

# Dr. Evgeny Blokhin

## Personal

Year and place of birth: 1985, St. Petersburg, Russia  
Spoken languages: German, English, Russian  
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## Education

**2009 – 2013** **Ph.D**, Max Planck Institute for Solid State Research, Stuttgart, Germany

**2007 – 2009** **M.Sc**, Chemistry Department, St. Petersburg State University, Russia

## Work experience

**04.2015 – now** **Self-employed**, computational materials science and software development

**09.2013 – 03.2015** **Software developer**, post-doc, collaboration of Fritz Haber Institute and Humboldt University of Berlin, project “NoMaD: Novel Materials Discovery”

**09.2009 – 06.2013** **Research assistant**, Max Planck Institute for Solid State Research, Stuttgart, Germany, *ab initio* modeling of defect thermodynamics of mixed conductors

**09.2007 – 06.2009** **Research assistant**, Chemistry Dept., St. Petersburg State University, Russia, *ab initio* and classical modeling of water adsorption on perovskite surfaces

**01.2006 – 01.2012** **Freelancer**, web-development and online ads

## Scientific publications

E. Blokhin, R. Evarestov, D. Gryaznov, E. Kotomin, J. Maier, Theoretical modeling of antiferrodistortive phase transition for SrTiO<sub>3</sub> ultrathin films, *Phys. Rev. B* **88**, 241407 (2013),

Full list at <https://scholar.google.com/citations?user=EFWGsJoAAAAJ>

E. Blokhin, E. Kotomin, A. Kuzmin, J. Purans, R. Evarestov, J. Maier, Theoretical modeling of the complexes of iron impurities and oxygen vacancies in SrTiO<sub>3</sub>, *Appl. Phys. Lett.* **102**, 112913 (2013),

E. Blokhin, E. Kotomin, J. Maier, First-principles phonon calculations of Fe<sup>4+</sup> impurity in SrTiO<sub>3</sub>, *J. Phys.: Cond. Matt.* **24**, 104024 (2012),

E. Blokhin, D. Gryaznov, E. Kotomin, R. Evarestov, J. Maier, A comparative hybrid DFT study of phonons in several SrTiO<sub>3</sub> phases, *Int. Ferroelectrics* **123**, 18 (2011)

## Qualifications

Full-stack software development (UML, XML, Python, JavaScript, PHP),  
Relational database design and support, semantic web technologies,  
Computational materials science: *ab initio* and classical modeling,  
Unix/Linux servers and clusters administration