

# Designing a Standard Framework for Describing Chinese Publications

## Based on JATS Standard

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### **Abstract:**

With the rapid development of information technology and digital technology, readers' reading behavior is gradually inclined to the portals of PC and mobile phones. Numerous scientific periodical press or editorial departments in China adopt various storage standards, which presents small and scattered characteristics. JATS (Journal Article Tag Suite) is a commonly used storage standard for periodicals overseas designed by NCBI (National Center for Biotechnology Information), whereas there is no uniform one in China. This research aims to design a unified journal storage standard based on JATS for Chinese scientific literatures, which can improve the integration of periodical resources and promote data quality and management, and realize the localization of JATS finally. We analyzed the tag structure defined by JATS and compared three label sets for different application scenarios. Standards and submission formats with JATS structure which a paper can get into PMC according to were studied in our research. PMC Style Checker and self-designed algorithm were used to make the XML, PDF, images and other content on the papers meet the PMC Journal standards. Some data labels were adjusted and supplemented based on JATS, including "Language" and "Simplified Chinese Character/ Traditional Chinese Characters", to make this framework applicable to Chinese journals. Above all, a Chinese journal description standard framework was designed based on the research, and AMIS Public Health journal was get into PMC successfully adopt in this method, which laid basis for developing format review and conversion tools in the future.

**Keyword:** JATS, Data Standard, Journal archives