

CURRICULUM VITAE VIKTOR V. ZHDANKIN

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EDUCATION AND ACADEMIC DEGREES

Postdoctoral: 1987-1988, University of Minnesota; 1990-1993, University of Utah
Doctor of Chemical Sciences: 1987, Department of Chemistry, Moscow State University, Moscow, Russia
Ph.D. in Organic Chemistry: 1981, Department of Chemistry, Moscow State University, Moscow, Russia;
BS/MS (5 year program): 1978, Department of Chemistry, Moscow State University, Moscow, Russia

ACADEMIC EXPERIENCE

Professor, Department of Chemistry, University of Minnesota Duluth, July 1999 – present.
Department Head, Department of Chemistry, University of Minnesota Duluth, August 2011 – June 2012.
Associate Department Head, Department of Chemistry, University of Minnesota Duluth, May 2006 – September 2008 and June 2010 – July 2011.
Director of Graduate Studies in Chemistry (Chem–Duluth program), University of Minnesota, July 2002 – May 2006 and September 2008 – June 2010.
Associate Professor, Department of Chemistry, University of Minnesota Duluth, July 1996 – June 1999.
Assistant Professor, Department of Chemistry, University of Minnesota Duluth, September 1993 - June 1996.
Senior Research Associate, Department of Chemistry, University of Utah (with Professor Peter J. Stang), January 1990 – August 1993.
Instructor of Organic Chemistry, Department of Chemistry, University of Utah, January 1991 – August 1993.
Senior Research Fellow - Head of Research Group, Department of Chemistry, Moscow State University, Moscow, Russia, October 1988 – January 1990.
Visiting Postdoctoral Scientist (IREX Scholar), Department of Chemistry, University of Minnesota Duluth, December 1987 – September 1988.
Research Fellow, Department of Chemistry, Moscow State University, Moscow, Russia, January 1982 – December 1987.

RESEARCH INTERESTS

Green and Sustainable Chemistry: development of catalytic and recyclable systems based on hypervalent iodine chemistry.
Exploratory Synthetic Organic Chemistry of Hypervalent Main-Group Elements: preparation, structural investigation and synthetic application of new organic derivatives of polyvalent iodine, xenon, phosphorus and other elements.
Synthesis of Heterocycles.
Synthetic Organic Chemistry of Fluorine: preparation of perfluoroalkylated compounds; organic reactions of powerful fluorinating reagents (XeF_2 , $CsOSO_2OF$, etc.); synthetic application of fluoroorganic compounds.

ACADEMIC HONORS AND AWARDS

National Award of the American Chemical Society for Creative Research & Applications of Iodine Chemistry, 2011
Markovnikov Medal for outstanding achievements in organic chemistry, Moscow State University, Russia, 2019
Science Lectureship Award, Chiba University, Japan, 2015
Sabra S. and Dennis L. Anderson Scholar/Teacher Award, 2009
Jean G. Blehart Distinguished Teaching Award, 2006

University of Minnesota Duluth Chancellor's Award for Distinguished Research, 2004
Camille and Henry Dreyfus Scholar, 1998-2000

SIGNIFICANT PROFESSIONAL SERVICE AND ACTIVITIES

Scientific Editor and a Chair of Control Board: ARKIVOC, Online Journal of Organic Chemistry (<http://www.arkat-usa.org/>), April 2003 – present

Invited Editor for a special issue on Hypervalent Iodine Reagents: J. Org. Chem., 2017

Associate Editor: Resource-Efficient Technologies (Elsevier) (<http://www.journals.elsevier.com/resource-efficient-technologies/>), January 2015 – present

Member of Editorial Board: Review Journal of Chemistry (Springer publishers), March 2010 – present

Member of Editorial Board: Current Organic Synthesis (Bentham Science Publishers), November 2009 – present

Member of Editorial Board: Mendeleev Communications (Royal Chemical Society-Elsevier), March 1998 – present

Member of Editorial Board: Journal of the Mendeleev's Russian Chemical Society, March 1989 – January 1996

Member of Editorial Board: Russian Journal of Organic Chemistry, January 1989 – January 1993

Member of National Science Foundation Panel, Synthesis-3 (P111114) – March 2011.

Member of National Science Foundation Panel, Synthesis-1 (P100158) – October 2009.

Member of National Science Foundation Panel, Organic Synthesis Panel O (P080844) – March 2008

Member of Panel-2 (Organic Chemistry) of International Science Foundation on Long-Term Research Grants (Washington, DC), December 1993 – January 1995

Member of National ACS Award Canvassing Committee, 2007-2009, 2013-2015

Member of Organizing Committees and a Chair: 1st International Conference on Hypervalent Iodine, Thessaloniki/Halkidiki, Greece, September 2001; 2nd International Conference on Hypervalent Iodine, Thessaloniki, Greece, 2006; International Symposium "Advances in Science for Drug Discovery", Moscow, 2005; 3rd International Conference on Hypervalent Iodine, Bordeaux, France, 2010; 4th International Conference on Hypervalent Iodine Chemistry, Narita, Chiba, Japan, 2014; 5th International Conference on Hypervalent Iodine Chemistry, Les Diablerets, Switzerland, 2016; 6th International Conference on Hypervalent Iodine Chemistry, Cardiff, UK, 2018; 7th International Conference on Hypervalent Iodine Chemistry, Moscow, Russia, 2020.

SERVICE TO GRADUATE PROGRAMS

- Ph.D. Thesis Advisor or Co-Advisor to 14 students
- M.S. Thesis Advisor to 43 students
- served as a member of 8 Ph.D. examining committees at U. of Minnesota, U. of Waterloo (Canada), Indian Institute of Technology (Kanpur and Kurukshetra, India), and Stockholm University (Sweden)
- participated in the development of new Ph.D. program in Integrated Biosciences (IBS) at University of Minnesota Duluth during 2000-2002 (committee member)
- developed curriculum for the Chemistry track of IBS Ph.D. program, 2008-2010
- developed and taught new Ph.D. level graduate course IBS 8202 Chemical Biology (2014-2016)
- served as a Director of Graduate Studies in Chemistry (Chem–Duluth program at University of Minnesota) during 2002-2006 and 2008-2010
- served as a member of Graduate Council of University of Minnesota system during 2002-2006
- served as a member of Graduate Council of University of Minnesota Duluth during 2002-2010

POSTDOCTORAL RESEARCH ASSOCIATES AND VISITING PROFESSORS

Dr. Phillip J. Persichini III, Camille & Henry Dreyfus Fellow (1998-2000)
Prof. Mekhman S. Yusubov (2006, 2009-2016), The Siberian State Medical University, Tomsk, Russia
Prof. Jiang-Min Chen (2010-2011), Jiaying University, China
Dr. Xiao-Mei Zeng (2010-2011), Jiaying University, China
Dr. Akira Yoshimura (2010-2015), University of Tokushima, Japan
Prof. T. Nicholas Jones (Spring 2014, Sabbatical), College of Saint Benedict/Saint John's University
Dr. Rosa Y. Yusubova (Spring 2014), The Tomsk Polytechnic University
Dr. Mariia Larkina (Fall 2013, Fall 2014), The Siberian State Medical University, Tomsk, Russia
Dr. Larisa Drygunova (Fall 2014), The Siberian State Medical University, Tomsk, Russia
Prof. Akio Saito (2014, 2019), Tokyo University of Agriculture and Technology, Japan
Dr. Pavel S. Postnikov (2014, 2016), The Tomsk Polytechnic University

TEACHING EXPERIENCE

Department of Chemistry, University of Utah

- Chemistry 331, 332, 333 (*General Organic Chemistry*, full year course in three quarters), 1991-1993
Note: Official results of student evaluations are available for Chem 331 – 333. Overall rating of V. Zhdankin's teaching performance was 4.39 (5.0 maximum; average rating of all lecturers in chemistry at U. of Utah was 3.66)

Department of Chemistry, University of Minnesota Duluth

- Chem. 2541, 2542 (*General Organic Chemistry*, two semesters), 2008-2019
- Chem. 2521, 2522 (*General Organic Chemistry*, two semesters), 1999-2008
- Chem. 3540, 3541, 3542 (*Organic Chemistry for chemistry majors*, full year course in three quarters), 1993-1995
- Chem. 3512, 3513 (*General Organic Chemistry for non-majors in chemistry*, two quarters), 1995-1999
- Chem. 3514 (*Intermediate Organic Chemistry for chemistry majors*), 1999
- Chem. 3181, 4285 (*Undergraduate Chemistry Seminar*), 1996-1999, 2018
- Chem. 3192, 3194 (*Undergraduate Chemistry Research*), 1993-2019
- Chem. 5524 (*Advanced Organic Chemistry I*, graduate level course), 2005-2008, 2012-2018
- Chem. 5714 (*Applications of Spectroscopy*, graduate level course), 1999-2006
- Chem. 5750 (*Kinetics and Mechanisms*, senior undergraduate/graduate level course), 1995-1996
- Chem. 5710 (*Structural Chemistry*, senior undergraduate/graduate level course), 1995-1998
- Chem. 8540 (*Organic Reaction Mechanisms*, advanced graduate level course), 1995-2000
- IBS 8202 Chemical Biology (*Integrated Biosciences*, Ph.D. level graduate course), 2014-2016
- Chem. 8180 (*Graduate Seminar*), 1996-1999, 2018-2019
- Chem. 8777 (*Graduate Chemistry Research*), 1993-2019
Note: Official results of student evaluations are available for all classes taught at UMD. Overall rating of V. Zhdankin's effectiveness as an instructor in large chemistry classes (up to 315 students) is in the range of 5.9 to 5.1 (6.0 is maximum). Independent rating is also available at the national website <http://www.ratemyprofessors.com/>.

MAJOR EXTERNAL GRANTS

1. *Cottrell College Science Award of Research Corporation*, "New Reagents and Synthetic Procedures Based on the Organic Chemistry of Polyvalent Iodine", \$27,000; 12.15.93 to 12.15.96. (Principal Investigator)
2. *The Petroleum Research Fund*, administered by the American Chemical Society, "The Preparation and Study of Organic Derivatives of Xenon", \$25,000; 01.01.94 to 08.31.96. (Principal Investigator)
3. *University of Minnesota Graduate School Grant-in-Aid*, "Perfluoroalkyl Iodonium Compounds: New, Promising Reagents For Organic Chemistry", \$20,720; 07.01.94 to 12.15.95. (Principal Investigator)

4. *National Science Foundation*, (CHE-9505868), “New Polyvalent Iodine Reagents”, \$150,000; 05/31/95 to 05/31/98. (Principal Investigator)
5. *National Science Foundation*, Chemical Instrumentation Grant; “Purchase of NMR Spectrometer”, \$133,245; 09/1/96 to 09/1/97 (Co-Principal Investigator). [Matching funds from UM \$135,000].
6. *National Science Foundation*, Academic Research Infrastructure Program; “Renovation and Modernization of Research Space in Chemistry Building”, \$1,134,423; 01/1/97 to 01/1/98 (Co-Principal Investigator). [Matching funds from UM \$670,000].
7. *The Camille and Henry Dreyfus Scholar/Fellow Program for Undergraduate Institutions*; “Development of New Polyvalent Iodine Reagents for Organic Synthesis”, \$60,000; 09/1/98 to 8/31/2000. (Principal Investigator).
8. *National Science Foundation*, (CHE-9802823) “New Polyvalent Iodine Reagents”, \$180,000; 05/31/98 to 05/31/2001. (Principal Investigator).
9. *Chromaline Corporation*, “Chemical Samples”, \$7,000; 06/15/98 to 09/14/2000. (Principal Investigator).
10. *Northshore Mining Company*, “Pelletizing Binder Analysis”, \$5,000; 3/1/2001 to 2/28/2002. (Co-Principal Investigator).
11. *Civilian Research and Development Foundation*, “Derivatives of Polyvalent Iodine as Novel Reagents and Physiologically Active Compounds”, \$35,000; 10/01/2000 to 03/31/2002. (Co-Principal Investigator).
12. *National Science Foundation*, (CHE-0101021) “RUI: Organic Chemistry of Hypervalent Compounds”, \$240,000; 04/15/01 to 03/31/2004. (Principal Investigator).
13. *National Institutes of Health*, (R15 GM065148-01) “New Oxidizing Reagents for Organic Synthesis” \$130,556; 04/1/2002 to 03/31/2005. (Principal Investigator).
14. *National Science Foundation* (CHE-0353541), “Organic Chemistry of Hypervalent Compounds”, \$300,000; 03/01/2004 to 03/01/2007. (Principal Investigator).
15. *National Science Foundation*, Major Research Instrumentation (CHE-0416157) “Acquisition of High Field NMR Spectrometer”, \$508,692; 06/1/2004 to 06/1/2007 (Principal Investigator).
16. *National Science Foundation* (CHE-0702734), “Chemistry of Hypervalent Organoiodine Compounds”, \$375,000; 08/01/07 to 07/31/10. (Principal Investigator).
17. *National Science Foundation* (MRI -0922366), “MRI: Acquisition of a Single Crystal X-ray Diffractometer”, \$238,870; 09/01/2009 to 08/31/2012. (Co-Principal Investigator).
18. *National Science Foundation* (CHE-1009038), “Hypervalent Iodine Chemistry”, \$405,000; 08/01/2010 to 07/31/2013. (Principal Investigator).
19. *National Science Foundation* (MRI - 1420373), “MRI: Acquisition of a mass spectrometer”, \$234,500; 08/01/2014 to 07/31/2017. (Co-Principal Investigator).
20. *National Science Foundation* (CHE-1262479), “SusChEM: Organohypervalent Iodine Chemistry”, \$415,336; 08/01/2013 to 07/31/2017. (Principal Investigator).
21. *University of Minnesota Graduate School Grant-in-Aid*, “Hypervalent iodine chemistry”, \$29,400; 01/01/2018 to 06/30/2019. (Principal Investigator)
22. *National Science Foundation* (CHE-1759798), “RUI: Development of New Polyvalent Iodine Reagents”, \$341,108; 08/01/2018 to 07/31/2021. (Principal Investigator).

PROFESSIONAL SOCIETIES

American Chemical Society; Sigma Xi; Council on Undergraduate Research
Society of Iodine Science (Japan)

INDUSTRIAL CONSULTING

DuPont, Central Research & Development, Wilmington, DE
OmegaChem, Quebec, Canada (member of scientific advisory board)
Chromaline Corporation, Duluth, MN
Northshore Mining Company, Silver Bay, MN
LiphaTech, Inc, Milwaukee, WI

RESEARCH SEMINARS, PLENARY AND INVITED LECTURES

- 2019 1st Chinese Conference on Hypervalent Iodine Chemistry, Tianjin, China
Tsinghua University, Beijing, China
Institute of Chemistry, Chinese Academy of Sciences, Beijing, China
Fudan University, Shanghai, China
Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, China
4th Russian Conference on Medicinal Chemistry, Ekaterinburg, Russia
Markovnikov Organic Chemistry Conference, Krasnovidovo, Moscow, Russia
- 2018 University of Waterloo, Canada
6th International Conference on Hypervalent Iodine Chemistry (ICHIC2018), Cardiff, UK
4th Organic Chemistry Congress (OrgChemTR-4), Antalya, Turkey
Temple University, Philadelphia, PA
- 2017 Ohio State University
Missouri University of Science and Technology
- 2016 Institute of Chemical Research of Catalonia (ICIQ), Spain
University of Antwerpen, Belgium
Ghent University, Belgium
University of Münster, Germany
Dortmund University of Technology
University of Wuppertal
Aachen University
5th International Conference on Hypervalent Iodine Chemistry (ICHIC2016), Les Diablerets, Switzerland
- 2015 Tokyo University of Agriculture and Technology, Japan
Tomsk Polytechnic University, Tomsk, Russia
Science Lectureship Award, Chiba University, Japan
ACS Award Symposium for Creative Research and Applications of Iodine Chemistry, Denver, CO (invited lecture)
Southern Methodist University, Dallas, TX
- 2014 International Symposium on Elementoorganic Chemistry, Kunshan, China
4th International Conference on Hypervalent Iodine Chemistry (ICHIC2014), Narita, Japan
The City College and The City University of New York, New York
University of Akron, OH
- 2013 FloHet-2013, Gainesville, Florida (Short Course on Hypervalent Iodine Reagents in Organic Synthesis)
International Conference on Chemical Bonding, Kauai, HI
Case Western Reserve University, Ohio
Utah State University, Logan, Utah
Universidad Nacional Autonoma de Mexico, Mexico City, Mexico
- 2012 University of Toledo, Ohio
Stockholm University, Sweden
University of Pardubice, Czech Republic
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
HALCHEM-VI - Sixth International Meeting on Halogen Chemistry (Bangalore, India)
- 2011 ACS Award Symposium for Creative Research and Applications of Iodine Chemistry, Anaheim, CA (ACS Award lecture)
12th Annual Florida Heterocyclic Conference, Gainesville, Florida (Short Course on Hypervalent Iodine Reagents in Organic Synthesis)
Tomsk Polytechnic University, Tomsk, Russia
Novosibirsk Institute of Organic Chemistry, Novosibirsk, Russia

University of Tartu, Tartu, Estonia
Tallinn Technical University, Tallinn, Estonia
University of the Pacific, Stockton, CA

2010 11th Annual Florida Heterocyclic Conference, Gainesville, Florida (Short Course on Hypervalent Iodine Reagents in Organic Synthesis)
3rd International Conference on Hypervalent Iodine Chemistry, Bordeaux, France
Siberian State Medical University, Tomsk, Russia
Tomsk Polytechnic University, Tomsk, Russia

2009 ACS Award Symposium for Creative Research and Applications of Iodine Chemistry, Salt Lake City

2007 University of Missouri, Saint Louis
Washington University in Saint Louis
Northern Illinois University, DeKalb
ACS Award Symposium for Creative Research and Applications of Iodine Chemistry, Chicago
Zelinski Institute of Organic Chemistry, Moscow, Russia
University of Hanover, Germany
University of Duisburg-Essen, Germany
10th Symposium on Iodine Science, Chiba, Japan
University of Wisconsin-Eau Claire

2006 2nd International Conference on Hypervalent Iodine, Thessaloniki, Greece
7th Annual Florida Heterocyclic Conference, Gainesville, Florida

2005 International symposium “Advances in Science for Drug Discovery”, Moscow, Russia
Ghent University, Ghent, Belgium
East Carolina University

2004 5th Annual Florida Heterocyclic Conference, Gainesville, Florida
Winona State University, Winona, Minnesota
Los Alamos National Laboratory
Cardiff Symposium on Hypervalent Iodine Chemistry, Cardiff, UK
Moscow State University, Moscow, Russia
International Conference “Chemistry Biology Interface: Synergistic New Frontiers” New Delhi, India

2002 Baku State University, Baku, Azerbaijan

2001 1st International Conference on Hypervalent Iodine, Thessaloniki/Halkidiki, Greece
4th Symposium on Iodine Utilization, Chiba, Japan
Kyushu University, Fukuoka, Japan
University of Tokushima, Tokushima, Japan
Southwest State University, Marshall, Minnesota
Moscow State University, Moscow, Russia

2000 University of Alberta, Edmonton
University of Missouri, Saint Louis
University of Akron
University of Wisconsin, Superior
University of the Pacific
Marquette University
University of Minnesota, Minneapolis

1999 2nd Symposium on Iodine Utilization, Chiba, Japan

1998 Mendeleev Congress, St. Petersburg, Russia
Baku State University, Baku, Azerbaijan

1997 DuPont, Central Research & Development, Wilmington, DE

1996 Rutgers University, New Jersey
Michigan Technological University, Houghton

- 1995 North Dakota State University, Fargo
University of North Dakota, Grand Forks
- 1994 University of Minnesota, Minneapolis
- 1992 Wayne State University, Detroit
State University of New York at Buffalo
- 1991 Utah State University, Logan
- 1990 University of Minnesota Duluth
- 1989 Symposium on Undergraduate Education, Tbilisi, U.S.S.R.
Moscow Institute of Chemistry and Technology, Moscow, U.S.S.R.
Institute of Nuclear Research, Obninsk, U.S.S.R.
- 1988 University of Utah, Salt Lake City; St. Catherine College, St. Paul; University of Minnesota Duluth;
Northern Arizona University, Flagstaff; University of Illinois, Chicago;
University of North Carolina, Chapel Hill; College of St. Scholastica, Duluth

REVIEWER/REFEREE

- *Nature Chemistry; J. Amer. Chem. Soc.; Angewandte Chemie; Chem. Eur. J.; J. Org. Chem.; Inorg. Chem.; Tetrahedron; Tetrahedron Letters; Org. Prep. and Proc. International; J. Chem. Soc., Perkin Transactions 1; J. Chem. Soc., Perkin Transactions 2; Chemical Communications; Mendeleev Communications; Chemical Reviews; Russian Chemical Reviews; Synthesis; Synlett; Organic Letters; ARKIVOC; Molecules; Current Organic Chemistry; Organic & Biomolecular Chemistry; Sulfur Chemistry; Journal of Fluorine Chemistry; Eur. J. Org. Chem.; Chem. Eur. J.*
- *National Science Foundation; International Science Foundation; Civilian Research and Development Foundation; Petroleum Research Fund; Research Corporation; proposals for Jeffres Research Grants from Jeffres Memorial Trust.*

PUBLICATIONS

Books and Edited Books

1. *Hypervalent Iodine Chemistry: Preparation, Structure and Synthetic Applications of Polyvalent Iodine Compounds.* Zhdankin, V.V. (author); John Wiley & Sons: Chichester, **2014**.
2. *Handbook of Heterocyclic Chemistry, 3rd Edition.* Katritzky, A.R.; Ramsden, C.A.; Joule, J.A.; Zhdankin, V.V. (authors); Elsevier: Oxford, **2010**.
3. *Hypervalent Iodine Chemistry-Modern Developments in Organic Synthesis. Top. Curr. Chem. 224.* Wirth, T.; Ochiai, M.; Zhdankin, V.V.; Koser, G. F.; Tohma, H.; Kita, Y. (authors); Springer: Berlin, **2003**.
4. *Organic Chemistry: a Two-Semester Course of Essential Organic Chemistry (First Edition).* Zhdankin, V.; Grundt P.; Cognella Academic Publishing: San Diego, **2018**.
5. *Solutions Manual and Additional Problems for Organic Chemistry: A Two-Semester Course of Essential Organic Chemistry (First Edition).* Grundt P.; Mereddy, S.; Zhdankin, V.; Cognella Academic Publishing: San Diego, **2018**.
6. *Comprehensive Heterocyclic Chemistry III, Volume 5 (10 chapters): "Triazoles, Oxadiazoles, Thiadiazoles and their Fused Carbocyclic Derivatives,"* Zhdankin, V.V., Editor; Elsevier, Oxford, **2008**.
7. *Comprehensive Heterocyclic Chemistry III, Volume 6 (18 chapters): "Other Five-Membered Rings with Three or More Heteroatoms and their Fused Carbocyclic Derivatives,"* Zhdankin, V.V., Editor; Elsevier, Oxford, **2008**.

Patents

15 patents (US and Russia)

Abstracts and Proceedings of Major Presentations

113 published abstracts or proceedings of conference presentations

Refereed research articles, reviews, and book chapters

1. Perchlorate Anion as a Nucleophile in the Final Step of an Electrophilic Addition Reaction. Zefirov, N.S.; Koz'min, A.S.; Kirin, V.N.; Zhdankin, V.V.; Bodrikov, I.V. *Russ. J. Org. Chem.* **1978**, *14*, 2615.
2. Composes polycycliques et decage. *Trans*-addition des arylsulfenehalogenures aux derives non satures de tricyclo[4.2.2.0^{2,5}]decane. Zefirov, N.S.; Koz'min, A.S.; Kirin, V.N.; Zhdankin, V.V.; Lagodzinskaya, G.V.; Potekhin, K.A.; Kurkutova, E.N. *Nouv. J. Chim.* **1980**, *4*, 475-479.
3. Doping-addition of arylsulfenylchlorides to the tricyclo[4.2.2.0^{2,5}]deca-3,7,9-triene system: skeletal rearrangements and serendipitous products. Zefirov, N.S.; Koz'min, A.S.; Kirin, V.N.; Zhdankin, V.V.; Bodrikov, I.V. *Tetrahedron Lett.* **1979**, 3533-3536.
4. 5-(SR)-(2-Nitrophenylthio)-10-(SR)-acetoxy-8,9-dimethoxycarbonyltetracyclo[4.4.0.0^{2,4}.0^{3,7}]dec-8-ene, C₂₂H₂₁NO₈S. Sedov, B.B.; Rau, V.G.; Potekhin, K.A.; Struchkov, Yu.T.; Koz'min, A.S.; Zefirov, N.S.; Kirin, V.N.; Zhdankin, V.V. *Cryst. Struct. Comm.* **1979**, *8*, 685-688.
5. New Reaction - Conjugate Electrophilic Perchloration of Olefins. Zefirov, N.S.; Koz'min, A.S.; Kirin, V.N.; Zhdankin, V.V. *Russ. J. Org. Chem.* **1980**, *16*, 1085-1086.
6. 4(RS),9(RS)-dichloro-5,6-dimethoxycarbonyltetracyclo[5.3.0.0^{2,10}.0^{3,8}]dec-5-ene, C₁₄H₁₄Cl₂O₄. Sedov, B.B.; Rau, V.G.; Struchkov, Yu.T.; Koz'min, A.S.; Zefirov, N.S.; Zhdankin, V.V. *Cryst. Struct. Comm.* **1980**, *9*, 1033-1037.
7. 9(SR)-Acetoxy-10(RS)-(dinitrophenylthio)-7,8-dimethoxycarbonyltetracyclo[4.3.1.0^{2,5}]deca-3,7-diene, C₂₂H₂₀N₂O₁₀S. Sedov, B.B.; Rau, V.G.; Potekhin, K.A.; Struchkov, Yu.T.; Koz'min, A.S.; Zefirov, N.S.; Zhdankin, V.V.; Kirin, V.N. *Cryst. Struct. Comm.* **1980**, *9*, 1039-1042.
8. New Reaction of Conjugate Electrophilic Addition: Functionalization of Olefins with the Formation of Nitroperchlorates. Zefirov, N.S.; Nikulin, A.V.; Zyk, N.V.; Zhdankin, V.V.; Koz'min, A.S. *Russ. J. Org. Chem.* **1981**, *17*, 195-196.
9. 9(RS)-Iodo-6(SR)-perchlorato-3,4-dimethoxycarbonyltetracyclo[6.1.1.0^{2,7}.0^{5,10}]dec-3-ene, C₁₄H₁₄ClIO₈. Bondar', V.I.; Rau, T.F.; Rau, V.G.; Struchkov, Yu.T.; Koz'min, A.S.; Kirin, V.N.; Zefirov, N.S.; Zhdankin, V.V. *Cryst. Struct. Comm.* **1981**, *10*, 587-590.
10. Electrophilic Addition of Arylsulfenylchlorides to Tricyclo[4.2.2.0^{2,5}]deca-3,7-diene and -3,7,9-triene systems. Novel skeletal rearrangements and serendipitous products. Zefirov, N.S.; Koz'min, A.S.; Zhdankin, V.V.; Kirin, V.N.; Caple, R. *J. Org. Chem.* **1981**, *46*, 5264-5275.
11. 4-Exo-(2,4-dinitrophenylthio)-anti-6-perchloryloxy-9,10-cis-endo-dimethyl-tetracyclo[5.3.0.0^{2,5}.0^{3,8}]decane, C₁₈H₁₉ClN₂O₈S. Yufit, D.S.; Rau, V.G.; Struchkov, Yu.T.; Koz'min, A.S.; Zhdankin, V.V.; Kirin, V.N.; Zefirov, N.S. *Cryst. Struct. Comm.* **1981**, *10*, 1539-1544.
12. Stereochemistry of Nucleophilic Substitution in Cage Covalent Secondary Perchlorates. Zefirov, N.S.; Zhdankin, V.V.; Koz'min, A.S. *Bull. Acad. Sci. USSR* **1982**, *262*, 104-108.

13. 9(RS)-Iodo-6(SR)-perchloryloxy-3(RS),4(RS)-dimethoxycarbonyl-tetracyclo-[6.1.1.0^{2,7}.0^{5,10}]decane, C₁₄H₁₆ClIO₈. Rau, T.F.; Rau, V.G.; Potekhin, K.A.; Struchkov, Yu.T.; Koz'min, A.S.; Zhdankin, V.V.; Kirin, V.N.; Zefirov, N.S. *Cryst. Struct. Comm.* **1982**, *11*, 207-210.
14. 4-Exo-iodo-anti-perchloryloxy-9,10-cis-dimethyltetracyclo[5.3.0.0^{2,5}.0^{3,8}]decane, C₁₂H₁₆ClIO₄. Potekhin, K.A.; Rau, V.G.; Struchkov, Yu.T.; Koz'min, A.S.; Zhdankin, V.V.; Zefirov, N.S. *Cryst. Struct. Comm.* **1982**, *11*, 211-214.
15. Participation of the ClO₄⁻ anion in addition reactions of ArSCl and halogens with unsaturated derivatives of tricyclo[4.2.2.0^{2,5}]decane. Synthesis of stable covalent perchlorates. Zefirov, N.S.; Koz'min, A.S.; Zhdankin, V.V. *Tetrahedron* **1982**, *38*, 291-300.
16. Lithium perchlorate as a reagent for synthesis of covalently bonded organic perchlorates via electrophilic addition of halogens and nitronium tetrafluoroborate to olefins. Zefirov, N.S.; Koz'min, A.S.; Zhdankin, V.V.; Nikulin, A.V.; Zyk, N.V. *J. Org. Chem.* **1982**, *47*, 3679-3684.
17. Competing Binding of Perchlorate-anions in the Reactions of Oxidative Elimination of Iodine. Zefirov, N.S.; Koz'min, A.S.; Zhdankin, V.V. *Russ. Chem. Bull.* **1982**, 1676.
18. Nucleophilic Properties of Trifluoromethanesulfonate Anion in Conjugate Ad_E-Reactions. Synthesis of β-Haloidalkylperchlorates. Zefirov, N.S.; Koz'min, A.S.; Sorokin, V.D.; Zhdankin, V.V. *Russ. J. Org. Chem.* **1982**, *18*, 1768-1769.
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