**Сведения об официальном оппоненте**

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| Отрасль науки, по которой защищена диссертация. | 01.04.09 – «физика низких температур» |
| Полное и сокращенное  наименование организации,  являющейся основным местом работы. | Федеральное государственное бюджетное образовательное учреждение высшего образования «Московский государственный университет имени М.В.Ломоносова» (МГУ), Физический факультет |
| Должность | Старший научный сотрудник Кафедры физики низких температур и сверхпроводимости |
| Список основных публикаций по теме диссертации в рецензируемых научных изданиях за последние 5 лет (не  более 15). | 1. Gippius, A. A., Verchenko, V. Y., Tkachev, A. V., Gervits, N. E., Lue, C. S., Tsirlin, A. A., Büttgen N., Krätschmer W., Baenitz M., M. Shatruk, Shevelkov, A. V. Interplay between localized and itinerant magnetism in Co-substituted FeGa3, Physical Review B, 89(10) (2014). 2. Thompson, C. M., Tan, X., Kovnir, K., Garlea, V. O., Gippius, A. A., Yaroslavtsev, A. A., Menushenkov A.P., Chernikov R.V., Büttgen N., Krätschmer W., Zubavichus Y., Shatruk, M. Synthesis, Structures, and Magnetic Properties of Rare-Earth Cobalt Arsenides, RCo2As2 (R = La, Ce, Pr, Nd), Chemistry of Materials, 26(12), 3825–3837, (2014). 3. Kravchenko, E. A., Gippius, A. A., Korlyukov, A. A., Vologzhanina, A. V., Avdeeva, V. V., Malinina, E. A., Ulitin E.O., Kuznetsov, N. T. Secondary interactions in decachloro- closo -decaborates R 2 [B 10 Cl 10] (R = Et 3 NH + , Ph 4 P + , and [Ag(NH 3 ) 2 ] + ): 35 Cl NQR, PW-DFT, and X-ray studies. Inorganica Chimica Acta, 447, 22–3, (2016). 4. Avdeeva, V. V., Kravchenko, E. A., Gippius, A. A., Vologzhanina, A. V., Malinina, E. A., Zhurenko, S. V., Buzanov G.A., Kuznetsov, N. T. Decachloro- closo -decaborate anion in copper(II) complexation reactions with N-donor ligands: 35 Cl NQR and X-ray studies, Polyhedron, 127, 238–247 (2017). 5. Mazo, G. N., Kazakov, S. M., Kolchina, L. M., Morozov, A. V., Istomin, S. Y., Lyskov, N. V., Gippius A., Antipov, E. V. Thermal expansion behavior and high-temperature electrical conductivity of A 2− x A x ′Cu 1− y Co y O 4± δ (A = La, Pr; A′ = Pr, Sr) oxides with the K 2 NiF 4 -type structure. Journal of Alloys and Compounds, 639, 381–386, (2015). 6. Kravchenko, E. A., Gippius, A. A., Vologzhanina, A. V., Avdeeva, V. V., Malinina, E. A., Ulitin, E. O., & Kuznetsov, N. T. Secondary interactions in decachloro- closo -decaborates of alkali metals M 2 [B 10 Cl 10 ] (M = K + and Cs + ): 35 Cl NQR and X-ray studies, Polyhedron, 117, 561–568, (2016). 7. Likhanov, M. S., Verchenko, V. Y., Bykov, M. A., Tsirlin, A. A., Gippius, A. A., Berthebaud, D., Maignan A., Shevelkov, A. V. Crystal growth, electronic structure, and properties of Ni-substituted FeGa 3, Journal of Solid State Chemistry, 236, 166–172, (2016). 8. Bush, A. A., Büttgen, N., Gippius, A. A., Horvatić, M., Jeong, M., Kraetschmer, W., Marchenko V.I., Sakhratov Yu. A., Svistov, L. E. Exotic phases of frustrated antiferromagnet LiCu2O2, Physical Review B, 97(5), (2018). 9. Ramachandran, B., Lin, Y. H., Kuo, Y. K., Kuo, C. N., Gippius, A. A., & Lue, C. S. Thermoelectric properties of Heusler-type Ru 2 VAl 1−x Ga x alloys. Intermetallics, 92, 36–41, (2018). 10. Kravchenko, E. A., Gippius, A. A., Polyakova†, I. N., Avdeeva, V. V., Malinina, E. A., Demikhov, T. E., Buzanov G.A., Kuznetsov, N. T. Iron(II) Complexes with Boron Cluster Anion [B10 Cl10 ]2- : Intermolecular Interactions according to 35 Cl NQR Spectroscopy and X-ray Diffraction. Zeitschrift Für Anorganische Und Allgemeine Chemie, 643(23), 1939–1947, (2017). 11. Istomin, S. Y., Karakulina, O. M., Rozova, M. G., Kazakov, S. M., Gippius, A. A., Antipov, E. V., Bobrikov I. A, Balagurov A.M., Tsirlin A.A., Michau A., Biendicho J.J., Svensson, G. Tuning the high-temperature properties of Pr2NiO4+δby simultaneous Pr- and Ni-cation replacement. RSC Adv., 6(40), 33951–33958, (2016). 12. Kumar, R., Dey, T., Ette, P. M., Ramesha, K., Chakraborty, A., Dasgupta, I., Orain J. C., Baines C., Tóth S., Shahee A., Kundu S., Prinz-Zwick M., Gippius A. A., Büttgen N., Gegenwart P., Mahajan, A. V. Unconventional magnetism in the 4d4 -based S=1 honeycomb system Ag3LiRu2O6. Physical Review B, 99(5), (2019). 13. Avdeeva, V. V., Kravchenko, E. A., Gippius, A. A., Vologzhanina, A. V., Ugolkova, E. A., Minin, V. V., Malinina, E. A., & Kuznetsov, N. T. Synthesis, structure, and physicochemical properties of triply-bridged binuclear copper(II) complex [Cu2Phen2(µ-CH3CO2)2(µ-OH)]2[B10Cl10]. Inorganica Chimica Acta, (2018). 14. Gippius, A. A., Zhurenko, S. V., Hu, R., Petrovic, C., & Baenitz, M. Sb121,123 nuclear quadrupole resonance as a microscopic probe in the Te-doped correlated semimetal FeSb2: Emergence of electronic Griffith phase, magnetism, and metallic behavior. Physical Review B, 97(7), (2018). 15. Tseng, C. W., Kuo, C. N., Li, B. S., Wang, L. M., Gippius, A. A., Kuo, Y. K., & Lue, C. S. Transport and NMR characteristics of the skutterudite-related compound Ca 3 Rh 4 Sn 13, Solid State Communications, 270, 26–29, (2018). |