



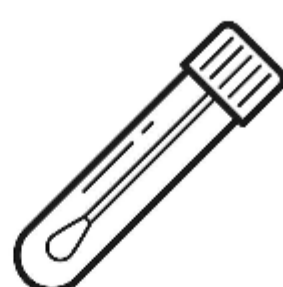
TECH PULSE

Spectroscopy Tech Pulse is a special edition newsletter from Photonics Media covering key developments in spectroscopy technology. Manage your Photonics Media membership at [Photonics.com/subscribe](https://Photonics.com/subscribe).



**Photoelectrochemical Sensor Tests for Coronavirus in Minutes**

Scientists in Spain have designed a photoelectrochemical aptasensor to quickly detect coronavirus using a saliva sample. The sensor device, developed by a research team at the Universidad Carlos III de Madrid (UC3M), obtains quantitative measurements of the severe acute respiratory syndrome coronavirus-2 receptor-binding domain (SARS-CoV-2 RBD)



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**Startup Integrates Research-Grade Brain Imaging into Wearable Cap**

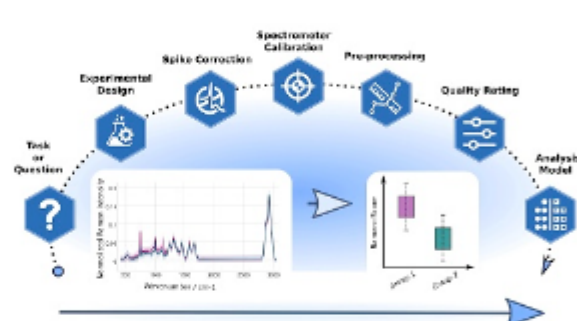
Neurotechnology company Kernel has developed a wearable headset device for brain measurement. The device, called Kernel Flow, is based on time-domain functional near-infrared spectroscopy (TD-fNIRS) — considered the gold standard for noninvasive optical brain imaging devices.



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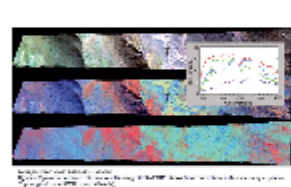
**Protocol Aims to Standardize Raman Spectral Analysis**

To maximize the value of AI analysis for spectral data, a research team in Germany has developed a guide for Raman spectral analysis. The guide covers each step in the analytical process, from experimental design to statistical analysis. The standards will make it easier for scientists to use Raman spectroscopy for real-world applications in biology, diagnostics, food safety, pharmaceuticals, and other fields.



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**Featured Products**



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**More News**

**Simultaneous Insights into Cell's Chemical, Physical Makeup Come into View**

Building on its previously-introduced method of mid-infrared photothermal (MIP) microscopy, a team at Boston University has introduced mid-IR photothermal dynamic imaging (PDI). Compared to MIP microscopy, PDI provides better signal-to-noise ratio (SNR) and imaging speed, and delivers information from a sample that is currently unattainable from current photothermal microscopy.

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**Spectroscopy Method Could Raise Number of Viable Donor Kidneys**

Researchers at the University of Shanghai for Science and Technology and the Changhai Hospital of Shanghai used label-free surface-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.

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**TRIOPTICS' CEO Stepping Down**

Eugen Dumitrescu will step down as CEO of TRIOPTICS effective April 1. Kristin Holzhey, who has served as managing director of OTTO Vision Technology GmbH since 2019 and has been directing the integration of the TRIOPTICS Group into the Jenoptik Group since 2020, will become CEO of the company.

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