

Boris Borisovich Damaskin

(16.05.1932 - 13.12.2019)



On December 13, 2019, Boris Borisovich Damaskin, eminent scientist in the field of electrochemistry and one of the eldest and distinguished professors of the M.V. Lomonosov Moscow State University died at the age of 87.

His life was closely associated with the Faculty of Chemistry where he entered in 1951 after graduating school with Gold Medal. It is there, at the Department of Electrochemistry, that he defended his diploma studies and afforded his Candidacy for science (PhD) dissertation (1959), under supervision of academician A.N. Frumkin and later his Doctoral (in certain sense equivalent to Habilitation in Germany and some other countries) dissertation (1965). The subsequent scientific activity of Boris Damaskin also proceeded at the Department of Electrochemistry, in close contact with A.N. Frumkin. The main result of their collaboration was the theory of

adsorption of organic compounds, which became a fundamental part of electrochemistry and is known now as the Frumkin-Damaskin theory. During the ensuing years, Damaskin successfully elaborated this theory by refining phenomenological models of interfaces with the use of modern computation techniques and original statistical approaches. His contribution into this field of electrochemistry includes also a vast set of precise experimental data. The working style of Boris Damaskin was characterized by the high quality requirements of experimental data and the unbiased analysis of results and theoretical approaches. These achievements had brought him world-wide reputation and made him one of the most authoritative scientists in the field of the structure of charged interfaces.

Professor Damaskin authored more than 650 scientific publications, which included 11 books. The last study with his participation was published in 2017. His monograph "Adsorption of Organic Compounds on Electrodes" (1968) was translated into English and German and still remains the highly topical and actively cited book. On his 70th anniversary (in 2002), the "Journal of Electroanalytical Chemistry" [552 (2003) 1–17] published the list of B.B. Damaskin's publications in reviewed journals which included 533 references. Below, we show the list of his main publications in the period 2003–2017.

Professor B. Damaskin headed the Department of Electrochemistry in the period from 1976 to 1998. In total, he worked at the Department of Electrochemistry for 57 years (1959–2015). Furthermore, he worked very actively as a pedagogue. He was justly acknowledged as one of the leading lecturers of the Faculty of Chemistry. For 50 years, he delivered the course of lectures on electrochemistry, within the general course of physical chemistry, for all students of the Faculty. For more than 30 years he read a special course on the electric double layer and electrochemical kinetics. These original courses formed the basis of the manual "Electrochemistry" (two editions: 2001 and 2006) for Russian universities and also of manuals on electrochemistry and electrochemical kinetics, which were translated into English, Spanish, Portuguese, and Chinese. Professor Damaskin repeatedly visited many countries to read lectures and give consultations. Under his supervision, 35 candidate dissertations (PhD) were defended; 10 of his pupils have become the Doctors of Chemistry. Numerous pupils and trainees are active now, not only in Russia but also in the USA, Germany, Czech Republic, Poland, France, Bulgaria, Romania, Israel, Slovakia, Georgia, Lithuania, Kazakhstan, Estonia, and Ukraine.

The achievements of Boris Damaskin in research and pedagogical activities were recognized by many awards. In 1993, he was awarded with the titles of Honored Professor of the Moscow State University and Honored Scientist of the Russian Federation. In 2002, with the group of scientists from the Faculty of Chemistry and the Semenov Institute of Chemical Physics of the Russian Academy of Sciences, B. Damaskin had become laureated with the Premium of the President of the Russian Federation in the Field of

Education; in 2003, he was rewarded with the high state award: the Order of Honor. The A.N. Frumkin Memorial Medal, which was given to Prof. Damaskin in 2005 by the International Society of Electrochemistry, reflects the wide recognition of his remarkable scientific achievements.

Professor Damaskin was member of the International Society of Electrochemistry. For a long period he was member of the Editorial Board and vice Editor-in-Chief of the journal "Elektrokhimiya" ("Russian Journal of Electrochemistry").

Boris Damaskin was known for faithfulness to his beloved science, highest erudition, permanent benevolence and eagerness to help his colleagues. The circle of his interests included crosscountry skiing, history of Russia, poetry, and music. He not only recited the poets of different epochs and currents but also was himself the author of numerous verses (often full of fine humor) which he read with high artistic skill.

We wish to express our deep sympathy to Boris Damaskin's wife, Tatiana, his daughter Elena and his grandchildren Dmitrii and Sofia. The bright memory of Boris Damaskin, remarkable scientist and pedagogue, wise and kind man will live forever in our hearts.

List of papers by B.B. Damaskin published from 2003 to 2017.

1. Damaskin B.B., Safonov V.A., Baturina O.A., Safonov N.V., Coadsorption of Two Organic Substances within the Framework of a System of Two Mixed Frumkin Isotherms, *J. Electroanal. Chem.*, 550 (2003) 3–11.
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5. Emets V.V., Damaskin B.B., Electrical Double Layer on Liquid Bi–Ga Alloys in Aqueous Solutions, *Russ. J. Electrochem.*, 40 (2004), 56–62.
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11. Emets V.V., Damaskin B.B., Adsorption of *n*-Butanol on Pb–Ga in Aqueous Solutions: Effect of Metal on the Adsorption of Organic Compounds in the Absence of Metal–Water Chemisorption Interaction, *Russ. J. Electrochem.*, 40 (2004) 843–848.
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16. Damaskin B.B., Adsorption Parameters in Solutions of Ethyl Esters of Aliphatic Acids, *Russ. J. Electrochem.*, 41 (2005) 355–360.
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Упомянутый в некрологе список трудов, включающий книги и монографические главы, доступен по ссылке <http://www.elch.chem.msu.ru/wp3/index.php/ru/personalia/damaskin/list-of-publications/>

Наиболее важные публикации из этого списка:

Книги, опубликованные на английском языке

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