

Anton M. Prokhorov

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Education

- 4/2001 - 5/2004 **Ph.D. in Chemistry** (viva date 21.05.01)
Ural State Technical University, Ekaterinburg
Supervisor Professor Vladimir L. Rusinov
Nucleophilic aromatic substitution of hydrogen in azine N-oxides with organometallic nucleophiles as a versatile method for the azines functionalization
- 8/1996 - 4/2001 **M.Sc. in Chemistry**, Ural State Technical University, Ekaterinburg
The new method for synthesis of 1,2,4-triazine-4-oxides

Career History

- 5/2009 - 7/2009 **Professeur Invité**
Université de Bretagne Occidentale, France, the group of Prof. Henri Handel
Potentiometric studies of bipy ligands and metal complexes
- 9/2008 - present **Lecturer**
Urals State Technical University, Ekaterinburg, Russia
Luminescent labels based on lanthanide complexes for biomedical analyses
- 8/2008 - 9/2008 **Visiting researcher**
Université de Bretagne Occidentale, France, the group of Prof. Henri Handel
Development of synthetic methodology for the high-emissive europium complexes design
- 6/2008 - 7/2008 **Visiting researcher**
University of York, the group of Prof. Duncan Bruce
Synthesis of azine ligands and their metal complexes for liquid crystals
- 2/2007 - 4/2007 **Visiting researcher** (in frame of Royal Society Short Visits Program)
University of York, the group of Prof. Richard J. K. Taylor
Direct synthesis towards Daphnezamine M : Triazine synthesis
- 7/2006 - 6/2008 **Researcher**
Urals State Technical University, Ekaterinburg, Russia
New luminescent complexes – azaligand synthesis and complexation study
- 6/2005 - 6/2006 **Postdoctoral Research Fellow**
Université de Bretagne Occidentale, France, the group of Prof. Henri Handel
Linear and cyclic tetraamine synthesis and functionalization
- 1/2004 - 5/2005 **Researcher**
Urals State Technical University, Ekaterinburg, Russia
N-Heterocyclic carboranes: synthesis and metal coordination study
- 7/2004 - 9/2004 **INTAS Research Fellow**
Regensburg University, Germany, the group of Prof. Bukhard Koenig
Synthesis of europium bipyridine complexes for peptide labeling
- 5/2003 - 8/2003 **Summer Training**
Institute of Organic Chemistry, Warsaw. Poland,
the group of Prof. Mieczyslaw Makosza

2/2003 - 4/2003 **INTAS Research Fellow**

Regensburg University, Germany, the group of Prof. Bukhard Koenig
Synthesis of new bipyridine ligands

Grants and Fellowships

- 2008 Travel grant of Russian Foundation for Basic Research
- 2008 Research grant of Russian Foundation for Basic Research (№ 08-03-00585-a).
- 2007 Royal Society Fellowship in frame of Short Visits Program
- 2006 Research Grant of President of Russian Federation for young researchers (№ MK-5007.2006)
- 2004 Conference grant of Organizing Committee of III EuChem Conference on Nitrogen Ligands, Camerino, 2004
- 2003 President of Russian Federation PhD Scholarship
- 2002 INTAS Young Scientist Fellowship, cat. "B" (YSF №2002-103)

Ten Selected Publications (to date around 18 refereed contributions)

1. Anton M. Prokhorov, Mieczysław Małkośza, Oleg N. Chupakhin. Direct introduction of the acetylene moieties into azines by SNH methodology. *Tetrahedron Lett.*, **2009**, 50, 1444-1446.
2. Anton M. Prokhorov, Pavel A. Slepukhin, Vladimir L. Rusinov, Valery N. Kalinin, Dmitry N. Kozhevnikov. 9-Allyl-1,7-dicarbododecaborane as a dienophile in aza Diels–Alder reactions of 1,2,4-triazines: synthesis of pyridines bearing a carborane cage. *Tetrahedron Lett.* **2008**, 49, 3785-3789.
3. Anton Prokhorov et al. Influence of π -stacking on magnetic properties in Cu(II) complexes of 3-(2-pyridyl)-5-trifluoroacetylmethyl-1,2,4-triazines. *Rus. Chem. Bull.* **2008**, № 3, 549-554.
4. Anton Prokhorov, H el ene Bernard, Nathalie Le Bris, Nicolas Marquet, Henri Handel. Synthesis of a New Ditopic Ligand Possessing Linear and Cyclic Tetraaza Subunits. *Synth, Comm.* **2008**, 38, 1589-1600.
5. Anton M. Prokhorov, Pavel A. Slepukhin, Dmitry N. Kozhevnikov. CuCl₂ induced reactions of 6-ethynyl- and 6-cyano-5-aryl-2,2'-bipyridines with various N- and O-nucleophiles in comparison with the reactions of relative 1,2,4-triazines. *J. Organomet. Chem.* **2008**, 693, 1886-1894.
6. Anton Prokhorov, Nathalie Le Bris, H el ene Bernard, G eraldine Claudon, Henri Handel. Cyclohexanedione Bisaminals as Intermediates for Cyclen, Homocyclen, and Cyclam Synthesis. *Synth. Comm.* **2006**, 36 (21), 3271-3282.
7. Anton M. Prokhorov, Dmitry N. Kozhevnikov, Vladimir L. Rusinov, Oleg N. Chupakhin, Ivan V. Glukhov, Mikhail Yu. Antipin, Olga N. Kazheva, Anatolii N. Chekhlov, and Oleg A. Dyachenko. Carborane-Functionalized Polyaza Aromatic Ligands: Synthesis, Crystal Structure, and a Copper(II) Complex. *Organometallics* **2006**, 25, 2972-2977.
8. D. N. Kozhevnikov, V. N. Kozhevnikov, A. M. Prokhorov, M. M. Ustinova, V. L. Rusinov, O. N. Chupakhin. Consecutive nucleophilic substitution and aza Diels-Alder reaction – an efficient strategy to functionalized 2,2'-bipyridines. *Tetrahedron Lett.* **2006**, 47, 869–872.
9. A. M. Prokhorov, D. N. Kozhevnikov, V. L. Rusinov, A. I. Matern, M. M. Nikitin, O. N. Chupakhin, I. L. Eremenko, G. G. Aleksandrov. 5-Acylmethyl-3-(2-pyridyl)-1,2,4-triazines: Synthesis and Complexes with Cu(II). *Rus. J. Org. Chem.*, **2005**, 41 (11), 1702-1705.
10. O.N. Chupakhin, A.M. Prokhorov, D.N. Kozhevnikov, V.L. Rusinov, V.N. Kalinin, V.A. Olshevskaya, I.V. Glukhov. M.Yu. Antipin. 1,2,4-Triazinylcarboranes: a new approach to the synthesis and the crystal structures of 1-(3,6-ditolyl-1,2,4-triazin-5-yl)-2-phenyl-1,2-dicarbocloso-dodecaborane and 1,7-bis[6-phenyl-3-(4-chlorophenyl)-1,2,4-triazin-5-yl]-1,7-dicarbocloso-dodecaborane. *Mendeleev Commun.* **2003**, 165-167.