SPIE. DIGITAL LIBRARY

USER GUIDE

spiedl.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 430,000 articles 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

30,000+ peer-reviewed journal articles. Coverage back to Volume 1:

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/Nanolithography, MEMS, and MOEMS
Journal of Nanophotonics
Journal of Photonics for Energy
Neurophotonics
Optical Engineering

eBooks

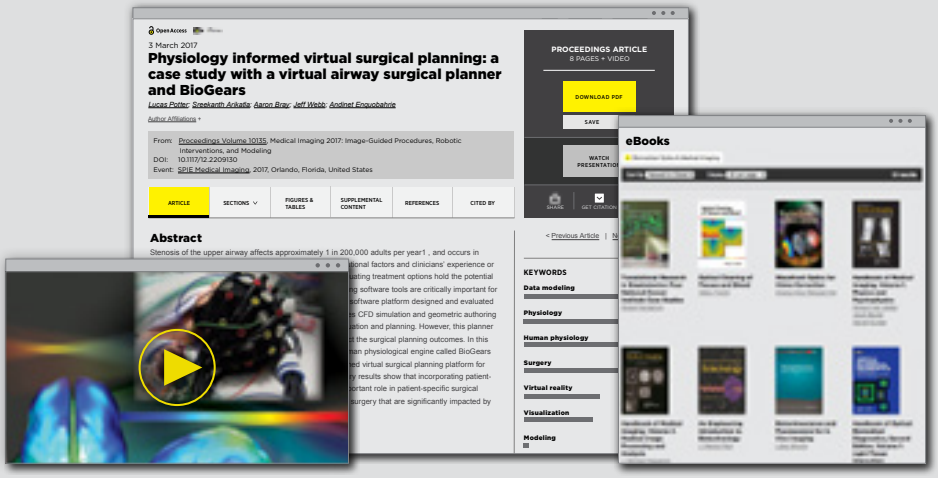
310+ SPIE Press eBook titles, featuring:

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.



New Features

Improved Design and Navigation: The new site features a refreshed look, enhanced functionality, and improved user experience. Development of additional features and refinements will continue long past the launch.

Presentation Recordings: Presentation recording videos from SPIE conferences are featured on a dedicated landing page and are included as a search filter option. Papers with presentation recordings can be identified by this video icon next to the paper title: Presentation + Paper

Full text HTML: Proceedings papers dating back to 2014 are displayed in full-text HTML. All SPIE Field Guide and Spotlight eBooks are also displayed in HTML format in addition to the downloadable PDF.

Personalization Tools: Creating a free personal account allows you save citations to a personal library and sign up for new content email alerts. Credentials for personal accounts have been carried forward to the new site, so no need to create a new account if you had one previously.

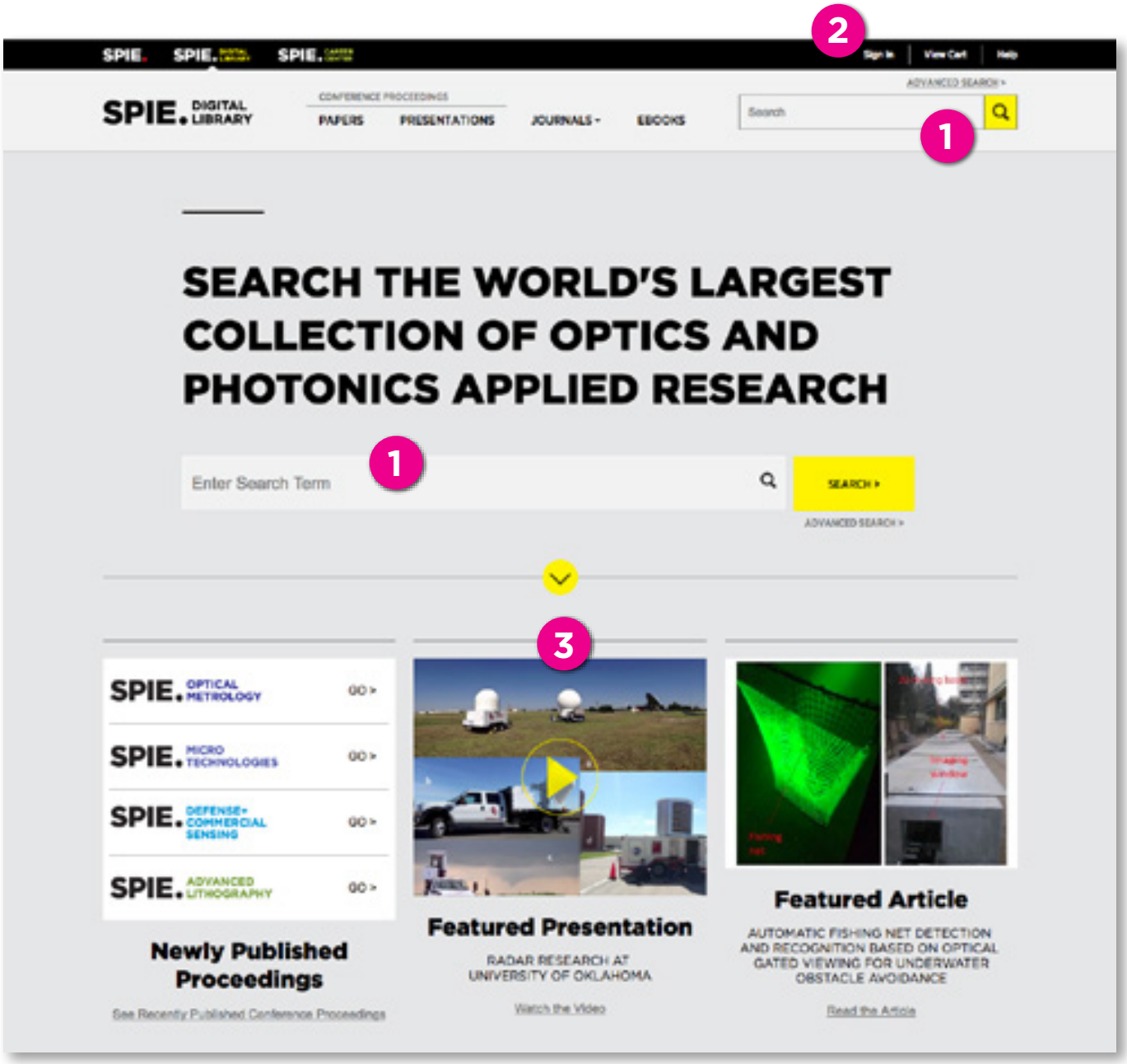
Mobile and Off-Site Access: The new mobile version of the site has been improved. If you work at a subscribing institution, after creating/logging into your personal account while on your subscribing organization's network, you will be affiliated with the institution's subscription and will have full off-site access.

Expanded Taxonomy: Our taxonomy of 4,000+ terms powers the related content recommendations and improved search to return the most relevant results.

Built In-House: The new SPIE Digital Library was designed and built in-house by our staff, allowing for greater flexibility, responsiveness, and a site that better houses our unique content

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.

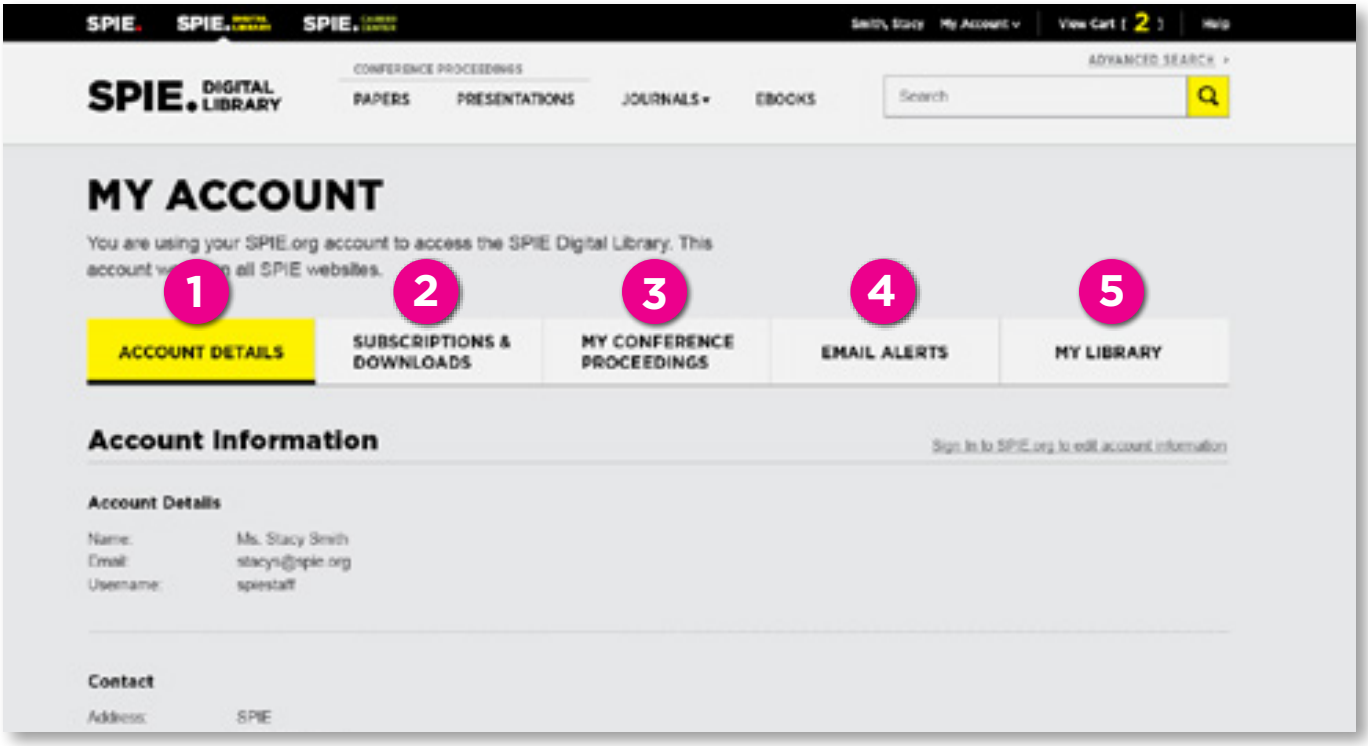


My Account

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.

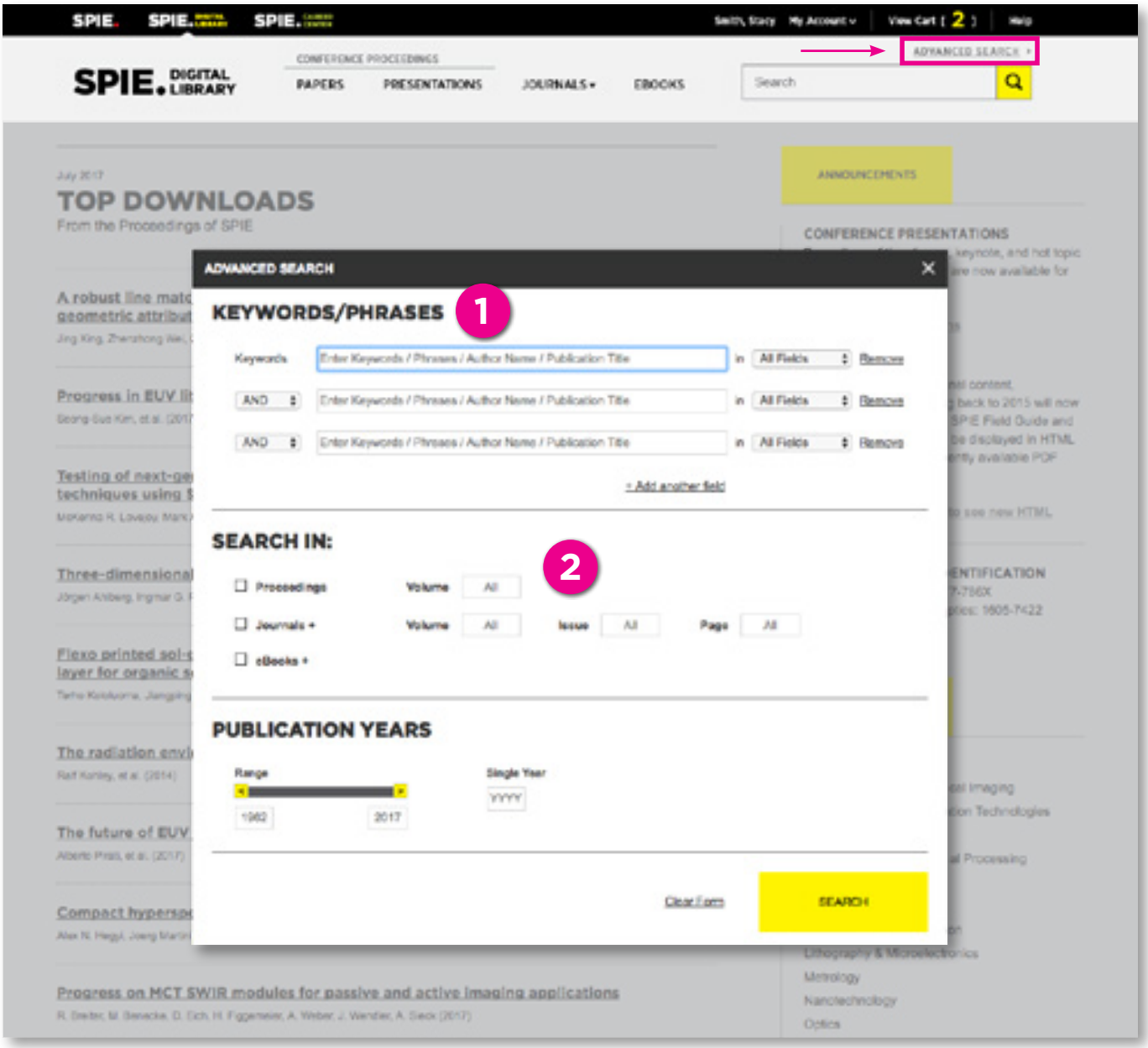


Advanced Search

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.

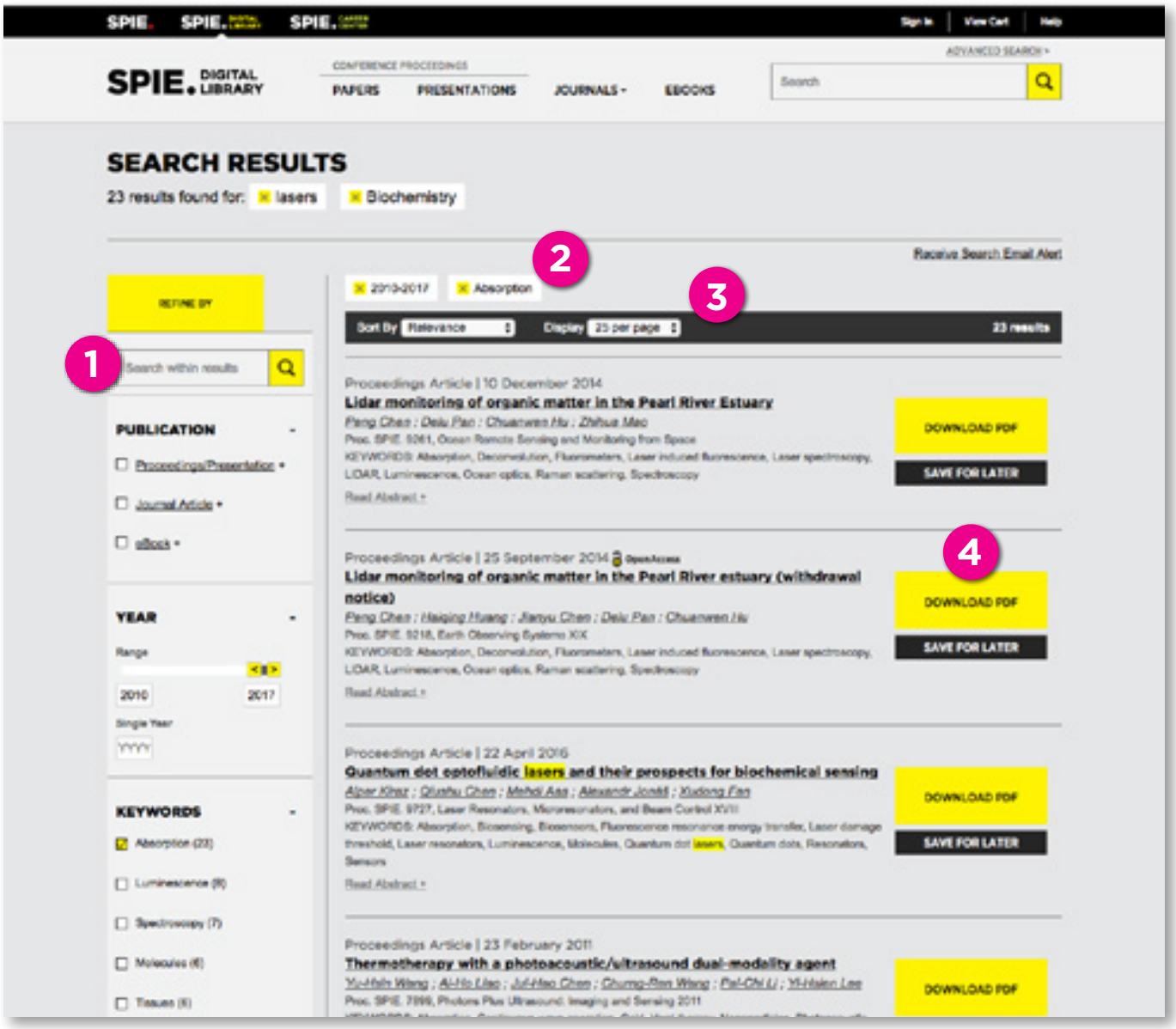
2. Search results can be refined by publication and/or publication date.



Search Results

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

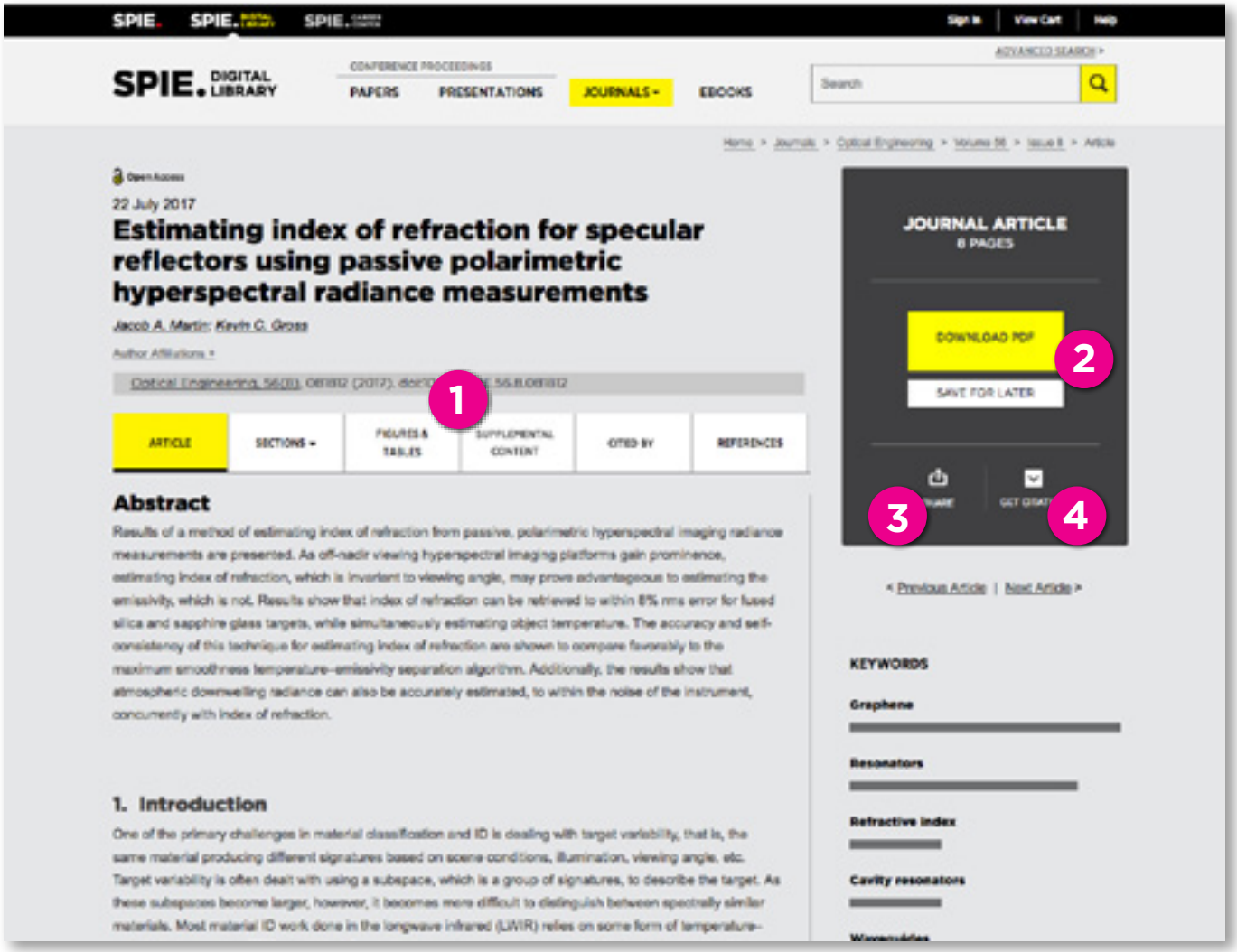
1. Search within results and refine your search results.
2. Add and remove filters, such as publication type, year, and keywords.
3. Sort and display preferences.
4. Download PDF or Save to My Library directly from the results page.



Article Pages

Proceedings and Journal Article pages include:

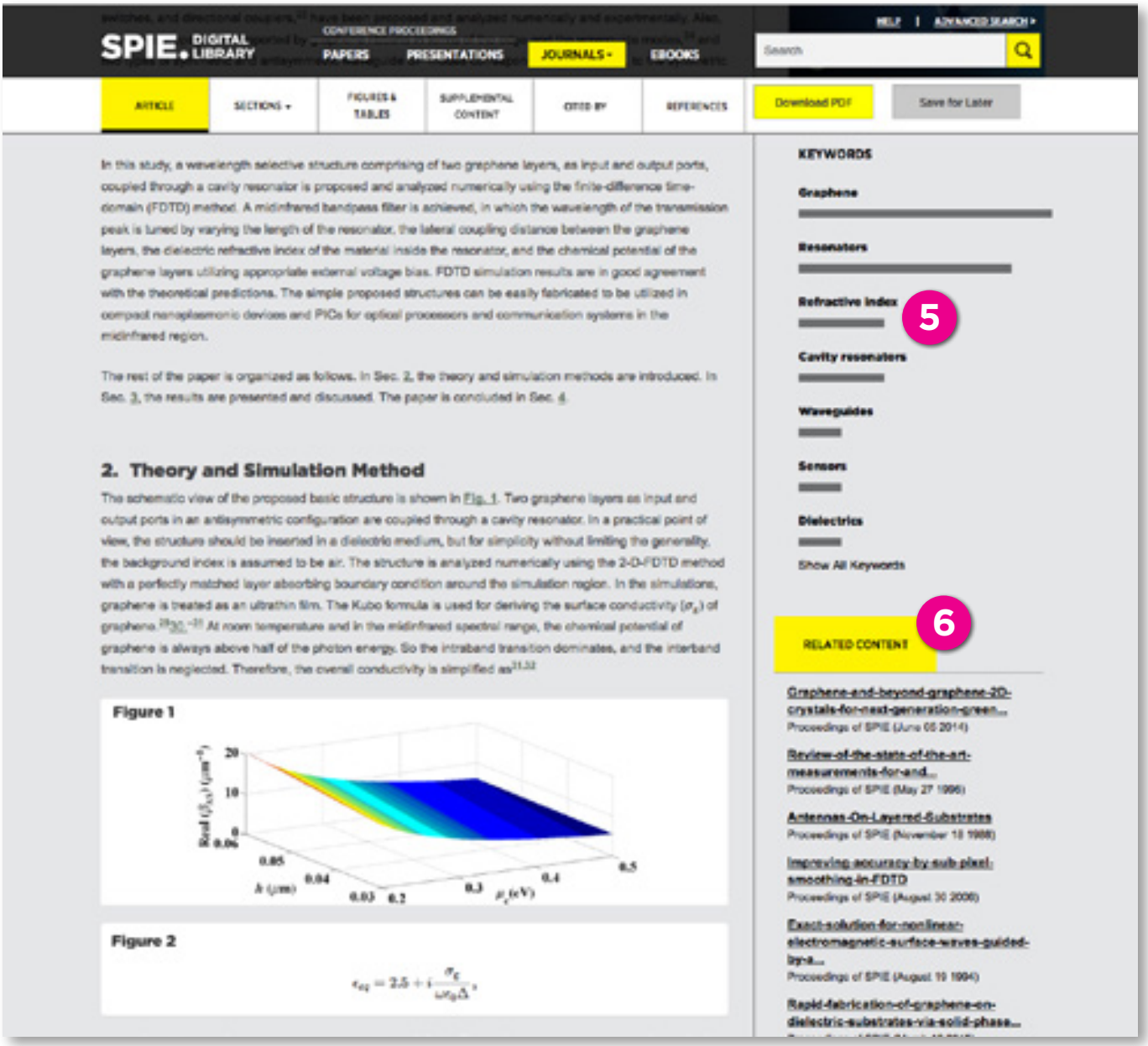
1. New tabs to view the paper in its entirety, jump to a specific section, view only the figures and tables, see supplemental content, find citing articles, or view the references.
2. Download a PDF or save the paper for later by adding to My Library, accessed through your personal account.
3. Share 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.

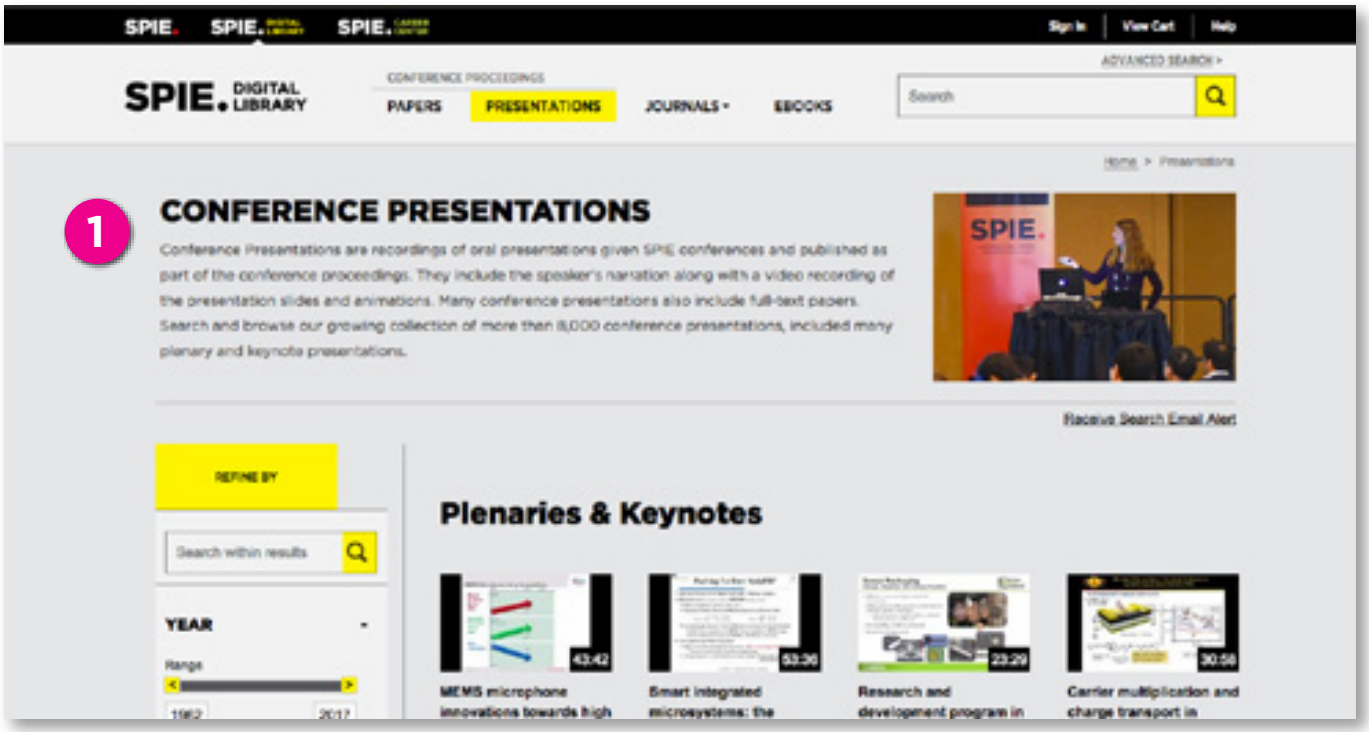


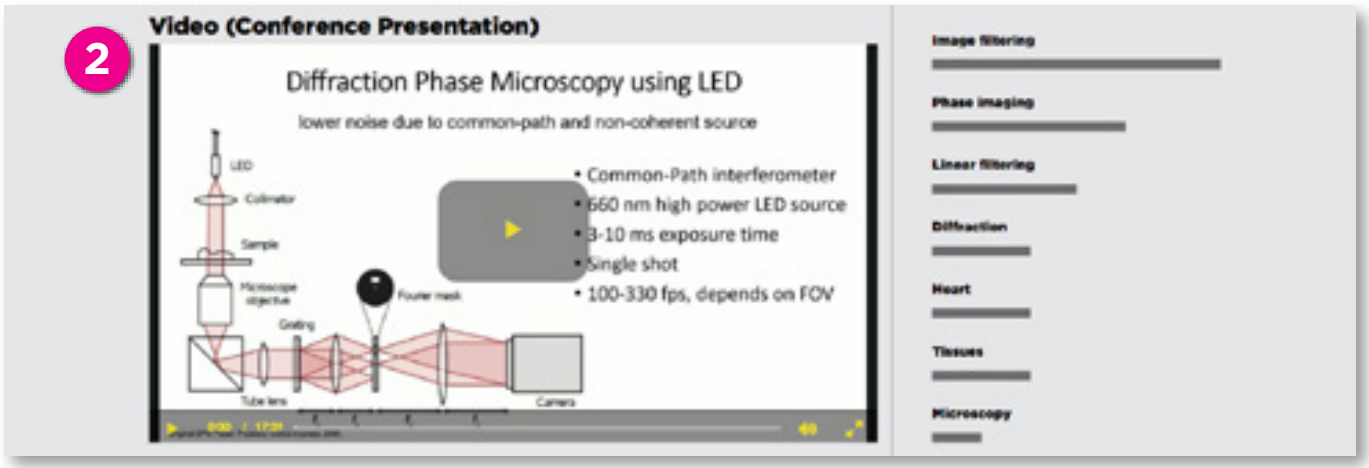
Conference Presentations

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. There is a dedicated Conference Presentation page searchable by year, conference, technology, keyword, etc.

2. In addition, the presentation recording is included on an individual proceedings article page if a presentation has been recorded and published.

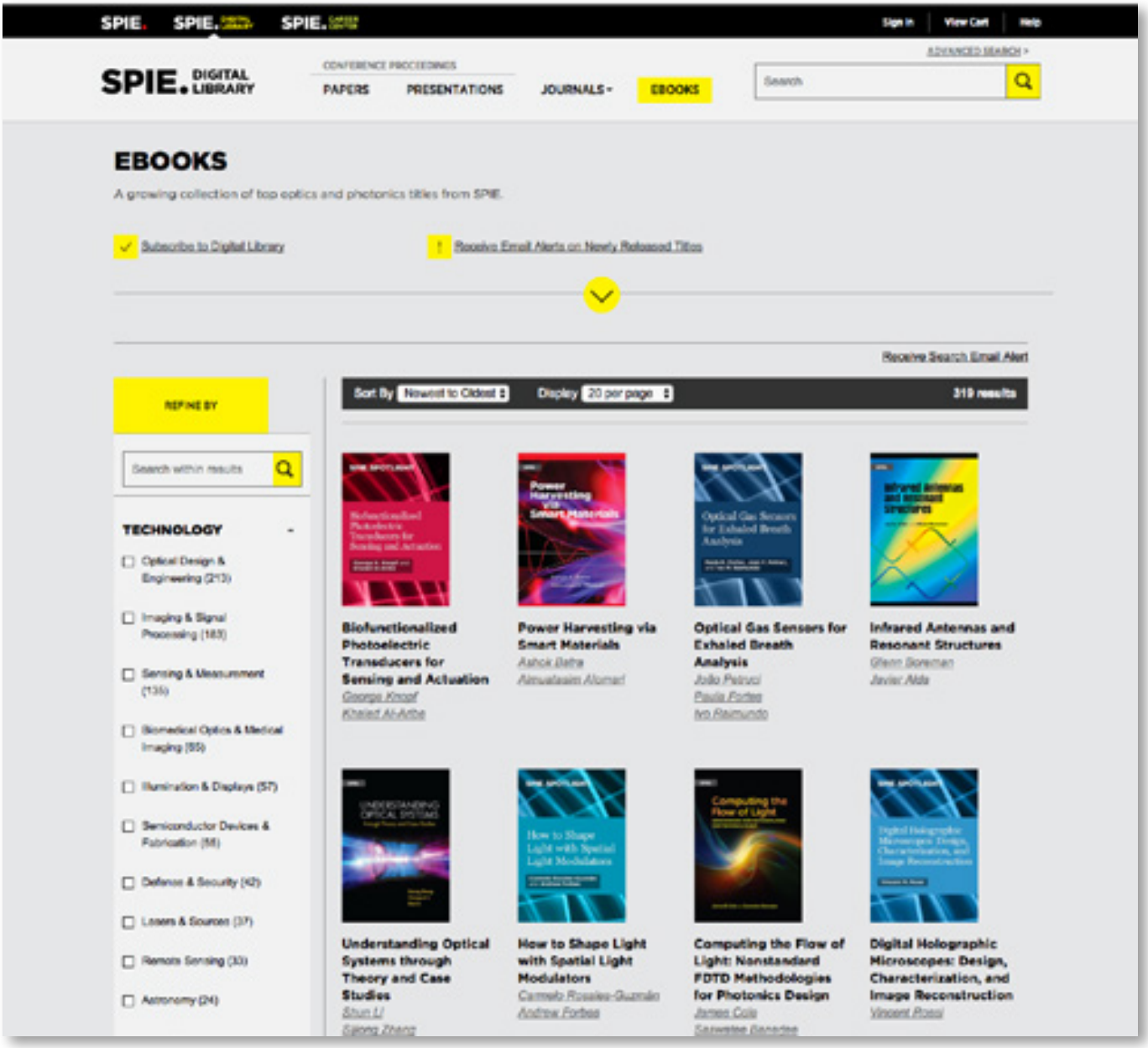




eBooks

SPIE Press has published more than 320 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.



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SPIE was founded in 1955 to advance light-based technologies. Serving more than 264,000 constituents from approximately 166 countries, the Society advances emerging technologies through interdisciplinary information exchange, continuing education, publications, patent precedent, and career and professional growth. SPIE annually organizes and sponsors approximately 25 major technical forums, exhibitions, and education programs in North America, Europe, Asia, and the South Pacific. In 2016, the Society provided $4 million in support of education and outreach programs around the world.

Customer and Technical Support

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