

## Vyacheslav V. Volkov

### Education:

	Degree	Year(s)	Field of Study
Moscow Inst. of Physics & Technology	Ph.D	1982	Solid-State Physics
N.S. Kurnakov Inst. Gen.&Inorg. Chem. RAS, Moscow	M. S	1979	Appl. Phys. & Math.
Moscow Inst. Physics and Technology	B. S.	1976	Appl. Physics
Moscow Inst. Physics and Technology	B. S	1976	Appl. Mathematics

### Research and Professional Experience:

6/07-Present: Materials Scientist, CMPMSD, BNL

10/06-5/07: Scientist, CFN, BNL

10/03-9/06: Associate Scientist, CFN, BNL

01/01-9/03: Assistant Scientist, MSD, BNL

9/97-01/01: Senior Research Associate, BNL

2/95-4/97: Invited senior research fellow, EMAT, RUCA, Antwerpen, Belgium.

9/92-9/93: Postdoctoral fellow, EMAT Center Physics Dept., RUCA, Antwerpen, Belgium

10/90-8/97: Senior Scientist, IGIC/RAS, Moscow, Russia.

10/91-8/97: Group Leader, Materials characterization and materials science at IGIC/RAS.

1/86-10/90: Research Scientist, IGIC/RAS, Moscow, Russia

8/82-10/86: Junior research scientist, N.S. Kurnakov Institute of General & Inorganic Chemistry (IGIC), Russian Academy of Sciences (RAS), Moscow, Russia

10/80-7/82: Junior research scientist, Moscow Institute of Physics and Technology, Moscow, Russia

### Professional Activities:

- Member of several scientific societies: AAAS, MRS, MSA

- Referee of scientific journals: PRL, PRB, IEEE, JAP, J. Electron Microscopy

### Honors and Awards:

- Second prize at the Annual MSA Meeting "M&M-2000". The award and diploma signed by the MSA President K.H. Downing, Philadelphia, Aug.16, 2000, USA
- Fellowships (1997-1999, Exchange Visitor Program P-1-1957) while working as postdoctoral fellow at the Brookhaven National Laboratory, U.S.A.
- DWTC Fellowships (1992-1993; 1995-1997) of the Belgian Ministry of Science EMAT-center, State University of Antwerpen (RUCA), Belgium.
- Bronze medal of the Exhibition of National Achievements, Moscow, 1985, Russia
- Second prize (1986), Third prize (1985) and First prize (1984) at the annual Scientific Conferences held in N.S. Kurnakov Institute of RAS, Moscow, Russia.

### Selected Publications:

V.V. Volkov, J.Wall, and Y. Zhu, "Position-sensitive diffractive imaging in STEM by an automated changing diffraction algorithm", *Ultramicroscopy* (2008), doi:10.1016/j.ultramic.2007.11.007.

V.V. Volkov and Y. Zhu, "Phase imaging and Nanoscale Currents in Phase Objects Imaged with Fast Electrons", *Phys. Rev. Letters* **91**(4), 043904 (2003).

V.V. Volkov and Y. Zhu, "Lorentz phase microscopy of magnetic materials", *Ultramicroscopy* **98**, 271-281 (2004)

Y. Zhu, L. Wu, V. Volkov, Q. Li, et al., "Microstructure and structural defects in MgB<sub>2</sub> superconductor" *Physica C* **356** (4): 239-253 (2001).