

SUBJECT INDEX TO VOLUME 15 (1982)

- Acetylcholinesterase**
Immobilized enzyme; Substrate inhibition; Cellular excitation; Membrane potential; (Oscillation) (Chay, T.R.) 9
- Actin**
Pyrene; Excimer fluorescence; Nanosecond-pulse fluorimetry; Fluorescence lifetime (Lin, T.-I.) 289
- Activation volume**
Peroxidase; Pressure effect; (Horseradish) (Ralston, I.M.) 15
- Activity modulation**
Enzyme-membrane system; Direct current (Valleton, J.M.) 235
- Alkylated uracil**
Mass spectrometry; Hydration; Enthalpy (Sukhdub, L.F.) 149
- 5-Alkyluracil**
Solution enthalpy; Sublimation enthalpy; Hydration enthalpy; Hydrophobic hydration (Teplitsky, A.B.) 139
- 2-Aminopurine riboside**
Fluorescence quenching; ESR; Self-association; 2-Aminopurine riboside phosphate (Gajewska, J.) 191
- 2-Aminopurine riboside phosphate**
Fluorescence quenching; ESR; Self-association; 2-Aminopurine riboside (Gajewska, J.) 191
- Amphiflavlin radical**
Phospholipid vesicle; Lipid phase transition; EPR; Solvatochromy; Flavin anisotropy (Michel, H.) 121
- Anesthetic**
Membrane permeability; Membrane compressibility; Phase transition (O'Leary, T.J.) 299
- Antitumor drug**
DNA structure; Mutagen; Raman spectroscopy; Methylmercury(II); Dichlorodiammineplatinum(II) (O'Connor, T.) 223
- Association**
Diffusion; Rate enhancement; DNA binding; Sliding mechanism (Berg, O.G.) 41
- Base sequence**
Oligonucleotide; Electrostatic potential; Steric accessibility (Lavery, R.) 343
- Bohr proton**
Microenvironmental effect; Excitable membrane (Chay, T.R.) 271
- Cellular excitation**
Immobilized enzyme; Acetylcholinesterase; Substrate inhibition; Membrane potential; (Oscillation) (Chay, T.R.)
- C-form DNA**
Raman spectroscopy; DNA denaturation; DNA structure (O'Connor, T.) 53
- Charge mobility**
Voltage clamp; Na⁺ current; Dielectric relaxation; Intramembrane diffusion (Rubinson, K.A.) 245
- Conformational change**
Raman spectroscopy; Poly(acrylic acid); Ion binding (Koda, S.) 65
- Cytochrome c**
Electron transfer; Dielectric constant; Tunneling effect; Oxidoreduction (Fragata, M.) 111
- Denaturation**
Tryptophan fluorescence; Parvalbumin; (Whiting) (Permyakov, E.A.) 19
- Dichlorodiammineplatinum(II)**
DNA structure; Antitumor drug; Mutagen; Raman spectroscopy; Methylmercury(II) (O'Connor, T.) 223
- Dielectric constant**
Cytochrome c; Electron transfer; Tunneling effect; Oxidoreduction (Fragata, M.) 111
- Dielectric relaxation**
Voltage clamp; Na⁺ current; Charge mobility; Intramembrane diffusion (Rubinson, K.A.) 245
- Differential-wavelength deconvolution**
Tryptophan fluorescence; Solvent relaxation (Lakowicz, J.R.) 353
- Diffusion**
Association; Rate enhancement; DNA binding; Sliding mechanism (Berg, O.G.) 41
- Dipole moment**
DNA; Electric birefringence; Restriction fragment (Stellwagen, N.C.) 311
- Direct current**
Enzyme-membrane system; Activity modulation (Valleton, J.M.) 235
- DNA**
Polarizability; Electric dichroism; Polyelectrolyte; Orientation mechanism (Diekmann, S.) 157
Electric dichroism; DNA bending; Rotational diffusion; Persistence length (Diekmann, S.) 263
Electric birefringence; Restriction fragment; Dipole moment (Stellwagen, N.C.) 311
- DNA bending**
DNA; Electric dichroism; Rotational diffusion; Persistence length (Diekmann, S.) 263
- DNA binding**
Prothidium dibromide; DNA-drug binding; X-ray diffraction; Linear dichroism; Intercalation (Dougherty, G.) 27

Diffusion; Association; Rate enhancement; Sliding mechanism (Berg, O.G.)	41	Orosomucoid; Progesterone; Propanolol; Thermodynamics; Ligand binding (Kirley, T.L.)	209
DNA denaturation		Excimer	
Raman spectroscopy; DNA structure; C-form DNA (O'Connor, T.)	53	Tropomyosin; Pyrene; Nanosecond-pulse fluorimetry; Fluorescence lifetime (Lin, T.-I.)	277
DNA-drug binding		Excimer fluorescence	
Prothidium dibromide; DNA binding; X-ray diffraction; Linear dichroism; Intercalation (Dougherty, G.)	27	Actin; Pyrene; Nanosecond-pulse fluorimetry; Fluorescence lifetime (Lin, T.-I.)	289
DNA structure		Excitable membrane	
Raman spectroscopy; DNA denaturation; C-form DNA (O'Connor, T.)	53	Microenvironmental effect; Bohr proton (Chay, T.R.)	271
Antitumor drug; Mutagen; Raman spectroscopy; Methylmercury(II); Dichlorodiammineplatinum(II) (O'Connor, T.)	223	Excited state relaxation	
		Protein-dye binding; Fluorescence; Nanosecond mobility; Edge excitation; Red shift (Demchenko, A.P.)	101
Edge excitation		Flavin anisotropy	
Protein-dye binding; Fluorescence; Nanosecond mobility; Excited state relaxation; Red shift (Demchenko, A.P.)	101	Phospholipid vesicle; Amphiflavin radical; Lipid phase transition; EPR; Solvatochromy (Michel, H.)	121
Electric birefringence		Fluorescence	
DNA; Restriction fragment; Dipole moment (Stellwagen, N.C.)	311	Protein-dye binding; Nanosecond mobility; Excited state relaxation; Edge excitation; Red shift (Demchenko, A.P.)	101
Electric dichroism		Fluorescence lifetime	
DNA; Polarizability; Polyelectrolyte; Orientation mechanism (Diekmann, S.)	157	Tropomyosin; Excimer; Pyrene; Nanosecond-pulse fluorimetry (Lin, T.-I.)	277
DNA; DNA bending; Rotational diffusion; Persistence length (Diekmann, S.)	263	Actin; Pyrene; Excimer fluorescence; Nanosecond-pulse fluorimetry (Lin, T.-I.)	289
Electron transfer		Fluorescence polarization	
Cytochrome c; Dielectric constant; Tunneling effect; Oxidoreduction (Fragata, M.)	111	Fluorophore; Order parameter; Planar membrane; Fluorophore orientation; (Hindered rotation) (Frehland, E.)	73
Pulse radiolysis; Radical scavenging; Laccase (Guisani, A.)	177	Fluorescence quenching	
Electrosorption		ESR; Self-association; 2-Aminopurine riboside; 2-Aminopurine riboside phosphate (Gajewska, J.)	191
3-Phosphoglycerate kinase; Enzyme-polyanion interaction; (Yeast) (Roustan, C.)	169	Fluorophore	
Electrostatic potential		Fluorescence polarization; Order parameter; Planar membrane; Fluorophore orientation; (Hindered rotation) (Frehland, E.)	73
Oligonucleotide; Base sequence; Steric accessibility (Lavery, R.)	343	Fluorophore orientation	
Ellipsoid		Fluorescence polarization; Fluorophore; Order parameter; Planar membrane; (Hindered rotation) (Frehland, E.)	73
Viscosity; Simha formula; Particle rotation (Harding, S.E.)	205	Gating process	
Enthalpy		Ion transport; Tracer flux (Bernhardt, J.)	317
Mass spectrometry; Alkylated uracil; Hydration (Sukhodub, L.F.)	149	Ion transport; Tracer flux; (<i>Torpedo marmorata</i>) (Bernhardt, J.)	327
Enzyme-membrane system		Hemoglobin	
Direct current; Activity modulation (Valleton, J.M.)	235	Spin label; Protein conformation change (Nöthig-Laslo, V.)	217
Enzyme-polyanion interaction		High-pressure dissociation	
3-Phosphoglycerate kinase; Electrosorption; (Yeast) (Roustan, C.)	169	Reconstitution; Tryptophan synthase (Seifert, T.)	1
EPR/ESR		Hydration	
Phospholipid vesicle; Amphiflavin radical; Lipid phase transition; Solvatochromy; Flavin anisotropy (Michel, H.)	121	Mass spectrometry; Alkylated uracil; Enthalpy (Sukhodub, L.F.)	149
Fluorescence quenching; Self-association; 2-Aminopurine riboside; 2-Aminopurine riboside phosphate (Gajewska, J.)	191	Hydration enthalpy	
		Solution enthalpy; Sublimation enthalpy; 5-Alkyluracil; Hydrophobic hydration (Teplitsky, A.B.)	139

Hydrophobic hydration			
Solution enthalpy; Sublimation enthalpy; 5-Alkyluracil; Hydration enthalpy (Teplitsky, A.B.)	139		
Immobilized enzyme			
Acetylcholinesterase; Substrate inhibition; Cellular excitation; Membrane potential; (Oscillation) (Chay, T.R.)	9		
Intercalation			
Prothidium dibromide; DNA binding; DNA-drug binding; X-ray diffraction; Linear dichroism (Dougherty, G.)	27		
Intramembrane diffusion			
Voltage clamp; Na ⁺ current; Dielectric relaxation; Charge mobility (Rubinson, K.A.)	245		
Ion binding			
Raman spectroscopy; Poly(acrylic acid); Conformational change (Koda, S.)	65		
Ion specificity			
Ion transport; Membrane channel; Rate theory (Läuger, P.)	89		
Ion transport			
Membrane channel; Rate theory; Ion specificity (Läuger, P.)	89		
Gating process; Tracer flux (Bernhardt, J.)	317		
Gating process; Tracer flux; (<i>Torpedo marmorata</i>) (Bernhardt, J.)	327		
Laccase			
Electron transfer; Pulse radiolysis; Radical scavenging (Guissani, A.)	177		
Ligand binding			
Orosomucoid; Progesterone; Propanolol; ESR; Thermodynamics (Kirley, T.L.)	209		
Linear dichroism			
Prothidium dibromide; DNA binding; DNA-drug binding; X-ray diffraction; Intercalation (Dougherty, G.)	27		
Lipid phase transition			
Phospholipid vesicle; Amphiflavin radical; EPR; Solvatochromy; Flavin anisotropy (Michel, H.)	121		
Mass spectrometry			
Alkylated uracil; Hydration; Enthalpy (Sukhodub, L.F.)	149		
Membrane channel			
Ion transport; Rate theory; Ion specificity (Läuger, P.)	89		
Membrane compressibility			
Membrane permeability; Anesthetic; Phase transition (O'Leary, T.J.)	299		
Membrane permeability			
Membrane compressibility; Anesthetic; Phase transition (O'Leary, T.J.)	299		
Membrane potential			
Immobilized enzyme; Acetylcholinesterase; Substrate inhibition; Cellular excitation; (Oscillation) (Chay, T.R.)	9		
Methylmercury(II)			
DNA structure; Antitumor drug; Mutagen; Raman spectroscopy; Dichlorodiammineplatinum(II) (O'Connor, T.)	223		
Microenvironmental effect			
Bohr proton; Excitable membrane (Chay, T.R.)	271		
Mutagen			
DNA structure; Antitumor drug; Raman spectroscopy; Methylmercury(II); Dichlorodiammineplatinum(II) (O'Connor, T.)	223		
Na⁺ current			
Voltage clamp; Dielectric relaxation; Charge mobility; Intramembrane diffusion (Rubinson, K.A.)	245		
Nanosecond mobility			
Protein-dye binding; Fluorescence; Excited state relaxation; Edge excitation; Red shift (Demchenko, A.P.)	101		
Nanosecond-pulse fluorimetry			
Tropomyosin; Excimer; Pyrene; Fluorescence lifetime (Lin, T.-I.)	277		
Actin; Pyrene; Excimer fluorescence; Fluorescence lifetime (Lin, T.-I.)	289		
Oligonucleotide			
Base sequence; Electrostatic potential; Steric accessibility (Lavery, R.)	343		
Order parameter			
Fluorescence polarization; Fluorophore; Planar membrane; Fluorophore orientation; (Hindered rotation) (Frehland, E.)	73		
Orientation mechanism			
DNA; Polarizability; Electric dichroism; Polyelectrolyte (Diekmann, S.)	157		
Orosomucoid			
Progesterone; Propanolol; ESR; Thermodynamics; Ligand binding (Kirley, T.L.)	209		
Oxidoreduction			
Cytochrome c; Electron transfer; Dielectric constant; Tunneling effect (Fragata, M.)	111		
Particle rotation			
Viscosity; Ellipsoid; Simha formula (Harding, S.E.)	205		
Parvalbumin			
Tryptophan fluorescence; Denaturation; (Whiting) (Permyakov, E.A.)	19		
Peroxidase			
Activation volume; Pressure effect; (Horseradish) (Ralston, I.M.)	15		
Persistence length			
DNA; Electric dichroism; DNA bending; Rotational diffusion (Diekmann, S.)	263		
Phase transition			
Membrane permeability; Membrane compressibility; Anesthetic (O'Leary, T.J.)	299		
Phase transition pressure			
Phospholipid membrane (Sugár, I.P.)	131		

3-Phosphoglycerate kinase			DNA structure; Antitumor drug; Mutagen; Methylmercury(II); Dichlorodiammineplatinum(II) (O'Connor, T.)	223
Enzyme-polyanion interaction; Electrosorption; (Yeast) (Roustan, C.)	169			
Phospholipid membrane			Rate enhancement	
Phase transition pressure (Sugár, I.P.)	131		Diffusion; Association; DNA binding; Sliding mechanism (Berg, O.G.)	41
Phospholipid vesicle			Rate theory	
Amphiflavin radical; Lipid phase transition; EPR; Solvatochromy; Flavin anisotropy (Michel, H.)	121		Ion transport; Membrane channel; Ion specificity (Läuger, P.)	89
Planar membrane			Reconstitution	
Fluorescence polarization; Fluorophore; Order parameter; Fluorophore orientation; (Hindered rotation) (Frehland, E.)	73		Tryptophan synthase; High-pressure dissociation (Seifert, T.)	1
Polarizability			Red shift	
DNA; Electric dichroism; Polyelectrolyte; Orientation mechanism (Diekmann, S.)	157		Protein-dye binding; Fluorescence; Nanosecond mobility; Excited state relaxation; Edge excitation (Demchenko, A.P.)	101
Poly(acrylic acid)			Restriction fragment	
Raman spectroscopy; Ion binding; Conformational change (Koda, S.)	65		DNA; Electric birefringence; Dipole moment (Stellwagen, N.C.)	311
Polyelectrolyte			Rotational diffusion	
DNA; Polarizability; Electric dichroism; Orientation mechanism (Diekmann, S.)	157		DNA; Electric dichroism; DNA bending; Persistence length (Diekmann, S.)	263
Pressure effect			Self-association	
Activation volume; Peroxidase; (Horseradish) (Ralston, I.M.)	15		Fluorescence quenching; ESR; 2-Aminopurine riboside; 2-Aminopurine riboside phosphate (Gajewska, J.)	191
Progesterone			Simha formula	
Orosomucoid; Propanolol; ESR: Thermodynamics; Ligand binding (Kirley, T.L.)	209		Viscosity; Ellipsoid; Particle rotation (Harding, S.E.)	205
Propanolol			Sliding mechanism	
Orosomucoid; Progesterone; ESR; Thermodynamics; Ligand binding (Kirley, T.L.)	209		Diffusion; Association; Rate enhancement; DNA binding (Berg, O.G.)	41
Protein conformation change			Solution enthalpy	
Hemoglobin; Spin label (Nöthig-Laslo, V.)	217		Sublimation enthalpy; 5-Alkyluracil; Hydration enthalpy; Hydrophobic hydration (Teplitsky, A.B.)	139
Protein-dye binding			Solvatochromy	
Fluorescence; Nanosecond mobility; Excited state relaxation; Edge excitation; Red shift (Demchenko, A.P.)	101		Phospholipid vesicle; Amphiflavin radical; Lipid phase transition; EPR; Flavin anisotropy (Michel, H.)	121
Prothidium dibromide			Solvent relaxation	
DNA binding; DNA-drug binding; X-ray diffraction; Linear dichroism; Intercalation (Dougherty, G.)	27		Tryptophan fluorescence; Differential-wavelength deconvolution (Lakowicz, J.R.)	353
Pulse radiolysis			Spin label	
Electron transfer; Radical scavenging; Laccase (Guissani, A.)	177		Hemoglobin; Protein conformation change (Nöthig-Laslo, V.)	217
Pyrene			Steric accessibility	
Tropomyosin; Excimer; Nanosecond-pulse fluorimetry; Fluorescence lifetime (Lin, T.-I.)	277		Oligonucleotide; Base sequence; Electrostatic potential (Lavery, R.)	343
Actin; Excimer fluorescence; Nanosecond-pulse fluorimetry; Fluorescence lifetime (Lin, T.-I.)	289		Sublimation enthalpy	
Radical scavenging			Solution enthalpy; 5-Alkyluracil; Hydration enthalpy; Hydrophobic hydration (Teplitsky, A.B.)	139
Electron transfer; Pulse radiolysis; Laccase (Guissani, A.)	177		Substrate inhibition	
Raman spectroscopy			Immobilized enzyme; Acetylcholinesterase; Cellular excitation; Membrane potential; (Oscillation) (Chay, T.R.)	9
DNA denaturation; DNA structure; C-form DNA (O'Connor, T.)	53			
Poly(acrylic acid); Ion binding; Conformational change (Koda, S.)	65			

Thermodynamics

Orosomucoid; Progesterone; Propanolol; ESR;
Ligand binding (Kirley, T.L.) 209

Tracer flux

Gating process; Ion transport (Bernhardt, J.) 317

Gating process; Ion transport; (*Torpedo marmorata*)
(Bernhardt, J.) 327

Tropomyosin

Excimer; Pyrene; Nanosecond-pulse fluorimetry;
Fluorescence lifetime (Lin, T.-I.) 277

Tryptophan fluorescence

Denaturation; Parvalbumin; (Whiting) (Permyakov,
E.A.) 19

Differential-wavelength deconvolution; Solvent re-
laxation (Lakowicz, J.R.) 353

Tryptophan synthase

Reconstitution; High-pressure dissociation (Seifert,
T.) 1

Tunneling effect

Cytochrome *c*; Electron transfer; Dielectric con-
stant; Oxidoreduction (Fragata, M.) 111

Viscosity

Ellipsoid; Simha formula; Particle rotation (Hard-
ing, S.E.) 205

Voltage clamp

Na⁺ current; Dielectric relaxation; Charge mobility;
Intramembrane diffusion (Rubinson, K.A.) 245

X-ray diffraction

Prothidium dibromide; DNA binding; DNA-drug
binding; Linear dichroism; Intercalation (Dougherty,
G.) 27