

SPIE Digital Library

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*“The largest collection of
optics and photonics content in the world”*

⊙ 비영리기관인 SPIE는 1955년 설립되어 현재 185개국 이상, 255,000여명의 회원 보유, 연간 25개의 major conference를 진행 또는 지원

⊙ 주제분야

- Astronomy
- Biomedical Optics and Medical Imaging
- Communications and Information Technology
- Defense and Security
- Electronic Imaging and Signal Processing
- Energy
- Lasers
- Light Sources and Illumination
- Lithography and Microelectronics
- Metrology
- Nanotechnology
- Optics
- Remote Sensing
- Sensors

⊙ 제공 Contents

- URL : <https://www.spiedigitallibrary.org>
- 1962년 이후 자료 제공
- Journal : 15종 (6종 open access)
- eBook : 약 500권
- Conference Proceedings :
350개 이상의 Proceedings Volume
- 약 500,000 건 이상의 technical papers와 Presentations 제공
- 매년 약 18,000건의 technical papers와 약 25건의 eBooks 추가

2. SPIE Digital Library – 메인 화면

SPIE DL URL: <https://www.spiedigitallibrary.org/>

The screenshot shows the SPIE Digital Library homepage. At the top, there is a navigation bar with logos for SPIE, SPIE Digital Library, SPIE Career Center, and optics.org. A search bar is located in the top right, with a yellow box labeled "Advanced Search" above it and a red box around the search input field. Below the search bar, the main heading reads "Search the world's largest collection of optics and photonics applied research." Below this heading is a large search input field with a red border, containing the text "Enter Search Term". To the right of this field is a yellow "SEARCH >" button and a red box labeled "기본검색". Below the search field is a yellow box labeled "빠른검색". A yellow box labeled "Advanced Search" is positioned above a dropdown arrow. Below the arrow is a yellow box labeled "최근 업로드 된 Proceedings". Underneath, there are three featured items: "SPIE. ASTRONOMICAL TELESCOPES + INSTRUMENTATION" with a "GO >" button, "SPIE. FUTURE SENSING TECHNOLOGIES" with a "GO >" button, and "SPIE. PHOTONICS". To the right of these items are two video thumbnails. The first is titled "THE EVENT HORIZON TELESCOPE" and features a play button. The second is a scientific diagram showing a star with a planet and a graph of intensity, with the equation $(R_p/R_s)^2$ visible.

2. SPIE Digital Library – “Papers”

SPIE DL 메인 화면 > “Papers”

SPIE DIGITAL LIBRARY CONFERENCE PROCEEDINGS **PAPERS** PRESENTATIONS JOURNALS EBOOKS

ADVANCED SEARCH > Search Digital Library

Proceedings

SPIE conferences bring together engineers and scientists to present their latest research and to network with peers. Each year SPIE conferences result in approximately 350 proceedings volumes comprising 16,000+ papers and presentation recordings reporting on photonics-driven advancements in areas such as biomedicine, astronomy, defense and security, renewable energy, and more.

[Recent SPIE Conferences](#) | [Browse by Year](#) | [Browse by Volume Number](#)

Browse by:

- ▶ Recent SPIE Conferences
- ▶ Year
- ▶ Volume Number

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SPIE DL 최신 Proceedings **SPIE DL Presentations**

NEW PROCEEDINGS PRESENTATIONS

2. SPIE Digital Library – “Papers”

SPIE DL 메인 화면 > “Papers” > “Recent SPIE Conferences”

The screenshot shows the SPIE Digital Library website interface. At the top, there is a navigation bar with the SPIE logo, 'DIGITAL LIBRARY', 'CAREER CENTER', and 'optics.org'. On the right side of the navigation bar are links for 'Sign In', 'View Cart', and 'Help'. Below the navigation bar, there is a search bar with the text 'Search Digital Library' and a magnifying glass icon. The main content area is titled 'Browse Proceedings' and features a yellow banner with the text '최신 SPIE Conference 명칭별 Browse' (Browse SPIE Conferences by Name). Below the banner, there are three tabs: 'RECENT SPIE CONFERENCES' (highlighted in yellow), 'BY YEAR', and 'BY VOLUME NUMBER'. The 'RECENT SPIE CONFERENCES' tab displays a grid of conference cards. Each card includes the conference name, dates, and location. The cards shown are: SPIE.PHOTONEX (24-26 October 2023, Glasgow, United Kingdom), SPIE.OPTIFAB (16-19 October 2023, Rochester, New York, United States), SPIE. PHOTONICS ASIA (14-16 October 2023, Beijing, China), SPIE. PHOTOMASK TECHNOLOGY + EUV LITHOGRAPHY (1-5 October 2023, Monterey, California, United States), and SPIE. LASER DAMAGE (17-20 September 2023, Dublin/Livermore, California, United States). Below these cards, there are more conference cards partially visible, including SPIE. SENSORS+ IMAGING, SPIE. OPTICS+ PHOTONICS, SPIE. OPTICAL METROLOGY, SPIE. DIGITAL OPTICAL TECHNOLOGIES, and EUROPEAN CONFERENCES ON BIOMEDICAL OPTICS SPIE. | OSA.

2. SPIE Digital Library – “Papers”

SPIE DL 메인 화면 > “Papers” > “By Year”

The screenshot shows the SPIE Digital Library website interface. At the top, there is a navigation bar with logos for SPIE, SPIE Digital Library, SPIE Career Center, and optics.org. On the right side of the navigation bar are links for 'Sign In', 'View Cart', and 'Help'. Below the navigation bar, there is a search bar with the text 'Search Digital Library' and a magnifying glass icon. The main content area is titled 'Browse Proceedings' and includes a sub-header 'CONFERANCE PROCEEDINGS' with tabs for 'PAPERS', 'PRESENTATIONS', 'JOURNALS', and 'EBOOKS'. A yellow box highlights the '연도별 Browse' (Browse by Year) option. Below this, there are three main categories: 'RECENT SPIE CONFERENCES', 'BY YEAR', and 'BY VOLUME NUMBER'. The 'BY YEAR' category is selected and highlighted. Underneath, there are several year range buttons: '2020-NOW', '2010-2019', '2000-2009', '1990-1999', '1980-1989', '1970-1979', and '1963-1969'. A list of recent years with volume counts is shown below the buttons: '+ 2023 (651 Volumes)', '+ 2022 (592 Volumes)', '+ 2021 (382 Volumes)', and '+ 2020 (357 Volumes)'. A breadcrumb trail at the top right reads 'Home > BrowseVolume'.

2. SPIE Digital Library – “Papers”

SPIE DL 메인 화면 > “Papers” > “By Volume Number”

The screenshot shows the SPIE Digital Library interface. At the top, there are logos for SPIE, SPIE Digital Library, SPIE Career Center, and optics.org. Navigation links include Sign In, View Cart, and Help. A search bar is present with the text 'Search Digital Library'. Below the search bar, there are tabs for 'PAPERS', 'PRESENTATIONS', 'JOURNALS', and 'EBOOKS'. The main heading is 'Browse Proceedings' with a subtext: 'Browse our growing collection of more than 520,000 conference proceedings papers.' There are three main navigation buttons: 'RECENT SPIE CONFERENCES', 'BY YEAR', and 'BY VOLUME NUMBER'. The 'BY VOLUME NUMBER' button is highlighted. Below it, a grid of volume number ranges is shown: 12000-NOW, 11000-11999, 10000-10999, 9000-9999, 8000-8999, 7000-7999, 6000-6999, 5000-5999, 4000-4999, 3000-3999, 2000-2999, 1000-1999, and 1-999. A list of volume numbers with expandable options (+) is shown below: 12900-12999, 12800-12899, 12700-12799, 12600-12699, and 12500-12599. A yellow box highlights the 'BY VOLUME NUMBER' button with the text 'Volume별 Browse'. Another yellow box highlights the volume number selection buttons with the text 'Volume No.'. A third yellow box highlights the expandable volume number list with the text '상세 Volume No. 선택'.

2. SPIE Digital Library – Conference Presentations

SPIE DL 메인 화면 > “Presentations”

SPIE. DIGITAL LIBRARY CONFERENCE PROCEEDINGS **PRESENTATIONS** JOURNALS EBOOKS

ADVANCED SEARCH > Search Digital Library

Conference Presentations

Conference Presentations are recordings of oral presentations given at SPIE conferences and published as part of the proceedings. They include the speaker's narration with video of the slides and animations. Most include full-text papers. Interactive, searchable transcripts and closed captioning are now available for most presentations.

Search our growing collection of more than 36,000 conference presentations, including many plenaries and keynotes.

키워드, 연도, 컨퍼런스 명으로 refine

REFINE BY

SEARCH WITHIN PRESENTATIONS

1962년 이후의 36,000여 건 이상의 Keynote, 컨퍼런스 프레젠테이션 영상 정보 제공

Conference Presentations

| Thumbnail | Duration | Date | Title |
|-----------|----------|------------------|-------------------------|
| | 7:19 | 21 December 2021 | From omelet lithography |
| | 26:29 | 21 December 2021 | Progress in EUV resist |
| | 18:30 | 15 December 2021 | Autonomously self- |
| | 25:45 | 15 December 2021 | 10 Years of development |

SPIE DL 메인 화면 > "Journals"

SPIE. DIGITAL LIBRARY CONFERENCE PROCEEDINGS PAPERS PRESENTATIONS **JOURNALS** EBOOKS

ADVANCED SEARCH > Search Digital Library

Journals

SPIE journals are dedicated to advancing the science and application of light and light-based technologies. All published journal articles have undergone rigorous peer review as well as professional copyediting and typesetting. Papers can be read online or downloaded as a PDF. All SPIE journals feature rapid article-at-a-time publishing. [Open access](#) articles are clearly marked by the open access symbol. For details about publication licenses and the associated rights to share published articles, see the [SPIE policies on article sharing](#).

Advancing the science and application of light and light-based technologies.

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저널 목록 및 소개

Advanced Photonics
Advanced Photonics, co-published by SPIE and Chinese Laser Press, is a highly selective, open access, international journal publishing innovative research in all areas of optics and photonics, including fundamental and applied research.
[Current Issue](#) | [All Issues](#) | [Issues In Progress](#)

Journal of Applied Remote Sensing
The *Journal of Applied Remote Sensing (JARS)* is an online journal that optimizes the communication of concepts, information, and progress within the remote sensing community to improve the societal benefit for monitoring and management of natural disasters, weather forecasting, agricultural and urban land-use

2. SPIE Digital Library - Journals

SPIE DL 메인 화면 > "Journals" > 저널 보기 (예: Advanced Photonics 택)

해당 저널 메인 페이지

저널 소개

Advanced Photonics

Co-Editors-in-Chief:
[Xiao-Cong \(Larry\) Yuan](#), Shenzhen University and Zhejiang Lab, China
[Anatoly Zayats](#), King's College London, United Kingdom

Copublished by SPIE and Chinese Laser Press, *Advanced Photonics* is a highly selective, Gold Open Access, international journal publishing innovative research in all areas of optics and photonics, including fundamental and applied research.

On the cover: Nonlocal Metasurfaces all-optical Modulation ("Giant photoinduced reflectivity modulation of nonlocal resonances in silicon metasurfaces" by Andrea Tognazzi et al., in *Volume 5 Issue 6*).

Want to see your paper's artwork on the *Advanced Photonics* cover? [Learn how.](#)

최신, 전체, 진행 중인 이슈

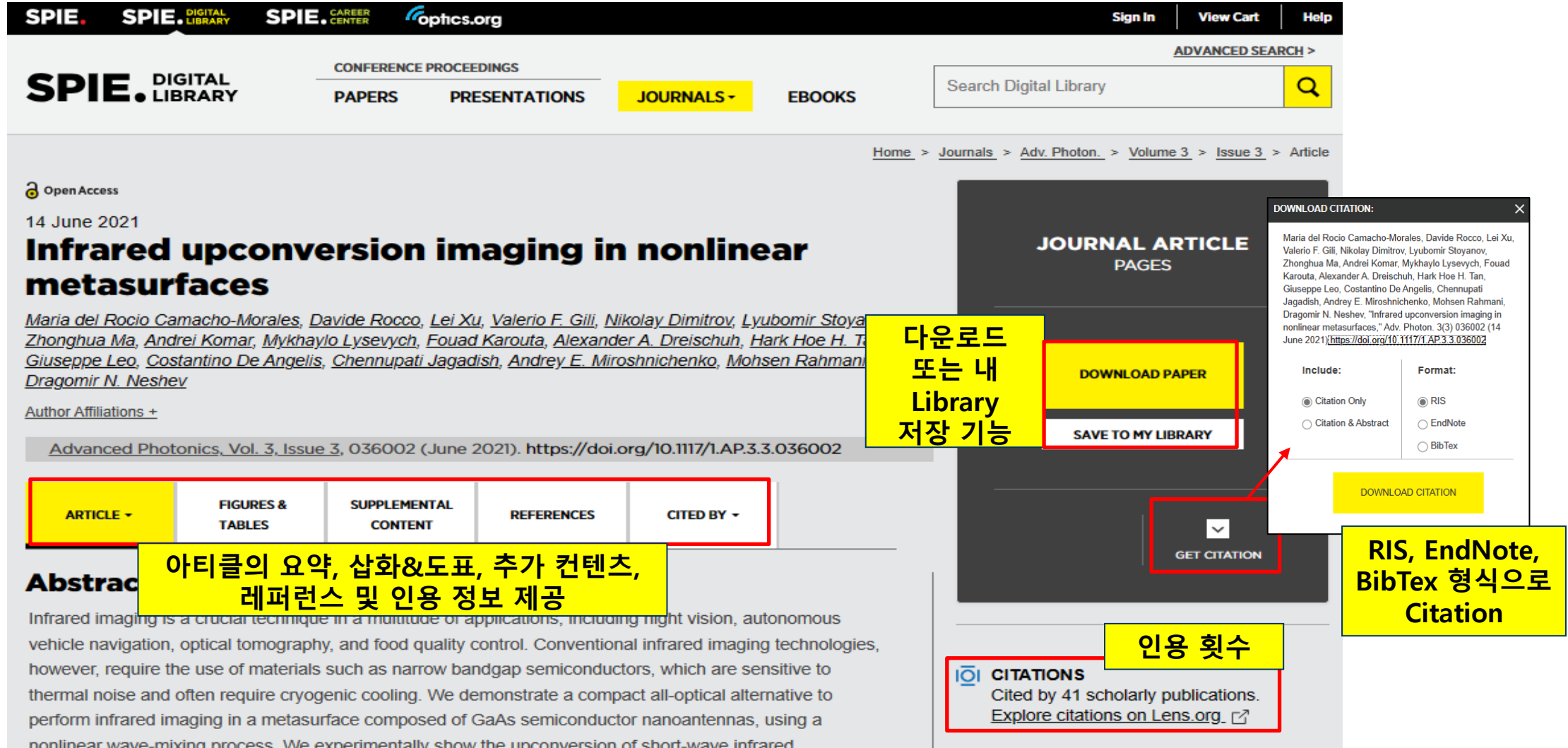
Current Issue | All Issues

주요 콘텐츠 | **상세 정보** | **편집위원회 정보** | **논문 제출** | **저자 가이드**

FEATURED CONTENT | SCOPE & DETAILS | EDITORIAL BOARD | CALL FOR PAPERS | AUTHOR GUIDELINES

2. SPIE Digital Library - Journals

SPIE DL 메인 화면 > "Journals" > 원문 보기



The screenshot shows the SPIE Digital Library interface for a journal article. The article title is "Infrared upconversion imaging in nonlinear metasurfaces" by Maria del Rocio Camacho-Morales et al. The page includes navigation tabs for "ARTICLE", "FIGURES & TABLES", "SUPPLEMENTAL CONTENT", "REFERENCES", and "CITED BY". A "DOWNLOAD PAPER" button and a "SAVE TO MY LIBRARY" button are visible. A "GET CITATION" button is also present. A "CITATIONS" section shows the article is cited by 41 scholarly publications. A "DOWNLOAD CITATION" dialog box is open, showing options for "Include" (Citation Only, Citation & Abstract) and "Format" (RIS, EndNote, BibTex). Annotations in yellow boxes highlight these features: "다운로드 또는 내 Library 저장 기능" (Download or save to my library feature), "아티클의 요약, 삽화&도표, 추가 콘텐츠, 레퍼런스 및 인용 정보 제공" (Provide article summary, figures & tables, additional content, references, and citation information), "인용 횟수" (Citation count), and "RIS, EndNote, BibTex 형식으로 Citation" (Citation in RIS, EndNote, BibTex format).

2. SPIE Digital Library - Quick Search

“Quick Search” > 예: Photonics 검색

The screenshot shows the SPIE Digital Library website. At the top, there are navigation links for SPIE, SPIE Digital Library, and SPIE Career Center. On the right, there are links for Sign In, View Cart, and Help. Below the navigation, there are tabs for CONFERENCE PROCEEDINGS, PAPERS, PRESENTATIONS, JOURNALS, and EBOOKS. A search bar is located in the top right, containing the text 'photonics'. A dropdown menu is open below the search bar, showing suggestions: 'photonics' and 'photonics systems'. A yellow callout box with the text '관련 검색어' (Related search terms) points to the dropdown menu. Below the search bar, there is a large heading: 'Search the world's optics and photonics applied research.' Below this heading, there is a search bar with the placeholder text 'Enter Search Term' and a yellow 'SEARCH >' button. A yellow callout box with the text '간단한 Keyword를 이용한 검색 방법' (Simple search method using keywords) and '검색어 "Photonics"를 입력 후 Search 버튼 클릭' (Click the Search button after entering the search term "Photonics") points to the search bar and button. At the bottom of the search bar, there is a link for 'ADVANCED SEARCH >'. A yellow callout box with the text 'Basic Search도 Quick Search와 동일한 방법으로 이용 가능' (Basic Search can also be used in the same way as Quick Search) points to the search bar area.

간단한 Keyword를 이용한 검색 방법
검색어 "Photonics"를 입력 후 Search 버튼 클릭

Basic Search도 Quick Search와
동일한 방법으로 이용 가능

2. SPIE Digital Library - Quick Search

“Quick Search” > 예: Photonics 결과 화면

The screenshot shows the SPIE Digital Library search results for the keyword 'photonics'. The page features a navigation bar with 'SPIE DIGITAL LIBRARY', 'CONFERENCES', 'PAPERS', 'PRESENTATIONS', 'JOURNALS', and 'EBOOKS'. A search bar at the top right contains the text 'Search Digital Library' and a magnifying glass icon. Below the search bar, the results are displayed in a list format. The first result is a 'Proceedings Paper' from 2019, titled 'Optical Manipulation and Structured Materials Conference'. The second result is an 'eBook Chapter' from 2012, titled 'Chapter 1: Dictionary of Biomedical Optics and Biophotonics'. The third result is a 'Paper' from 2023, titled 'Sensing Conference 2022: BISC2201 (2023)'. On the left side, there is a 'REFINE BY' sidebar with sections for 'SEARCH WITHIN RESULTS', 'PUBLICATION' (with checkboxes for Conference Proceedings, Paper, Presentation, Poster, Journal Article, and eBook), and 'YEAR' (with a range selector from 1962 to 2024). On the right side, there are buttons for 'DOWNLOAD PAPER', 'SAVE TO MY LIBRARY', and 'DOWNLOAD PDF' for each result. A yellow callout box highlights the search results count: '174,933 results found for: photonics' and '174,933개의 결과 도출'. Another yellow callout box highlights the 'DOWNLOAD PAPER' and 'SAVE TO MY LIBRARY' buttons for the first result, with the text '다운로드 또는 내 Library 저장 기능'. A third yellow callout box highlights the 'REFINE BY' sidebar, with the text 'Refind 기능: Publication, 출판연도, 키워드, OA 여부, 저자, 저자 소속기관, 컨퍼런스 명으로 선택 가능'.

174,933 results found for: photonics

174,933개의 결과 도출

REFINE BY

SEARCH WITHIN RESULTS

PUBLICATION

YEAR

Sort By Relevance Display 25 per page 174,933 results

Proceedings Paper | 21 April 2019 Open Access Paper
Optical Manipulation and Structured Materials Conference
Proceedings Volume 11141, Optical Manipulation and Structured Materials Conference: 1114101 (2019)
<https://doi.org/10.1117/12.2535563>
[Read Abstract +](#)

DOWNLOAD PAPER
SAVE TO MY LIBRARY

eBook Chapter | 6 April 2012
Chapter 1: Dictionary of Biomedical Optics and Biophotonics
Valery Tuchin
Dictionary of Biomedical Optics and Biophotonics, Vol. PM217, (April 2012)
<https://doi.org/10.1117/PM217.ch1>
[Read Excerpt +](#)

DOWNLOAD PDF
SAVE TO MY LIBRARY

Access Paper
Conference: Abstract Book
Sensing Conference 2022: BISC2201 (2023)

DOWNLOAD PAPER
SAVE TO MY LIBRARY

다운로드 또는 내 Library 저장 기능

Refind 기능:
Publication, 출판연도, 키워드,
OA 여부, 저자, 저자 소속기관,
컨퍼런스 명으로 선택 가능

2. SPIE Digital Library - Advanced Search

“Advanced Search”

The screenshot shows the SPIE Digital Library Advanced Search page. The interface includes a top navigation bar with 'SPIE. DIGITAL LIBRARY' and 'SPIE. CAREER CENTER' logos, and a 'Help' link. The main search area is titled 'ADVANCED SEARCH' and contains several sections:

- Keywords/Phrases:** A section with three input fields for keywords, each with a dropdown menu for search fields (currently set to 'All Fields') and a 'Remove' button. A yellow box highlights the text '키워드 / 타이틀 / 저자 / DOI / ISSN / 기관 등 검색' (Search by keyword / title / author / DOI / ISSN / institution, etc.).
- Search In:** A section with a dropdown menu for document types, currently set to '자료종류 선택' (Select document type). Below this are checkboxes for 'Proceedings', 'Journals +', and 'eBooks +', each with a 'Volume' dropdown set to 'All'. There are also 'Issue' and 'Page' dropdowns set to 'All'.
- Publication Years:** A section with a 'Range' selector (showing years 1962 to 2024) and a 'Single Year' selector (showing 'YYYY'). A yellow box highlights the text '출판연도' (Publication year).

At the bottom of the search area, there is a 'Clear Form' link and a large yellow 'SEARCH' button. On the right side, there is a vertical sidebar with a search icon and a dropdown menu labeled 'ADVANCED SEARCH >'. A yellow box highlights the text 'SEARCH >' in the sidebar.

**SPIE Full Text 를 과다하게 다운로드 하면
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다시 출판사로 보내야 합니다.**

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감사합니다

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