

IN MEMORIAM



OLGA ANDREEVNA PUDOVA
(January 1, 1954 – October 2, 2003)

Olga Andreevna Pudova, Doctor of Chemistry and outstanding scientist of the Latvian Institute of Organic Synthesis, passed away on October 2. The passing of O. A. Pudova is an irreplaceable loss for all her colleagues.

After graduating from Kuban State University in 1976, O. A. Pudova became a post-graduate student at the Latvian Institute of Organic Synthesis (Academy of Sciences of the Latvian SSR) under the direction of Professor E. Lukevics. Her scientific research was in the field of synthesis of silicon- and germanium-substituted furans and thiophenes. In 1980, O. A. Pudova successfully defended her doctoral dissertation on the subject "Synthesis and properties of furan and thiophene derivatives of Group IVB elements." Olga Pudova developed methods for obtaining novel silyl- and germyl-substituted furans and thiophenes, and also studied their physical and chemical properties.

In the 1980s, O. A. Pudova investigated the reaction of hydrosilylation using different catalysts. In 1987, together with Dr. R. Sturkovich and Professor E. Lukevics, she published the monograph *Molecular Structure of Organosilicon Compounds* [in Russian]. Two years later, another version of the book was published in English by Ellis Horwood Ltd.

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In the second half of the 1990s, Olga Andreevna was engaged in research in the field of the chemistry of oligothiophenes and oligothiophene S,S-dioxides, in connection with their semiconductor properties. The methodology she developed made it possible to construct oligothiophene S,S-dioxides with insertion of a thiophene dioxide moiety at any position of the oligothiophene chain, which in turn makes it possible to vary the optical properties of the oligomeric materials obtained. Olga Andreevna worked closely with Professor Giovanna Barbarella from the Institute of Heteroatomic Carbon Compounds and Their Applications (National Research Council, Bologna, Italy).

Even while terminally ill, Olga Andreevna wrote a splendid review for the journal *Heterocycles*, correlating literature data and the results of her own research on the chemistry of oligothiophenes.

For several years, O. Pudova was one of the scientific editors of the English version of our journal and did a considerable amount of work to prepare it for online publication.

Olga Andreevna Pudova will always remain in the memories of her colleagues at the Institute of Organic Synthesis, both as a good chemist and as a wonderful friend.

P. Arsenyan and E. Lukevics

MAJOR PUBLICATIONS OVER THE PAST 10 YEARS

1. S. Gronowitz, A.-B. Hörnfeldt, E. Lukevics, and O. Pudova, "Synthesis and amine-induced ring-opening of silyl substituted thiophene 1,1-dioxides," *Synthesis*, 40-43 (1994).
2. E. Lukevics and O. Pudova, "Furan derivatives of Group I elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **31**, 377-411 (1995).
3. E. Lukevics and O. Pudova, "Furan derivatives of Group II elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **31**, 412-431 (1995).
4. E. Lukevics and O. Pudova, "Furan derivatives of Group III elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **31**, 753-765 (1995).
5. E. Lukevics and O. Pudova, "Furan derivatives of Group IV elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **31**, 1375-1468 (1995).
6. E. Lukevics, S. Belyakov, and O. Pudova, "A new pathway for the synthesis of 1,3-dioxo-6-aza-2-germacyclooctanes: Molecular structure of 2,2-di(2-thienyl)-6-methyl-1,3-dioxo-6-aza-2-germacyclooctane," *J. Organomet. Chem.*, **523**, 41-45 (1996).
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8. E. Lukevics and O. Pudova, "Four-membered rings with one silicon, germanium, tin or lead atom," in: *Comprehensive Heterocyclic Chemistry II* (Editors-in-Chief A. R. Katritzky, C. W. Rees, E. F. Scriven, Vol. 1B/(A. Padwa, volume editor), Pergamon, UK (1996), pp. 867-886.
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10. E. Lukevics and O. Pudova, "Furan derivatives of Group V elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **32**, 499-542 (1996).
11. E. Lukevics and O. Pudova, "Furan derivatives of Group VI elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **32**, 737-761 (1996).
12. E. Lukevics and O. Pudova, "Molecular structure of heterocyclic derivatives of hypercoordinated silicon," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **32**, 1381-1418 (1996).

13. E. Lukevics and O. Pudova, "Furan derivatives of Group VII elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **33**, 130-132 (1997).
14. E. Lukevics and O. Pudova, "Furan derivatives of Group VIII elements," *Chem. Heterocycl. Comp. (Engl. Ed.)*, **33**, 133-154 (1997).
15. E. Lukevics and O. Pudova, "Molecular structure of compounds with silicon—silicon bonds," *Main Group Met. Chem.*, **21**, 123-183 (1998).
16. G. Barbarella, O. Pudova, C. Arbizzani, M. Mastragostino, and A. Bongini, "Oligothiophene S,S-dioxides: A new class of thiophene-based materials," *J. Org. Chem.*, **63**, 1742-1745 (1998).
17. G. Barbarella, L. Favaretto, M. Zambianchi, O. Pudova, C. Arbizzani, A. Bongini, and M. Mastragostino, "From easily oxidized to easily reduced thiophene-based materials," *Adv. Mater.*, **10**, 551-554 (1998).
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21. G. Barbarella, P. Ostojá, P. Maccagnani, O. Pudova, L. Antolini, D. Casarini, and A. Bongini, "Structural and electrical characterization of processable bis-silylated thiophene oligomers," *Chem. Mater.*, **10**, 3683-3689 (1998).
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23. E. Lukevics and O. Pudova, "Molecular structure of organosilicon compounds with Si-M (M = Ge, Sn, Pb, Ti, Zr, Hf) bonds," *Main Group Met. Chem.*, **22**, 385-403 (1999).
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29. E. Lukevics, P. Arsenyan, S. Belyakov, J. Popelis, and O. Pudova, "Regiospecific silylation of 2,5-dibromothiophene: A reinvestigation," *Tetrahedron Lett.*, **42**, 2039-2041 (2001).
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