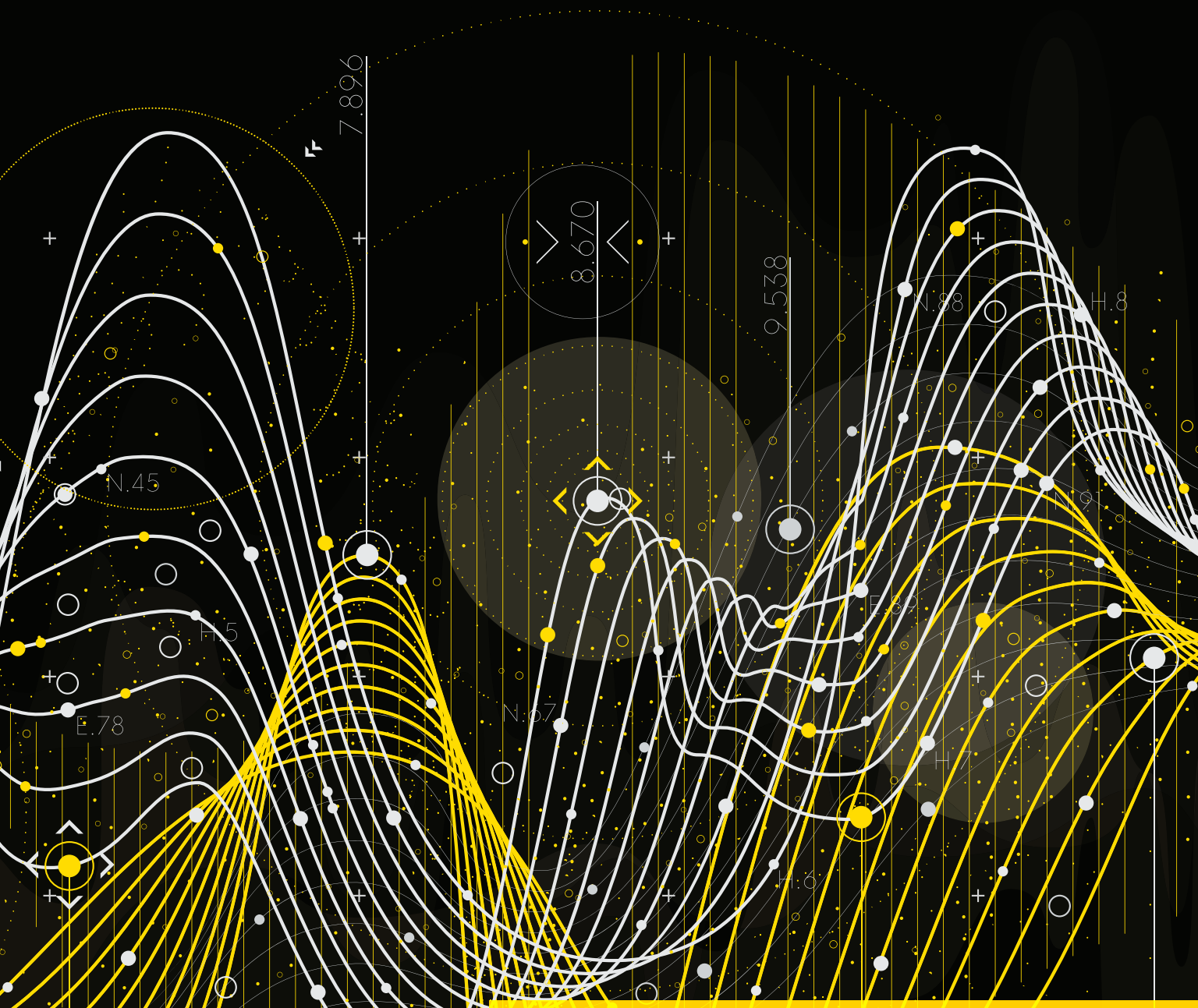
# SPIE. DIGITAL LIBRARY




# USER GUIDE

SPIEDigtialLibrary.org

# SPIE Digital Library is the world's largest collection of optics and photonics applied research.

## Proceedings

SPIE is the largest organizer of conferences, workshops, and symposia in the field of optics and photonics with over 300 conferences occurring annually. SPIE Proceedings are the rich outcome of these events, providing you with a snapshot of what is happening—right now.

More than 495,000 papers and presentations from 1963 to the present:

- Aerospace & Defense Technologies
- Biomedical Photonics & Medical Imaging
- Communications & Networks
- Imaging & Display Technologies
- Lasers & Applications
- Nano/Micro Electronics & Materials
- Optical Science & Engineering
- Physics & Astronomy
- Remote & Environmental Sensing
- Renewable Energy & Efficiency

## Journals

37,000+ peer-reviewed journal articles. Coverage back to Volume 1:

*Advanced Photonics*
*Journal of Applied Remote Sensing*
*Journal of Astronomical Telescopes, Instruments, and Systems*
*Journal of Biomedical Optics*
*Journal of Electronic Imaging*
*Journal of Medical Imaging*
*Journal of Micro/Nanopatterning, Materials, and Metrology*
*Journal of Optical Microsystems*
*Journal of Nanophotonics*
*Journal of Photonics for Energy*
*Neurophotonics*
*Optical Engineering*

## eBooks

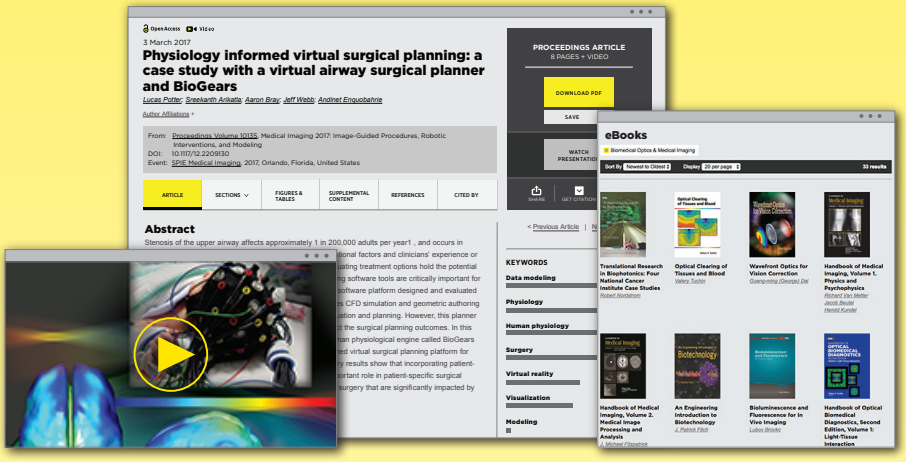
430+ SPIE Press eBook titles, featuring:

**Field Guides**: Concise quick-reference guides to key information that students, practicing engineers, and scientists need in the lab and in the field.

**Spotlights**: Concise, topically focused, peer-reviewed mini-tutorials covering a technology application or technique.

**Press Monographs**: Authoritative reference works, texts, and handbooks.

**Tutorial Texts**: Tutorials covering fundamental and emerging topics at introductory and intermediate levels.




# Site Features

**Full-Text HTML:** All articles, proceedings papers dating back to 2014, and SPIE Field Guide and Spotlight eBooks are displayed in HTML format in addition to the downloadable PDF format.

**Presentation Recordings:** Presentation recordings from SPIE conferences are featured on the Conference Presentations page as well as embedded on proceedings article pages and include the following features: Presentation + Paper

- Published soon after the conference, with speaker permission
- Shows video of the slides and animations synchronized with speaker audio
- Interactive, searchable transcripts translatable into more than 100 languages
- Access is included for Digital Library subscribing institutions
- Recordings may be purchased individually or viewed with personal subscriptions
- Closed Captioned to aid usability

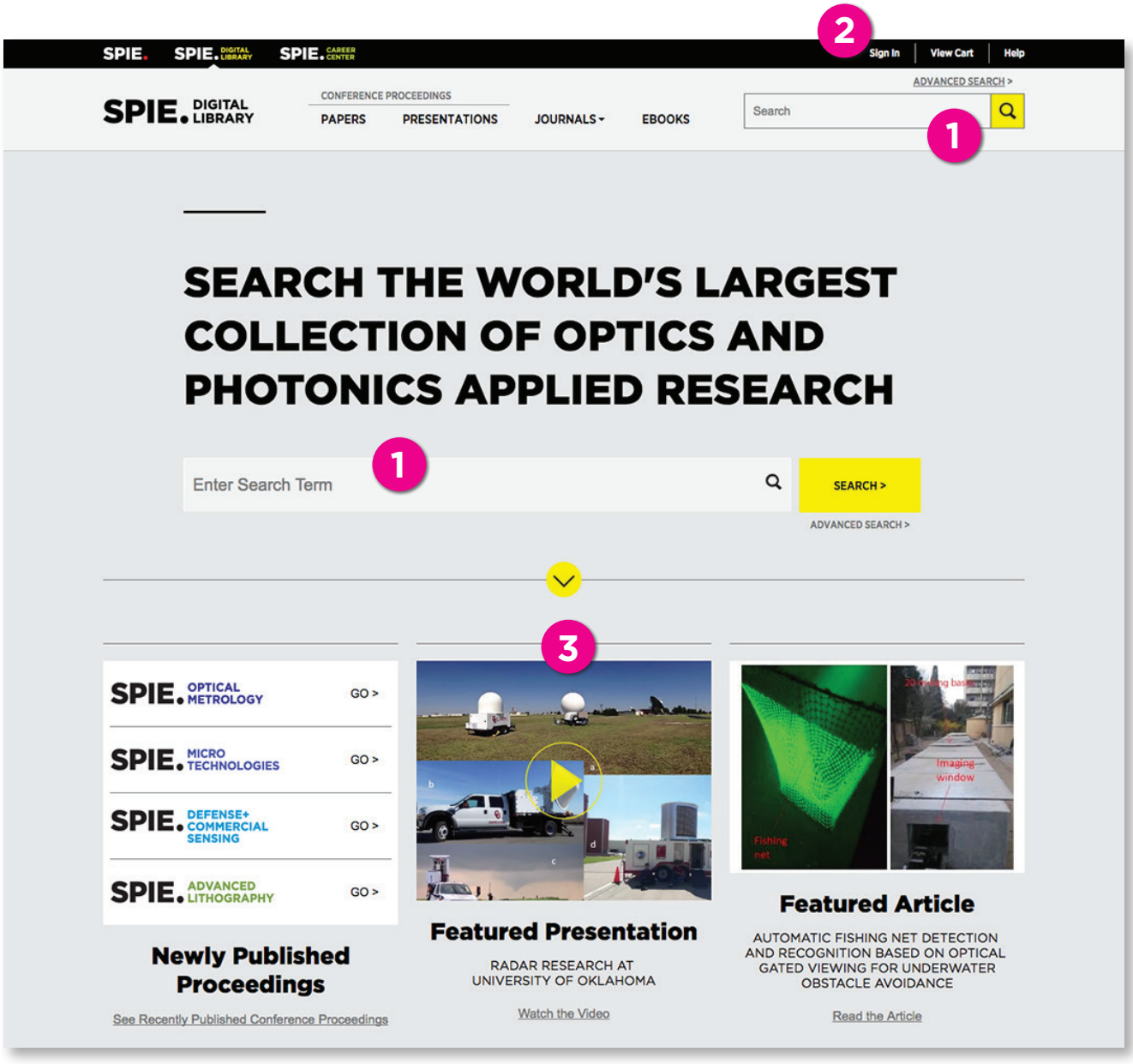
**Personalization Tools:** Creating a free personal account allows you to save citations to a personal library and sign up for different types of email alerts.

**Off-Site Access for Institutional Subscribers:** After creating and signing into a free personal account while on your organization's network, users at subscribing organizations will be affiliated with the organization's subscription and will have full off-site access.

**Built In-House:** The SPIE Digital Library was built in-house by internal staff, allowing for greater flexibility, responsiveness, and a site that will better house SPIE's unique content and better serve our community. Please let us know of any features you would like to see in the future.

# Home Page

1. **Search** – Perform a basic search using the new SPIE Optics & Photonics taxonomy coupled with semantic technology to return relevant results.
2. **Personal Account Sign-in** – *See page 5 for more information.*
3. **Featured Content** – See the most recently published papers from SPIE Conferences or Journals.

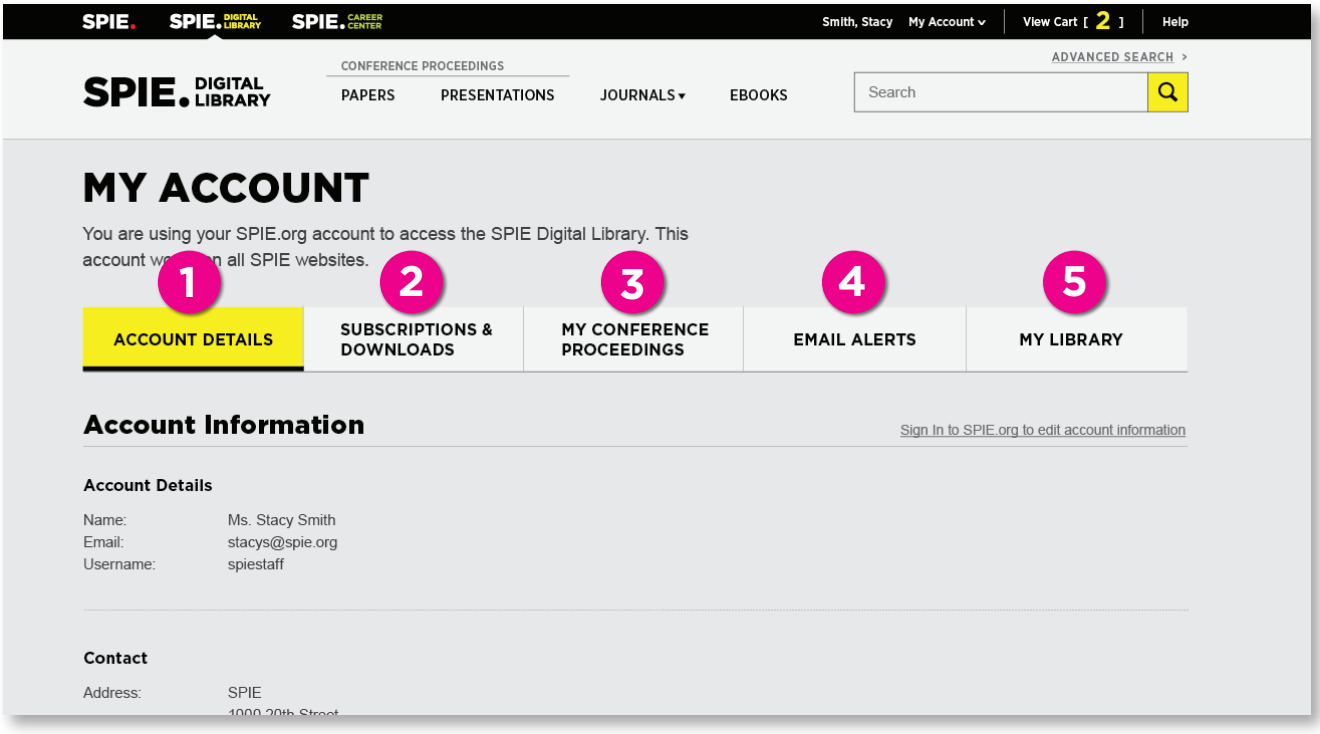


# My Account

Creating a free personal account allows you to manage your preferences:

1. **Account Details** – Edit your contact information, update your username and password, and manage your communication preferences.
2. **Subscriptions & Downloads** – See a list of current and past SPIE Digital Library subscriptions and download token usage.
3. **My Conference Proceedings** – Links to conference proceedings volumes to which you have access from SPIE conference attendance.
4. **Email Alerts** – Sign up for email alerts when new journal articles, proceedings volumes, and eBooks are published.
5. **My Library** – Save citations, add notes, create folders.

**Affiliated Access for Institutional Subscribers:** If your institution subscribes to the SPIE Digital Library, your personal account allows you to log in and gain access to your institution's subscription even when you are away from work or school (for example, from your home computer or mobile phone). To afflilate your personal account with your institution's subscription, simply sign in to your personal account from a computer within your institution's IP range (for example, from a desktop computer at work or school). This will then automatically affiliate your personal account with your institution's subscription.

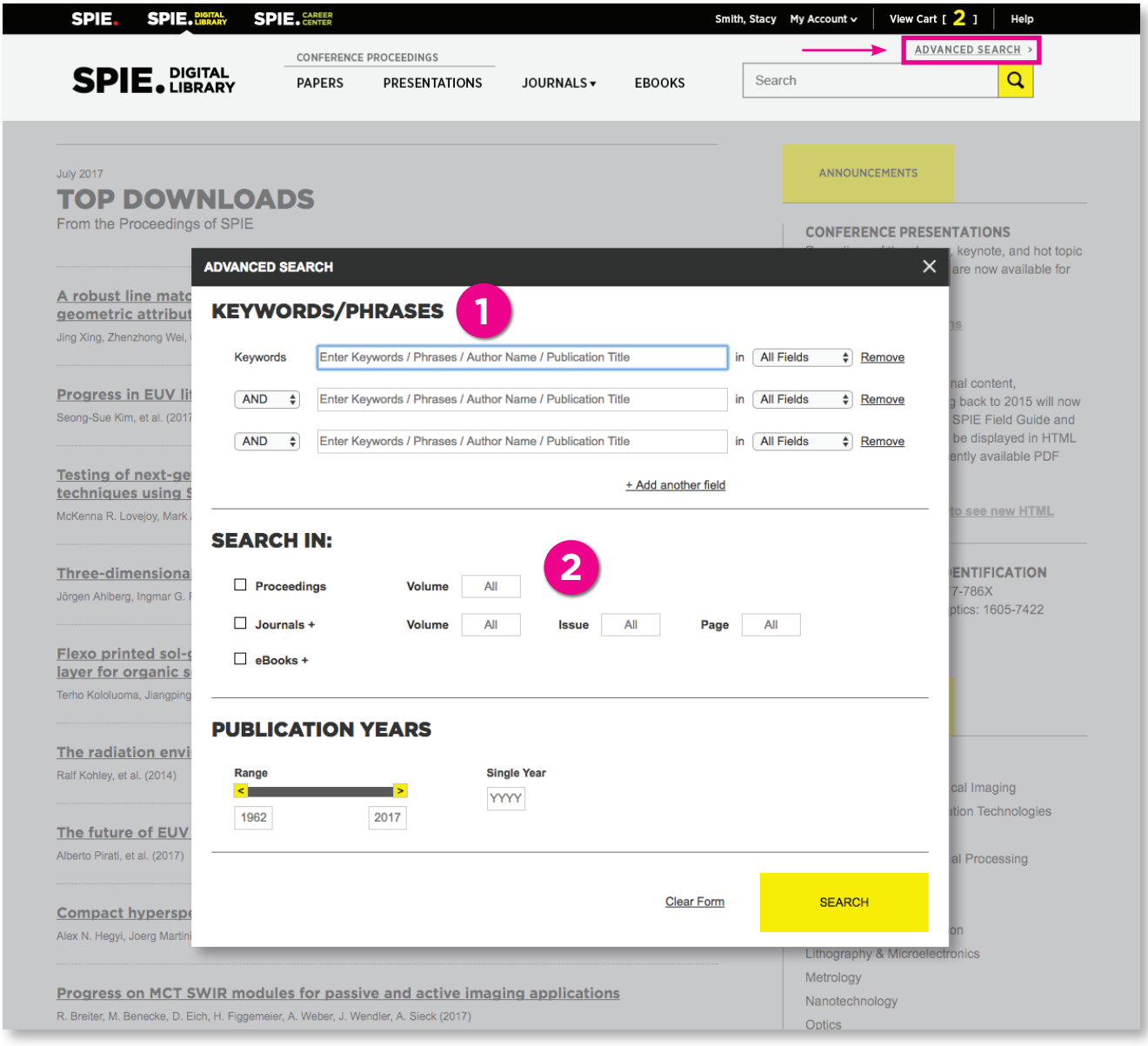


# Advanced Search

Access advanced search by clicking the “Advanced Search” link above the search box on any page.

1. Search a combination of keywords, phrases, author names, and publication titles in all fields or limit your search to specific fields.

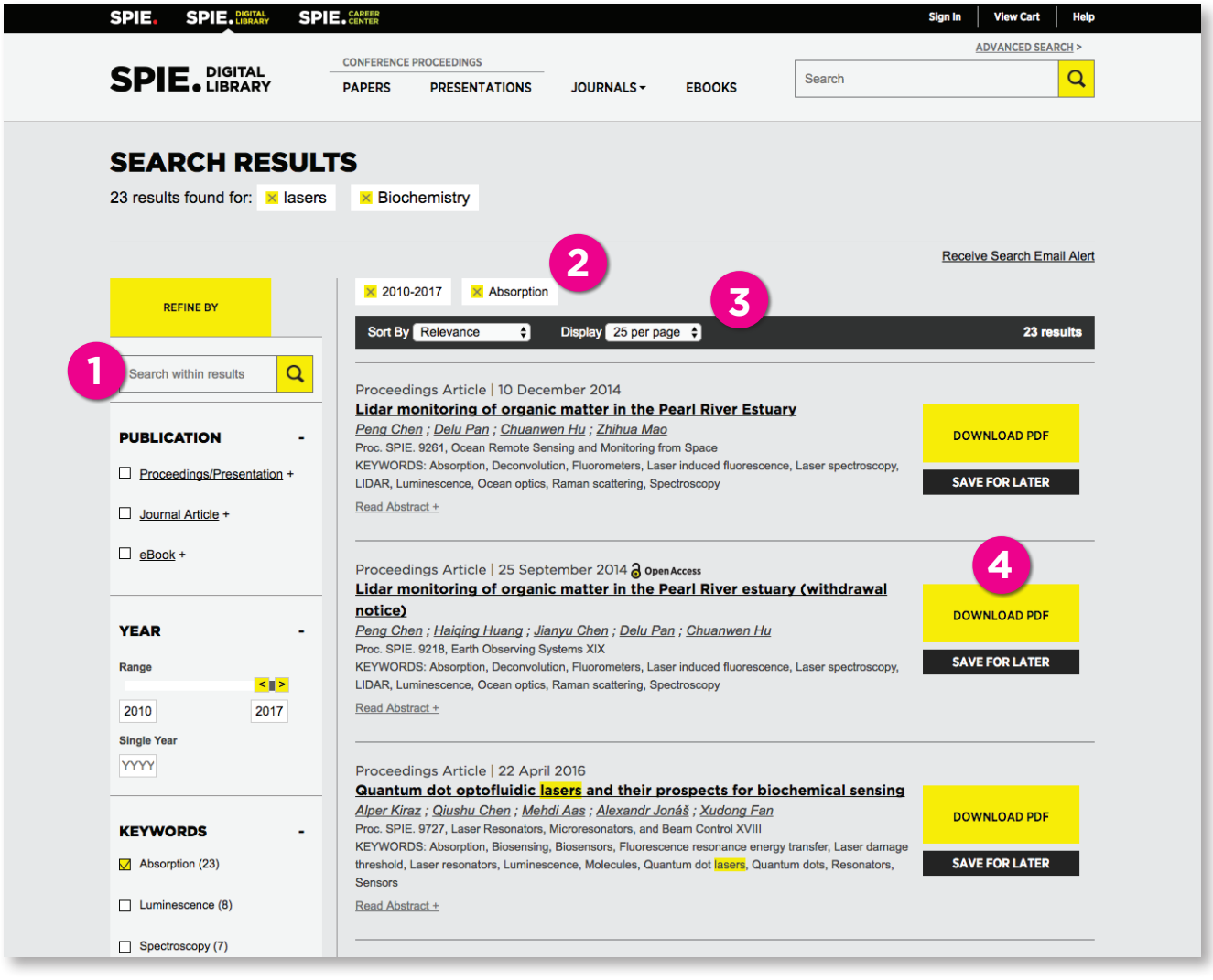
2. Search results can be refined by publication and/or publication date.



# Search Results

The search results page includes powerful new filters to fine-tune the results.

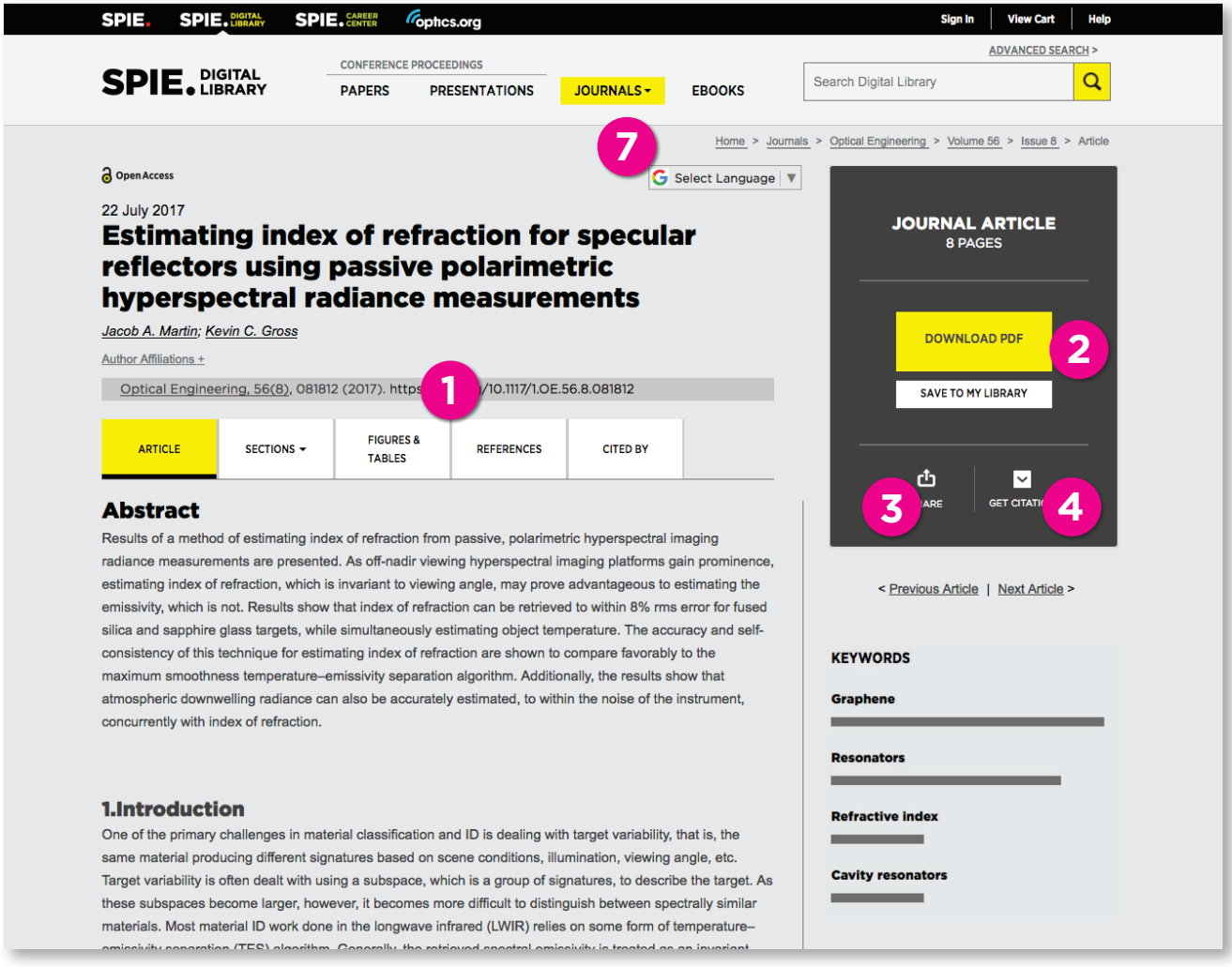
1. Search within results and refine your search results.
2. Add and remove filters, such as publication type, year, and keywords.
3. Sort and display preferences.
4. Download PDF or Save to My Library directly from the results page.



# Article Pages

Proceedings and Journal Article pages include:

1. New tabs to view the paper in its entirety, jump to a specific section, view only the figures and tables, see supplemental content, find citing articles, or view the references.
2. Download a PDF or save the paper for later by adding to My Library, accessed through your personal account.
3. Share the paper on popular social media sites or by emailing a link.
4. Get citations in popular formats, such as End Note, BibTeX, and others.

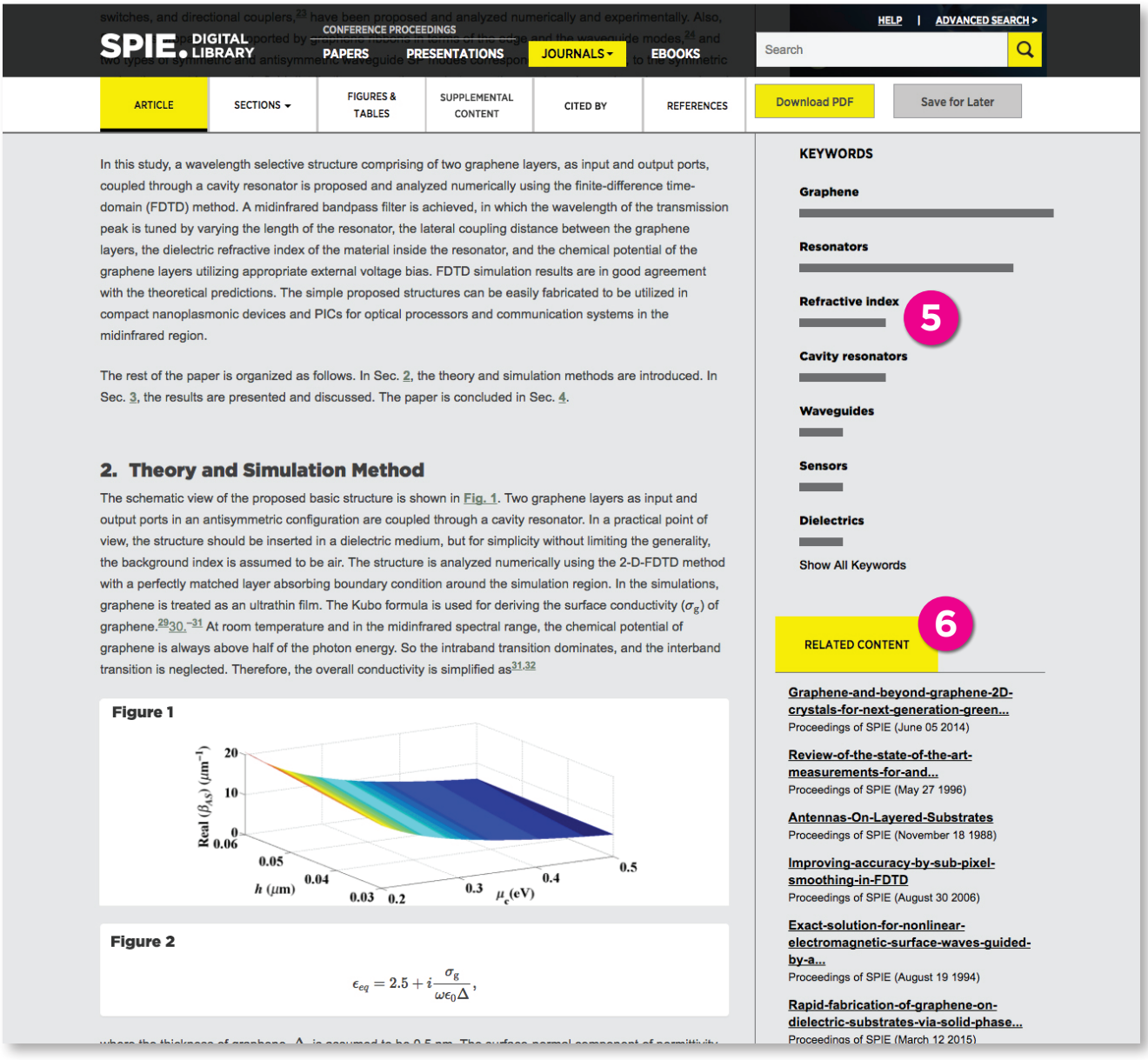


# Article Pages (cont'd.)

5 Graphical representation of keywords in the paper showing relative weighting of terms.

6 Related Content – Links to other papers that cover similar subject matter.

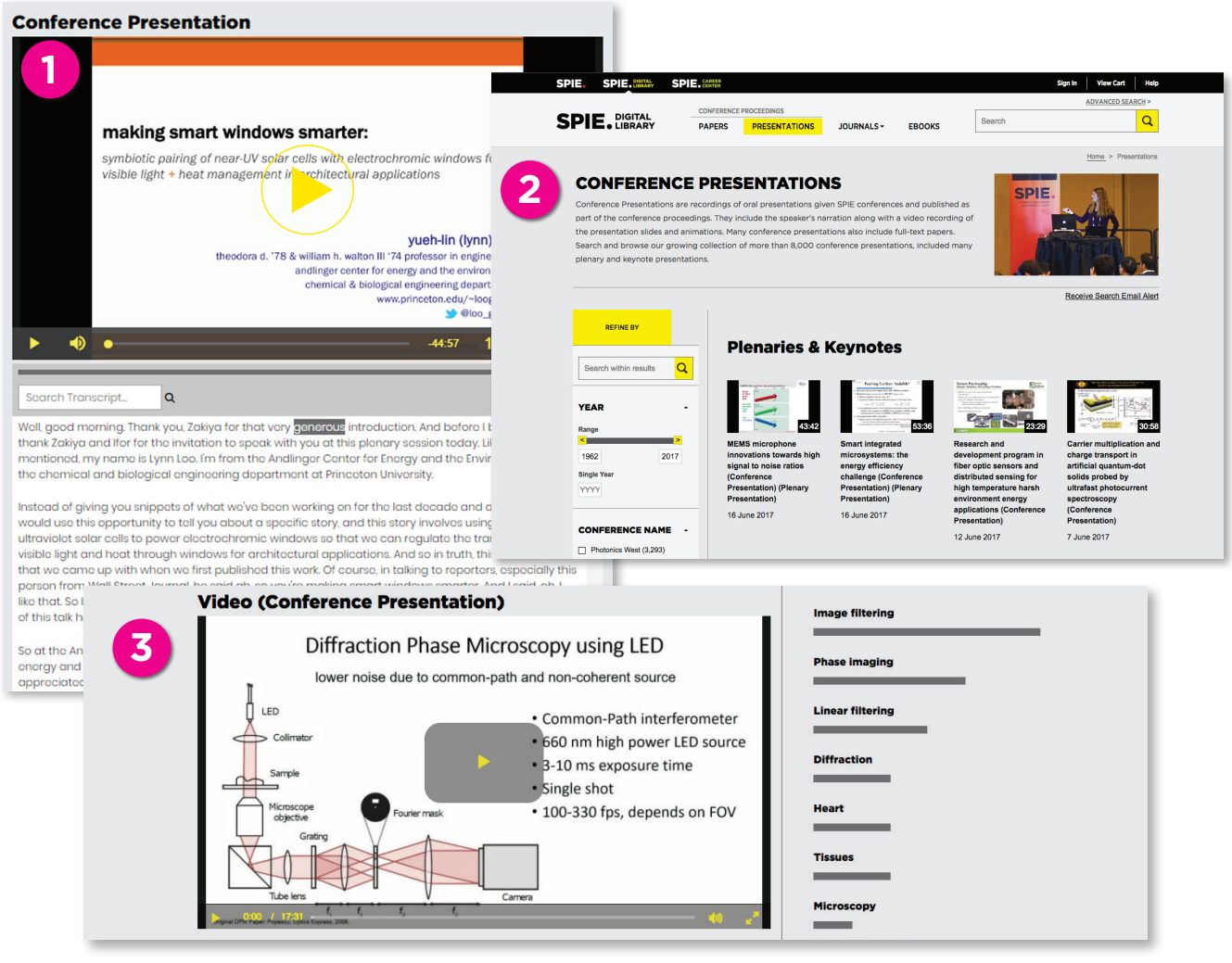
7 Translate articles into 25 languages.



# Conference Presentations

Since the start of 2017, the majority of presentations at SPIE Conferences have been recorded. These Conference Presentation recordings capture a presenter's slide and audio presentation, and are available for viewing on the SPIE Digital Library.

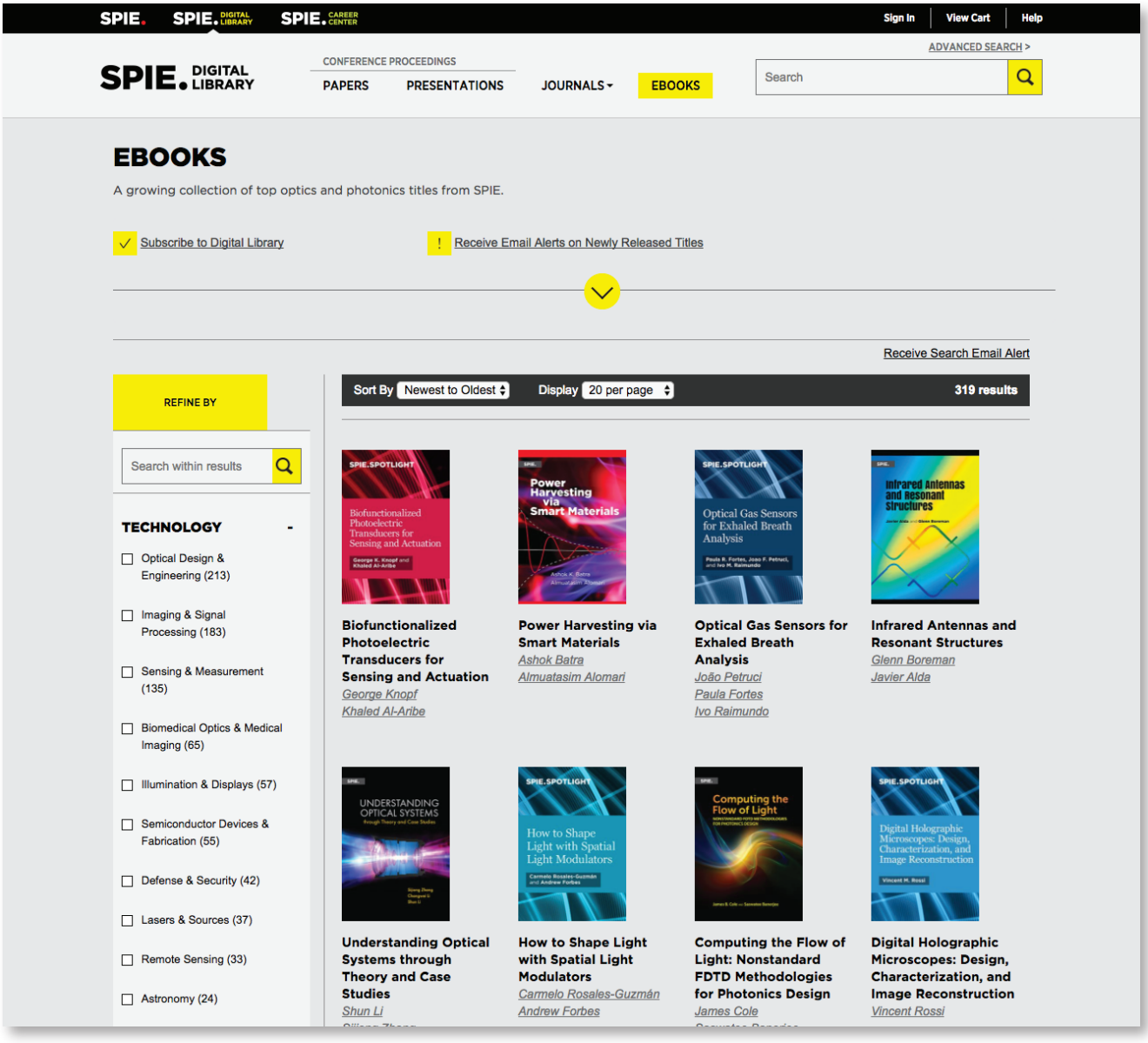
1. Conference Presentation Recordings Include speaker audio synchronized with video of the slides and animations. All recordings are Closed Captioned with interactive, searchable transcripts translatable into more than 100 languages.
2. There is a dedicated Conference Presentation page searchable by year, conference, technology, keyword, etc.
3. In addition, the presentation recording is included on an individual proceedings article page if a presentation has been recorded and published.



# eBooks

SPIE Press has published more than 380 titles to researchers' desktops on the SPIE Digital Library, including monographs and reference works, field guides, tutorial texts, and the new spotlight series. At least 25 new titles and editions are added to this collection each year.

Access to eBooks requires a subscription. If your institution does not subscribe to eBooks, you may purchase individual copies of SPIE Press titles on SPIE.org.



# The world's largest collection of optics and photonics applied research

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