

Prof. Aleksandr Lushchik

University of Tartu / Institute of Physics



1. *Present Position*: Professor of Solid State Physics and Head of Laboratory (Physics of Ionic Crystals), Institute of Physics, University of Tartu, Estonia,

Academic Degrees: PhD in Physics -1980; DSc -1991.

Education: 1969–1974 – student, solid state physics (cum laude), 1976-1979 PhD student, both at Physics Department, University of Tartu.

Career: since 1974 several positions at Tartu University: Researcher, Senior Researcher, Associate Professor and Full Professor.

Visiting Professor at Delaware University, Newark USA (1982-1983); Swedish Institute, Lund University, Sweden (1992-1993); Institute for Molecular Science, Okazaki, Japan (1995-1996).

2. Prof., DSc A. Lushchik – internationally recognized specialist on radiation physics and spectroscopy (incl. VUV region at synchrotron facilities) of wide-gap materials with focus on the features of intrinsic/imperfection-related electronic excitations; the mechanisms of the creation, accumulation, transformation and subsequent thermal annealing of radiation-induced Frenkel

defects; criteria of radiation tolerance (prevention of functional capacity) of different functional materials for detectors/dosimeters, lighting, nuclear energetics (incl. projected deuterium-tritium fusion reactors).

3. More than 300 scientific articles, one monograph, Journal vols. Guest-Editor; long-term experience in organization of collaborative and R&D projects (incl. numerous Estonian Government's Target-Financed and EU EUROfusion projects); supervision of PhD students (more than 20 defended theses); Member of International Advisory Committee at many Conferences (incl. ICDIM/EURODIM), So-Chair of ICDIM-2004 (Riga, Latvia).

Foreign Member of the Latvian Academy of Sciences; Honorary Professor of the K. Zubanov Aktobe Regional University (Kazakhstan); Estonian State prize (achievements in science, 1987).