

Igor V Svitanko

CV

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- Education **N D Zelinsky Institute of Organic Chemistry RAS** Moscow, Russia
Ph.D., Chemistry, June 1983. Thesis: "Direct Oxidation of Alkanoic Acids and their Amides to γ -Lactones by Peroxydisulphate-containing Systems". Referee: Prof. E.P.Serebryakov.
- Open University (UK)** OU Foreign Dept., Russia
Certificate, Course M86 (Computational Economics). June, 1996.
- M V Lomonosov Moscow State University** Moscow, Russia
Specialist Diploma (Master of Science), Chemistry, Department of Chemistry, June 1978. Thesis: Polarographic Investigations of Hg-Bi Aryl Rearrangements. Referee: Prof. N.S.Zefirov.
- Awards USSR School Olympiads, Chemistry, 1st-2nd grades Diplomas (1971-1973); USSR Student Olympiad, Chemistry; 1st place Diploma (1974), IOC RAS young scientists conference; 1st place Diploma (1982); **Russian Federation State Government Award in Education (2006).**
- Research **N D Zelinsky Institute of Organic Chemistry RAS** Moscow, Russia
Experience Head of Department, Senior Scientist.
3D-QSAR modeling in fragrance synthesis; in target synthesis of biologically active compounds.
Synthesis of psychotropic glycolurils; PARP, Syk-kynase inhibitors. (1994-current).
- Startups on Database technologies for:** Moscow, Russia
- Scientific publishing, <http://www.mathnet.ru> (1998-2010); <http://www.turpion.org> (1992-current);
www.mendcomm.org (1990-current). 1 Patent.
- Clinical endoscopy, in collaboration with Microsoft Russia and 31st Hospital of Moscow (2009-2012).
1 Patent.
- All-Union Institute of Fragrances, USSR** Moscow, Russia
Senior Scientist
Synthesis of Amber fragrances, investigations in theory of odor. 4 patents. (1986-1990).
- N D Zelinsky Institute of Organic Chemistry RAS** Moscow, Russia
Scientist.
Synthesis of O-, S, N-containing heterocycles using peroxydisulphate-containing Systems (1978-1983)
- N D Zelinsky Institute of Organic Chemistry RAS** Moscow, Russia
Advisor: Prof. E.I.Troyansky.
Synthesis of alcohol component of the pyrethroids (1979-1980). 3 Patents.
- N D Zelinsky Institute of Organic Chemistry RAS** Moscow, Russia
Advisor: Prof. E.I.Troyansky.
Young scientist. Direct oxidation of alkanolic acids and their amides to γ -lactones by peroxydisulphate-containing Systems" (1978-1983). 12 papers, 2 patents.

Teaching
Experience

M V Lomonosov Moscow State University Moscow, Russia
Assistant Professor and Deputy Head, Russian Academy of Sciences chair, Chemical Department.
Supervising: RAS student groups of the MSU Chemical Department (80 students) and collaboration between RAS and MSU in chemistry.

Higher Chemical College of the Russian Academy of Sciences at Mendeleev University of Chemical Technology, Moscow, Russia
University level of higher education (diploma is equivalent to Master degree).
One of the founders, Dean (1990-2000) and Vice-Chairman (1990-current).
Computational chemistry, Organic chemistry. Author of the educational programs and teacher on computational (1990-current), organic (1994-1998) and quantum (1999-2003) chemistry. Supervised organic chemistry courses, diploma defenses, students scientific work (subject of basic education in HCC RAS from 2nd year).

USSR and Russian Olympiads State Committees Russia
Head of commissions (Moscow and state levels), head of USSR team on International School Chemical Olympiads. (1974-2001). Member of Commissions of 1st level Olympiads of Chemistry (1974-current).

Main
Publications

G.A. Gazieva, Y. B. Vikharev, L.V. Anikina, T.B. Karpova, A.N. Kravchenko, E.A. Permyakov, I.V. Svitanko. Target synthesis of bioactive thioglycolurils, based on QSAR predictions. *Mendeleev Commun.*, **2013**, 23 (4), 202–203.

I.V.Svitanko, V.V.Kisin, S.S.Churanov. Standard Algorithms in Non-standard Chemical Tasks Solution. Moscow, MSU, 2012, 2nd edition – 2014 (planned).

L. V. Romashov, A. A. Zeifman, A. L. Zakharenko, F. N. Novikov, V. S. Stroilov, O. V. Stroganov, G. G. Chilov, S. N. Khodyreva, O. I. Lavrik, I. Yu. Titov and I. V. Svitanko. Rational design and synthesis of new PARP1 inhibitors. *Mendeleev Commun.*, **2012**, 22, 15-17.

4. T.V. Rakitina, A.A. Zeifman, I.Y. Titov, I.V. Svitanko, A.V. Lipkin, V.S. Stroylov, O.V. Stroganov, F.N. Novikov, G.G. Chilov, Efficacy of novel Syk kinase inhibitor MT-SYK-03 in cellular models of autoimmunity and cancer. *Mendeleev Commun.*, **2012**, 22, 287–289.

A.A. Zeifman, I.Yu. Titov, I.V. Svitanko, T.V. Rakitina, A.V. Lipkin, V. S. Stroylov, O. V. Stroganov, F. N. Novikov and G. G. Chilov. Rational design and synthesis of novel Syk-kinase inhibitors. *Mendeleev Commun.*, **2012**, 22, 73–74.

Sukhorukov, AY; Andryushkevich, SO; Chilov, GG; Zeifman, AA; Svitanko, IV. The first synthesis and molecular docking studies of diastereomerically pure substituted 4-amino-7-hydroxyheptanoic acids. *Mendeleev Commun.* **2011**, 21, 183-185.

I.V.Svitanko, L.A.Ponomareva, D.E.Tcheboukov, M.S.Dolmat, A.M.Zakharov, S.S.Grigor'eva, V.T.Chichua, D.A.Devetyarov, M.I.Kumskov. QSAR modeling on the base of electrostatic molecular surface (ambergris fragrances). *Mendeleev Commun.*, **2007**, 90-91.

Edwin Shelock and Igor V. Svitanko The de-commercialisation of scientific publishing – Some thoughts Against the Grain., *Against the Grain*, 11(1) February 1999.

Svitanko, Igor V.; Zyryanov, Ivan L.; Kumskov, Mikhail I.; Khmel'nitskii, Lenor I.; Suvorova, Lyudmila I.; Kravchenko, Angelina N.; Markova, Tatyana B.; Lebedev, Oleg V.; Orekhova, Galina A.; Belova, Svetlana V. The surface molecular potential method for calculating the structure-activity relationship for psychotropic compounds. *Mendeleev Commun.*, **1995**, 49-51.

Svitanko, Igor V.; Kumskov, Mikhail I.; Zyryanov, Ivan L.; Suslov, Ivan A. A method for describing the molecular electrostatic potential in determining structure-activity relationship. *Mendeleev Commun.*, **1994**, 161-162.

Makeev G.M., Kumskov M.I., Svitank'o I.V., Zyryanov I.L. Recognition of Spatial Molecular Shapes of Biologically Active Substances for Classification of Their Properties. Pattern Recognition and Image Analysis, 1996, v.6, n.4. p.795-804.
Pattern Recognition and Image Analysis, 1995, vol. 3, pp. 477-484.

V.V.Sorokin, I.V.Svitanko, Yu.N.Sychev, S.S.Churanov. Modern Chemistry in the International Olympiads Tasks. Moscow, «Chemistry», 1982, 2010.

Nikishin, G.I. Troyansky, E.I. Svitanko, I.V. & Chizhov, O.S., N,O-Acyloxylation of N-Methylpentanehydroxamic Acid, Tetrahedron Lett, 1984, 25, 97-98.

Nikishin, G. I.; Svitanko, I. V.; Troyansky, E. I. Direct oxidation of alkanolic acids and their amides to γ -lactones by peroxydisulfate-containing systems. Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry **1983**, 595-601.

E.I.Troyanskii, I.V.Svitank'o, O.S.Chizhov, and G.I.Nikishin
Stereochemistry of oxidative chlorination of cyclohexanecarboxylic acid and its methyl ester in the sodium peroxydisulfate - copper chloride system. Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, **1983**, 1537-1540.

Troyanskii, E. I.; Svitank'o, I. V.; Ioffe, A. I.; Gerbeleu, N. V.; Yampol'skaya, M. A.; Matuzenko, G. S. High reactivity of polynuclear complexes of copper(II) in the oxidation of organic free radicals. Zhurnal Neorganicheskoi Khimii **1983**, 28, 670-3.

Nikishin, G. I.; Troyanskii, E. I.; Svitank'o, I. V.. γ -Hydroxyalkanoic acid lactones. U.S.S.R. (1982) <patent № 899556>

References

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