Advanced Fluorescence Spectroscopy(C568)


Fluorophores: Intrinsic or Natural Fluorophores; Fluorescence Enzyme Cofactors, Extrinsic Fluorophores; Protein-Labeling Reagents, Membrane Probes, Red and Near-Infrared (NIR) Dyes, DNA Probes, Chemical Sensing Probes, Viscosity Probes, Green Fluorescent Proteins, Long-Lifetime Probes. Quantum Dots. (4)


Multiphoton Excitation: Introduction to Multiphoton Excitation, Two-Photon Absorption Spectra, Cross Section for Multi-photon Absorption. (3)


Fluorescence Correlation Spectroscopy(FCS): Principles of Fluorescence Correlation Spectroscopy, Theory of FCS, Examples of FCS Experiments. (3)


Recommended Books