

CURRICULUM VITAE

Vladimir V. Shvartsman

- Born at August 21, 1971 in Brest, Belarus.
- Male.
- Married.

Citizenship

- Russian Federation

Present Position

- Researcher at the Institute for Material Science, Faculty of Engineering, University of Duisburg-Essen, Essen, Germany

Working Address

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- Pollerbergstr. 8, 45145, Essen, Germany
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Education

- Graduated from Moscow Engineering Physics Institute in Solid State Physics, 1995 (the Diploma of Excellence).
- PhD in Physical Chemistry at L.Ya. Karpov Institute of Physical Chemistry (2000)

Work Experience

- 11/2009 – present. Researcher at Faculty of Engineering, Institute of Material Science, University of Duisburg-Essen, Essen, Germany.
- 01/2005 – 10/2009. Researcher at Department of Physics, Applied Physics, University of Duisburg-Essen, Duisburg, Germany.
- 08/2001 – 12/2004 Postdoctoral researcher, Department of Ceramic and Glass Engineering, University of Aveiro, Aveiro, Portugal
- 06/1995 – 07/2001 PhD student, junior researcher, researcher at the Laboratory of Oxide Materials, L.Ya. Karpov Institute of Physical Chemistry, Moscow, Russia

Research Interests

- Scanning force microscopy: nanoscale characterization of electroactive materials

- Ferroelectric, dielectric, and piezoelectric properties of materials.
- Multiferroics and magnetoelectrics.

Teaching Activities

- Assistance at supervision of graduate and PhD students.
- Examiner at laboratory physics courses.

Professional Activities

- Reviewer for various scientific journals including “Nature Materials“, “Applied Physics Letters”, “Journal of Applied Physics”, “Physical Review Letters”, “Physical Review B”, “Ferroelectrics”, “Journal of the European Ceramics Society”, “Physica Status Solidi”, “Smart Materials and Structures”

Awards

- Best Poster Award at the 8th International symposium on Ferroic Domains and Micro- to Nanoscopic structures, August 2004, Tsukuba, Japan.
- Best Poster Award at the 9th International symposium on Ferroic Domains and Micro- to Nanoscopic structures, June 2006, Dresden, Germany.

Invited presentations

- “Investigation of relaxor ceramics by piezoresponse force microscopy”, 3rd International Symposium "Micro- and Nano-scale Domain Structuring in Ferroelectrics", Ekaterinburg, Russia, September 2009
- “Magnetoelectric multiglass states in Mn-doped incipient ferroelectrics”, joint meeting of 12th International Meeting on Ferroelectricity and 18th IEEE International Symposium on Applications of Ferroelectrics, Xi'an, China, August 2009
- “PFM studies of relaxors”, International Symposium “Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials”, Aveiro, Portugal, June, 2009
- “Investigation of relaxor ferroelectrics by piezoresponse force microscopy”, German Physical Society Spring Meeting, Regensburg, Germany, March 2007.
- “Investigation of polar structure in PMN-PT relaxors via piezoresponse force microscopy”, 20th General Conference of the Condensed Matter Division, European Physical Society, Prague, Czech Republic, July 2004.

Publications

- **PhD thesis** ”*The phase states and dielectric properties of multicomponent solid solutions based on lead zirkonate, lead titanate*” (L. Ya. Karpov Institute of Physical Chemistry, Moscow, 2000)
- **Book chapters**
 - **V. V. Shvartsman**, W. Kleemann, D. A. Kiselev, I. K. Bdikin, and A. L. Kholkin “*Polar structures in relaxors by Piezoresponse Force Microscopy*” in Scanning Probe Microscopy of Functional Materials, eds. S. V. Kalinin and A. Gruverman, Springer, New York, 2011, pp. 345-383.
 - **V. V. Shvartsman** and A. L. Kholkin “*Nanoscale investigation of polycrystalline ferroelectric materials via piezoresponse force microscopy*” in Multifunctional Polycrystalline Ferroelectric Materials, eds. L. Pardo and J. Ricote, Springer, 2011.
- More than 100 publications in national and international **Journals** and **Proceedings** of Conferences