

Yana Chernykh

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EDUCATION

- 2009 – Present** *Ph.D. in Organic Chemistry*
Charles University in Prague, Faculty of Science, Czech Republic
- 2004 – 2009** *Engineer Diploma (MS equivalent) in Chemical Technology of Organic Compounds*
Saint-Petersburg State Technological Institute, Faculty of Chemical and Biochemical Technology, Saint-Petersburg, Russia

RESEARCH EXPERIENCE

- 2009 – Present** Ph.D. research project under supervision of Ing. Petr Beier, Ph.D
Institute of Organic Chemistry and Biochemistry Academy of Sciences of the Czech Republic
Thesis title: Nucleophilic and radical tetrafluoroethyl and tetrafluoroethylene group transfer
- Development of new synthetic methodologies for introduction of fluoroalkyl groups to organic molecules
 - Study of reactivity of new sulfur and silicon based reagents for fluoroalkylation
 - Establishing scope, limitations, optimization of reaction conditions and investigation of reaction mechanisms
 - Synthesis of various fluorine containing organic compounds
- 2009** Diploma project under supervision of Prof. Alexander I. Ponyaev
Saint-Petersburg State Technological Institute, Faculty of Chemical and Biochemical Technology, Department of Chemical Technology of Organic Dyes and Phototropic Compounds
Thesis title: Study of spectral and kinetic parameters of xanthene dyes
- Photophysical properties investigation of photoinduced forms of polyhalogenated thiofluorescein derivatives by flash photolysis
 - Calculations of photochromic parameters of corresponding dyes and their preliminary studies on potential activity in photodynamic therapy

SKILLS

- Professional skill:** · Strong background in organic synthesis and new methodologies development
· Experienced and efficient in chromatography, isolation, purification, structural determination and characterization of various kinds of organic compounds
· Knowledge of analytical techniques: NMR, GC-MS, UV-Vis, IR, and Mass spectrometry
- Computer skills:** MS Office, ChemDraw, MestReNova, MSD ChemStation, database Sci-Finder, Reaxys
- Languages:** English (Fluent, FCE certificate), Russian (native), Czech (Intermediate)

PUBLICATION LIST

1. Chernykh, Y.; Jurásek, B.; Beier, P. Synthesis of tetrafluoroethyl- and tetrafluoroethylene-containing amines by the reaction of silanes with enamines under acidic conditions
J. Fluorine Chem. **2014** Submitted
2. Chernykh, Y.; Beier, P. Development of (2-bromo-1,1,2,2-tetrafluoroethyl)(phenyl)sulfane as tetrafluoroethyl-radical and tetrafluoroethylene-diradical synthons for additions to alkenes
J. Fluorine Chem. **2013**, 307-313
3. Chernykh, Y.; Opekar, S.; Klepetářová, B.; Beier, P. Application of PhSCF₂CF₂SiMe₃ as a Tandem Anion and Radical Tetrafluoroethylene Equivalent: Fluoride-Catalyzed Addition to N-Substituted Cyclic Imides Followed by Radical Cyclization
SynLett **2012**, 1187-1190
4. Chernykh, Y.; Hlat-Glembová, K; Klepetářová, B.; Beier, P. Development of PhSCF₂CF₂SiMe₃ as a Tandem Anion and Radical Tetrafluoroethylene Equivalent: Preparation of Tetrafluoroethyl-Substituted Alcohols and Tetrafluorotetrahydropyrans
Eur. J. Org. Chem. **2011**, 4528–4531

CONFERENCE LIST

- 48th Advances in Organic, Bioorganic and Pharmaceutical Chemistry “Liblice 2013”, Špindlerův Mlýn, Czech Republic, 1-3^d November 2013, **Oral presentation**
- 17th European Symposium on Fluorine Chemistry, Paris, France, 21-25th July 2013, **Poster**
- 23^d International Conference on Advances in Organic Synthesis, Hradec Kralove, Czech Republic, 26-30th June 2011, **Poster**

AWARDS

Poster prize winner at 23^d International Conference on Advances in Organic Synthesis, Hradec Kralove, Czech Republic, **2011**

REFERENCES

Ing. Petr Beier, Ph.D.

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