

Subject Index to Volume 58

Acetylcholine receptor

Fluorescence correlation spectroscopy; α -Bungarotoxin; Fluctuation kinetics (Rauer, B. 3)

Actin

ATP; Fluctuation; Myosin; Sliding (Hatori, K. 267)

Agarose gel

Electric birefringence; Fibers; Electrophoretic orientation; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Aggregates

Small angle neutron scattering; Small angle X-ray scattering; Lysozyme; Pre-crystallization; Time evolution (Minezaki, Y. 355)

Aggregation

Viscosity of blood; Colloid coagulation; Rouleaux; Blood; Red cells; Shear rate (Chen, J. 273)

Allosteric activation

Enzymes; Molecular chaos; Coherent spiking (Hess, B. 365)

Anti-cancer agents

Electro-fluorescence; DNA binding; Polarized fluorescence; Carcinogens (Windsor, S.A. 141)

Association isotherms

Liposomes; Mastoparan; Partition coefficients; Salt effects; Thermodynamics (Schwarz, G. 67)

ATP

Actin; Fluctuation; Myosin; Sliding (Hatori, K. 267)

Biopolymers

RNA; Folding; Entropy loss, sequential minimization (Fernández, A. 335)

Birefringence, electric

Electric polarizability; Dielectric dispersion; Light scattering, electric; Polyelectrolytes; Colloids; *Escherichia coli*; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Blood

Haemin; Glutathione; Spectrophotometry; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Viscosity of blood; Colloid coagulation; Rouleaux; Red cells; Shear rate; Aggregation (Chen, J. 273)

Bound water

Electron paramagnetic resonance; Fluoride complex; Freezing effects; Heme proteins; Thermal activation (Yang, A.-S. 341)

c-erbB2 protein

Molecular dynamics simulations; Transmembrane helix; Correlated motions; Signal propagation (Garnier, N. 225)

α -Bungarotoxin

Fluorescence correlation spectroscopy; Acetylcholine receptor; Fluctuation kinetics (Rauer, B. 3)

Carboxyfluorescein

Marker efflux; Phosphatidylcholine; FITC-dextran; Fusion; Dynamic light scattering (Rex, S. 75)

Carcinogens

Electro-fluorescence; DNA binding; Polarized fluorescence; Anti-cancer agents (Windsor, S.A. 141)

Cholesterol

Phospholipids; Light scattering; Electron microscopy; Lateral pressure; Packing constraints (Schürholz, T. 87)

Chymotrypsin

Dipole moment; Dielectric constant (Takashima, S. 13)

Coherent spiking

Enzymes; Molecular chaos; Allosteric activation (Hess, B. 365)

Colloid coagulation

Viscosity of blood; Rouleaux; Blood; Red cells; Shear rate; Aggregation (Chen, J. 273)

Colloids

Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; *Escherichia coli*; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Transient electric birefringence (Matsumoto, M. 173)

Computer simulation

Oxidative phosphorylation; Dynamic model; Metabolic control analysis; Metabolic regulation (Korzeniewski, B. 215)

Stochastic model; Markov chain; Cooperativity; Sigmoidal transition; Fractal dimension (Abundo, M. 313)

Conformation

Cutinase; Lipase; Fluorescence (Weisenborn, P.C.M. 281)

Conformational transitions

DNA–ligand interaction; Supercoiled DNA; Non-B DNA; Two-state model (Lahiri, A. 239)

Cooperativity

Stochastic model; Markov chain; Sigmoidal transition; Fractal dimension; Computer simulation (Abundo, M. 313)

Correlated motions

Molecular dynamics simulations; Transmembrane helix; *c-erbB2* protein; Signal propagation (Garnier, N. 225)

Critical packing parameter

Detergents, non-ionic; Lipid bilayer; Resonance energy transfer; Fluorescence, time-resolved; Surface area (Lantzsich, G. 289)

Cryo-electron microscopy

Dimyristoyl phosphatidylcholine vesicles; Lipid-phase transition; Laser temperature jump; Vitri-fied aqueous lamella (Groll, R. 53)

Cutinase

Lipase; Fluorescence; Conformation (Weisenborn, P.C.M. 281)

Detergents, non-ionic

Lipid bilayer; Resonance energy transfer; Fluorescence, time-resolved; Surface area; Critical packing parameter (Lantzsich, G. 289)

Diacylglycerol

Protein kinase C; Vesicles; Micelles; Fluorimetry; Phorbol; Reorientation (Pap, E.H.W. 255)

Dielectric constant

Chymotrypsin; Dipole moment (Takashima, S. 13)

Dielectric dispersion

Electric polarizability; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; *Escherichia coli*; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Dimyristoyl phosphatidylcholine vesicles

Lipid-phase transition; Laser temperature jump; Cryo-electron microscopy; Vitri-fied aqueous lamella (Groll, R. 53)

Diphenylhexatriene

Vesicles; Electroporation; Turbidity dichroism; Lipids; Membranes (Kakorin, S. 109)

Dipolar orientation

Electric birefringence; Fibers; Agarose gel; Electrophoretic orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Dipole moment

Chymotrypsin; Dielectric constant (Takashima, S. 13)

Electric dichroism; Rotational relaxation; Reduced dichroism (Schönknecht, T. 21)

DNA

Review; Electric linear dichroism; Intercalation; Groove binding; Sequence selectivity (Colson, P. 125)

DNA bending

Electric birefringence; DNA relaxation times; Dynamic persistence (Stellwagen, N.C. 117)

DNA binding

Electro-fluorescence; Polarized fluorescence; Anti-cancer agents; Carcinogens (Windsor, S.A. 141)

DNA–ligand interaction

Supercoiled DNA; Conformational transitions; Non-B DNA; Two-state model (Lahiri, A. 239)

DNA relaxation times

Electric birefringence; DNA bending; Dynamic persistence (Stellwagen, N.C. 117)

DNA separation

Sequencing; Gel electrophoresis; Reptation; Polyacrylamide gels (Sturm, J. 151)

Dynamic light scattering

Marker efflux; Phosphatidylcholine; Carboxyfluorescein; FITC-dextran; Fusion (Rex, S. 75)

Dynamic model

Oxidative phosphorylation; Computer simulation; Metabolic control analysis; Metabolic regulation (Korzeniewski, B. 215)

Dynamic persistence

Electric birefringence; DNA relaxation times; DNA bending (Stellwagen, N.C. 117)

Dynamics of electric birefringence

Microemulsion; Percolation; Electric field; Gelatin (Schlicht, L. 39)

Electrical impedance

Skin; Passive electrical properties; Time dependence (Pliquett, F. 205)

Electric birefringence

DNA relaxation times; DNA bending; Dynamic persistence (Stellwagen, N.C. 117)

Fibers; Agarose gel; Electrophoretic orientation; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Electric dichroism

Dipole moment; Rotational relaxation; Reduced dichroism (Schönknecht, T. 21)

Electric field

Microemulsion; Percolation; Dynamics of electric birefringence; Gelatin (Schlicht, L. 39)

Electric linear dichroism

Review; Intercalation; Groove binding; DNA; Sequence selectivity (Colson, P. 125)

Electric polarizability

Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; *Escherichia coli*; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Electro-fluorescence

DNA binding; Polarized fluorescence; Anti-cancer agents; Carcinogens (Windsor, S.A. 141)

Electron microscopy

Phospholipids; Cholesterol; Light scattering; Lateral pressure; Packing constraints (Schürholz, T. 87)

Electron paramagnetic resonance

Bound water; Fluoride complex; Freezing effects; Heme proteins; Thermal activation (Yang, A.-S. 341)

Electro-optic anomaly

Electric birefringence; Fibers; Agarose gel; Electrophoretic orientation; Dipolar orientation (Stoylov, S.P. 157)

Electrophoretic orientation

Electric birefringence; Fibers; Agarose gel; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Electroporation

Vesicles; Turbidity dichroism; Lipids; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Transdermal transport; Fluorescence microscopy (Pliquett, U.F. 185)

Energy transfer

Galanin; Molecular mechanics; Tyrosine fluorescence (Wicz, W. 303)

Entropy loss, sequential minimization

RNA; Folding; Biopolymers (Fernández, A. 335)

Enzymes

Molecular chaos; Coherent spiking; Allosteric activation (Hess, B. 365)

Erythrocytes

Blood; Haemin; Glutathione; Spectrophotometry; Interferometry (Sahini, V.Em. 245)

Escherichia coli

Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Fibers

Electric birefringence; Agarose gel; Electrophoretic orientation; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

FITC-dextran

Marker efflux; Phosphatidylcholine; Carboxyfluorescein; Fusion; Dynamic light scattering (Rex, S. 75)

Fluctuation

Actin; ATP; Myosin; Sliding (Hatori, K. 267)

Fluctuation kinetics

Fluorescence correlation spectroscopy; Acetylcholine receptor; α -Bungarotoxin (Rauer, B. 3)

Fluorescence

Cutinase; Lipase; Conformation (Weisenborn, P.C.M. 281)

Fluorescence correlation spectroscopy

Acetylcholine receptor; α -Bungarotoxin; Fluctuation kinetics (Rauer, B. 3)

Fluorescence microscopy

Transdermal transport; Electroporation (Pliquett, U.F. 185)

Fluorescence, time-resolved

Detergents, non-ionic; Lipid bilayer; Resonance energy transfer; Surface area; Critical packing parameter (Lantzsch, G. 289)

Fluoride complex

Bound water; Electron paramagnetic resonance; Freezing effects; Heme proteins; Thermal activation (Yang, A.-S. 341)

Fluorimetry

Protein kinase C; Vesicles; Micelles; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Folding

RNA; Entropy loss, sequential minimization; Biopolymers (Fernández, A. 335)

Fractal dimension

Stochastic model; Markov chain; Cooperativity; Sigmoidal transition; Computer simulation (Abundo, M. 313)

Free radical chain reaction

Horseradish peroxidase; Indole-3-acetic acid oxidation; Transient state kinetics; Oxygen consumption; P-670 (Krylov, S.N. 325)

Freezing effects

Bound water; Electron paramagnetic resonance; Fluoride complex; Heme proteins; Thermal activation (Yang, A.-S. 341)

Fusion

Marker efflux; Phosphatidylcholine; Carboxyfluorescein; FITC-dextran; Dynamic light scattering (Rex, S. 75)

Galanin

Energy transfer; Molecular mechanics; Tyrosine fluorescence (Wicz, W. 303)

Gelatin

Microemulsion; Percolation; Electric field; Dynamics of electric birefringence (Schlicht, L. 39)

Gel electrophoresis

Sequencing; Reptation; DNA separation; Polyacrylamide gels (Sturm, J. 151)

Glutathione

Blood; Haemin; Spectrophotometry; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Groove binding

Review; Electric linear dichroism; Intercalation; DNA; Sequence selectivity (Colson, P. 125)

Haemin

Blood; Glutathione; Spectrophotometry; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Heme proteins

Bound water; Electron paramagnetic resonance; Fluoride complex; Freezing effects; Thermal activation (Yang, A.-S. 341)

Horseradish peroxidase

Indole-3-acetic acid oxidation; Free radical chain reaction; Transient state kinetics; Oxygen consumption; P-670 (Krylov, S.N. 325)

Indole-3-acetic acid oxidation

Horseradish peroxidase; Free radical chain reaction; Transient state kinetics; Oxygen consumption; P-670 (Krylov, S.N. 325)

Intercalation

Review; Electric linear dichroism; Groove binding; DNA; Sequence selectivity (Colson, P. 125)

Interfacial charge transport

Water-in-oil microemulsions; Surfactants; Nanodroplets; Ion mobility (Eicke, H.-F. 29)

Interferometry

Blood; Haemin; Glutathione; Spectrophotometry; Erythrocytes (Sahini, V.Em. 245)

Ion mobility

Water-in-oil microemulsions; Interfacial charge transport; Surfactants; Nanodroplets (Eicke, H.-F. 29)

Laser temperature jump

Dimyristoyl phosphatidylcholine vesicles; Lipid-phase transition; Cryo-electron microscopy; Vitified aqueous lamella (Groll, R. 53)

Lateral pressure

Phospholipids; Cholesterol; Light scattering; Electron microscopy; Packing constraints (Schürholz, T. 87)

Light scattering

Phospholipids; Cholesterol; Electron microscopy; Lateral pressure; Packing constraints (Schürholz, T. 87)

Light scattering, electric

Electric polarizability; Dielectric dispersion; Birefringence, electric; Polyelectrolytes; Colloids; Escherichia coli; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Lipase

Cutinase; Fluorescence; Conformation (Weisenborn, P.C.M. 281)

Lipid bilayer

Detergents, non-ionic; Resonance energy transfer; Fluorescence, time-resolved; Surface area; Critical packing parameter (Lantzsch, G. 289)

Lipid-phase transition

Dimyristoyl phosphatidylcholine vesicles; Laser temperature jump; Cryo-electron microscopy; Vitified aqueous lamella (Groll, R. 53)

Lipids

Vesicles; Electroporation; Turbidity dichroism; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Liposomes

Association isotherms; Mastoparan; Partition coefficients; Salt effects; Thermodynamics (Schwarz, G. 67)

Thin liquid film; Marangoni-Gibbs effects; Phase transition temperature (Vassilieff, C.S. 97)

Lysozyme

Small angle neutron scattering; Small angle X-ray scattering; Pre-crystallization; Aggregates; Time evolution (Minezaki, Y. 355)

Marangoni-Gibbs effects

Liposomes; Thin liquid film; Phase transition temperature (Vassilieff, C.S. 97)

Marker efflux

Phosphatidylcholine; Carboxyfluorescein; FITC-dextran; Fusion; Dynamic light scattering (Rex, S. 75)

Markov chain

Stochastic model; Cooperativity; Sigmoidal transition; Fractal dimension; Computer simulation (Abundo, M. 313)

Mastoparan

Association isotherms; Liposomes; Partition coefficients; Salt effects; Thermodynamics (Schwarz, G. 67)

Membranes

Vesicles; Electroporation; Turbidity dichroism; Lipids; Diphenylhexatriene (Kakorin, S. 109)

Metabolic control analysis

Oxidative phosphorylation; Dynamic model; Computer simulation; Metabolic regulation (Korzeniewski, B. 215)

Metabolic regulation

Oxidative phosphorylation; Dynamic model; Computer simulation; Metabolic control analysis (Korzeniewski, B. 215)

Micelles

Protein kinase C; Vesicles; Fluorimetry; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Microemulsion

Percolation; Electric field; Dynamics of electric birefringence; Gelatin (Schlicht, L. 39)

Molecular chaos

Enzymes; Coherent spiking; Allosteric activation (Hess, B. 365)

Molecular dynamics simulations

Transmembrane helix; *c-erbB2* protein; Correlated motions; Signal propagation (Garnier, N. 225)

Molecular mechanics

Galanin; Energy transfer; Tyrosine fluorescence (Wicz, W. 303)

Myosin

Actin; ATP; Fluctuation; Sliding (Hatori, K. 267)

Nanodroplets

Water-in-oil microemulsions; Interfacial charge transport; Surfactants; Ion mobility (Eicke, H.-F. 29)

Non-B DNA

DNA-ligand interaction; Supercoiled DNA; Conformational transitions; Two-state model (Lahiri, A. 239)

Oxidative phosphorylation

Dynamic model; Computer simulation; Metabolic control analysis; Metabolic regulation (Korzeniewski, B. 215)

Oxygen consumption

Horseradish peroxidase; Indole-3-acetic acid oxidation; Free radical chain reaction; Transient state kinetics; P-670 (Krylov, S.N. 325)

P-670

Horseradish peroxidase; Indole-3-acetic acid oxidation; Free radical chain reaction; Transient state kinetics; Oxygen consumption (Krylov, S.N. 325)

Packing constraints

Phospholipids; Cholesterol; Light scattering; Electron microscopy; Lateral pressure (Schürholz, T. 87)

Partition coefficients

Association isotherms; Liposomes; Mastoparan; Salt effects; Thermodynamics (Schwarz, G. 67)

Passive electrical properties

Skin; Electrical impedance; Time dependence (Pliquett, F. 205)

Percolation

Microemulsion; Electric field; Dynamics of electric birefringence; Gelatin (Schlicht, L. 39)

Phase transition temperature

Liposomes; Thin liquid film; Marangoni-Gibbs effects (Vasilieff, C.S. 97)

Phorbol

Protein kinase C; Vesicles; Micelles; Fluorimetry; Diacylglycerol; Reorientation (Pap, E.H.W. 255)

Phosphatidylcholine

Marker efflux; Carboxyfluorescein; FITC-dextran; Fusion; Dynamic light scattering (Rex, S. 75)

Phospholipids

Cholesterol; Light scattering; Electron microscopy; Lateral pressure; Packing constraints (Schürholz, T. 87)

Polarized fluorescence

Electro-fluorescence; DNA binding; Anti-cancer agents; Carcinogens (Windsor, S.A. 141)

Polyacrylamide gels

Sequencing; Gel electrophoresis; Reptation; DNA separation (Sturm, J. 151)

Polyelectrolytes

Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Colloids; *Escherichia coli*; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Poly(tetrafluoroethylene)

Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; *Escherichia coli* (Stoylov, S.P. 165)

Pre-crystallization

Small angle neutron scattering; Small angle X-ray scattering; Lysozyme; Aggregates; Time evolution (Minezaki, Y. 355)

Protein kinase C

Vesicles; Micelles; Fluorimetry; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Red cells

Viscosity of blood; Colloid coagulation; Rouleaux; Blood; Shear rate; Aggregation (Chen, J. 273)

Reduced dichroism

Electric dichroism; Dipole moment; Rotational relaxation (Schönknecht, T. 21)

Reorientation

Protein kinase C; Vesicles; Micelles; Fluorimetry; Diacylglycerol; Phorbol (Pap, E.H.W. 255)

Reptation

Sequencing; Gel electrophoresis; DNA separation; Polyacrylamide gels (Sturm, J. 151)

Resonance energy transfer

Detergents, non-ionic; Lipid bilayer; Fluorescence, time-resolved; Surface area; Critical packing parameter (Lantzsch, G. 289)

Review

Electric linear dichroism; Intercalation; Groove binding; DNA; Sequence selectivity (Colson, P. 125)

RNA

Folding; Entropy loss, sequential minimization; Biopolymers (Fernández, A. 335)

Rotational relaxation

Electric dichroism; Dipole moment; Reduced dichroism (Schönknecht, T. 21)

Rouleaux

Viscosity of blood; Colloid coagulation; Blood; Red cells; Shear rate; Aggregation (Chen, J. 273)

Salt effects

Association isotherms; Liposomes; Mastoparan; Partition coefficients; Thermodynamics (Schwarz, G. 67)

Sequence selectivity

Review; Electric linear dichroism; Intercalation; Groove binding; DNA (Colson, P. 125)

Sequencing

Gel electrophoresis; Reptation; DNA separation; Polyacrylamide gels (Sturm, J. 151)

Shear rate

Viscosity of blood; Colloid coagulation; Rouleaux; Blood; Red cells; Aggregation (Chen, J. 273)

Sigmoidal transition

Stochastic model; Markov chain; Cooperativity; Fractal dimension; Computer simulation (Abundo, M. 313)

Signal propagation

Molecular dynamics simulations; Transmembrane helix; *c-erbB2* protein; Correlated motions (Garnier, N. 225)

Skin

Passive electrical properties; Electrical impedance; Time dependence (Pliquett, F. 205)

Sliding

Actin; ATP; Fluctuation; Myosin (Hatori, K. 267)

Small angle neutron scattering

Small angle X-ray scattering; Lysozyme; Pre-crystallization; Aggregates; Time evolution (Minezaki, Y. 355)

Small angle X-ray scattering

Small angle neutron scattering; Lysozyme; Pre-crystallization; Aggregates; Time evolution (Minezaki, Y. 355)

Spectrophotometry

Blood; Haemin; Glutathione; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Stochastic model

Markov chain; Cooperativity; Sigmoidal transition; Fractal dimension; Computer simulation (Abundo, M. 313)

Supercoiled DNA

DNA-ligand interaction; Conformational transitions; Non-B DNA; Two-state model (Lahiri, A. 239)

Surface area

Detergents, non-ionic; Lipid bilayer; Resonance energy transfer; Fluorescence, time-resolved; Critical packing parameter (Lantzsch, G. 289)

Surfactants

Water-in-oil microemulsions; Interfacial charge transport; Nanodroplets; Ion mobility (Eicke, H.-F. 29)

Thermal activation

Bound water; Electron paramagnetic resonance; Fluoride complex; Freezing effects; Heme proteins (Yang, A.-S. 341)

Thermodynamics

Association isotherms; Liposomes; Mastoparan; Partition coefficients; Salt effects (Schwarz, G. 67)

Thin liquid film

Liposomes; Marangoni-Gibbs effects; Phase transition temperature (Vassiliev, C.S. 97)

Time dependence

Skin; Passive electrical properties; Electrical impedance (Pliquett, F. 205)

Time evolution

Small angle neutron scattering; Small angle X-ray scattering; Lysozyme; Pre-crystallization; Aggregates (Minezaki, Y. 355)

Transdermal transport

Fluorescence microscopy; Electroporation (Pliquett, U.F. 185)

Transient electric birefringence

Colloids (Matsumoto, M. 173)

Transient state kinetics

Horseradish peroxidase; Indole-3-acetic acid oxidation; Free radical chain reaction; Oxygen consumption; P-670 (Krylov, S.N. 325)

Transmembrane helix

Molecular dynamics simulations; c-*erbB2* protein; Correlated motions; Signal propagation (Garnier, N. 225)

Turbidity dichroism

Vesicles; Electroporation; Lipids; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Two-state model

DNA-ligand interaction; Supercoiled DNA; Conformational transitions; Non-B DNA (Lahiri, A. 239)

Tyrosine fluorescence

Galanin; Energy transfer; Molecular mechanics (Wiczak, W. 303)

Vesicles

Electroporation; Turbidity dichroism; Lipids; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Protein kinase C; Micelles; Fluorimetry; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Viscosity of blood

Colloid coagulation; Rouleaux; Blood; Red cells; Shear rate; Aggregation (Chen, J. 273)

Vitrified aqueous lamella

Dimyristoyl phosphatidylcholine vesicles; Lipid-phase transition; Laser temperature jump; Cryo-electron microscopy (Groll, R. 53)

Water-in-oil microemulsions

Interfacial charge transport; Surfactants; Nanodroplets; Ion mobility (Eicke, H.-F. 29)