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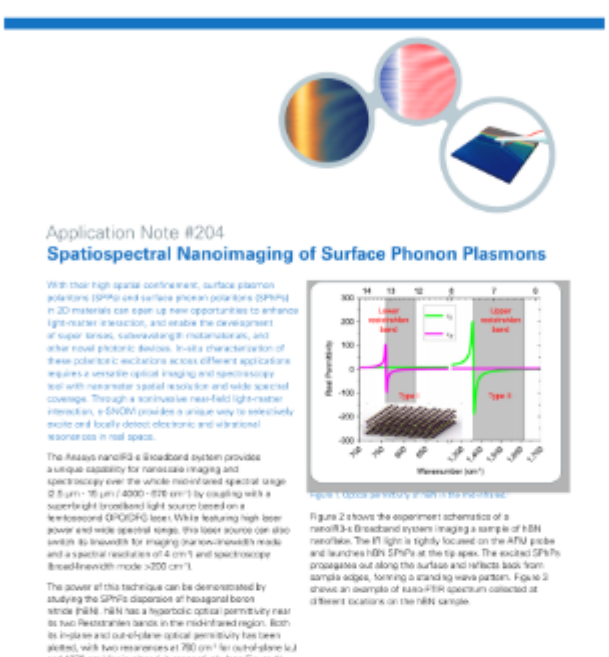

Spatiospectral Nanoimaging of Surface Phonon Plasmons

Surface plasmon polaritons (SPPs) in 2D materials enhance light-matter interaction and enable development of super lenses, subwavelength metamaterials, and other photonic devices. In-situ characterization of polaritonic excitations requires a versatile optical imaging and spectroscopy tool with nanometer spatial resolution and wide spectral coverage. The nanoIR3-s Broadband system provides a unique capability for nanoscale imaging and spectroscopy over the whole mid-infrared spectral range.

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