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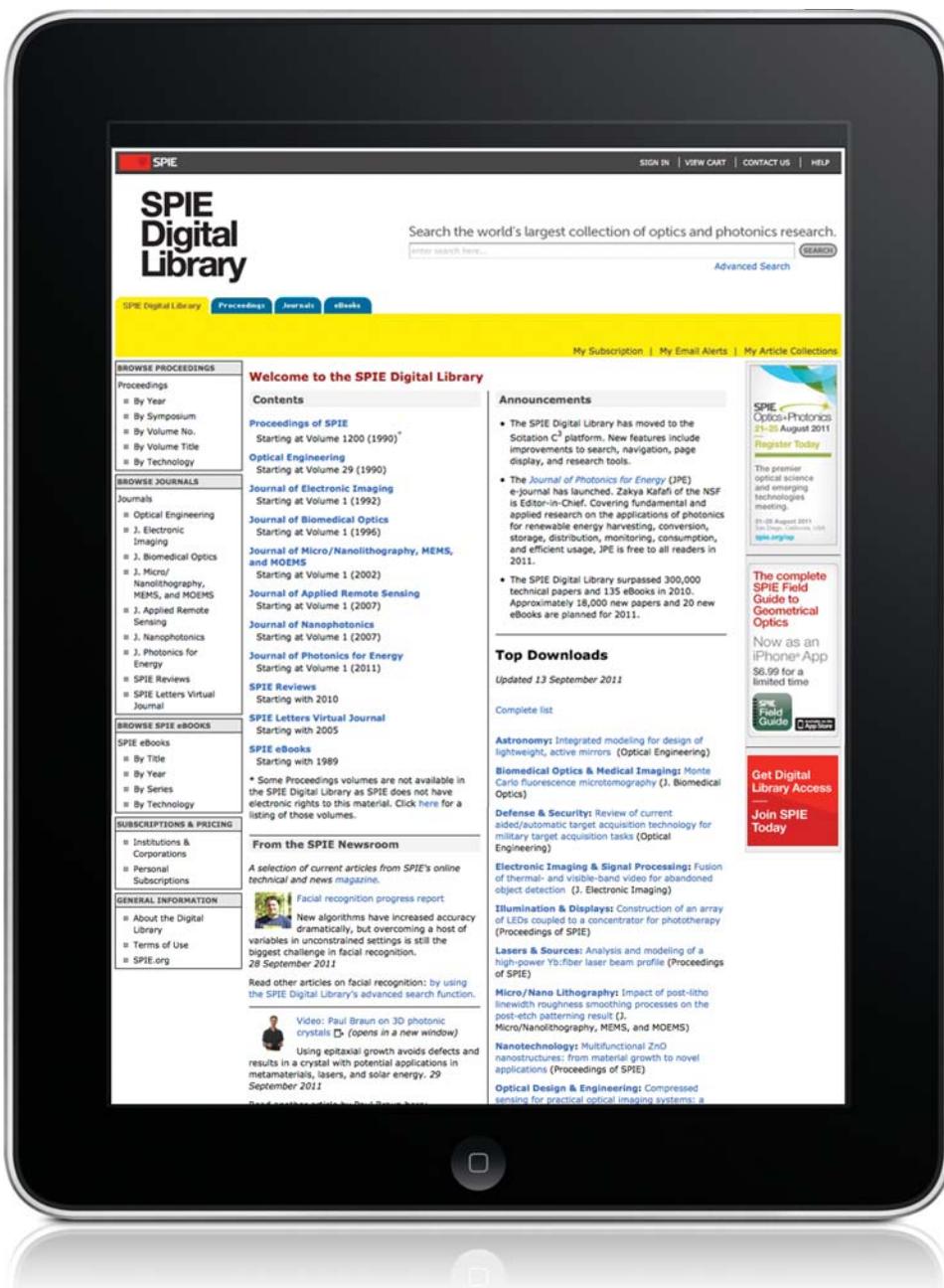
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Announcements

- "More Like This" feature launched: Every article now includes links to similar articles and related patents to make finding like content easier and faster.
- Launched in January 2011, the *Journal of Photonics for Energy* (JPE) with Zakya Kafafi as editor-in-chief, covers fundamental and applied research on the applications of photonics for renewable energy harvesting, conversion, storage, distribution, monitoring, consumption, and efficient usage. JPE offers free access through 2011.
- The SPIE Digital Library has surpassed 324,000 technical papers and 152 eBooks. Approximately 18,000 new papers and 20 new eBooks are planned for 2012.

Top Downloads

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Complete list (Updated 13 October 2011)

- Astronomy:** Fabrication and testing of the first 8.4-m off-axis segment for the Giant Magellan Telescope (Proceedings of SPIE)
- Biomedical Optics & Medical Imaging:** Comparative study of the angle-resolved backscattering properties of collagen fibers in bovine tendon and cartilage (J. Biomedical Optics)
- Defense & Security:** Review of current aided/automatic target acquisition technology for military target acquisition tasks (Optical Engineering)
- Electronic Imaging & Signal Processing:** Fusion of thermal- and visible-band video for abandoned object detection (J. Electronic Imaging)
- Illumination & Displays:** Organic light-emitting-diode lighting overview (J. Photonics for Energy)
- Lasers & Sources:** Transparent ceramics for high-power solid-state lasers (Proceedings of SPIE)
- Micro/Nano Lithography:** Source mask polarization optimization (J. Micro/Nanolithography, MEMS, and MOEMS)
- Nanotechnology:** Optical properties of nanostructured materials: a review (J. Nanophotonics)
- Optical Design & Engineering:** Imaging system fundamentals (Optical Engineering)
- Optoelectronics & Communications:** Quantum well infrared photodetectors: present and future (Optical Engineering)
- Remote Sensing:** Characterization of the Sonoran desert as a radiometric calibration target for Earth observing sensors (J. Applied Remote Sensing)
- Sensing & Measurement:** Optical three-dimensional metrology with structured illumination (Optical Engineering)
- Solar & Alternative Energy:** Organic-inorganic hybrid solar cells made from hyperbranched phthalocyanines (J. Photonics for Energy)

From the SPIE Newsroom

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A selection of current articles from SPIE's online technical and news magazine.

-  Measuring human donor posterior corneal lenticles with optical coherence tomography
-  A near-IR-based system for evaluating corneal tissue grafts and transplants provides a reliable alternative to ultrasound pachymetry. 7 October 2011
-  Read another article by Sonia Yoo here: Combining femtosecond laser ablation and diode laser welding in lamellar and endothelial corneal transplants.
-  Bidirectional optical data transmission over a single multimode fiber
-  New, low-cost transceiver chips are made by the compact, monolithic integration of a surface-emitting laser and a p-doped intrinsic n-doped photodiode. 6 October 2011
-  Read a related article here: Fabrication and characterization of individually addressable vertical-cavity surface-emitting laser arrays and integrated VCSEL/PIN detector arrays.
-  Nanostructured capacitors for renewable energy storage
-  Capacitive devices based on novel ceramic-glass composite dielectrics might hold potential for large-scale energy storage from wind and solar. 6 October 2011
-  Read another article by Douglas Chrisey here: Direct-write of sensor devices by a laser forward transfer technique.

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Search Results

The screenshot shows the SPIE Digital Library search results for the keyword "optics". The page features a navigation bar with "SIE" and links for "SIGN IN", "YOUR RECENT HISTORY", "VIEW CART", "CONTACT US", and "HELP". The main header includes the "SPIE Digital Library" logo and a search bar with the text "Search the world's largest collection of optics and photonics research." Below the search bar, it indicates "Your site search was 'Optics'" and provides an "Advanced Search" link. The page is divided into several sections: "Refine Search Criteria" (12) on the left, "Facet Your Results" (13) below it, and a list of search results (1) on the right. The search results list includes titles such as "Analysis and applications of accommodative lenses for vision corrections", "Anniversaries, Nostalgia, and the Future", "Development progress of optics for extreme ultraviolet lithography at Nikon", "Plasma cleaning of lithium off of collector optics material for use in extreme ultraviolet lithography applications", "Guest Editorial: Special Section on Micro-Optics for Photonic Networks", and "Experimental results of a MEMS-based adaptive optics system". Each result includes the authors, journal information, and options to "Read Online (HTML)" or "Download PDF". A "New Search" button and "Display 25 per page" option are also visible. At the bottom, there is a "Your Recent History" section showing "Recently Searched" terms like "laser projectors", "speckle reduction", "tomography", and "angle-resolved backscattering".

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