Dmitri* V. Kosenkov, Ph.D.

*Alternative spelling: Dmytro

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Appointments

Associate Professor of Chemistry (with tenure), Monmouth University 2018–Present
Assistant Professor of Chemistry, Monmouth University 2012–2018

Professional Preparation

Post-Doctoral Research Associate, Purdue University 2009–2012
Advisor: Prof. Lyudmila V. Slipchenko

Ph.D., Chemistry, Jackson State University 2009
Advisor: Prof. Jerzy R. Leszczynski

M.S., Physics (Radiophysics and Electronics)
National Taras Shevchenko University of Kyiv (Ukraine) 2005
Advisor: Prof. Galina I. Dovbeshko

B.S., Applied Physics,
National Taras Shevchenko University of Kyiv (Ukraine) 2003

Teaching Experience

Monmouth University 2012-Present

- Physical Chemistry with Labs
- Computational Chemistry and Molecular Modeling
- General Chemistry with Labs

External Funding

Collaborative Scialog Grant 2019-2021
Source of Grant: The Research Corporation for Science Advancement (RCSA) and Gordon and Betty Moore Foundation
Project: “Living Sunscreen”, Co-PIs: J. Winter, U. of Utah and C. Kaiser, JHU
Amount requested: $150,000 (*Pending*)

Research at Undergraduate Institutions (RUI) 2019-2022
Source of Grant: National Science Foundation
Project: “RUI: Advancement of Fragmentation Methods for Excitation Energy Transfer Modeling with Deep Learning Algorithms ”
Amount requested: $237,499 (*Pending*)

Cottrell Scholar Award 2016-2019
Source of Grant: The Research Corporation for Science Advancement (RCSA)
Project: “Exciton Energy Transfer in Light Harvesting Proteins with Covalently Bound Pigments: A Role of Molecular Vibrations”
Amount awarded: $100,000

Undergraduate Research Grant 2017-2020

Source of grant: The Petroleum Research Fund, American Chemical Society (ACS-PRF)
Project: "Modeling Impact of Intermolecular Interactions of LPG—Alcohol Mixtures on Stability of Phyllosilicates: Towards Improvement of Drilling Fluids"
Amount awarded: $70,000

Major Research Instrumentation (MRI) Grant 2016-2019
Source of grant: National Science Foundation (NSF)
Project: "Addition of High Performance Computers for the Molecular Education and Research Consortium in Undergraduate computational chemistRY (MERCURY)",
Senior Personnel, Collaboration with Furman University (PI: George C. Shields)
Amount awarded: $225,000

Internal Funding

MU Creativity and Research Grant 2016-2017
Source of Grant: Monmouth University
Project: "Development of Novel Chemistry Laboratory Instrumentation and Molecular Models with 3D-Printing Technology"
Amount Awarded: $2,000

MU Faculty Enrichment Grant 2016-2017
Source of Grant: Monmouth University, Urban Coast Institute (UCI)
Project: "Automatic System for Collection of Physico-Chemical Parameters of Water for Assessment of Intertidal Coastal Ecosystems" (with Co-PI Dr. P. Daneshgar)
Amount Awarded: $5,000

MU Summer Faculty Fellowship 2015
Source of Grant: Monmouth University
Project: "Modeling Non-Covalent Interactions in Organic and Biological Molecules in Ground and Electronic Excited States"
Amount awarded: $11,700

MU Grant-in-Aid for creativity 2012-2013
Source of Grant: Monmouth University
Project: "Designing Next Generation Solar Cells: Energy Transfer in Biological Chromophores"
Amount Awarded: $1,995

Professional Memberships

- ACS, American Chemical Society
- MERCURY, Molecular Education and Research Consortium in Undergraduate computational chemistry
- CUR, Council on Undergraduate Research

Service and Participation in Special Programs

- Member, *ACS General Chemistry First Term Examination Committee* (2014-2015, 2017-2018, 2018-Present)
- Organizer, *Frontiers in Computational Chemistry MU Lecture Series* (2014-Present)
- Reviewer of student projects and judge, *Monmouth Junior Science Symposium* (2013-2015)
- *Ad hoc* reviewer: *Environ. Sci. Technol.; Struct. Chem.; J. Mol. Graphics Modell.; J. Mol. Model.; Chem. Eur. J.; Chemosphere, J. Chem. Educ.* (2012-Present)
- Proposal reviewer: *ACS Petroleum Research Fund, Research Corporation for Science Advancement* (2016-Present)

Monmouth University Service Contributions

- Chair, *Committee of the Department* (2018-Present)
- Member, *School of Science Strategic Plan Implementation Committee* (2017-Present)
- Chair, *University Information Technology Committee* (2016-2018)
- Member, *University Grants and Sabbaticals Committee* (2016-2018)
- Member, *Assistant Professor of Physics Search Committee* (2017)
- Member, *Assistant Professor of Mathematics Search Committee* (2017)
- Member, *School of Science Strategic Planning Committee* (2016-2017)
- Member, V*ice-Provost for Transformative Learning Search Committee* (2016)
- Member, *Assistant Professor of Computer Science and Software Engineering Search Committee* (2016)
- Member, *Executive Committee of the Monmouth Junior Science Symposium* (2015)
- Member, *Strategic Planning: Personalized Learning Committee* (2014)
- Member, *School of Science: Building Committee* (2014-2016)
- Member, *B.S. Degree in Biochemistry Program Committee* (2014-2015)
- Member, *Scholarship Definition Review Committee* (2014-2015)
- Member, *Curriculum Review Committee* (2013-2015)
- Member, *Instrument Committee* (2012- Present)
- Member, *Safety Committee* (2013- 2016)
- Member, *Assistant Professor of Physics Search Committee* (2012)
- Acting Chair of the Department of Chemistry and Physics at MU (July, 2013; August, 2014)
- Academic advisor for chemistry majors (2013-Present)
- Research advisor for chemistry majors (2012-Present)
- Advisor, Second Reader of senior honors theses (2013, 2016)

Peer-Reviewed Publications

Journal Papers and Book Chapters (undergraduate co-authors underlined, *corresponding author Dmytro Kosenkov)

1. Yana Kholod and Dmytro Kosenkov*, "Chapter 15 Discovery-Based Computational Activities in the Undergraduate Chemistry Curriculum" in book *ACS Symposium Series "Using Computational Methods to Teach Chemical Principles"* Eds. A. Grushow and M. Reeves, ACS, Washington, DC. **2018** *(In Press)*
2. Yana Kholod, Michael DeFilippo, Brittany Reed, Danielle Valdez, Grant Gillan, and Dmytro Kosenkov „Excitation Energy Transfer Pathways in Light-Harvesting Proteins: Modeling with PyFREC", *J. Comp. Chem.*, **2018**, 39(8), 438-449. *
3. Yana Kholod, Erin Hoag, Katlynn Muratore, Dmytro Kosenkov. "Computer-Aided Drug Discovery: Molecular Docking of Diminazene Ligands to DNA Minor Groove" *J. Chem.Educ.* **2018**, 95(5), 882-887.*
4. Dmytro Kosenkov "PyFREC: Software for Förster Electronic Coupling Evaluation in Molecular Fragments " *J. Comput. Chem.* **2016**, 37(19), 1847-1854.*
5. Dmytro Kosenkov, James Shaw, Jennifer Zuczek, and Yana Kholod "Transient Absorption Spectroscopy of Cis-Trans Isomerization of N,N-Dimethyl-4,4'-Azodianiline with 3D-Printed Temperature Controlled Sample Holder" *J. Chem. Educ.* **2016**, 93(7), 1299-1304.*
6. Nicole Famularo, Yana Kholod, Dmytro Kosenkov "The Integration of Chemistry Laboratory Instrumentation into the Industrial Internet: A Titration Experiment" *J. Chem. Educ.* **2016**, 93(1), 175-181.*
7. Pradeep Gurunathan, Atanu Acharya, Debashree Ghosh, Dmytro Kosenkov, Ilya Kaliman, Yihan Shao, Anna Krylov, and Lyudmila Slipchenko, „The Extension of the Effective Fragment Potential Method to Macromolecules", *J. Phys. Chem. B.* **2016,** 120(27), 6562-6574.
8. Gary Prato, Samantha Silvent, Sammy Saka, Massimiliano Lamberto**,** Dmytro Kosenkov. **"**Thermodynamics of Binding of Di- and Tetrasubstituted Naphthalene Diimide Ligands to DNA G-Quadruplex." *J. Phys. Chem. B*, **2015**, 119(8), 3335–3347.*
9. Shao, Z. Gan, E. Epifanovsky, A. T. B. Gilbert, M. Wormit, J. Kussmann, A. W. Lange, A. Behn, J. Deng, X. Feng, D. Ghosh, M. Goldey, P. R. Horn, L. D. Jacobson, I. Kaliman, R. Z. Khaliullin, T. Kus, A. Landau, J. Liu, E. I. Proynov, Y. M. Rhee, R. M. Richard, M. A. Rohrdanz, R. P. Steele, E. J. Sundstrom, H. L. Woodcock III, P. M. Zimmerman, D. Zuev, B. Albrecht, E. Alguire, B. Austin, G. J. O. Beran, Y. A. Bernard, E. Berquist, K. Brandhorst, K. B. Bravaya, S. T. Brown, D. Casanova, C.-M. Chang, Y. Chen, S. H. Chien, K. D. Closser, D. L. Crittenden, M. Diedenhofen, R. A. DiStasio Jr., H. Do, A. D. Dutoi, R. G. Edgar, S. Fatehi, L. Fusti-Molnar, A. Ghysels, A. Golubeva-Zadorozhnaya, J. Gomes, M. W. D. Hanson-Heine, P. H. P. Harbach, A. W. Hauser, E. G. Hohenstein, Z.

C. Holden, T.-C. Jagau, H. Ji, B. Kaduk, K. Khistyaev, J. Kim, J. Kim, R. A. King, P. Klunzinger, **D. Kosenkov**, T. Kowalczyk, C. M. Krauter, K. U. Lao, A. Laurent, K. V. Lawler, S. V. Levchenko, C. Y. Lin, F. Liu, E. Livshits, R. C. Lochan, A. Luenser, P. Manohar, S. F. Manzer, S.-P. Mao, N. Mardirossian, A. V. Marenich, S. A. Maurer, N. J. Mayhall, C. M. Oana, R. Olivares-Amaya, D. P. O'Neill, J. A. Parkhill, T. M. Perrine, R. Peverati, A. Prociuk, D. R. Rehn, E. Rosta, N. J. Russ, S. M. Sharada, S. Sharma, D. W. Small, A. Sodt, T. Stein, D. Stьck, Y.-C. Su, A. J. W. Thom, T. Tsuchimochi, V. Vanovschi, L. Vogt, O. Vydrov, T. Wang, M. A. Watson, J. Wenzel, A. White, C. F. Williams, S. Yeganeh, S. R. Yost, Z.-Q. You, I. Y. Zhang, X. Zhang, Y. Zhao, B. R. Brooks, G. K. L. Chan, D. M. Chipman, C. J. Cramer, W. A. Goddard III, M. S. Gordon, W. J. Hehre, A. Klamt, H. F. Schaefer III, M. W. Schmidt, C. D. Sherrill, D. G. Truhlar, A. Warshel, X. Xuaf, A. Aspuru-Guzik, R. Baer, A. T. Bell, N. A. Besley, J.-D. Chai, A. Dreuw, B. D. Dunietz, T. R. Furlani, S. R. Gwaltney, C.-P. Hsu, Y. Jung, J. Kong, D. S. Lambrecht, W. Liang, C. Ochsenfeld, V. A. Rassolov, L. V. Slipchenko, J. E. Subotnik, T. Van Voorhis, J. M. Herbert, A. I. Krylov, P. M. W. Gill, and M. Head-Gordon „Advances in Molecular Quantum Chemistry Contained in the Q-Chem 4 Program Package“, *Molecular Physics*, **2015**, 113(2), 184–215.

10. Debashree Ghosh, Dmytro Kosenkov, Vitalii Vanovschi, Joanna Flick, Ilya Kaliman, Yihan Shao, Andrew T.B. Gilbert, Anna I. Krylov, Lyudmila V. Slipchenko „Effective fragment potential method in Q-CHEM: A guide for users and developers“, *J. Comput. Chem.*, **2013**, 34(12), 1060-1070.
11. Joanna Flick, Dmytro Kosenkov, David Sherril, and Lyudmila Slipchenko "Accurate Prediction of Non-Covalent Interaction Energies with Effective Fragment Potential Method" *J. Chem. Theory and Comp.*, **2012**, 8(8), 2835–2843.
12. Mikhail Baranov, Konstantin Lukyanov, Alexandra Borissova, Jordan Shamir, Dmytro Kosenkov, Lyudmila Slipchenko, Laren Tolbert, Ilia Yampolsky, and Kyril Solntsev "Conformationally locked GFP synthetic chromophores as a model of excited state proton transfer in fluorescent proteins" *J. Am. Chem. Soc.* **2012**, 134(13), 6025–6032.
13. William James; Evan Buchanan, Christian Mueller, Jacob Dean, Dmytro Kosenkov, Lyudmila Slipchenko, Li Guo, Andrew Reidenbach, Samuel Gellman, Timothy Zwier "Evolution of Amide Stacking in Larger γ-Peptides: Triamide H-Bonded Cycles" *J. Phys. Chem. A*, **2011**, 115 (47), 13783–13798.
14. Andrea Michalkova, Yana Kholod, Dmytro Kosenkov, Leonid Gorb, Jerzy Leszczynski "Origin of Life: Viability of Pyrite Pulled Metabolism in the "Iron-Sulfur World" Theory. Quantum Chemical Assessment" *Geochimica et Cosmochimica Acta* **2011**, 75(7), 1933-1941.
15. Dmytro Kosenkov, Lyudmila V. Slipchenko Solvent "Solvent Effects on the Electronic Transitions of p-Nitroaniline: A QM/EFP Study" *J. Phys. Chem. A.* **2011**, 115(4), 392–401.
16. Debashree Ghosh, Dmytro Kosenkov, Vitalii Vanovschi, Chris Williams, John Herbert, Mark Gordon, Michael Schmidt, Lyudmila Slipchenko and Anna I. Krylov "Non-covalent interactions in extended systems described by the Effective Fragment Potential method: Theory and application to nucleobase oligomers" *J. Phys. Chem. A.* **2010**, 114(48), 12739–12754.
17. Tetyana Petrova, Igor Tarabara, Vitaliy Palchikov, Liliya Kasyan, Dmytro Kosenkov, Sergiy Okovytyy, Leonid Gorb, Svetlana Shishkina, Oleg Shishkin, and Jerzy Leszczynski "Ethanolysis of N-substituted Norbornane Epoxyimides: Discovery of Diverse Pathways Depending on Substituent's Character, *Org. Biomol. Chem.* **2010**, 8(9), 2142-2157.
18. Dmytro Kosenkov**,** Yana Kholod, Leonid Gorb, and Jerzy Leszczynski, „Chapter 7 Evaluation of Proton Transfer in DNA Constituents: Development and Application of Ab Initio Based Reaction Kinetics“, *Book: „Kinetics and Dynamics From Nano- to Bio-Scale" Series: „Challenges and Advances in Computational Chemistry and Physics"* Vol. 12, edited by Piotr Paneth, Agnieszka Dybala-Defratyka, 187-211, Springer Netherlands **2010**.
19. Dmytro Kosenkov, Yana A. Kholod, Leonid Gorb, Oleg V. Shishkin, Gulnara M. Kuramshina, Galina I. Dovbeshko, and Jerzy Leszczynski „Effect of a pH Change on the Conformational Stability of the Modified Nucleotide Queuosine Monophospate"*J. Phys. Chem. A.* **2009**, 113(33), 9386–9395.
20. Dmytro Kosenkov, Yana Kholod, Leonid Gorb, Oleg Shishkin, Dmytro Hovorun, Michel Mons and Jerzy Leszczynski, "Kinetic simulation of Gas Phase Experiments: Cytosine and Guanine Tautomerization", *J. Phys. Chem B.* **2009**, 113(17), 6140–6150.
21. A. Michalkova, D. Kosenkov, L. Gorb, J. Leszczynski, "Thermodynamics and Kinetics of Intramolecular Water Assisted Proton Transfer in Na^+-1-Methylcytosine Water Complexes", *J. Phys. Chem B.* **2008**, 112(29), 8624-8633.
22. Yana Kholod, Dmytro Kosenkov, Sergiy Okovytyy, Leonid Gorb, Mohammad Qasim, and Jerzy Leszczynski "CL-20 Photodecomposition: *Ab Initio* Foundations for Identification of Products", *Spectrochimica Acta A: Molecular and Biomolecular Spectroscopy* **2008**, 71(1), 230-237.

23. Dmytro Kosenkov, Leonid Gorb, Oleg V. Shishkin, Jirí Šponer and Jerzy Leszczynski "Tautomeric Equlibrium, Stability and Hydrogen Bonding in 2′-Deoxyguanosine-Monophosphate Complexed with Mg^{2+}" *J. Phys. Chem B.* **2008**, 112(1), 150-157.
24. G.I. Dovbeshko, O.P. Gnatyuk, V.I. Chegel, Y.M. Shirshov, D.V. Kosenkov, E.A. Andreev, H.A. Tajmir-Riahi, P.M.Lytvyn "Gold and Colloidal Gold Surface Influence on DNA Conformational Change" *Semiconductor Physics, Quantum Electronics and Optoelectronics*, **2004**, 7(3), 318-325.
25. Olena P. Repnytska, Galina I. Dovbeshko, Volodymyr P. Tryndiak, Igor M. Todor and Dmitriy V. Kosenkov, "Structural organisation of nucleic acids from tumour cells", *Faraday Discuss.* 126, **2004**, 126, 61-76.
26. G.I. Dovbeshko, O.P. Paschuk, O.M. Fesenko, V.I. Chegel, Yu.M. Shirshov, A.A. Nasarova, D.V. Kosenkov, "Biological Molecule Conformations Probed and Enhanced by Metal and Carbon Nanostructures: SEIRA, AFM and SPR Data", In Book, *Frontiers of Multifunctional Integrated Nanosystems*, Ed.: E. Buzaneva, P. Scharff, Kluwer Academic Publishers, **2004**, 447-466.
27. G. Dovbeshko, O. Repnytska, T. Pererva, A. Miruta, D. Kosenkov, "Vibrational spectroscopy and principal component analysis for conformational study of virus nucleic acids", *Proceedings of SPIE*. Ed. S.Sveshnikov, S.Kostyukevich, SPIE, Washington, **2004**. Vol. 5507, 309-316.
28. G.I. Dovbeshko, V.I. Chegel, O.P. Paschuk, Yu.M. Shirshov, A. Nasarova**,** D. Kosenkov, O. Fesenko "Biological Molecule Conformations Probed and Enhanced by Metal and Carbon Nanostructures". In Book, *Frontiers of Multifunctional Integrated Nanosystems*, Ed.: E. Buzaneva, P. Scharff, Kluwer Academic Publishers, **2003**, 467-485.

Selected Conference Presentations and Invited Talks

1. Dmytro Kosenkov "Multiscale Modeling of Biological Systems: From Quantum Dynamics of Energy Transfer in Proteins to Neuronal Signaling", *Scialog Meeting: Chemical Machinery of the Cell*, October 18-21, **2018**, Tucson, AZ
2. Dmytro Kosenkov „ Quantum Dynamics Modeling Enhanced with Deep Learning: Application for Excitation Energy Transfer in Pigment-Protein Complexes", *256th ACS National Meeting & Exposition*, August 19-23, **2018**, Boston, MA
3. Dmytro Kosenkov „Quantum Dynamics Modeling Enhanced with Deep Learning: Application for Excitation Energy Transfer in Pigment-Protein Complexes", *Gordon Research Conference: 2018 Computational Chemistry*, July 22-27, **2018**, West Dover, VT
4. Dmytro Kosenkov „ The impact of Intramolecular Vibrations on Excitation Energy Transfer in Phycocyanin", *Telluride Workshop on Developments in QM/MM and Embedding Models for Photochemical and Electron Transfer Processes*, July 9-13, **2018**, Telluride, CO
5. Dmytro Kosenkov „Quantum Dynamics of Excitation Energy Transfer in Light-Harvesting Proteins", April 5, **2018**, William Paterson University, Wayne, NJ *(Invited Seminar)*
6. Dmytro Kosenkov „Impact of Molecular Vibrations on Exciton Energy Transfer in the Phycoerythrin Protein Complex", *255thACS National Meeting & Exposition*, March 18-22, **2018**, New Orleans, LA
7. Dmytro Kosenkov and Yana Kholod „Integration of Research Projects into the Undergraduate Chemistry Curriculum", *255th ACS National Meeting & Exposition*, March 18-22, **2018**, New Orleans, LA
8. Dmytro Kosenkov „Exciton Energy Transfer in Pigment-Protein Complexes", Telluride Workshop on Nonequilibrium Phenomena, Nonadiabatic Dynamics and Spectroscopy, July 17-21, **2017**, Telluride, CO
9. Dmytro Kosenkov „Mechanisms of Excitation Energy Transfer in Pigment-Protein Complexes", 254th ACS National Meeting & Exposition, August 20-24, **2017**, Washington, DC
10. Dmytro Kosenkov „Quantum Dynamics of Biomolecular Systems", *The College of New Jersey (TCNJ)*, November 18, **2016**, Ewing, NJ (*Invited Talk*)
11. Dmytro Kosenkov „Evaluation of Electronic Couplings in Pigment-Protein Complexes", *Philadelphia Theoretical Chemistry Club (PTCC)*, November 9, **2016**, Bryn Mawr College, Bryn Mawr, PA (Invited Talk)
12. Dmytro Kosenkov „Learning Through Scientific Research", *Faculty Research Showcase*, October 21, **2016**, Monmouth University, West Long Branch, NJ (*Invited Talk*)
13. Dmytro Kosenkov „Exciton Energy Transfer in Light Harvesting Proteins with Covalently Bound Pigments: The Role of Molecular Vibrations", *The 22nd Annual Cottrell Scholar Conference*, July 13-15, **2016**, Westin La Paloma, AZ
14. Dmytro Kosenkov and Yana Kholod „ Analysis of Electronic Couplings in Photosynthetic Proteins", *Middle Atlantic Regional Meeting (MARM) - American Chemical Society*, June 9-12, 2016, College of Mount Saint Vincent, Riverdale, NY

15. Dmytro Kosenkov „Efficient Evaluation of Electronic Couplings in Complex Molecular Systems“, *Pavanello Theoretical Chemistry Group Meeting, Department of Chemistry*, May 10, **2016**, Rutgers University, Newark NJ (*Invited Talk*)
16. Dmytro Kosenkov and Yana Kholod „Exciton Couplings in Complex Molecular Systems: A Computational Implementation“, *251st ACS National Meeting & Exposition*, March 13-17, **2016**, San Diego, CA
17. Dmytro Kosenkov, Nicole Famularo, and Yana Kholod „Integration chemistry laboratory instrumentation into the industrial Internet“,*251st ACS National Meeting & Exposition*, March 13-17, **2016**, San Diego, CA
18. Jennifer Zuczek, James Shaw, and Dmytro Kosenkov „Electronic excitations in Reichardt's and Brooker's solvatochromic dyes in solvents of varying polarity“,*251st ACS National Meeting & Exposition*, March 13-17, **2016**, San Diego, CA
19. Dmytro Kosenkov and Yana Kholod „Dynamics of Electronic Excitations in Complex Molecular Systems: A Computational Implementation“, *Northeast Regional Meeting (NERM) - American Chemical Society*, June 10-13, **2015**, Ithaca College, Ithaca, NY
20. Dmytro Kosenkov „Modeling non-covalent interactions in biomolecules: An ab initio based fragmentation approach“, *249th ACS National Meeting & Exposition*, March 22-26, **2015**, Denver, CO
21. Dmytro Kosenkov „A Role of Non-covalent Interactions and Solvent Effects in Structure and Photochemistry of Biomolecules“, *22nd Conference on Current Trends in Computational Chemistry*, November 15-16, **2013**, Jackson, MS
22. Dmytro Kosenkov and Lyudmila V. Slipchenko "Excitation Energy Transfer in Peridinin-Chlorophyll-Protein" *242nd ACS National Meeting & Exposition*, August 28 - September 1, **2011** Denver, CO
23. Dmytro Kosenkov and Lyudmila V. Slipchenko "First-Principles Based Modeling of Molecular Electronic Excitations in Biological Systems" *240th ACS National Meeting & Exposition*, 22-26 August, **2010** Boston, MA
24. Dmytro Kosenkov and Lyudmila V. Slipchenko "Electronic Excitations in Solution: First-Principles Based QM/MM Study" 240th ACS National Meeting & Exposition, 22-26 August, **2010** Boston, MA
25. Dmytro Kosenkov and Lyudmila V. Slipchenko, "A Combined Quantum Mechanics/Molecular Dynamics Simulation of Solvatochromic Shifts in Organic Chromophore p-Nitroaniline", *Gordon Research Conference on Atomic & Molecular Interactions*, 18-23 July, **2010**, Colby-Sawyer College in New London, NH
26. Dmytro Kosenkov and Lyudmila V. Slipchenko, "Solvent Effects on the Electronic Transitions in p-Nitroaniline: A Combined Quantum Mechanics/Molecular Dynamics Simulation", **2010** *Midwest Thermodynamics and Statistical Mechanics Conference*, June 2-3, 2010, University of Notre Dame, IN
27. Dmytro Kosenkov and Lyudmila V. Slipchenko, "QM/MM Simulations of UV Spectra of p-Nitroaniline in Organic Solvents", *Molecular Quantum Mechanics, an International Conference in Honor of Professor Henry F. Schaefer III*, May 24-29, **2010**, University of California, Berkeley, CA
28. Dmytro Kosenkov and Lyudmila V. Slipchenko, "Solvent Effects on the Electronic Transitions in p-Nitroaniline: QM/MM Study" *42nd Midwest Theoretical Chemistry Conference*, May 20-22, **2010**, *Purdue University*, West Lafayette, IN
29. Dmytro Kosenkov, Vitalii Vanovschi, Debashree Ghosh, Anna I. Krylov, Lyudmila V. Slipchenko "Implementation of the Effective Fragment Potential (EFP) method in Q-Chem" *Q-Chem Workshop*, 10-11 December, **2009**, University of California, Berkeley, CA
30. Dmytro Kosenkov, Leonid Gorb, and Jerzy Leszczynski "Developing a Kinetic Model of Experiments on Isolated DNA Constituents" *Gordon Research Conference on Biological Molecules in the Gas Phase and in Solution*, 5-10 July, **2009** Tilton, NH
31. Dmytro Kosenkov, Leonid Gorb, and Jerzy Leszczynski "Kinetic Simulation of Gas Phase Experiments on Nucleobases" 237th ACS National Meeting & Exposition March 22-26, **2009** Salt Lake City, Utah
32. Dmytro Kosenkov, Yana Kholod, Leonid Gorb and Jerzy Leszczynski "Does Queuosine Nucleotide Exist in Zwitterionic Form?" , *"Mississippi Academy of Sciences, 2009 Annual Meeting"*, February 26-27, **2009**, Olive Branch, MS
33. Dmytro Kosenkov "Nucleobases, Nucleotides, Nucleic Acids: Ab-Initio and Kinetic Simulations", *Prof. Mark Gordon Group Meeting, Department of Chemistry, Iowa State University*, July 2, **2008**, Ames, Iowa. (*Invited Talk*)