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A. Professional preparation:

- 1991 Ph.D.: A.F. Ioffe Physical Technical Institute, USSR (Russian) Academy of Sciences, St. Petersburg, Russia.
1981 Master of Science: Leningrad Polytechnic Institute (now St. Petersburg State Polytechnic University).

A. Appointments:

- Nanotechnology User Facility, Center for Nanotechnology, University of Washington, Lab Manager, 2009 – present.
- Department of Materials Science and Engineering, University of Washington, Research Assistant Professor, Visiting Scientist 2002 – 2009.
- A.F. Ioffe Physical Technical Institute, Russian Academy of Sciences, Senior Scientist, Scientist, Junior Scientist, 1981 – 2001.

B. Other (visiting) appointments:

- Magnetics Innovation Center (MAGIC), Materials Characterization and Preparation Facility, Hong Kong University of Science and Technology, 2000 – 2002.
- Instituto de Física Gleb Wataghin, Universidade Estadual de Campinas (UNICAMP), Campinas, S.P., Brazil, 11/1998 – 1/2000 and 10/2005 – 12/2005.
- Department of Physics, Hong Kong University of Science and Technology, 9/1994 – 6/1996 and 12/1997 – 8/1998.
- Department of Physics, University of the Witwatersrand, Johannesburg, South Africa, 1/1992 – 7/1992 and 10/1992 – 3/1993.

C. Research background

Magnetic and electronic materials, spin-electronic phenomena, materials and device physics at nanoscale, thin films, nanoparticles, and nanostructures.

D. Selected Publications (From about 75 articles)

1. “Surface scaling of magnetism in Cr:ZnO dilute magnetic dielectric thin films”, B. K. Roberts, A. B. Pakhomov, P. Voll, and K. M. Krishnan, *Appl. Phys. Lett.*, (2008).
2. “Possible Spiral Spin Order of Self-assembled Co Nanodisk Arrays”, Y. Gao, Y. Bao, A. B. Pakhomov, D. Shindo and K. M. Krishnan, *Phys. Rev. Lett.* **96**, 137205 (2006).
3. “Intrinsic Ferromagnetism in Insulating Cobalt Doped Anatase TiO₂”, K. A. Griffin, A. B. Pakhomov, C. M. Wang, S. A. Heald, and K. M. Krishnan, *Phys. Rev. Lett.*, **94**, 157204 (2005).
4. “Transition from granular to dilute magnetic semiconducting multilayers in ion beam deposited ZnO/Co”, A. B. Pakhomov, B. K. Roberts and K. M. Krishnan, *Appl. Phys. Lett.* **83**, 4357 (2003).
5. “Ferromagnetism in Mn doped CuO”, S. G. Yang, T. Li, B. X. Gu, Y. W. Du, H. Y. Sung, S. T. Hung, C. Y. Wong, and A. B. Pakhomov, *Appl. Phys. Lett.* **83**, 3746 (2003).
6. “Blocking phenomena in granular magnetic alloys through magnetization, Hall effect and magnetoresistance experiments”, J.C. Denardin, A.B. Pakhomov, A.L. Brandl, L.M. Socolovsky, M. Knobel, X.X. Zhang, *Appl. Phys. Lett.* **82**, 763 (2003).
7. “Room temperature magnetism in Cr-doped AlN semiconductor films”, S. G. Yang, A. B. Pakhomov, S. T. Hung and C. Y. Wong, *Appl. Phys. Lett.*, **81**, 2418 (2002).