

Russian science integration into world science: bibliometric analysis based on the database of the Russian Foundation for Basic Research.

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The tremendous social and political changes that culminated in the Soviet Union's dissolution had a great impact on the Russian science community. The aim of the paper was to examine the impact of competitive funding on research collaboration among Russian scientists and the world science. International collaboration through co-authorship is a topic to which many recent studies have been developed. This is the first time results of international collaboration are based on the use of the database designed by the Russian Foundation for Basic Research (RFBR). Statistics to evaluate the collaborative output of research was collected from the final reports of the RFBR grant-holders for 1999-2001. Bibliometric analysis of collaborative output demonstrated a strong shift in collaboration partners from East European countries and former USSR countries to Western Europe (its share was about 61%), USA and Japan. Physics was a leading field of science in international collaboration. We found that more than 50 % of collaborative papers published in Russian and non-Russian journals are not available to the world scientific community. Among the Russian provinces, the Povolzh'e region became leading with regard to basic research as measured by number of grants and growing tendency to integrate into world science. However, the collaboration depends heavily on financial support from foreign countries.

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