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β -blockers

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1-[4-(Trimethylammonium)phenyl]-6-phenylhexa-1,3,5-triene (TMA-DPH)

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Conformational transitions

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Conformational transition; Electrochemical reaction of protein; In-situ thin layer circular dichroism spectroelectrochemistry; Bovine serum albumin (Zhu, Y. (90) 1)

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Molecular dynamics; Essential dynamics; Concerted motions (Arcangeli, C. (90) 45)

Entropy production

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Enzymes

Humans; Lipoxygenase; Microgravity; Plants; Catalysis (Macarrone, M. (90) 97)

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BSA; DMPC vesicles; Laurylmaltoside micelles (Madhavarao, C.N. (90) 233)

Fluorescence anisotropy

Bovine serum albumin (BSA); Dimyristoylphosphatidylcholine (DMPC); Gelatin (Madhavarao, C.N. (90) 147)

Fluorescence anisotropy

Fluorescence microscopy; Giant vesicle; Lipid membrane; Surface diffusion; Rotational diffusion; Monte Carlo simulation (Krishna, M.M.G. (90) 123)

Fluorescence excitation transfer spectroscopy

NADH; Folding; Conformation (Hull, R.V. (90) 9)

Fluorescence microscopy

Giant vesicle; Lipid membrane; Surface diffusion; Rotational diffusion; Monte Carlo simulation; Fluorescence anisotropy (Krishna, M.M.G. (90) 123)

Folding

Conformation; Fluorescence excitation transfer spectroscopy; NADH (Hull, R.V. (90) 9)

Gelatin

Fluorescence anisotropy; Bovine serum albumin (BSA); Dimyristoylphosphatidylcholine (DMPC) (Madhavarao, C.N. (90) 147)

Giant vesicle

Lipid membrane; Surface diffusion; Rotational diffusion; Monte Carlo simulation; Fluorescence anisotropy; Fluorescence microscopy (Krishna, M.M.G. (90) 123)

Hemocyanin

Urate; Cooperativity; Isothermal titration calorimetry; Allosteric interaction; Nesting model (Hellmann, N. (90) 279)

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Bovine serum albumin; Disulfides; Conformational transition; Electrochemical reaction of protein (Zhu, Y. (90) 1)

Intermittency

Complex calcium oscillations; Bursting; Chaos (Haberichter, T. (90) 17)

Interpenetrating protein folding

Bio-rheology; Computer simulation; Viscoelastic protein; Protein self-assembly (Arêas, E.P.G. (90) 135)

Ion binding

Hydration, Poisson–Boltzmann equation; Counterion condensation; Saturation effect; Polyelectrolyte (Rödenbeck, M. (90) 255)

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Lipid hydration; Divalent cations; Membrane fusion (Binder, H. (90) 57)

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Laurdan

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Laurylmaltoside micelles

Fluorescence anisotropy; BSA; DMPC vesicles (Madhavarao, C.N. (90) 233)

Ligand

NMR; DNA; Drug; Chemical shift; Netropsin (LaPlante, S.R. (90) 219)

Limiting activity coefficient

Protein unfolding; Aqueous denaturant solvent; Non-polar solute; Hydrophobic hydration model; Preferential solvation (Dohnal, V. (90) 183)

Lipid hydration

Divalent cations; Membrane fusion; IR linear dichroism (Binder, H. (90) 57)

Lipid membrane

Surface diffusion; Rotational diffusion; Monte Carlo simulation; Fluorescence anisotropy; Fluorescence microscopy; Giant vesicle (Krishna, M.M.G. (90) 123)

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Membrane fusion

IR linear dichroism; Lipid hydration; Divalent cations (Binder, H. (90) 57)

Microgravity

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Mixed micelles

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Molecular dynamics

Essential dynamics; Concerted motions; Electron transfer proteins (Arcangeli, C. (90) 45)

Monoolein bilayer

Bicontinuous cubic phase; X-Ray diffraction; Raman spectroscopy; Cyclic AMP; Dibutyl cyclic AMP (Razumas, V. (90) 75)

Monte Carlo simulation

Fluorescence anisotropy; Fluorescence microscopy; Giant vesicle; Lipid membrane; Surface diffusion; Rotational diffusion (Krishna, M.M.G. (90) 123)

Na⁺ binding

Serine proteases; Cation– π interaction (Griffon, N. (90) 89)

NADH

Folding; Conformation; Fluorescence excitation transfer spectroscopy (Hull, R.V. (90) 9)

Nesting model

Hemocyanin; Urate; Cooperativity; Isothermal titration calorimetry; Allosteric interaction (Hellmann, N. (90) 279)

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Ligand; NMR; DNA; Drug; Chemical shift (LaPlante, S.R. (90) 219)

NMR

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Partition coefficients

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Protein fluorescence; Tryptophan environments; Excited-state energy transfer; Steady-state and time-resolved spectroscopy (Ercelen, S. (90) 203)

Peptide–lipid interaction

Membrane biophysics; Electric charge effects; Pore formation; Mass conservation plot; Binding signal analysis (Schwarz, G. (90) 269)

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Photosynthetic efficiency; Plant cell wall; Entropy production; Diffusion processes (Andriesse, C.D. (90) 249)

Photosynthetic efficiency

Plant cell wall; Entropy production; Diffusion processes; Photosynthesis (Andriesse, C.D. (90) 249)

Plant cell wall

Entropy production; Diffusion processes; Photosynthesis; Photosynthetic efficiency (Andriesse, C.D. (90) 249)

Plants

Catalysis; Enzymes; Humans; Lipoxygenase; Microgravity (Maccarrone, M. (90) 97)

Polyelectrolyte

Ion binding; Hydration, Poisson–Boltzmann equation; Counterion condensation; Saturation effect (Rödenbeck, M. (90) 255)

Pore formation

Mass conservation plot; Binding signal analysis; Peptide–lipid interaction; Membrane biophysics; Electric charge effects (Schwarz, G. (90) 269)

Pore-forming proteins

Conformational transitions; CD spectroscopy; Volume; Compressibility; Equinatoxin II (Poklar, N. (90) 103)

Preferential solvation

Limiting activity coefficient; Protein unfolding; Aqueous denaturant solvent; Non-polar solute; Hydrophobic hydration model (Dohnal, V. (90) 183)

Protein fluorescence

Tryptophan environments; Excited-state energy transfer; Steady-state and time-resolved spectroscopy; Penicillin acylase (Ercelen, S. (90) 203)

Protein self-assembly

Interpenetrating protein folding; Bio-rheology; Computer simulation; Viscoelastic protein (Arêas, E.P.G. (90) 135)

Protein unfolding

Aqueous denaturant solvent; Non-polar solute; Hydrophobic hydration model; Preferential solvation; Limiting activity coefficient (Dohnal, V. (90) 183)

Raman spectroscopy

Cyclic AMP; Dibutyl cyclic AMP; Monoolein bilayer; Bicontinuous cubic phase; X-Ray diffraction (Razumas, V. (90) 75)

Rotational diffusion

Monte Carlo simulation; Fluorescence anisotropy; Fluorescence microscopy; Giant vesicle; Lipid membrane; Surface diffusion (Krishna, M.M.G. (90) 123)

Saturation effect

Polyelectrolyte; Ion binding; Hydration, Poisson–Boltzmann equation; Counterion condensation (Rödenbeck, M. (90) 255)

Serine proteases

Cation– π interaction; Na^+ binding (Griffon, N. (90) 89)

Solubility

Mixed micelles; β -blockers; Partition coefficients; Bile salts (de Castro, B. (90) 31)

Steady-state and time-resolved spectroscopy

Penicillin acylase; Protein fluorescence; Tryptophan environments; Excited-state energy transfer (Ercelen, S. (90) 203)

Stochastic resonance

Liquid membrane; Oscillation (Qi, F. (90) 175)

Surface diffusion

Rotational diffusion; Monte Carlo simulation; Fluorescence anisotropy; Fluorescence microscopy; Giant vesicle; Lipid membrane (Krishna, M.M.G. (90) 123)

Tamoxifen

1,6-Diphenyl-1,3,5-hexatriene (DPH); 1-[4-(Trimethylammonium)phenyl]-6-phenylhexa-1,3,5-triene (TMA-DPH); Laurdan; Differential scanning calorimetry (DSC); Carboxyfluorescein leakage (Engelke, M. (90) 157)

Tryptophan environments

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Urate

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