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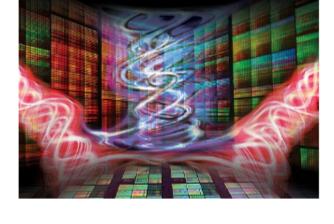


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Unprecedented Speeds An international team led by MIT researchers has developed a spatial

Programmable Device Enables Optical Control at

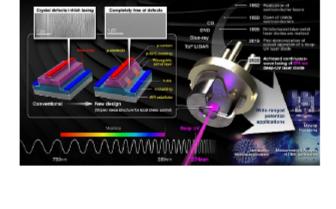
light modulator (SLM) that promises greater control of light at orders of magnitude more quickly than commercial devices. The team also developed a fabrication process to ensure consistent device quality when manufactured at scale. Read Article



Settings Researchers from Nagoya University, in collaboration with Asahi Kasei Corp., have reported room temperature continuous-wave (CW) lasing

Diode Demonstration Establishes Efficient Route to Sterile

of a DUV laser diode, which the group claimed is a world first. The work is a milestone in the practical application of semiconductor lasers in all wavelength ranges and will allow UV-C laser diodes to be applied to health care, virus detection, particulate measurement, gas analysis, and high-definition laser processing. Read Article



Perovskite An international research team has produced an all-perovskite tandem solar cell with exceptionally high open-circuit voltage and efficiency.

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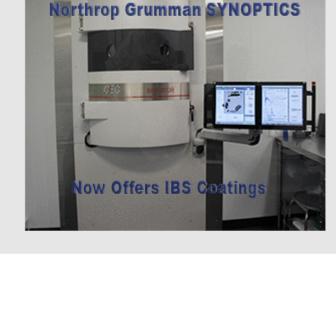
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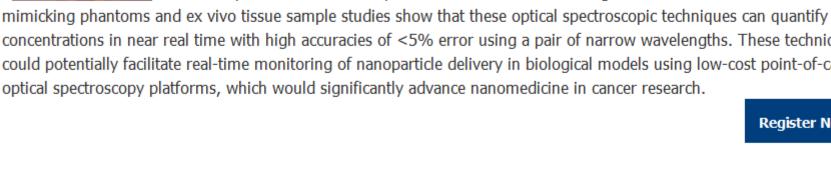
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FORWARD AS ONE

spectroscopy platform and a low-cost compact spectroscopy device. This model is utilized for the near real-time quantification of nanoparticle concentrations in biological tissue models. Both tissue-



concentrations in near real time with high accuracies of <5% error using a pair of narrow wavelengths. These techniques could potentially facilitate real-time monitoring of nanoparticle delivery in biological models using low-cost point-of-care

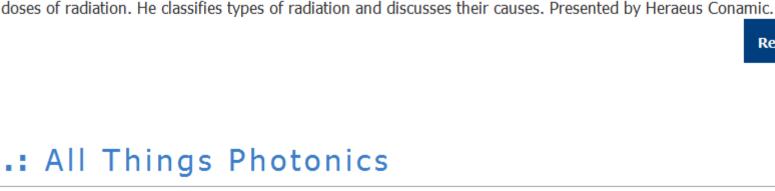
optical spectroscopy platforms, which would significantly advance nanomedicine in cancer research. Register Now

> An increasingly wide range of applications need to be able to function in harsh environments, not only on space missions but also here on Earth, in particle detectors, for example. It is important to

of Heraeus Conamic provides an overview of fused silica as an optical material and how it is affected by different types and

understand radiation's key processes and their effects on fused silica in order to design optical instrumentation that can avoid harm to its systems, enabling it to complete its mission. Eduard Klett

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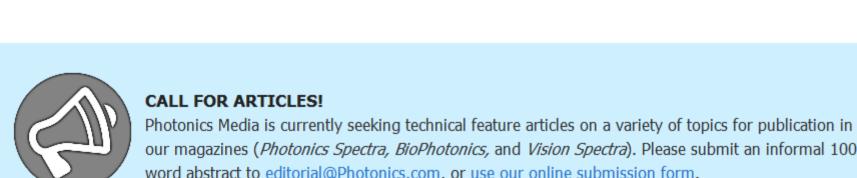


Fused Silica in Radiation Environments

Tue, Dec 13, 2022 1:00 PM - 2:00 PM EST

.: All Things Photonics Metalenz co-founder and CEO Rob Devlin recounts a decade of progress in the field of meta-optics, culminating in his company's rollout of commercial products and technology offerings. Devlin's

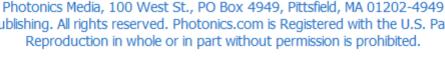
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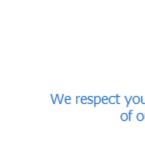


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