The Lattice Boltzmann method - A novel computational approach for relativistic electron beams in a uniform magnetic field", *Journal of Plasma Physics*, vol. 78, part 2, pp. 243-252, 2007.

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9. S. Naris, "Novel Lattice Boltzmann approaches in basic MHD flows", Master Thesis
10. G. K. Zikos, "Study of the effect of a non-uniform magnetic field on free-natural convection in a porous medium", Master Thesis
11. I. Kourakis and A. Grecos, "Plasma diffusion and relaxation in a magnetic field", *Journal of Plasma Physics*, 73, 1-10 (2005)
12. I. Kourakis and A. Grecos, "Microscopic theory for random processes in weakly-magnetized plasmas", *Journal of Plasma Physics*, 73, 1-10 (2005)
13. I. Kourakis and A. Grecos, "Random particle motion in magnetized plasma", *International Journal of Numerical and Analytical Methods in Fluid Dynamics*, 1, 1-10 (2005)
14. H. Isliker and L. Vlahos, "Random walk through fractal environments", *Phys. Rev. E*, 61, 016101 (2000)
15. G. N. Throumoulopoulos, G. Poulipoulis, G. Pantis, H. Tasso, "Exact magneto-hydrodynamic solutions for a plasma flow in a magnetic field", *Journal of Plasma Physics*, 73, 1-10 (2005)
16. H. Tasso and G. N. Throumoulopoulos, "Two-step control of wall mode and the stability of a plasma flow in a magnetic field", *Journal of Plasma Physics*, 73, 1-10 (2005)
17. H. Tasso and G. N. Throumoulopoulos, "Cross-helicity and magnetized Trkal flow in a magnetic field", *Journal of Plasma Physics*, 73, 1-10 (2005)
18. H. Tasso and G. N. Throumoulopoulos, "Instability theorem in magneto-hydrodynamic flows", *Journal of Plasma Physics*, 73, 1-10 (2005)

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19.

G. Poulipoulis, G. N. Throumoulopoulos and H. Tasso, "Two-fluid tokamak equilibria"

20.

H. Tasso and G. N. Throumoulopoulos, "Two-step control of wall mode and the tearing mode"

21.

G. N. Throumoulopoulos, G. Poulipoulis, G. Pantis, and H. Tasso, "Exact magnetic surfaces in tokamak equilibria"