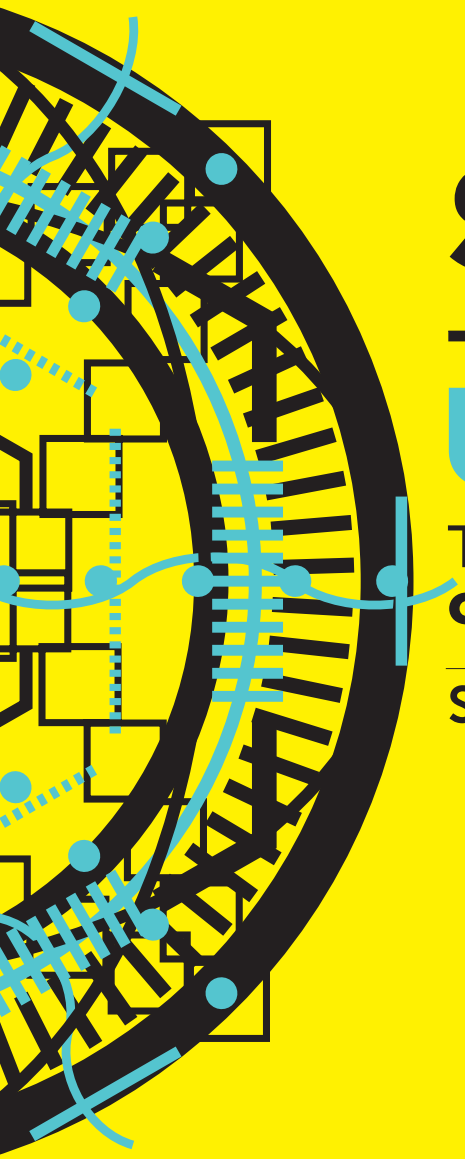


SPIE. DIGITAL LIBRARY

User Guide

The world's largest collection of **optics & photonics** applied research

SPIEDigitalLibrary.org

The 21st century will be the century of the photon – much as the 20th century was the century of the electron.

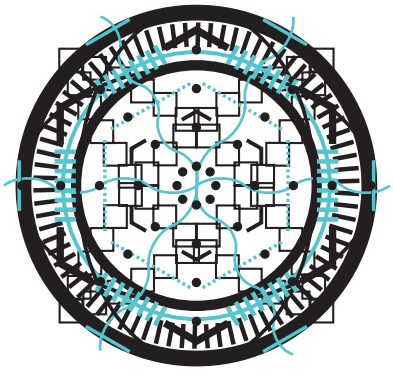
European Technology Platform21, 2nd edition

Astronomy | Biomedical Optics | Communications | Defense & Security | Energy | Imaging | Nanophotonics | Sensors

SPIE. DIGITAL LIBRARY

User Guide

The world's largest collection of
optics & photonics applied research



SPIEDigitalLibrary.org

The SPIE Digital Library is the world's largest collection of **optics & photonics** applied research.

With more than **400,000** papers spanning biomedicine, communications, sensors, defense and security, manufacturing, electronics, energy, and imaging, the SPIE Digital Library is the most extensive database available on optics and photonics research.

What's Available:

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's happening—right now.

Oer 380,000 articles from 1962 to the present.

Technologies covered:
- Astronomy
- Biomedical Optics & Medical Imaging
- Communication & Information Technologies
- Defense & Security
- Electronic Imaging & Signal Processing
- Energy
- Lasers
- Light Sources & Illumination
- Lithography & Microelectronics
- Metrology
- Nanotechnology
- Optics
- Remote Sensing
- Sensors

Journals

Over 20,000 peer-reviewed journal articles.
Coverage back to Volume 1:
- *Optical Engineering*
- *Journal of Biomedical Optics*
- *Journal of Electronic Imaging*
- *Journal of Micro/ Nanolithography, MEMS, and MOEMS*
- *Journal of Applied Remote Sensing*
- *Journal of Nanophotonics*
- *Journal of Photonics for Energy*

eBooks

Approximately 200 SPIE Press eBook Titles;
5,000 eBook Chapters.
(See page 8 for details)

SPIE. DIGITAL LIBRARY
SPIEDigitalLibrary.org

Home Page

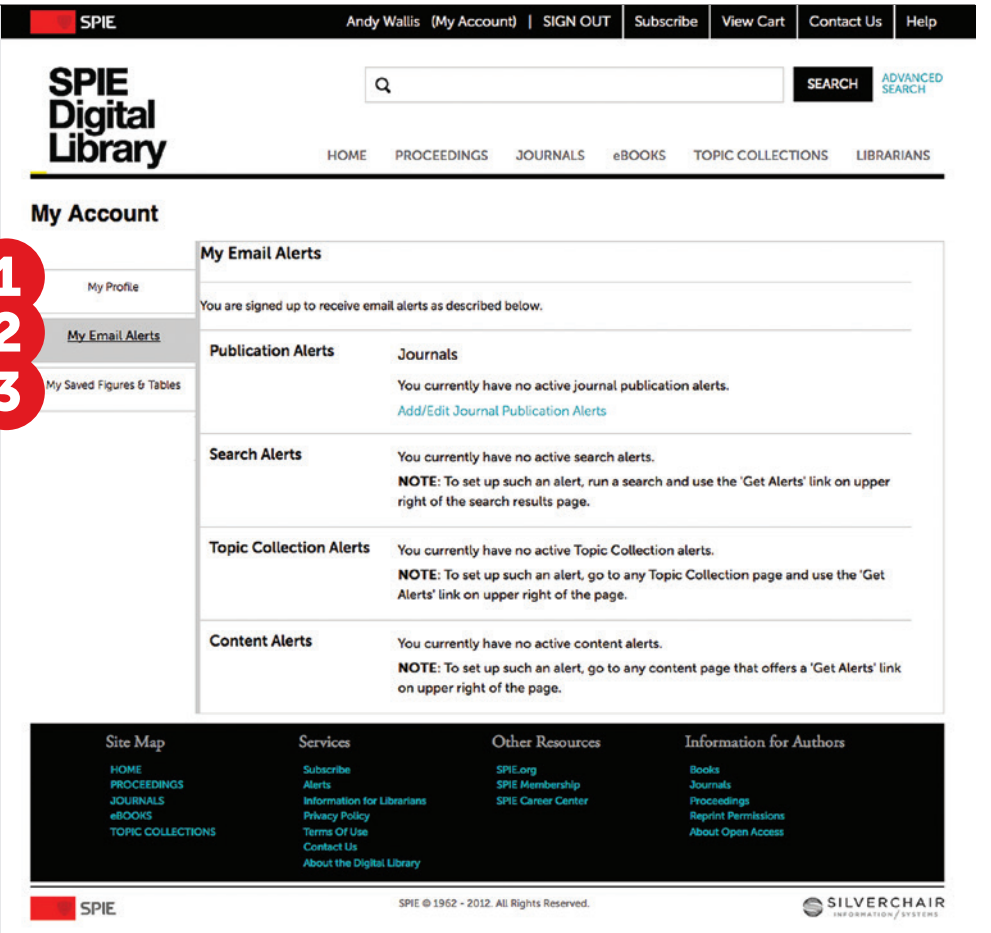
1. **Search —** Perform a basic search using the new SPIE Optics & Photonics taxonomy, coupled with semantic technology.
2. **Personal Account Sign-in —** See page 4 for more information.

   ***Institutional subscriber access does not require sign-in.** Access is triggered by IP-based authentication which occurs automatically.
3. **Top Downloads by Technology —** View the most downloaded articles by technology.
4. **New Content —** View the newest proceedings, journal articles, and eBooks on the SPIE Digital Library.
5. **Featured Video —** Selected conference audio/.PPT presentations in addition to integral multimedia for journal and proceedings articles.

My Account

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

1. **Profile —** Create and edit your personal profile, manage content information and include a bibliography of references of all papers you've published.
2. **Email Alerts —** Manage email alerts by publication, search topic, topical collection, and content type.
3. **Saved Figures and Tables —** View and manage saved figures and tables.



Remote Access for Institutional Subscribers

If your organization has a subscription to the SPIE Digital Library you can automatically download any article you want via IP-based authentication; you may now access the same database when you're away from your institution by **creating a personal account**.

All you need to do is create a free personal account the next time you are using the SPIE Digital Library and then sign in using the box in the upper right hand corner of the homepage. This will 'pair' you and your account with the access provided by your institution, now when you are away from work or school you will have access to the SPIE Digital Library just by signing in.

Search

1. **Search by keyword from any page using the basic search box.**

2. **Use Advanced Search to:**
   A. Search for authors
   B. Search text or figures (journals only) by publication.

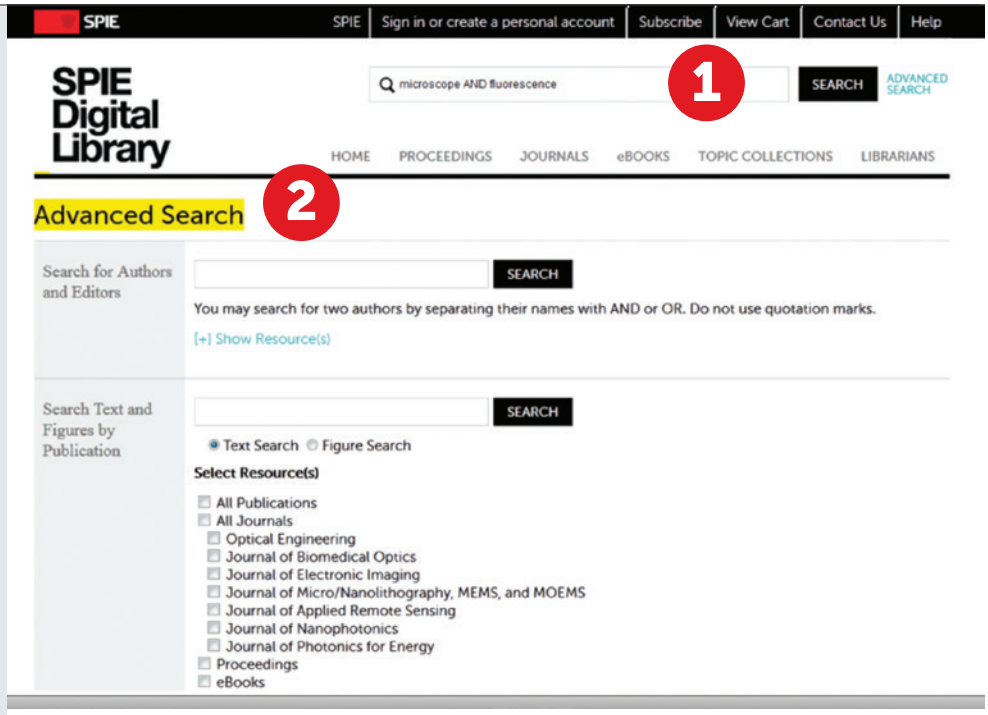
Search Tips:

Simple Boolean AND or OR searches may be performed.

Example:
microscope AND fluorescence

Use quotes around search entries when searching for exact terms, phrases, article titles, etc.

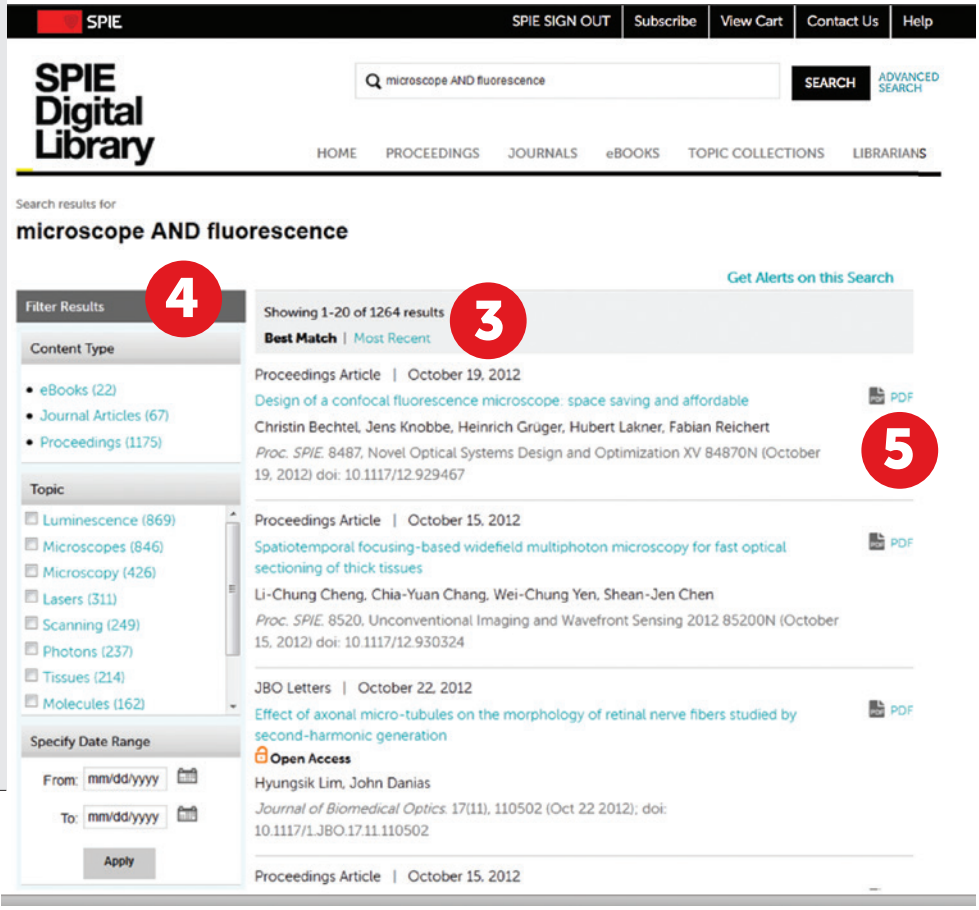
Example:
"Design of a confocal fluorescence microscope"



3. **View results by Best Match or Most Recently Published.**

4. **Filter search results by:**
   A. Content Type
   B. Topic Category
   C. Date Range

5. **PDF —** Download the full article PDF directly from the results page.

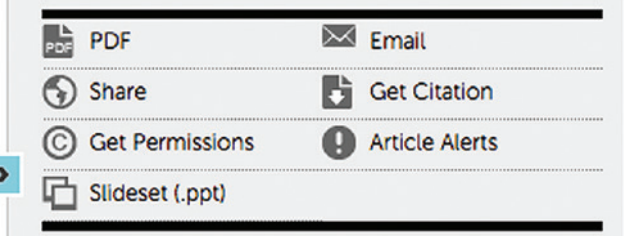


Proceedings Article Pages

1. **Proceedings pages —** Quickly jump to browse proceedings by conference, year, volume number, or volume title.
2. **Expand Page —** Expand the article column for ease of reading.
3. **Author Profile —** An overview of the authors publication record, society activities, biography, etc. Links to SPIE profiles.
4. **Related Content —** See related journal and proceedings articles, as well as topic collections and related jobs from the SPIE Career Center.
5. **Text Size —** Adjust text size for ease of reading.
6. **Tools —** See below.

6 Tools

Available on Abstract and Article pages, these tools are available to all users with a free personal account.



PDF — Download the full-text PDF of the article.

Share — Bookmark and share articles quickly and easily through popular networking sites.

Get Permissions — Information and instructions on how to request reprint permission for an article.

Slideset — Download journal figures and tables in PowerPoint format where available, for Journal articles only.

Email — Email the abstract of the article to yourself, or a colleague.

Get Citation — Select one or more citations for export to your bibliographic software (endnote, Bibtek, etc.).

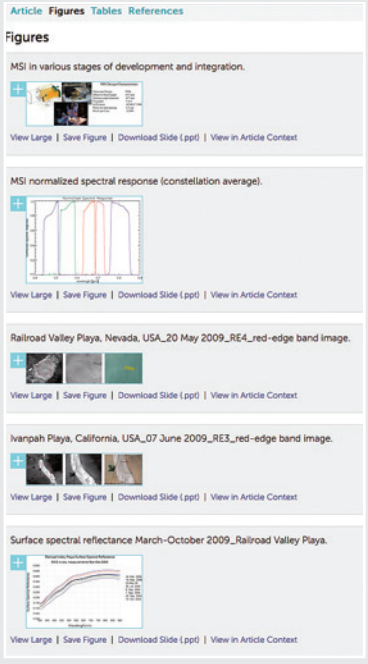
Article Alerts — Receive automatic email notification when a correction is posted.

Journal Article Pages

1. Journal Pages – Quickly jump to the Journal homepage, current issue, or all issues.

For journal articles published after 2001, full text is rendered on the article page.

2. Figures and Tables – Enlarge, save, and download figures and tables to PowerPoint.

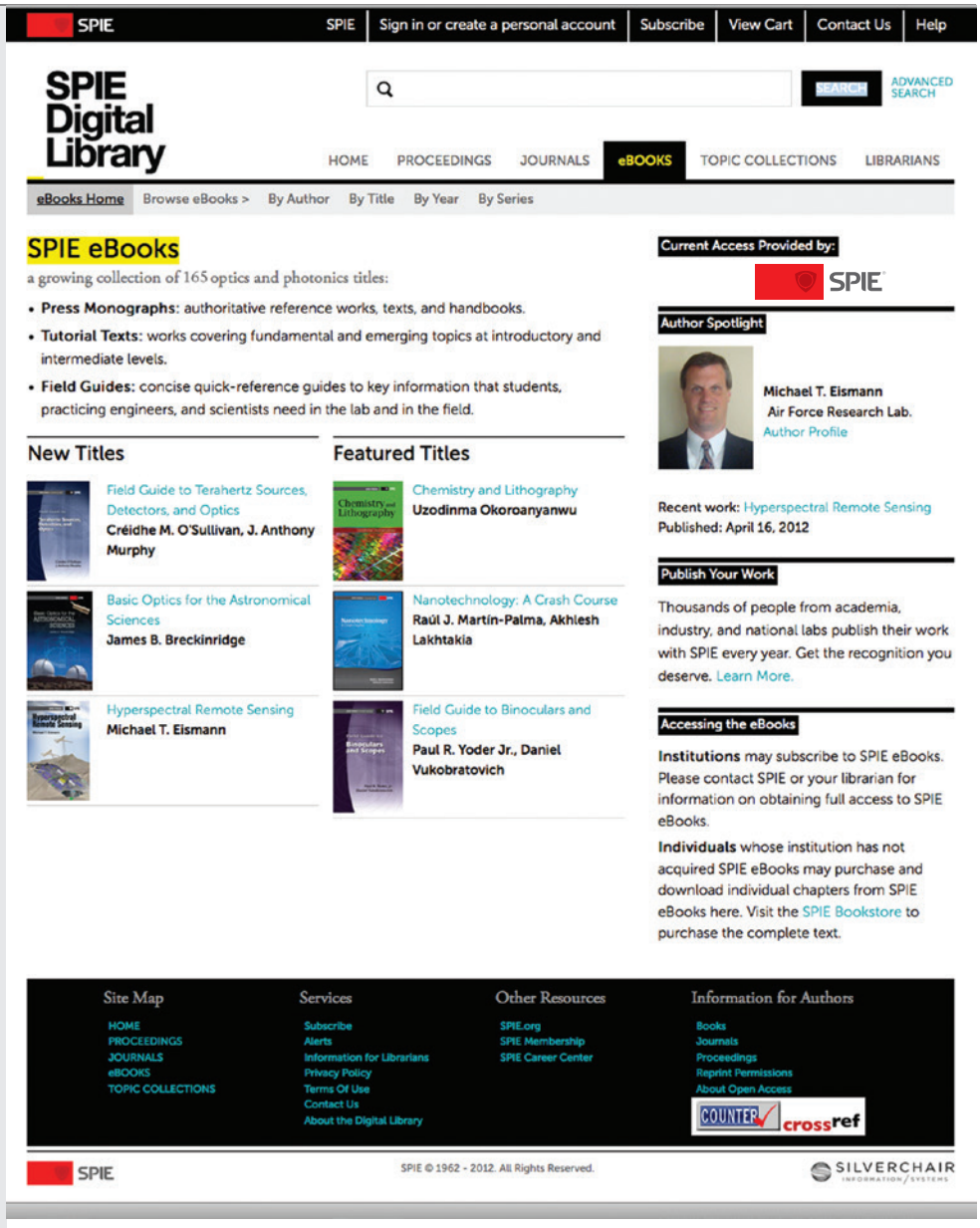


eBooks

eBooks

SPIE eBooks bring approximately 200 valuable SPIE Press titles - monographs and reference works, field guides, and tutorial texts - to researchers' desktops on the same user-friendly SPIE Digital Library platform as SPIE Proceedings and Journals. At least 15 new titles and editions are added to this collection each year.

Not all institutions subscribe to SPIE eBooks. If you are unable to access this SPIE content, you may purchase individual copies of SPIE Press titles through Barnes & Noble, eBooks.com, and Apple iBookstore.



Topic Collections

View articles, eBooks and jobs by 14 topic collections with related subcategories based on the SPIE Optics and Photonics taxonomy.

Topic Collections

Astronomy

Biomedical Optics & Medical Imaging

Communication & Information Technologies

Defense & Security

Electronic Imaging & Signal Processing

Energy

Lasers

Light Sources & Illumination

Lithography & Microelectronics

Metrology

Nanotechnology

Optics

Remote Sensing

Sensors

+ more categories not shown here

SPIE Digital Library

SPIEDigitalLibrary.org

SPIE was founded in 1955 to advance light-based technologies. Serving more than 225,000 constituents from 150 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 2013, the Society provided more than $8.2 million in support of education and outreach programs around the world.

Customer and Technical Support

Click HELP in the top navigation bar of SPIEDigitalLibrary.org to access Frequently Asked Questions.

Contact Digital Library support

Email: SPIEDLsupport@spie.org

Telephone: 1 888 902 0894 (North America)
+1 360 685 5580 (Rest of World)

Hours: 8 am to 5 pm Pacific Time (Monday to Friday)

SPIE Headquarters

1000 20th Street • Bellingham WA 98225-0100 USA
Tel: +1 360 676 3290 • Fax: +1 360 647 1445
SPIE.org

DL-User-Guide-2014