

## Сведения об оппоненте:

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### **список основных публикаций официального оппонента по теме диссертации в рецензируемых научных изданиях за последние 5 лет:**

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2. Boris Shevtsov, Vasily Bychkov, Andrey Perezhogin, and Ilya Seregin, Resonant propagation of laser radiation in the upper ionosphere. E3S Web of Conferences, 2019, 127, 01008, <https://doi.org/10.1051/e3sconf/201912701008>.
3. Tsuchiya, S., Shiokawa, K., Fujinami, H., Otsuka Y, Nakamura T, Connors M, Schofield I, Shevtsov, B., Poddelsky, I. Three-Dimensional Fourier Analysis of the Phase Velocity Distributions of Mesospheric and Ionospheric Waves Based on Airglow Images Collected Over 10 Years: Comparison of Magadan, Russia, and Athabasca, Canada // Journal of Geophysical Research: Space Physics, 2019, 124(10), p. 8110–8124.
4. Aleksandrov, D.V., Dubrov, M.N., Larionov, I.A., Marapulets, Y.V., Shevtsov, B.M. Earth Strain and Acoustic Monitoring of Geodynamic Processes in Seismic and Aseismic Zones Using Highly Sensitive, Spatially Separated Instruments // Journal of Volcanology and Seismology, 2019, 13(3), p. 193–200.
5. Aleksandrov, D.V., Dubrov, M.N., Larionov, I.A., Marapulets, Yu.V., Shevtsov, B.M. Seismic-strain and acoustic monitoring of geodynamical processes by high sensitive and spatially distanced instruments in seismo-energy-active and aseismic zones // Issledovanie Zemli iz Kosmosa, 2019, (3), p. 72–80.
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7. Bychkov, V.V., Perezhogin, A.S., Seregin, I.N., Shevtsov, B.M. Appearance of light-scattering layers in the thermosphere of Kamchatka during the autumn of 2017 // Proceedings of SPIE - The International Society for Optical Engineering, 2018, 10833, 10833A4.

8. Boris Shevtsov, Andrey Perezhogin and Ilya Seredkin, Lidar diagnostics of ionosphere precipitations. E3S Web of Conferences, 2018, 62, 01010, <https://doi.org/10.1051/e3sconf/20186201010>.