

PUBLICATIONS

A. Books:

1. Sazhin, S.S. (1982) *Natural Radio Emissions in the Earth's Magnetosphere*. Moscow: Nauka (in Russian).
2. Sazhin, S.S. (1993) *Whistler-mode Waves in a Hot Plasma*. Cambridge University Press.
3. Sazhin, S.S. (2014) *Droplets and Sprays*. Springer ISBN: 978-1-4471-6385-5.

B. Editor of:

1. *Geomagnetic Research* No. 27. Soviet Geophysical Committee, 1980 (in Russian).
2. Liperovsky V.A. and Pudovkin M.I.: *Anomalous Resistivity and Double Layers in the Magnetosphere*, Moscow, Nauka, 1983 (in Russian).

C. Book chapters:

1. Sazhin, S.S., Walker, S.N. and Woolliscroft, L.J.C. (1991) Observations and theory of whistler-mode waves in the vicinity of the Earth's magnetopause. In *Advances in Space Research*, v. 11(9), pp. 33-36.
2. Sazhin, S.S. (1993) Whistler-mode waves in the Earth's magnetosphere (theory and observations). In 'Reviews of Radio Science, 1990-1992', Ed W.R. Stone, Oxford University Press, pp. 621-630.
3. Sazhin, S.S., Sumner, A.E. and Temme, N.M. (1995) Are relativistic effects significant for the analysis of whistler-mode waves in the Earth's magnetosphere. In *Space Plasmas: coupling between small and medium scale processes*. Geophysical Monograph 86. Editors: M Ashour-Abdalla, T Chang and P Dusenbery. Pages 139-142. Published by the American Geophysical Union.
4. Bykov, V., Goldfarb, I., Gol'dshtein, V., Sazhin, S., Sazhina, E. (2006) Dynamic decomposition of ODE systems: application to modelling of diesel fuel sprays. In 'Model Reduction and Coarse-Graining Approaches for Multiscale Phenomena', ed. by A.N. Gorban, N. Kazantzis, Y.G. Kevrekidis, H.C. Ottinger, C. Theodoropoulos. Springer, Berlin-Heidelberg-New York, pp. 81-97.
5. Sazhin, S.S., Elwardany, A., Gusev, I.G., Shishkova, I.N. and Heikal, M. (2010) Modelling of fuel droplet heating and evaporation: recent results and unsolved problems. *Engineering Research Anniversary volume honouring Amalia and Miklos Ivanyi, Pollack Mihaly Faculty of Engineering, University of Pecs, October 25-26*, pp. B:197-B:209.
6. Sazhin, S.S. (2012) Memoirs of a student, junior researcher and private scientist, Memoirs of the graduates of the faculty of physics, St Petersburg State University, Issue 1, Edited by A. Lavrov and V. Fedorov, pp. 497-501. Published by FGBU 'PIYaF', ISBN 978-5-86763-305-9.

D. Papers (refereed international journals):

1. Sazhin, S.S. (1974) Interpretation of the resonant interaction of charged particles with an elliptically polarized plasma wave. *Geomagnetism and Aeronomy* (English translation), **14**(3), 460-2.
2. Sazhin, S.S. (1976) Electrostatic wave trapping in the magnetosphere of the Earth. *Geomagnetism and Aeronomy* (English translation), **16**(3), 337-8.
3. Sazhin, S.S. (1976) Effect of an external transverse electric field on the character of whistler-mode polarization. *Geomagnetism and Aeronomy* (English translation), **16**(6), 582-3.
4. Sazhin, S.S. (1977) Non resonant interaction of whistlers with electrons. *Soviet Physics. Technical Physics*, **22**(1), 142-4.
5. Sazhin, S.S. (1977) Magnetospheric capture of electrostatic waves at frequencies below the proton plasma frequency. *Radiophysics and Quantum Electronics*, **20**(6), 652-3.
6. Ponyavin, D.I., Pudovkin, M.I. and Sazhin, S.S. (1977) Self-consistent parallel electric field in the magnetosphere of the Earth. *Geomagnetism and Aeronomy* (English translation), **17**(3), 323-5.
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8. Pudovkin, M.I. and Sazhin, S.S. (1977) Estimation of the large scale magnetospheric electric field from the character of the dynamic spectrum of VLF chorus. *Cosmic Research* (English translation), **15**(6), 813-4.
9. Sazhin, S.S. (1978) A model of quasiperiodic VLF emissions. *Planet. Space Sci.*, **26**(5), 399-401.
10. Sazhin, S.S. (1978) On the conductivity of the solar wind plasma. *Letters to the Astronomical J.*, **4**(7), 321-2 (in Russian).
11. Sazhin, S.S. and Vershinina, N.I. (1978) Estimation of the large scale magnetospheric electric field from the frequency drift of bursts of VLF emissions. *Cosmic Research* (English translation), **16**(3), 376-7.

12. Ponyavin, D.I. and Sazhin, S.S. (1978) Development of whistler cyclotron instability in a magnetospheric plasma with allowance for the self-consistent parallel electric field. *Geomagnetism and Aeronomy* (English translation), **18**(4), 503-4.
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18. Sazhin, S.S., Sizova, L.Z. and Larkina, V.I. (1980) Latitude dependence of the intensity of VLF emissions. *Geomagnetism and Aeronomy* (English translation), **20**(2), 239-40.
19. Sazhin, S.S. (1981) Some studies of whistler-mode propagation in the magnetospheric plasma. *J. Atmos. Terr. Phys.*, **43**(2), 139-46 (Errata p. 373).
20. Sazhin, S.S., Kobeleva, O.A., Sazhina, E.M. and Varshavskii, S.P. (1981) Propagation of whistlers at a small angle to the magnetic field in hot anisotropic plasma. *Radiophysics and Quantum Electronics*, **24**(8), 628-34.
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22. Sazhin, S.S. (1982) Oblique ordinary-mode propagation in the magnetospheric plasma. *J. Atmos. Terr. Phys.*, **44**(1), 31-6.
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