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[Speciality] Photochemistry and Photophysics

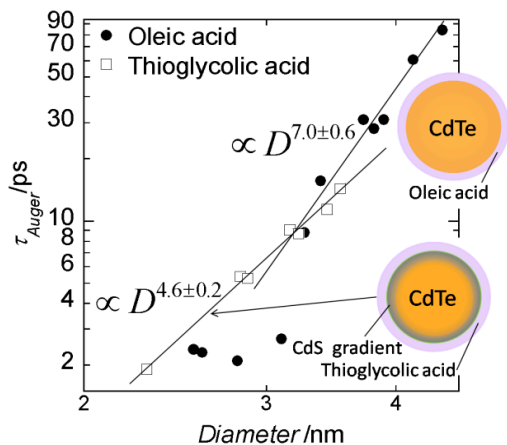
[Keywords] Quantum Dot, Single Particle Spectroscopy,
Microspectroscopy,

[Research Subject] Femtosecond Near-Infrared Spectroscopy and Single Particle Spectroscopy Based on Electron as a Probe for Interfacial Functions

Research Group Activity

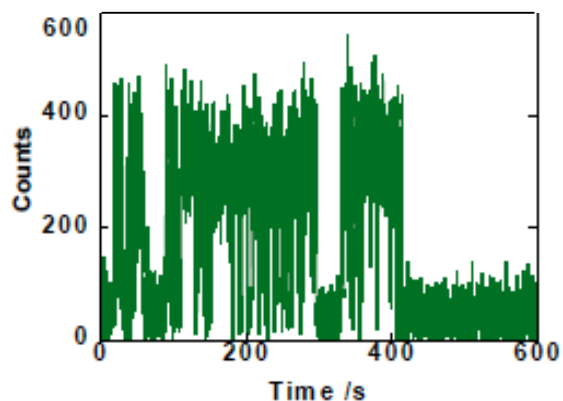
- Synthesis and Time-resolved Spectroscopy of Semiconductor Nanomaterials

Auger and inverse Auger effect by femtosecond spectroscopy



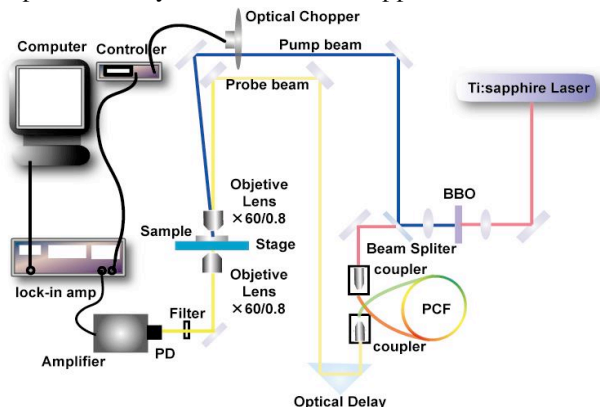
- Single Spectroscopy of Semiconductor Nanomaterials

Blinking dynamics of a single QDs and environmental effects



- Development of High-sensitive Broad-band Microspectroscopy

pump-probe microspectroscopy by using photonic crystal fiber and its application



- Space and Time-resolved Spectroscopy of Plasmonic Systems

Coherent phonon oscillation of plasmonic systems and the effect of Plasmon coupling

