







.: Top Stories

Photonic Computing System Rethinks How to Power Familiar AI Tool MIT researchers demonstrated a photonics-based computing system

that could lead to machine-learning programs several orders of magnitude more powerful than the one behind ChatGPT. By supporting large-scale optoelectronic processors to accelerate machinelearning tasks from data centers to decentralized edge devices, cellphones small devices could become capable of running programs that can currently only be computed at large data centers, according to the researchers. Read Article



Read Article



Demands Perovskite solar cells are providing a team at Caltech's Heritage Medical

Perovskite Cells Meet Wearable Biosensor's Power

Research Institute with an efficient power source for wearable sweat sensors that monitor a host of biomarkers associated with disease diagnostics and fitness levels. The wearable device itself is assembled in an origami-like fashion, with individual layers dedicated to different processes.



Applications Open for the 2024 Prism Awards

celebrate its 16th anniversary Jan. 31 during a gala evening at SPIE Photonics West. The awards, held annually by SPIE, the international society for optics and photonics, recognize and honor the most innovative products on the market across optics and photonics. Applications are open through Sept. 15. Read Article

Applications are open for the 2024 SPIE Prism Awards, which will





HyperFine Spectrometer

.: Featured Products & Services



LightMachinery Inc.

Designed for measuring hyperfine spectra and subtle spectral shifts, the

HyperFine spectrometer from LightMachinery is a compact spectrometer capable of 1 picometer resolution. It is ideal for pulsed laser characterization and for measuring the small spectral shifts from Brillouin or Raman scattering. Visit Website Request Info



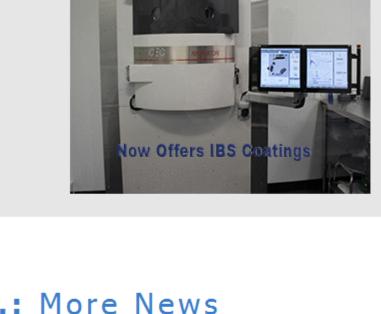
Northrop Grumman Synoptics

High Performance IBS

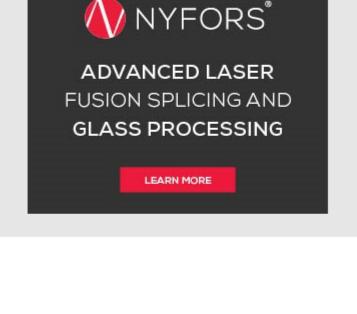
high-power laser applications for ultra-fast through

CW applications across the wavelength range of 355-2200 nm. Each design has a unique refractive index profile specifically tuned to give optimal performance for our customers' applications. Visit Website Request Info

Coatings



Northrop Grumman SYNOPTICS



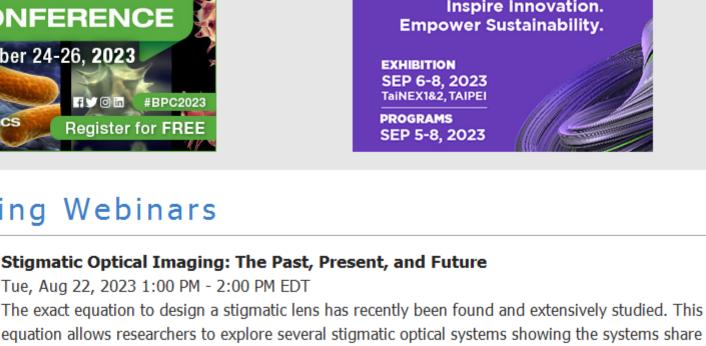
Blue Laser Fusion Raises \$25M in Seed Funding Read Article Linear Waveguide Streamlines Directional Single-Photon Production Read Article

ams OSRAM Details Business Restructure Read Article

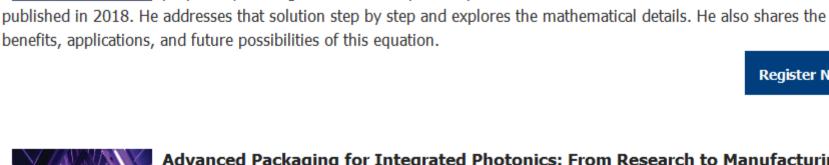
LightPath Acquires Visimid Technologies Read Article

Pixel-by-Pixel, Detector Captures Far-Away Targets in all Conditions Read Article





several properties. In this presentation, Rafael González-Acuña of Huawei Technologies reviews those properties, starting from the history of the problem in ancient Greece to its solution that was



benefits, applications, and future possibilities of this equation.

Advanced Packaging for Integrated Photonics: From Research to Manufacturing Tue, Aug 29, 2023 10:00 AM - 11:00 AM EDT Advanced packaging enables researchers to combine different technology platforms such as

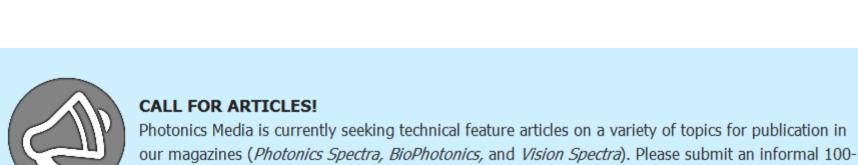
photonics, electronics, micro-electromechanical, and fluidics to address a vast array of exciting

applications. Professor Peter O'Brien presents the packaging capabilities established by his research team at the Tyndall Institute, including details about the group's diverse range of research projects in areas such as telecommunications, quantum, and medical devices. The webinar outlines how these advanced packaging processes can be transferred to early-stage manufacturing through the group's leadership of the European Pilot Line, and

discusses recent developments by the group to establish the European Photonics Academy to train industry and students in a

Register Now

Register Now



wide range of advanced photonic technologies. Sponsored by Aerotech Inc.

CALL FOR ARTICLES!





word abstract to editorial@Photonics.com, or use our online submission form.





Questions: info@photonics.com Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use