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Aminoacyl-tRNA synthetase

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Consensus structure

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Bacteriorhodopsin; Femtosecond time-resolved fluorescence; Proton pump photoisomerization; Spontaneous emission (Du, M. (48) 101)

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Ferredoxin NADP⁺ reductase

Redox proteins; Transient kinetics; Ferredoxin; Plastocyanin; Flavocytochrome b₂; Sulfite oxidase (Tollin, G. (48) 259)

Flavin

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Flavocytochrome b₂

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Lifetime; Tryptophan; Quenching; Protein; Coiled-coil model (Chang, Y.-c. (48) 49)

Staphylococcal nuclease; Resonance energy transfer; Compact denatured state; Circular dichroism (Wu, P.G. (48) 123)

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Protein-protein interactions; Protein folding; Alloprotein; Aminoacyl-tRNA synthetase (Hogue, C.W.V. (48) 159)

Fluorescence depletion

Rotation; Protein; Anisotropy (Londo, T.R. (48) 241)

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Binary mixtures; Association processes; Thermotropic behaviour (Popescu, D. (48) 369)

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Charge-coupled-device camera; Microchannel plate image intensifier; Heterodyne; Fluorescence lifetime imaging microscopy (Gadella, Jr., T.W.J. (48) 221)

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Time-resolved fluorescence; Highly quenched systems; Optical cell; New cuvette (Gryczynski, Z. (48) 31)

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Human superoxide dismutase; Time-resolved fluorescence; Conformational substates; Molten globule state (Silva, Jr., N. (48) 171)

Global compartmental analysis approach

Intramolecular two-state excited-state processes; Fluorescence decay surface; Rate constants; Kinetic analysis (Boens, N. (48) 301)

Heterodyne

Charge-coupled-device camera; Microchannel plate image intensifier; Frequency domain; Fluorescence lifetime imaging microscopy (Gadella, Jr., T.W.J. (48) 221)

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Chloroplasts; Membranes; Photovoltaic effect (Meszéna, G. (48) 321)

Highly quenched systems

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Human superoxide dismutase

Time-resolved fluorescence; Global analysis; Conformational substates; Molten globule state (Silva, Jr., N. (48) 171)

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Tubulin; Ligand binding; TNP-ATP; Interaction (Rai, S.S. (48) 359)

Interaction

Tubulin; Ligand binding; TNP-ATP; Inhibition (Rai, S.S. (48) 359)

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Micro-spectrophotometry; Phenol red; Myoball; Nigericin; Light scattering (Sun, H. (48) 91)

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Tryptophan; Staphylococcal nuclease; Time-resolved fluorescence (Demchenko, A.P. (48) 39)

Intramolecular two-state excited-state processes

Fluorescence decay surface; Rate constants; Kinetic analysis; Global compartmental analysis approach (Boens, N. (48) 301)

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Intramolecular two-state excited-state processes; Fluorescence decay surface; Rate constants; Global compartmental analysis approach (Boens, N. (48) 301)

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Fluorescence; Tryptophan; Quenching; Protein; Coiled-coil model (Chang, Y.-c. (48) 49)

Ligand binding

Tubulin; TNP-ATP; Inhibition; Interaction (Rai, S.S. (48) 359)

Light scattering

Micro-spectrophotometry; Phenol red; Intracellular pH (pH_i); Myoball; Nigericin (Sun, H. (48) 91)

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Time-resolved fluorescence; Fractal analysis; Percolation model (Lianos, P. (48) 293)

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Lipid-protein interaction

Protein kinase C; Pyrene; Micelles; Fluorescence resonance energy transfer (Bastiaens, P.I.H. (48) 183)

Liposomes

Multivalency; Fokker-Planck equation; Mean first passage time (Plant, A.L. (48) 75)

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Mean first passage time

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Membranes

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Control analysis; Modular approach; Steady-state modeling; Oxidative phosphorylation; Protein synthesis (Schuster, S. (48) 1)

Metal ions

Energy transfer; Perylene; Lipid bilayers (Holmes, A.S. (48) 193)

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Charge-coupled-device camera; Heterodyne; Frequency domain; Fluorescence lifetime imaging microscopy (Gadella, Jr., T.W.J. (48) 221)

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Control analysis; Metabolic pathways; Steady-state modeling; Oxidative phosphorylation; Protein synthesis (Schuster, S. (48) 1)

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Solvent dynamics; Raman; Bandwidth; Poly(rA) (Terpstra, P.A. (48) 113)

Molten globule state

Human superoxide dismutase; Time-resolved fluorescence; Global analysis; Conformational substates (Silva, Jr., N. (48) 171)

Multivalency

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Myoball

Micro-spectrophotometry; Phenol red; Intracellular pH (pH_i); Nigericin; Light scattering (Sun, H. (48) 91)

Na,K-ATPase

Protein dynamics; Ultraviolet fluorescence; Dipolar relaxations; Red-edge effects; Time-resolved spectroscopy (Demchenko, A.P. (48) 135)

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Fluorescence; Refractive index; Lipid membranes; Orientational order; Diphenylhexatriene (Toptygin, D. (48) 205)

New cuvette

Time-resolved fluorescence; Highly quenched systems; Front-face optics; Optical cell (Gryczynski, Z. (48) 31)

Nigericin

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Perylene

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Redox proteins; Transient kinetics; Ferredoxin; Ferredoxin NADP⁺ reductase; Flavocytochrome b₂; Sulfite oxidase (Tollin, G. (48) 259)

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Poly (dA) · poly (dT)

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Poly d(AT)

Berenil; Poly (dA) · poly (dT); Differential scanning calorimetry; UV absorbance spectroscopy; Scatchard plot (Schmitz, H.-U. (48) 61)

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Promoters

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Protein kinase C

Pyrene; Micelles; Lipid-protein interaction; Fluorescence resonance energy transfer (Bastiaens, P.I.H. (48) 183)

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Protein unfolding

Folding intermediate; Tryptophan phosphorescence; Time-resolved phosphorescence (Mersol, J.V. (48) 281)

Proton pump photoisomerization

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Fluorescence; Lifetime; Tryptophan; Protein; Coiled-coil model (Chang, Y.-c. (48) 49)

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Resonance energy transfer

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Rotation

Protein; Fluorescence depletion; Anisotropy (Londo, T.R. (48) 241)

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DPH-phospholipids; Fluorescence lifetime distribution; Maximum entropy method (Pap, E.H.W. (48) 337)

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Berenil; Poly d(AT); Poly (dA)·poly (dT); Differential scanning calorimetry; UV absorbance spectroscopy (Schmitz, H.-U. (48) 61)

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