Laser-Excited Inelastic Photoemission

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Background
Development of a novel technique to measure surface vibrational dynamics with high energy-, temporal-, momentum-resolution

Aim
There is no technique to probe the low energy vibrational mode of surface adsorbate with high temporal resolution.

Advanced Research Topics

Vibrationally induced inelastic photoemission has been found
Propensity rules for vibrational excitation by emitted photoelectron has been proposed.

Chase the vibrational dynamics of the adsorbed molecule on the solid surface with picosecond temporal resolution.

Publications