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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 46208-2025

**Science and technology resource sharing - Specification for
science and technology resource information integration**

科技资源共享 科技资源信息集成规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Science and Technology of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Science and Technology Platforms (SAC/TC486). This document was drafted by: Beijing University of Aeronautics and Astronautics, China National Institute of Standardization, Yunnan Academy of Science and Technology, and Yunnan University. The main drafters of this document are. Zhang Hui, Jin Shenghao, Wang Zhiqiang, Zhao Qiyang, Yang Qinghai, Wang Deqing, Lin Mengxiang, Yang Yan, Zhang Yan, and Feng Libo. Wu Mingxin and Tu Yu. Technology resource sharing Standard for Integration of Science and Technology Resource Information

1 Scope

GB/T 46208-2025 is the Chinese national standard covering bringing the descriptions of instruments, collections and data held by different institutes into one catalogue - the common metadata, the mapping from each institute's own scheme, the identifiers, and the update and quality rules. First edition, under the Ministry of Science and Technology. In force from 1 February 2026. Issued on 5 October 2025, it has been in force since 1 February 2026.

This document specifies the overall requirements, architecture, and specific requirements and processes for the layered functions of science and technology resource information integration. This document applies to the integration of data and information in science and

technology resource sharing and service activities.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 20533 Ecological Science Data Metadata

GB/T 30523 Core Metadata of Scientific and Technological Resources

GB/T 42813 Data Thesis Publication Metadata

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 The collective term for material and informational elements in scientific and technological activities.

Note. Scientific and technological resources include the tools, conditions, and objects required for scientific and technological innovation, such as scientific research instruments and facilities, scientific data, biological germplasm, and experimental materials. [Source: GB/T 30523-2023, 3.1]

3.2 Science and technology resource metadata In science and technology resource management and sharing activities, structured data is used to standardize the description of the characteristics, attributes and relationships of science and technology resources.

3.3 Structured data used to describe the content, characteristics, and attributes of scientific and technological resources.

3.4 By employing standardized technical processes, metadata from diverse and heterogeneous scientific and technological resources is collected, cleaned, mapped, and fused to construct a unified semantic structure. A collection of metadata about the organization's scientific and technological resources.

3.5 data schema The definition and description of the centralized data organization, structure and constraints of science and technology resource datasets.