

Researchers develop the smallest spectrometer that is one thousand times thinner than a human hair. It could enable assessing the quality of drugs, freshness of foods, and much more, ...

Researchers have successfully demonstrated a spectrometer that is orders of magnitude smaller than current technologies and can accurately measure wavelengths of light from ultraviolet to ...

A groundbreaking development from North Carolina State University is set to revolutionize the field of spectroscopy. Researchers have created the world's smallest spectrometer, measuring ...

What was the biggest challenge in developing a spectrometer at such a small scale - and how did you overcome it? What's nice about this design is that it is a single photodetector with ...

In 2019, Yang demonstrated the world's smallest spectrometer based on the proposed principles. He replaced dispersive and collimating elements such as prisms and mirrors with nanowire.

Discover how the NSP32m nano-spectrometer module is enabling breakthrough applications in IoT devices, wearable technology, and precision sensing systems.

Challenging that limitation, a team at NC State has now created a working prototype that is just a few square millimeters in size, small enough to sit on a phone or even function as a single...

Researchers have developed a groundbreaking spectrometer that is significantly smaller than existing models, yet still capable of precisely detecting light wavelengths across a broad ...

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