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Сведения о ведущей организации

Полное наименование

Федеральное государственное автономное образовательное учреждение высшего образования «Уральский федеральный университет имени первого Президента России Б.Н. Ельцина».

Сокращенное наименование

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Список основных публикаций сотрудников ведущей организации по теме диссертации в рецензируемых научных изданиях за последние 5 лет:

1. A.B. Shick and A.Y. Denisov, Magnetism of 4f-atoms adsorbed on metal and graphene substrates. Journal of Magnetism and Magnetic Materials **475**, 211–215 (2019).
2. E.D. Narkhov, A.V. Sergeev, D.N. Milyukov, A.N. Shirokov, D.V. Saveliev, V.A. Sapunov, A.Y. Denisov, S.Y. Khomutov and P.A. Borodin, New vector/scalar Overhauser DNP magnetometers POS-4 for magnetic observatories and directional oil drilling support. Actual problems of magnetic resonance and application, XIX International Youth Scientific School, 96–99 (2016).
3. V.A. Sapunov, A.Y. Denisov, D.V. Saveliev, A.A. Soloviev, S.Y. Khomutov, P.B. Borodin, E.D. Narkhov, A.V. Sergeev and A.N. Shirokov, New vector/scalar



- Overhauser DNP magnetometers POS-4 for magnetic observatories and directional oil drilling support. *Magnetic Resonance in Solids* **18**(2), 16209.
- 4. V.A. Sapunov, J. Rasson, A.V. Sergeev, E.D. Narkhov, A.Y. Denisov, B.Y. Rubinstein and A.V. Sapunov, Application of Overhauser DNP and K optics INTERMAGNET quantum magnetometers to fundamental physics and cosmology. *Magnetic Resonance in Solids* **18**(2), 16210.
 - 5. S.Y. Khomutov, V.A. Sapunov, A.Y. Denisov, D.V. Saveliev and I. Babakhanov, Overhauser vector magnetometer POS-4: Results of continuous measurements during 2015–2016 at geophysical observatory "Paratunka" of IKIR FEB RAS, Kamchatka, Russia. *E3S Web of Conferences* **11**, 00007 (2016).
 - 6. V. Sapunov, J. Rasson, A. Soloviev, B. Rubinstein, A. Sergeev, E. Narkhov, D. Saveliev, A. Denisov and A. Sapunov, On perspectives of intermagnet observatories usage for research in spin gravitational interactions and cosmology. *Research on geoinformatics: works of the geophysical center of the RAS* **4**(2), 103 (2016).
 - 7. V. Sapunov, A. Denisov, D. Saveliev, E. Narkhov, D. Milyukov, A. Soloviev, S. Khomutov, Z. Dumbrava, O. Kusonsky and P. Borodin, Absolute vector overhauser magnetometers POS-3 & 4 for geomagnetic monitoring. *Research on geoinformatics: works of the geophysical center of the RAS* **4**(2), 91 (2016).
 - 8. V.A. Ushakov, A.Y. Denisov, A.V. Sergeev, E.D. Narkhov and V.A. Sapunov, Geomagnetic field NMR relaxometer to monitor the working substance, sensor and electronics of the POS-1 Overhauser magnetometer. *AIP Conference Proceedings* **2174**, 020261 (2019).
 - 9. V.A. Sapunov, I.V. Kashin, V.A. Ushakov, A.V. Sergeev and O.V. Denisova, Little-known aspects of overhauser DNP at zero and low magnetic fields stimulated by parallel electron pumping of nitroxide radicals solutions. *AIP Conference Proceedings* **2174**, 020112 (2019).
 - 10. A.V. Sergeev, A.Y. Denisov, E.D. Narkhov, A.L. Fedorov and V.A. Sapunov, Magnetically shielded highly homogeneous systems development using Comsol Multiphysics. *AIP Conference Proceedings* **2174**, 020169 (2019).
 - 11. E. Narkhov, A. Shirokov, A. Sergeev, A. Fedorov, D. Milukov, V. Sapunov, A. Denisov, S. Kiselev, V. Savelev, L. Muravyov and A.N. Ivanenko, Overhauser four-channel 3D gradiometer and its application for scanning the underwater gas pipeline *Marine Technologies 2019, Gelendzhik 2019. European Association of Geoscientists and Engineers*, pp. 169–179 (2019).
 - 12. L.A. Muravyev, V.A. Sapunov, E.D. Narkhov and I.M. Khasanov, Application of overhauser magnetometers in the search for ore and placer gold and diamonds deposits .*15th Conference and Exhibition Engineering and Mining Geophysics 2019,*

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13. V. Sapunov, A. Denisov, V. Savelev, O. Denisova, S. Yaroshenko, L. Muravyev, E. Narkhov, A. Sergeev, A. Fedorov and V. Gladyshev, Proton overhauser magnetometers: Theory and experimental study of the ship magnetic influence. Marine Technologies 2019, Gelendzhik 2019. European Association of Geoscientists and Engineers, pp. 302–311 (2019).
14. L.A. Muravyev, O.A. Kusonski, P.B. Borodin, V.A. Sapunov, S.E. Kiselev and V.V. Saveliev, Overhauser vector magnetometer POS-4: Application prospects in the geomagnetic measurements practice. 17th International Conference on Geoinformatics - Theoretical and Applied Aspects. European Association of Geoscientists and Engineers (2018).

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