

Lithuanian Intelligent Spectrometer





Lithuanian Intelligent Spectrometer



Imaging-based intelligent spectrometer on a plasmonic rainbow chip

Abstract Compact, lightweight, and on-chip spectrometers are required to develop portable and handheld sensing and analysis applications. However, the performance of these miniaturized

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Imaging-based intelligent spectrometer on plasmonic 2d chip and method Download PDF

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Spectrometer Manufacturers

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A spectrometer on a chip system (200/1100) includes a plasmonic chip (800) configured to have first plural grooves (804) and second plural grooves (806), formed at a non-zero angle relative to the first

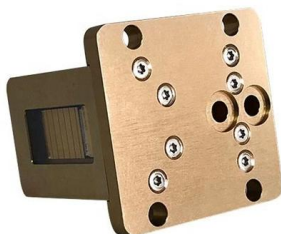
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Optical spectrometer - Lithuanian Energy Institute

The determination of flames and plasma flow emission spectra and elemental composition using an optical spectrometer. Spectral range: 250-800 nm. Minimal wavelength step: 0.02-0.2 nm.

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Scientific Program , Lithuania Mass Spectrometry Events , Mass

Abstract For the application of mass spectrometry in different areas the automatic intelligent spectrometer signal analysis methods are necessary. These methods should be robust

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Tender lithuania

This tender with title Lithuania - Spectrometers - Inductively coupled plasma optical emission spectrometer system - 289693-2024 has been published on Bidding Source portal dated 20 May

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Dual-Functional Intelligent Spectrometer Using a Plasmonic Rainbow

Here, we report a plasmonic "rainbow" chip for dual-functional spectroscopic sensing. By analyzing a single image with deep neural network, this image-based sys.

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Imaging-based intelligent spectrometer on a plasmonic rainbow chip

Here, we develop a compact plasmonic "rainbow" chip for rapid, accurate dual-functional spectroscopic sensing that can surpass conventional portable spectrometers under selected conditions.

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A plasmonic "rainbow" chip for intelligent spectrometer

Here we report a plasmonic "rainbow" chip for spectroscopic sensing. By analyzing a single image with deep neural network, this image-based system can precisely determine the

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SmartSpectrometer

Cost-effective modular quality and process control: The intelligent spectrometer system "SmartSpectrometer" enables the monitoring of quality-relevant material

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A plasmonic "rainbow" chip for intelligent spectrometer

Here we report a plasmonic "rainbow" chip for spectroscopic sensing. By analyzing a single image with deep neural network, this image-based system can precisely determine the spectroscopic and

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A plasmonic "rainbow" chip for intelligent



spectrometer

Request PDF , A plasmonic "rainbow" chip for intelligent spectrometer , Here we report a plasmonic "rainbow" chip for spectroscopic sensing. By analyzing a single image with deep neural

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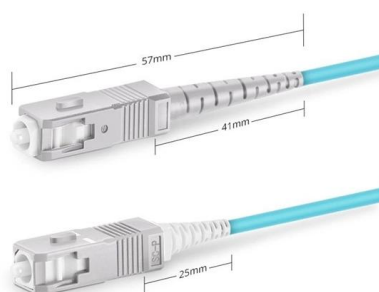
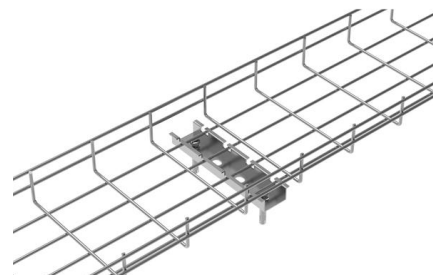
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Plasmonic-based "rainbow" Chip for Intelligent Spectrometer

In this talk, I will discuss a plasmonic "rainbow" trapping metasurface for on-chip spectrometers and sensors. By extracting the numerical centroid of the trapped surface plasmon waves, a miniaturized

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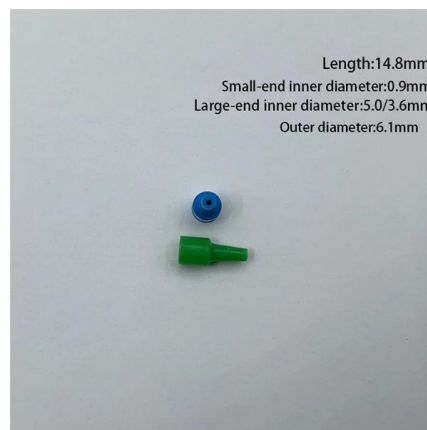
Imaging-based intelligent spectrometer on a plasmonic rainbow chip

The authors develop an imaging-based intelligent spectrometer on a plasmonic "rainbow" chip. It can accurately and precisely determine the spectroscopic and polarimetric information of the illumination

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Imaging-based intelligent spectrometer on a plasmonic rainbow chip

Abstract Compact, lightweight, and on-chip spectrometers are required to develop portable and handheld sensing and analysis applications. However, the performance of these miniaturized systems is

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Artificial Intelligence in Spectroscopy: Advancing Chemistry from

Abstract The rapid advent of machine learning (ML) and artificial intelligence (AI) has catalyzed major transformations in chemistry, yet the application of these methods to spectroscopic and

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The technology, the Concurrent Artificially-intelligent Spectrometry and Adaptive Lidar System (CASALS), will provide high-priority measurements which support scientific studies and societal

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Spectrometers from Manufacturers in Lithuania

14 Spectrometers from 2 manufacturers listed on GoPhotonics. Search by specification. Selected filters - Country : Lithuania, Page-1

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Imaging-based intelligent spectrometer on a plasmonic rainbow chip

Here we report an intelligent on-chip spectrometer by integrating an on-chip rainbow trapping phenomenon with a compact optical imaging system.

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