

## Open Access to Academic and Scholarly Information and Scientific Data

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Scholarly and scientific information is the infrastructure of science and humanity in a broad sense. The first successful academic journal, Philosophical Transactions, in 17 century have resulted in open and sharing of academic literature or information. In modern Science and Technology research, information which cannot be expressed in a written journal paper, including numerical data, 3-dimensional geospatial information, voice and sounds, and movies. are increasingly being recognized important in international community. Considering that Open Access (OA) of academic journals is to support further advancement of science and technology in coordination with transition from printing culture to electronic media, scientific research data which can be open should be subject to the scientific information infrastructure. International data management activity like ICSU-WDS from the academic side, and RDA related to governmental arrangement are part of such big challenges of the international community. Data citation, using DOI as a persistent identifier attached to a data set, is promoted by international organizations such as WDS, RDA, DataCite, ICSTI, Force11, etc., jointly with science publishers such as Thomson Reuter, Elsevier, Wiley, and so on.

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