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*Research areas: solar physics, solar activity, sunspots, dynamics and evolution of the differens scales magnetic structures on the Sun, magnetohydrodynamics, investigations of the time series.*

The main results are in area of investigations of the physical parameters of the sunspots. The radial distribution of the vertical component of magnetic field was obtained using the satellite data. Another important result is the evaluation of the superconvective cells depth with the analysis of the differential rotation of small-scale structures on the Sun and helioseismology data. In this research new method of the obtaining the differential rotation is used. The dependency between the magnetic field strength and the brightness in the sunspots was investigated using the SDO (Solar Dynamics Observatory) data.

Another (and new) area of investigation is the relations between the solar activity and climate changes on Earth. This area of research is perspective in case of the new possibilities of observations of the markers for the reconstruction of the solar activity in the past. At the same time now we have a lot of observations of the climate markers. Hence we can find dependencies between the solar activity and climate changes on the Earth.