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A sub-picometer resolution spectrometer in a compact package.

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Devices

Kidneys

Electric Field A nano-size, organic molecular device that can detect and manipulate

Cell-Located Device Makes Noninvasive Assessments of

its surrounding bioelectric field opens possibilities in biophotonics, specifically in wound healing and in the fight against diseases. The triangle-shaped device is made of two small, connected molecules that, together, are much smaller than a virus and similar in diameter to a DNA strand. Read Article



Researchers at the Korea Institute of Science and Technology (KIST) and Yonsei University are laying the groundwork for 3D digital

Sensor Could Make 3D Holograms a Feature in Mobile

holography on mobile devices. The group designed a photodiode that detects the polarization of light in the near-infrared region without the need for additional filters. Using this device, the researchers demonstrated miniaturized holographic image sensors for 3D digital holograms. Read Article



and the Changhai Hospital of Shanghai used label-free surface-

Researchers at the University of Shanghai for Science and Technology

Spectroscopy Method Could Raise Number of Viable Donor

enhanced Raman scattering (SERS) spectroscopy to quantitatively assess donor kidney quality, reportedly for the first time. The technique could be a valuable tool for clinicians to check donor kidney quality prior to transplantation, and to diagnose kidney problems in patients. Read Article



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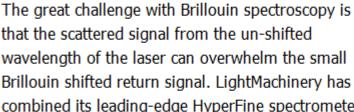
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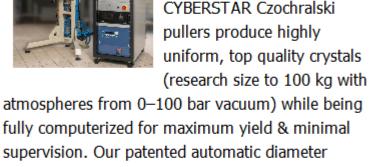
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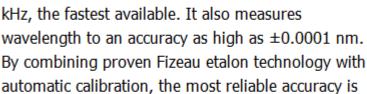
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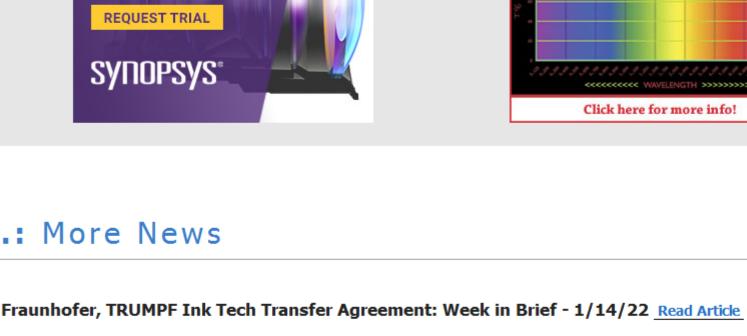


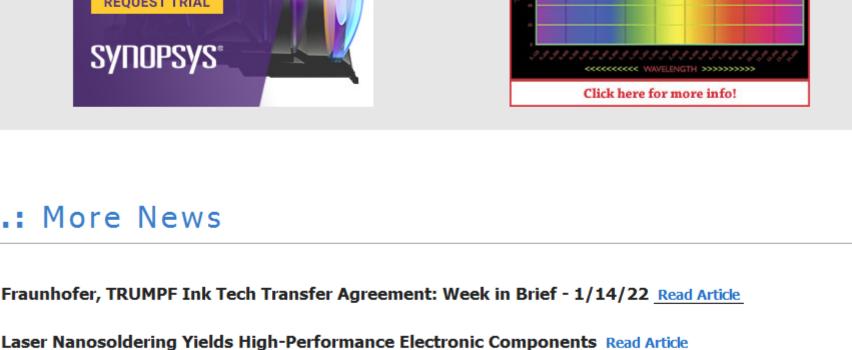
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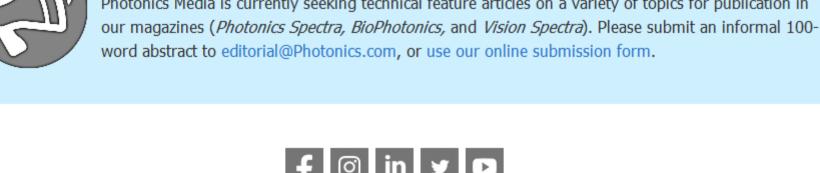
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