

## Aygul E. Zagidullina

E-mail: aygul.zagidullina@gmail.com

URL: <http://aygul.nm.ru/>

### PERSONAL DATA

Date of Birth: December 16, 1982

Place of Birth: Ufa, Russian Federation

### EDUCATION

- 2004 – 2006 **M.Sc. in Chemistry** (with honors, GPA 5.0)  
Bashkir State University, Ufa, Russian Federation  
Thesis: «Quantum Chemical Investigation of Complexation of Organoaluminium Compounds with Halogen-Containing Lewis Bases»  
(Advisors: Ass. Prof. Ivan V. Vakulin, Prof. Rifkat F. Talipov)
- 2004 – 2006 **Pedagogical Diploma** (with honors, GPA 5.0)  
Bashkir State University, Ufa, Russian Federation  
Thesis: «Informational Technologies in Chemistry Teaching»  
(Advisor: Prof. Khamit Kh. Baymurzin)
- 2000 – 2004 **B.Sc. in Chemistry** (with honors, GPA 5.0)  
Bashkir State University, Ufa, Russian Federation
- 1990 – 2000 **Secondary School Certificate** (with gold medal, GPA 5.0)  
Secondary School #84, Ufa, Russian Federation

### ADDITIONAL COURSES

- January, 2009 – present **German Courses (Mittelstufe I, B1.2)**  
Institute of Foreign Cultural Relations, Stuttgart, Germany
- October – December, 2008 **German Courses (Mittelstufe I, B1.1)**  
Institute of Foreign Cultural Relations, Stuttgart, Germany
- April – June, 2008 **German Courses (Grundstufe II, A2.2)**  
Institute of Foreign Cultural Relations, Stuttgart, Germany
- January – March, 2008 **German Courses (Grundstufe II, A2.1)**  
Institute of Foreign Cultural Relations, Stuttgart, Germany
- October – December, 2007 **German Courses (Mittelstufe)**  
Office of International Affairs, University of Stuttgart, Stuttgart, Germany
- October – December, 2007 **German Courses (Grundstufe I, A1.2)**  
Institute of Foreign Cultural Relations, Stuttgart, Germany
- April – June, 2007 **German Courses (Grundstufe I, A1.1)**  
Institute of Foreign Cultural Relations, Stuttgart, Germany
- 2005 – February, 2007 **Seminars on Computational Quantum Chemistry**  
Ufa State Oil Technical University, Ufa, Russian Federation
- 2006 **FORTTRAN Programming**  
Bashkir State University, Ufa, Russian Federation
- 2004-2006 **English Courses**  
Bashkir State University, Ufa, Russian Federation
- 2004-2006 **Courses of Jazz Vocal**  
Private tutor: Vladimir I. Sitnikov

2003-2004	<b>Italian Courses</b> Bashkir State University, Ufa, Russian Federation
2002-2003	<b>Guitar Courses</b> Private tutor: Eduard R. Syrtlanov
2002-2003	<b>Camp Counselor Courses</b> Bashkir State University, Ufa, Russian Federation
2002-2003	<b>Model School "Model dVision"</b> Model Agency "Premiere", Republican Fashion Center, Ufa, Russian Federation
2002-2003	<b>Practical Training "Towards the Summer – 2003"</b> Republican Center of Camp Counselors' Training named after Ekaterina V. Pospelova, Bashkir State Pedagogical University, Ufa, Russian Federation
2000-2001	<b>Business Ethics and Etiquette</b> Bashkir State University, Ufa, Russian Federation
1991 – 1997	<b>Music School Certificate (GPA 5.0)</b> Music School #6, Ufa, Russian Federation Specializations: piano, violoncello

## PROFESSIONAL EXPERIENCE

March, 2007 – present	<b>Research Assistant</b> Institute of Theoretical Chemistry, University of Stuttgart, Stuttgart, Germany
2006 – February, 2007	<b>Senior Lab Assistant</b> Bashkir State University, Ufa, Russian Federation
2004 – February, 2007	<b>Graduate Research Assistant</b> Bashkir State University, Ufa, Russian Federation
2000 – 2004	<b>Undergraduate Research Assistant</b> Bashkir State University, Ufa, Russian Federation

## TEACHING EXPERIENCE

2005	<b>Teaching Assistant</b> , Quantum Chemical Methods of Investigation (lab practice, 4 weeks) Bashkir State University, Ufa, Russian Federation
2000 – 2005	<b>Private Tutor</b> (private lessons in Chemistry, Internet Technology)

## ADMINISTRATIVE EXPERIENCE

July – August, 2006	<b>Member of the Organizing Committee</b> , Tutorial "Modern Informational and Computer Technologies in Engineering and Scientific Research" Bashkir State University, Ufa, Russian Federation
April 24–28, 2006	<b>Member of the Youth Board of Jury</b> , 16th Mendeleev Conference of Young Scientists Ufa, Russian Federation

## **HONORS AND AWARDS**

- Student Scholarship of the President of the Republic of Bashkortostan (2005-2006)
- Additional Scholarship for Excellent Students, Bashkir State University (2000-2006)
- Award of the 10th Republican Contest of Students' Research Papers (2005)

## **PROFESSIONAL AFFILIATIONS**

LinuxChix, member since 2007

EuroScience, member since 2005

## **COMPUTER SKILLS**

- Operating Systems: Microsoft Windows (95/98/ME/NT/2000/XP), UNIX (Linux)
- Scientific Software: MolPro, Gaussian 98/03, GAMESS, ChemCraft, Molekel, ViewMol 3D, GaussView, Molden
- Programming Languages: Basic, Pascal, Fortran, bash
- Web-development: HTML / XHTML, CSS
- Other Software: Microsoft Office, OpenOffice.org, CS ChemOffice, LaTeX

## **LANGUAGE SKILLS**

Russian (native), English (intermediate level), German (elementary level)

## **INTERESTS AND HOBBIES**

Fitness, Informational Technology, Web-development, Web 2.0, Time-management, Self-improvement, Music, Singing (Classical and Jazz Vocal), Photography, Psychology, Outdoor Activities

## **HAVES**

Purposefulness, creativity, curiosity, enthusiasm, innovative ideas for e-commerce and e-business, motivation, flexibility, practical experience in team leadership, online-community administration, Internet marketing

## **WANTS**

Innovative and creative e-commerce and e-business projects, Internet marketing (SMM/SMO, SEO), product marketing, country management

## REFEREED ARTICLES AND CONFERENCE PROCEEDINGS

1. A.E. Zagidullina, I.V. Vakulin, O.S. Vostrikova, and R.F. Talipov, **Quantum Chemical Investigation of Donor-Acceptor Complexes of Trimethylaluminum with Lewis Bases of Group 15 Elements**, *International Journal of Quantum Chemistry*, 2007, V. 107, No. 13, p. 2372-2377.
2. A.E. Zagidullina, I.V. Vakulin, O.S. Vostrikova, and R.F. Talipov, **Donor-Acceptor Complexes of Organoaluminum Compounds with Lewis Bases: Spatial Structure, Thermodynamics, Reactivity, and Applications (Review)**, *Bashkir Chemical Journal*, 2007, V. 14, No. 1, p. 100-119.
3. I.V. Vakulin, A.E. Zagidullina, R.F. Talipov, and O.S. Vostrikova, **Quantum Chemical Investigation of Complexation Peculiarities of Trimethylaluminum with Chlorine-Containing Solvents**, *Journal of Structural Chemistry*, 2006, V. 47, No. 6, p. 1179-1184.
4. I.V. Vakulin, A.E. Zagidullina, R.F. Talipov, and O.S. Vostrikova, **Quantum Chemical Investigation of Complexation Peculiarities of Trimethylaluminum with Halogen Anions**, *Bulletin of Bashkir University*, 2006, No. 3, p. 37-39.
5. I.V. Vakulin, A.E. Zagidullina, R.F. Talipov, and O.S. Vostrikova, **Quantum Chemical Investigation of Behavior Peculiarities of  $\text{LiAlEt}_4$  in Chloroalkanes**, *Bashkir Chemical Journal*, 2006, V. 13, No. 1, p. 14-16.
6. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Quantum Chemical Modeling of Complexation of Triethylaluminum with Chloroalkanes**, *5th All-Russian Conference "Molecular Modeling"*, Moscow, Book of Abstracts, April 18-20, 2007, in press.
7. A.E. Zagidullina, **Ab initio Investigation of Triethylaluminum Complexes with Fluorine and Chlorine Anions**, *14th International Scientific Conference for Undergraduate and Postgraduate Students and Young Scientists «Lomonosov»*, Moscow, Book of Abstracts, April 11-14, 2007, in press.
8. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Investigation of Complexation Influence of Trialkylaluminum Compounds with Halogen-Containing Lewis Bases on its Reactivity by means of Quantum Chemical Modeling**, *6th Regional School-Conference for Students, Graduate Students and Young Scientists on Mathematics, Physics and Chemistry*, Ufa, Book of Abstracts, October 26-27, 2006, p. 27-32.
9. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Theoretical Investigation of Thermodynamic Parameters of Dimerization of Trimethylaluminum by means of Quantum Chemical Modeling**, *5th All-Russian Scientific Internet-Conference "Integration of Science and Higher Education in the Field of Bio- and Organic Chemistry and Biotechnology"*, Ufa, Book of Abstracts, October 10-20, 2006, in press.
10. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Theoretical Investigation of Geometrical Structure of Dimer of Trimethylaluminum by means of Quantum Chemical Modeling**, *5th All-Russian Scientific Internet-Conference "Integration of Science and Higher Education in the Field of Bio- and Organic Chemistry and Biotechnology"*, Ufa, Book of Abstracts, October 10-20, 2006, in press.
11. A.E. Zagidullina, I.V. Vakulin, R.F. Talipov, and O.S. Vostrikova, **Quantum Chemical Investigation of Complexation of  $\text{LiAlEt}_4$  with Chloroalkanes**, *International Conference "Chemistry, Chemical Engineering and Biotechnology"*, Tomsk, Book of Abstracts, September 11-16, 2006, p. 14-15.
12. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Quantum Chemical Investigation of Donor-acceptor Complexes of Trimethylaluminum with Lewis Bases**, *10th V.A. Fock Meeting on Quantum and Computational Chemistry*, Kazan, Book of Abstracts, July 11-15, 2006, p. 72.
13. A.E. Zagidullina, I.V. Vakulin, R.F. Talipov, and O.S. Vostrikova, **Complexation of Trimethylaluminum with Halogen Anions: Quantum Chemical Investigation**, *International Conference "Organic Chemistry since Butlerov and Beilstein until Present"*, Saint Petersburg, Book of Abstracts, June 26-29, 2006, p. 590-591.

14. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Study of Structure Peculiarities of  $\text{LiAlEt}_4$  Associates with Dichloromethane by means of Ab initio and DFT Methods**, *16th All-Russian Youth Scientific Conference "The Problems of Theoretical and Experimental Chemistry"*, Ekaterinburg, Book of Abstracts, April 25-28, **2006**, p. 333-334.
15. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Study of Complexation Peculiarities of Trimethylaluminum with Chloroalkanes via Quantum Chemical Techniques**, *Republican Scientific-and-Practical Conference "Progress in Academic and Higher School Sciences integration in Chemistry Fields"*, Ufa, Book of Abstracts, February 18-19, **2006**, p. 184-192.
16. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Quantum Chemical Investigation of Complex  $\text{LiAlEt}_4$  Behavior in Chloroalkanes**, *4th All-Russian Scientific Internet-Conference "Integration of Science and Higher Education in the Field of Bio- and Organic Chemistry and Biotechnology"*, Ufa, Book of Abstracts, December 15-25, **2005**, p. 80.
17. A.E. Zagidullina, I.V. Vakulin, I.S. Shepelevich, and R.F. Talipov, **Study of Geometrical and Electronic Structure of Trimethylaluminum Complexes with Chlorohydrocarbons**, *1st All-Russian School-Conference "Young Scientists – for New Russia. Fundamental Investigations in the Field of Chemistry and Innovation Activity"*, Ivanovo, Book of Abstracts, September 26-29, **2005**, p. 113-115.
18. A.E. Zagidullina, I.V. Vakulin, I.S. Shepelevich, R.F. Talipov, M.A. Yusupova, O.S. Vostrikova, and V.A. Dokichev, **Investigation of Trimethylaluminum Complexes Structure with Chlorine-Containing Organic Solvents**, *4th International Youth Conference on Organic Synthesis "Modern Trends in Organic Synthesis and Problems of Chemical Education"*, Saint Petersburg, Book of Abstracts, June 27-30, **2005**, p. 347-348.
19. A.E. Zagidullina, I.V. Vakulin, I.S. Shepelevich, O.S. Vostrikova, V.A. Dokichev, and R.F. Talipov, **Quantum Chemical Investigation of Electronic Structure Peculiarities of Trimethylaluminum Complexes with Chlorine-Containing Organic Solvents**, *8th Youth Scientific School-Conference in Organic Chemistry*, Kazan, Book of Abstracts, June 22-26, **2005**, p. 135.
20. A.E. Zagidullina, I.V. Vakulin, I.S. Shepelevich, O.S. Vostrikova, V.A. Dokichev, and R.F. Talipov, **Quantum Chemical Investigation of Trimethylaluminum Complexation with Lewis Bases**, *International Scientific-and-Practical Conference "The Days of Science – 2005". V. 47. Chemistry*, Dnepropetrovsk, Book of Abstracts, April 15-27, **2005**, p. 22-23.
21. A.E. Zagidullina, I.V. Vakulin, and R.F. Talipov, **Quantum Chemical Investigation of Complexation of Trimethylaluminum with Chlorine-Containing Organic Solvents**, *43rd International Scientific Conference for Students "Student and Scientific-and-technical Progress": Chemistry*, Novosibirsk, Book of Abstracts, April 12-14, **2005**, p. 123-124.
22. A.E. Zagidullina, **Quantum Chemical Investigation of Complexation of Trialkylalanes with Chlorine-containing Organic Solvents**, *10th Republican Contest of Students' Research Papers*, Ufa, Book of Abstracts, April 11, **2005**, p. 43-44.