



.: Top Stories

Surgery Outcomes

FELs

Researchers from Tohoku University, in collaboration with other institutions including Osaka University, set out to determine whether

Photonic Crystals Imitate Gravitational Effects on Light

lattice distortion in photonic crystals could produce the effects of pseudogravity. They experimentally demonstrated pseudogravity in the terahertz range. Read Article

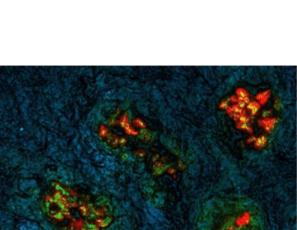


without damaging the surrounding healthy tissue. Yet surgeons often must rely on their eyes and hands to determine where to cut.

Fluorescence Lifetime Imaging Could Improve Cancer

Extreme precision is required to surgically remove a cancerous tumor

Fluorescence lifetime (FLT) imaging, developed at Mass General Brigham by researchers who collaborated with several other institutions to evaluate the technique, could improve the precision of cancer surgeries. Read Article



that are compact and relatively convenient to use. Coherent light sources such as free-electron lasers (FELs) provide super-bright beams

radiation physics, with the goal of creating super-bright light sources

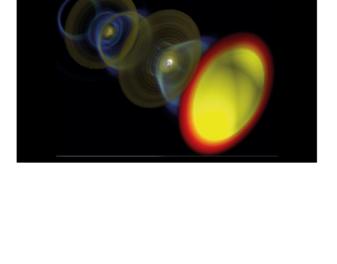
An international team of scientists is rethinking the principles of

Quasiparticle Light Source Could Rival Super-Brightness of

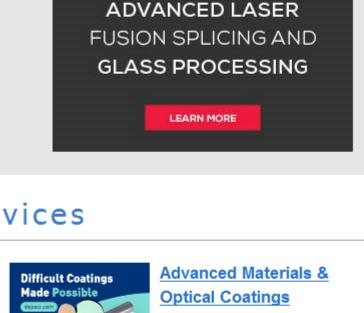
for studying biological, chemical, and physical phenomena. Although these super-bright sources can enhance the imaging for many applications from drug development to chip-making, their massive size and scarcity make them impractical for most laboratories, hospitals, and businesses. Read Article

Difficult coatings

made possible.





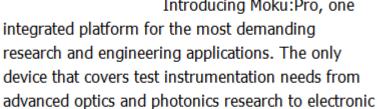


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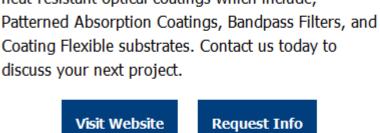
component test, Moku:Pro elevates experiments

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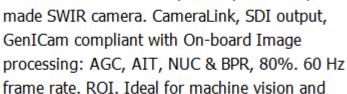
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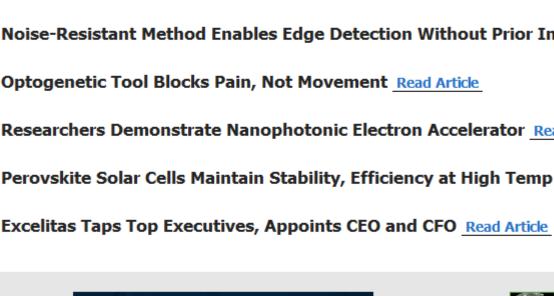
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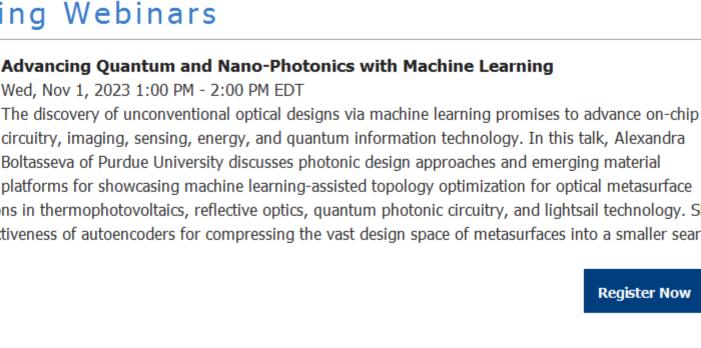
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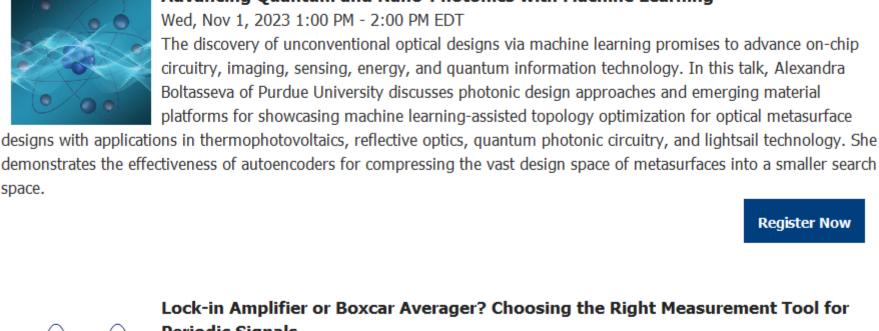
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Periodic Signals Thu, Nov 2, 2023 11:00 AM - 12:00 PM EDT When it comes to analyzing periodic signals, selecting the appropriate measurement tool is crucial for achieving accurate and meaningful results. Gustavo Ciardi, Ph.D, an application scientist for optics and

amplification and boxcar averaging, to help individuals make informed decisions in their measurement endeavors.

ensuring the highest precision in measurements. Presented by Zurich Instruments.

Additionally, he shares how to gain a deeper understanding of the techniques' strengths, weaknesses, and the scientific contexts in which they excel. He aims to empower attendees with the knowledge needed to maximize signal-to-noise ratio,

photonics at Zurich Instruments, delves into the theory behind two powerful techniques, lock-in

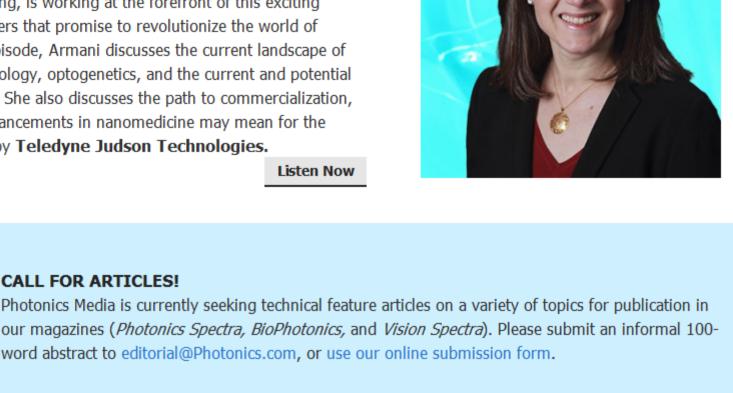
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Photonic technologies like lab-on-a-chip are taking out a lot of the

.: All Things Photonics

head-scratching and tedium that goes along with traditional diagnostic methods, giving patients and clinicians access to technology that is cheaper, quicker, and often more reliable. Andrea Armani, the Ray Irani Chair in Engineering and Materials Science at the USC Viterbi School of Engineering, is working at the forefront of this exciting technology and others that promise to revolutionize the world of medicine. In this episode, Armani discusses the current landscape of lab-on-a-chip technology, optogenetics, and the current and potential capabilities of both. She also discusses the path to commercialization, and what these advancements in nanomedicine may mean for the future. Sponsored by **Teledyne Judson Technologies.** Listen Now







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