

# AIP (AMERICAN INSTITUTE OF PHYSICS) 매뉴얼

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1. 출판사 소개
2. AIP Publishing 플랫폼 소개
3. AIP Publishing 콘텐츠 이용방법

## ❖ AIP (American Institute of Physics)



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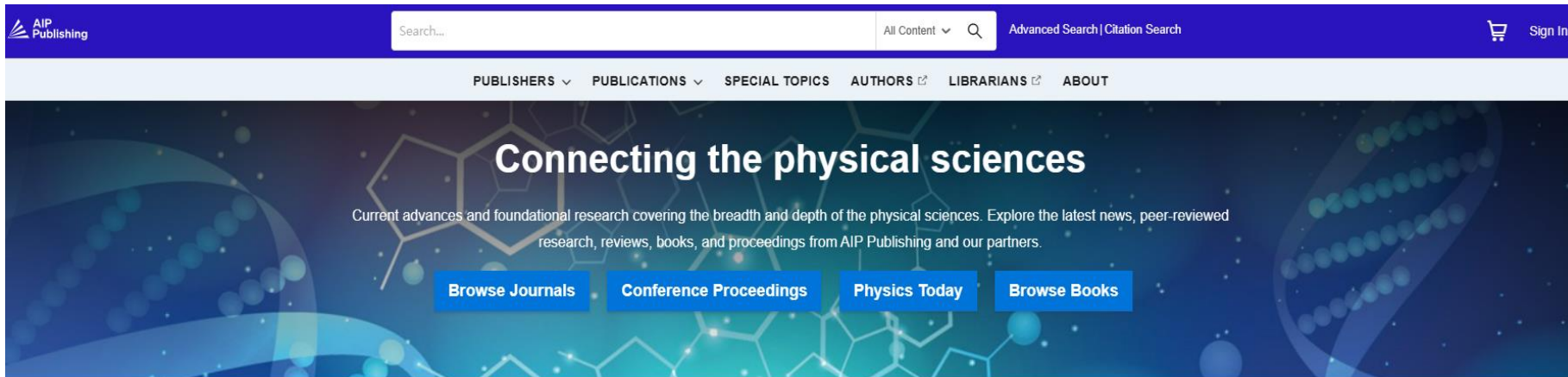


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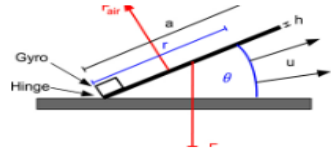
The screenshot shows the AIP Publishing website main page. At the top, there is a navigation bar with the AIP Publishing logo, a search bar, and links for 'All Content', 'Advanced Search | Citation Search', and 'Sign In'. Below the navigation bar is a main menu with categories: PUBLISHERS, PUBLICATIONS, SPECIAL TOPICS, AUTHORS, LIBRARIANS, and ABOUT. The main content area features a large banner with the text 'Current advances and foundational research covering the breadth and depth of the physical sciences. Explore the latest news, research, and partnerships.' Below the banner are four buttons: 'Browse Journals', 'Conference Proceedings', 'Physics Today', and 'Browse Books'. On the right side, there is an 'Advanced Search' section with various search options: 'Enter Term', 'Author Search', 'Find a specific article', and 'DOI Search'. The page is annotated with several callouts:

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- Citation Search : 인용 검색 가능** (Citation Search: Citation search available)

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- **Featured Articles** : 최신 특집 기사 리스트  
(어떠한 주제에 대해 특별히 집중하여 쓴 기사)

RESEARCH ARTICLE | JANUARY 01 2024

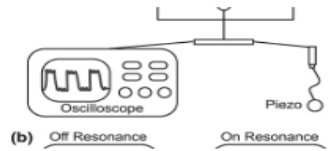


### How the air slows a closing book

J. Pantaleone

When two flat surfaces approach each other, the fluid in between is accelerated and ejected from the sides at large speeds. This situation occurs often in everyday life, such as when you step in a ...

RESEARCH ARTICLE | JANUARY 01 2024

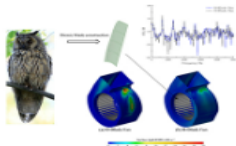


### Acoustic trapping in the undergraduate lab

Andrea Boskovic, Kate M. Jones et al.

Acoustic trapping is used in modern biophysics laboratories to study cell adhesion or aggregation, to sort particles, or to build model tissues. Here, we create an acoustic trapping setup in liquid ...

RESEARCH ARTICLE | DECEMBER 27 2023

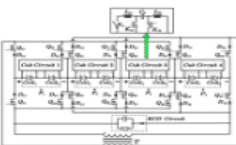


### Performance improvement and noise reduction analysis of multi-blade centrifugal fan imitating long-eared owl wing surface

Jian Lei (雷健), Qin Cui (崔琴) et al.

This research was inspired by the long-eared owl wing surface. The multi-blade centrifugal fan is designed to mimic the owl wing surface to improve performance and reduce noise.

RESEARCH ARTICLE | DECEMBER 27 2023



### Dual-layer active equalization control for series-connected batteries based on hybrid Cuk-flyback topology

Hao Qiang, Zhengwen Mo et al.

The inevitability of energy inconsistency in series-connected batteries leads to uneven aging and potential safety hazards. It is important to develop an effective equalization control strategy to address these issues.

AIP 페이스북, 트위터, 링크드인, 인스타그램 연동



- **Active Topics** : 오늘의 주제, 최근 활발히 논의되고 있는 주제와 관련된 콘텐츠 확인 가능

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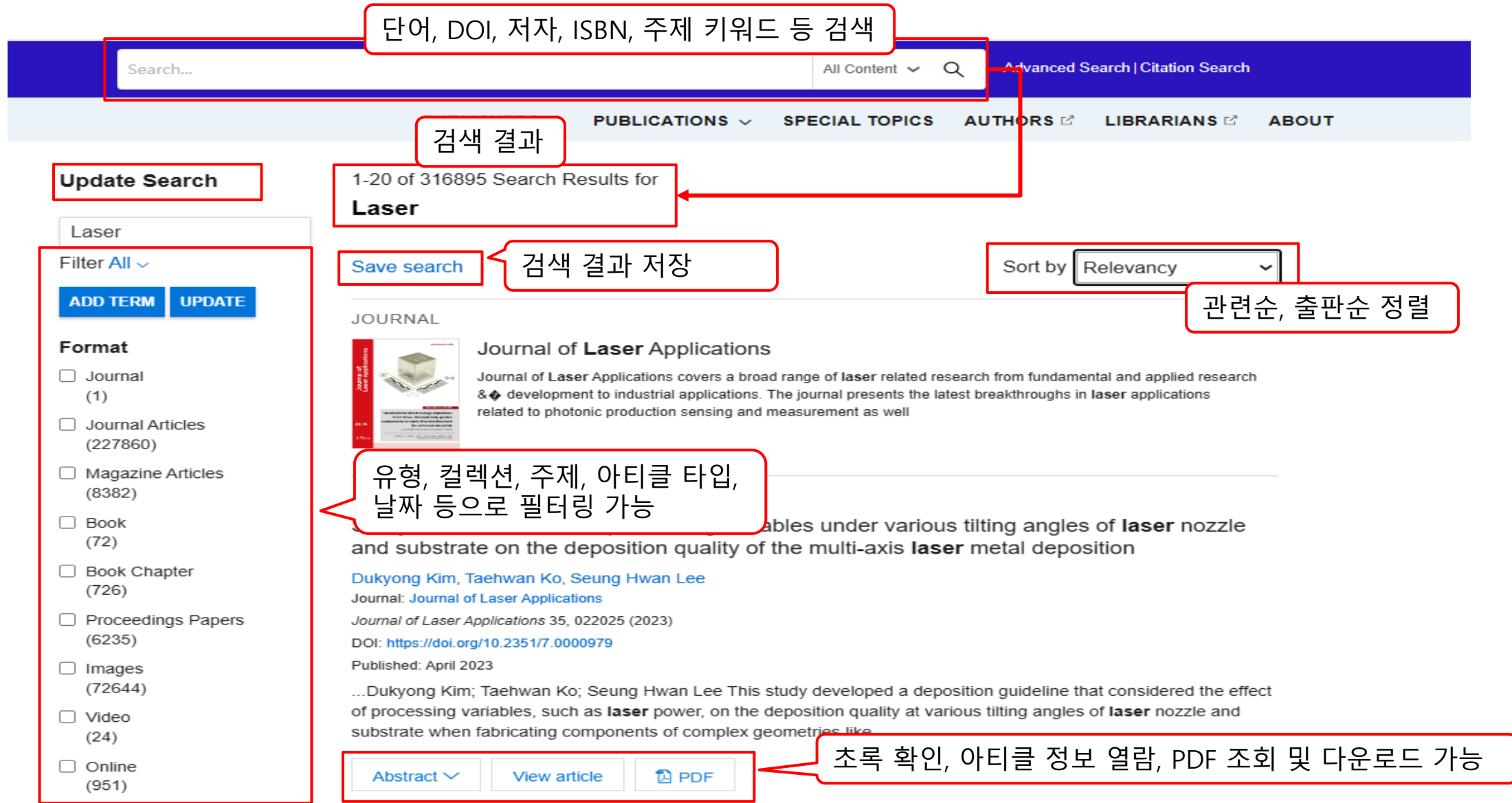
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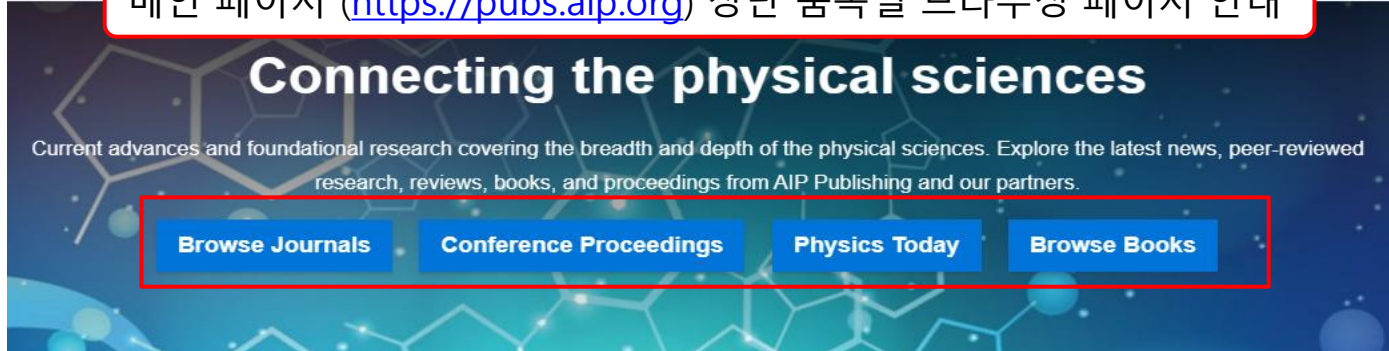
The screenshot shows the search results page for the term "Laser". The search bar at the top contains "Laser" and is annotated with "단어, DOI, 저자, ISBN, 주제 키워드 등 검색". Below the search bar, the navigation menu includes "PUBLICATIONS", "SPECIAL TOPICS", "AUTHORS", "LIBRARIANS", and "ABOUT". The search results are displayed as "1-20 of 316895 Search Results for Laser", annotated with "검색 결과".

On the left side, there is a "Filter" section with "Laser" entered in the search box. It includes "Filter All" and "ADD TERM" / "UPDATE" buttons. Under the "Format" section, various document types are listed with checkboxes and counts: Journal (1), Journal Articles (227860), Magazine Articles (8382), Book (72), Book Chapter (726), Proceedings Papers (6235), Images (72644), Video (24), and Online (951). This section is annotated with "유형, 컬렉션, 주제, 아티클 타입, 날짜 등으로 필터링 가능".

The main content area shows a search result for the "Journal of Laser Applications". The journal description is annotated with "관련순, 출판순 정렬". The result includes the journal title, a brief description, and a list of authors: "Dukyong Kim, Taehwan Ko, Seung Hwan Lee". Below the authors, the journal name, volume/issue information, DOI, and publication date are listed. The abstract text is partially visible. At the bottom of the result, there are buttons for "Abstract", "View article", and "PDF", which are annotated with "초록 확인, 아티클 정보 열람, PDF 조회 및 다운로드 가능".

Other annotations include "Save search" and "검색 결과 저장" near the top right, and "Sort by Relevancy" near the top right.

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**Featured Articles**

RESEARCH ARTICLE | DECEMBER 27 2023

**Dual-layer active equalization control for series-connected batteries based on hybrid Cuk-flyback topology**

Hao Qiang, Zhengwen Mo et al.

The inevitability of energy inconsistency among batteries within a battery pack poses operational challenges and potential safety hazards. It is imperative to swiftly harmonize the state of charge ...

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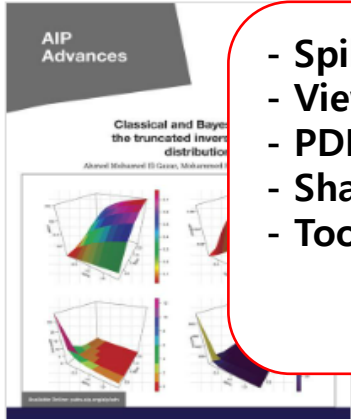
Fluorophore-gold nanoparticle FRET/plasmonic lasers with the streptavidin-biotin complex as the acceptor-donor linkage

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Volume 13, Issue 12  
December 2023

RESEARCH ARTICLE | DECEMBER 27 2023

## Dual-layer active equalization control for series-connected



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< Previous Article Next Article >

### Article Contents

- I. INTRODUCTION
- II. TOPOLOGY AND WORKING PRINCIPLE
  - A. Equalization Topology
  - B. Working Principle

The inevitability of energy inconsistency among batteries within a battery pack poses operational challenges and potential safety hazards. It is imperative to swiftly harmonize the state of charge across all batteries to mitigate these issues. Addressing this concern, a dual-layer hybrid equalization topology is introduced, leveraging the Cuk circuit and flyback transformer. The battery pack is segmented into modules, with the Cuk circuit employed for intra-module equalization. Subsequently, the flyback transformer facilitates inter-module equalization. A multimodal equalization control

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The screenshot displays the AIP Conference Proceedings website interface. At the top, there is a navigation bar with 'HOME', 'BROWSE', 'FOR AUTHORS', 'FOR ORGANIZERS', and 'ABOUT'. The main content area features a 'CURRENT ISSUE' section for 'Volume 2776, 12 April 2023'. Below this, there are several article listings, each with a title, authors, and a 'View article' or 'PDF' button. A sidebar on the right contains promotional banners for 'APL Machine Learning' and 'Energy', as well as an 'RSS' section for the current issue feed. The bottom of the page shows a 'Most Read' article titled 'Sleep disturbance among persons over 40 years old'.



## AIP Conference Proceedings

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Volume 3015, Issue 1  
27 December 2023

RESEARCH ARTICLE | DECEMBER 27 2023

### Preface: The Second International Conference on Emerging Technology Trends in Internet of Things and Computing (TIOTC 2022) FREE

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AIP Conf. Proc. 3015, 010001 (2023)  
<https://doi.org/10.1063/1.2022624>

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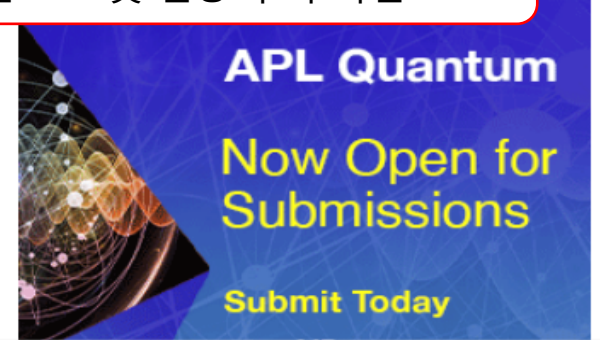
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THE SECOND INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGY TRENDS IN INTERNET OF THINGS AND COMPUTING  
11–12 December 2022  
Ramadi, Iraq

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of Ramadi, Iraq, during December 11–12, 2022. TIOTC 2022 is an international conference focused on the latest topics related to computer science, the Internet of Things (IoT), computer networks and security, data science, artificial intelligence (AI), and machine learning, Civil Engineering, Electrical Engineering.





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Published: March 2023  
DOI: 10.1063/97810735425013  
ISBN: 978-0-7354-2501-3  
ISBN: 978-0-7354-2500-0

PDF

BOOK

The International Handbook of Physics Education Research: Special Topics  
Series: AIP Books, Professional  
Published: March 2023  
DOI: 10.1063/97810735425014  
ISBN: 978-0-7354-2501-4  
ISBN: 978-0-7354-2500-4

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DOI: 10.1063/97810735425012

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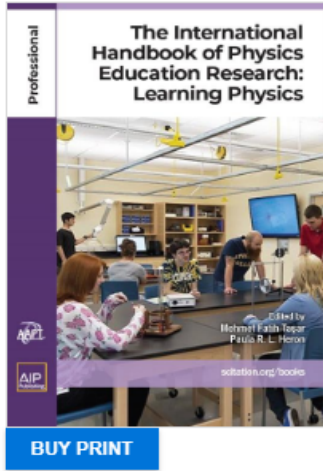
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AIPP BOOKS

### The International Handbook of Physics Education Research: Learning Physics

Edited by Mehmet Fatih Taşar; Paula R. L. Heron

AIP Publishing LLC  
DOI: <https://doi.org/10.1063/9780735425477>  
ISBN electronic: 978-0-7354-2547-7  
ISBN print: 978-0-7354-2544-6  
Publication date: 2023

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Front Matter **FREE**  
By Mehmet Fatih Taşar; Paula R. L. Heron  
DOI: [https://doi.org/10.1063/9780735425477\\_frontmatter](https://doi.org/10.1063/9780735425477_frontmatter)

- **Front Matter** : 책의 전문으로 본문을 제외한 속표지, 머리말, 차례 등으로 구성  
Abstract, 목차 확인 가능하며 PDF로 다운로드 가능

Abstract View Chapter PDF

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**감사합니다**

**신원데이터넷**

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