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Single molecules in soft matter : a study of biomolecular conformation, heterogeneity and plasmon enhanced fluorescence

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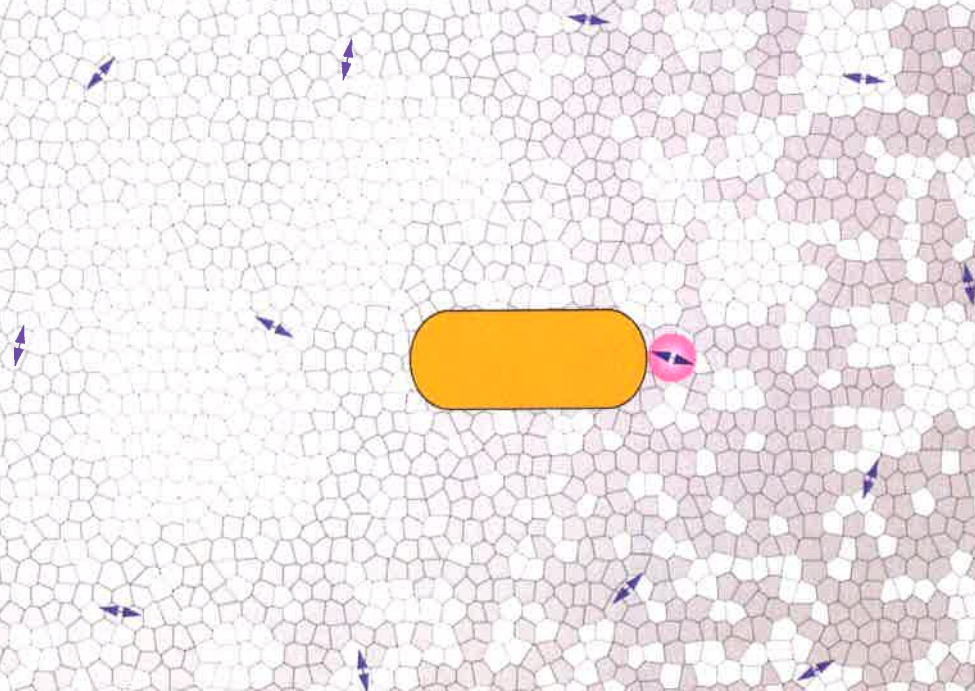
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Single Molecules in Soft Matter:
A Study of Biomolecular Conformation,
Heterogeneity and Plasmon Enhanced Fluorescence



Haifeng Yuan

Soft matter glycerol FRET spectra rotation solid-like rotation Supercooled liquids length scales
Heterogeneity
 Gold nanorods spectroscopy polyproline folding polyproline Heterogeneity length scales Microscopy dsDNA
 Soft matter temperature-cycle Conformation Crossover temperature dsDNA
temperature-cycle
 dynamics Glass transition emission enhancement Supercooled liquids correlation Gold nanorods Microscopy spectra glycerol dye-dye interaction
 Conformation fluorescence lifetime Plasmon enhanced fluorescence
 Plasmon enhanced fluorescence neutron-scattering correlation Single molecules spectroscopy viscosity
FRET **Single molecules** surface plasmon reaction Crossover temperature inter-dye distance

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