

Analytical Chemistry of Nuclear Fuels
and Reactor Materials in Japan
A Bibliography

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Japan Atomic Energy Research Institute

要 旨

この文献集は主として1958年以降現在までに発表された日本における核燃料および種々の炉材料の分析に関する研究，総説220を集録したものである。

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Abstract

This bibliography contains 220 reports on the analytical studies of nuclear fuels and other reactor materials in Japan, covering the period from 1958 to mid-1962.

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まえがき

近年わが国の各研究機関において、核燃料および各種の原子炉材料物質の分析化学的研究が多数おこなわれている。これらの報告を調査し整理しておくことは研究上あるいは実用上価値あることと考えられるのでその文献集を作成した。ここに集録した文献は国内でおこなわれた研究で、主として代表的な学会誌に発表されたものである。ウラン、トリウム、アルミニウム、ビスマス、マグネシウム、ジルコニウム、黒鉛、重水などに関する分析で原子炉材料として用いられることを考慮しておこなわれた研究を取り上げた。なお、調査は主として 1958 年以降の学会誌によっている。また対外的な交流を考慮して題目などすべて英文とし、研究者の所属機関ならびにその所在地を示した。

原論文が英語およびドイツ語のものは雑誌名のあとのカッコ内に国語を示した。特記しないものは日本語である。First author につけた数字は、巻末に示した所属機関のナンバーである。

Preface

In recent years, a number of researches on the analysis of nuclear fuels and other various reactor materials have been made at many research institutes in Japan. It is of great benefit to the fundamental studies and their applications in the nuclear industry to survey the reports of such studies and to arrange them in the form of a bibliography. The reports listed hereunder are those presented in the country, mainly published in the representative journals of academic societies in Japan. They include the research on the analysis of uranium and thorium, and of the other materials used or expected to be used in nuclear reactor technology, such as aluminum, bismuth, magnesium, zirconium, graphite and deuterium. The contents of this bibliography have been prepared mainly referring to the journals since 1958. Considering the exchange of information with other countries, this bibliography presents the title of each report in English, and also the name and address of the institute where the respective studies have been made.

In the case of the original report written in English or German, it is shown in parentheses after the title of the journal in which it was published. In case of Japanese, however, no indication is given.

The numbers attached to the first author show the order of listing their respective addresses at the end of this volume.

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