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Laser-combined scanning tunneling microscopy

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The comprehensive knowledge of the mechanism involved in the charge carrier separation in nanoscale structures is of high interest regarding applications and fundamental researches. A microscopy technique that enables the visualization of subpicosecond carrier dynamics in nanometer-scale structures is laser-combined scanning tunneling microscopy [1]. OptoPulSTM simultaneously realizes STM spatial resolution together with the temporal resolution of the optical pump–probe technique.

1. Terada, Y., Yoshida, S., Takeuchi, O. et al. Nature Photon 4, 869-874 (2010)

Topics

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