

Subject Index of Volume 95

- Absorption**
studies on *p*-nitroacetophenone triplet state, 111
- Absorption spectra**
absorption spectra of pyrene in bovine serum albumin and caffeine aqueous solutions, 271
- Acetic acid**
excited state proton transfer of methyl- and cyano- substituted alloxazines in the presence of acetic acid, 215
- Acetonitrile**
mechanism of photoinitiated degradation of poly(ethylene oxide) by copper complexes in acetonitrile, 61
- Aerosol OT reverse micelles**
luminescence behaviour of 7-hydroxyflavone in aerosol OT reverse micelles: excited-state proton transfer and red-edge excitation effects, 157
- Amines**
laser photolysis studies of electron transfer between triplet naphthoquinones and amines, 27
- Anthracene–julolidine**
a comparative study of two exciplexes: anthracene–*N,N*-dimethylaniline and anthracene–julolidine systems, 127
- Anthracene–*N,N*-dimethylaniline**
a comparative study of two exciplexes: anthracene–*N,N*-dimethylaniline and anthracene–julolidine systems, 127
- Aryl(thio)ethers**
the mechanism of photochemical C–O or C–S bond cleavage in aryl(thio)ethers, 41
- Atomic caesium**
kinetic studies of ground-state atomic caesium, Cs($6^2S_{1/2}$), by time-resolved laser-induced fluorescence (Cs($7^2P_{3/2}$ – $6^2S_{1/2}$); $\lambda = 455.5$ nm) following pulsed irradiation, 103
- Bond breaking reaction**
F₂ laser (158 nm) photolysis of CO₂ and hydrofluorocarbon systems, 197
- Bovine serum albumin**
absorption spectra of pyrene in bovine serum albumin and caffeine aqueous solutions, 271
- Caffeine**
absorption spectra of pyrene in bovine serum albumin and caffeine aqueous solutions, 271
- Carbon tetrachloride**
photoinduced electron transfer double fragmentation: an oxygen-mediated radical chain process in the co-fragmentation of substituted pinacol donors with carbon tetrachloride, 21
- 4-Carboxybenzophenone**
sensitized photo-oxidation of sulfur-containing amino acids and peptides in aqueous solution, 81
- Δ (or Λ)-[Co(acac)₃]**
novel photocatalytic asymmetrical synthesis of Δ (or Λ)-[Co(acac)₃] (acac, pentane-2,4-dione) from [Co(acac)₂(H₂O)₂] and Hacac with helical ruthenium(II) complexes, 231
- Co-fragmentation**
photoinduced electron transfer double fragmentation: an oxygen-mediated radical chain process in the co-fragmentation of substituted pinacol donors with carbon tetrachloride, 21
- CO₂–hydrofluorocarbon systems**
F₂ laser (158 nm) photolysis of CO₂ and hydrofluorocarbon systems, 197
- C–O bond cleavage**
the mechanism of photochemical C–O or C–S bond cleavage in aryl(thio)ethers, 41
- Collisional relaxation**
F₂ laser (158 nm) photolysis of CO₂ and hydrofluorocarbon systems, 197
- Complex**
absorption spectra of pyrene in bovine serum albumin and caffeine aqueous solutions, 271
- Copper complexes**
mechanism of photoinitiated degradation of poly(ethylene oxide) by copper complexes in acetonitrile, 61
- Covalently bound dye**
photophysical properties of thionine and phenosafranin dyes covalently bound to macromolecules, 245
- C–S bond cleavage**
the mechanism of photochemical C–O or C–S bond cleavage in aryl(thio)ethers, 41
- Dehydrogenated radicals**
characterization of reactive intermediates in laser photolysis of guanine and its derivatives using acetone as photosensitizer: the pH dependence, 223
- Detergents**
photo-oxidation of sodium sulfide by sulfonated phthalocyanines in oxygen-saturated aqueous solutions containing detergents or latexes, 161
- dGMP**
characterization of reactive intermediates in laser photolysis of guanine and its derivatives using acetone as photosensitizer: the pH dependence, 223
- 1,2-Diarylethene derivatives**
refractive index changes in photochromic diarylethene derivatives in polymethylmethacrylate films, 265
- Dibenzosemibullvalenes**
phototransformations of 9-ethyl-substituted dibenzobarrelene, 137
- Electron transfer**
laser photolysis studies of electron transfer between triplet naphthoquinones and amines, 27
energy and electron transfer processes in flavoprotein-mediated DNA repair, 89
fluorescence loss mechanism due to large-amplitude motions in derivatives of 2,2'-bipyridyl exhibiting excited-state intramolecular proton transfer and perspectives of luminescence solar concentrators, 143

- Electron transfer reactions
 solvent effects on the electron transfer reactions in supramolecular systems, 51
- Energy transfer
 energy and electron transfer processes in flavoprotein-mediated DNA repair, 89
- Exciplex
 a comparative study of two exciplexes: anthracene-*N,N*-dimethylaniline and anthracene-*julolidine* systems, 127
- Excitation effects
 luminescence behaviour of 7-hydroxyflavone in aerosol OT reverse micelles: excited-state proton transfer and red-edge excitation effects, 157
- Excited state proton transfer
 excited state proton transfer of methyl- and cyano- substituted alloxazines in the presence of acetic acid, 215
- Excited states
 luminescence behaviour of 7-hydroxyflavone in aerosol OT reverse micelles: excited-state proton transfer and red-edge excitation effects, 157
- F₂ laser photolysis
 f₂ laser (158 nm) photolysis of CO₂ and hydrofluorocarbon systems, 197
- Flavoprotein-mediated DNA repair
 energy and electron transfer processes in flavoprotein-mediated DNA repair, 89
- Fluorescence
 studies on *p*-nitroacetophenone triplet state, 111
 spectroscopy of *o*-diazahelicenes of C_{2v}/C₂ symmetry, 115
 fluorescence loss mechanism due to large-amplitude motions in derivatives of 2,2'-bipyridyl exhibiting excited-state intramolecular proton transfer and perspectives of luminescence solar concentrators, 143
- Ground state
 kinetic studies of ground-state atomic caesium, Cs(6 ²S_{1/2}), by time-resolved laser-induced fluorescence (Cs(7 ²P_{3/2}-6 ²S_{1/2}); λ = 455.5 nm) following pulsed irradiation, 103
- Guanine
 characterization of reactive intermediates in laser photolysis of guanine and its derivatives using acetone as photosensitizer: the pH dependence, 223
- Guanosine
 characterization of reactive intermediates in laser photolysis of guanine and its derivatives using acetone as photosensitizer: the pH dependence, 223
- Helical ruthenium(II) complexes
 novel photocatalytic asymmetrical synthesis of Δ (or Λ)-[Co(acac)₃] (acac, pentane-2,4-dione) from [Co(acac)₂(H₂O)₂] and Hacac with helical ruthenium(II) complexes, 231
- Hexafluorodisilane
 collisional effects in the IR multiphoton absorption and dissociation of Si₂F₆, 203
- High-yield pulp
 attempt to photostabilize paper made from high-yield pulp by application of UV screens in conjunction with thiols, 181
- 7-Hydroxyflavone
 luminescence behaviour of 7-hydroxyflavone in aerosol OT reverse micelles: excited-state proton transfer and red-edge excitation effects, 157
- Hydroxyfluorones
 photochemistry and photophysics of hydroxyfluorones and xanthenes, 33
- Insoluble polymer
 tris(bipyridyl)ruthenium(II) complex covalently bound to an insoluble hydrophilic polymer: reductive and oxidative quenching, 235
- Isolated bichromophoric systems
 photoinduced electron transfer in isolated bichromophoric and solvated trichromophoric systems, 3
- Keto-enol ratio
 on the photosensitivity of poly(acryloylacetone) in solution, 189
- Kinetic studies
 kinetic studies of ground-state atomic caesium, Cs(6 ²S_{1/2}), by time-resolved laser-induced fluorescence (Cs(7 ²P_{3/2}-6 ²S_{1/2}); λ = 455.5 nm) following pulsed irradiation, 103
- Laser flash photolysis
 studies on *p*-nitroacetophenone triplet state, 111
 characterization of reactive intermediates in laser photolysis of guanine and its derivatives using acetone as photosensitizer: the pH dependence, 223
- Laser-induced fluorescence
 kinetic studies of ground-state atomic caesium, Cs(6 ²S_{1/2}), by time-resolved laser-induced fluorescence (Cs(7 ²P_{3/2}-6 ²S_{1/2}); λ = 455.5 nm) following pulsed irradiation, 103
- Laser isotope separation
 collisional effects in the IR multiphoton absorption and dissociation of Si₂F₆, 203
- Laser photolysis
 laser photolysis studies of electron transfer between triplet naphthoquinones and amines, 27
- Latexes
 photo-oxidation of sodium sulfide by sulfonated phthalocyanines in oxygen-saturated aqueous solutions containing detergents or latexes, 161
- Luminescence
 recent achievements in photochemistry of some components and analogues of nucleic acids, 73
 a comparative study of two exciplexes: anthracene-*N,N*-dimethylaniline and anthracene-*julolidine* systems, 127
- Luminescence behaviour
 luminescence behaviour of 7-hydroxyflavone in aerosol OT reverse micelles: excited-state proton transfer and red-edge excitation effects, 157
- Macromolecule
 photophysical properties of thionine and phenosafranine dyes covalently bound to macromolecules, 245
 studies on the photoelectrochemical properties of thionine dye covalently bound to poly(acrylamidoglycolic acid), 255
- Magnetic field effect
 a comparative study of two exciplexes: anthracene-*N,N*-dimethylaniline and anthracene-*julolidine* systems, 127
- Methanol
 vacuum UV photolysis of aqueous solutions of nitrate. Effect of organic matter. II. Methanol, 67
- Methionine-containing peptides
 sensitized photo-oxidation of sulfur-containing amino acids and peptides in aqueous solution, 81
- Methyl- and cyano- substituted alloxazines
 excited state proton transfer of methyl- and cyano- substituted alloxazines in the presence of acetic acid, 215
- MNDO-PM3 quantum chemical calculations
 MNDO-PM3 MO studies on the thermal isomerization of photochromic 1',3',3'-trimethyl-6-nitrospiro[2H-1-benzopyran-2,2'-indoline], 209
- Multiphoton absorption
 collisional effects in the IR multiphoton absorption and dissociation of Si₂F₆, 203

- Multiphoton dissociation**
collisional effects in the IR multiphoton absorption and dissociation of Si_2F_6 , 203
- Nitrate**
vacuum UV photolysis of aqueous solutions of nitrate. Effect of organic matter. II. Methanol, 67
- Nonradiative TICT states**
nonradiative twisted intramolecular charge transfer state in polar stilbenes: photophysical study of 4-perfluorooctylsulfonyl-4'-*N,N*-dimethylamino stilbene and two bridged derivatives, 7
- Nucleic acids**
recent achievements in photochemistry of some components and analogues of nucleic acids, 73
- Optical switch**
refractive index changes in photochromic diarylethene derivatives in polymethylmethacrylate films, 265
- Optical waveguide**
refractive index changes in photochromic diarylethene derivatives in polymethylmethacrylate films, 265
- Oxidative quenching**
tris(bipyridyl)ruthenium(II) complex covalently bound to an insoluble hydrophilic polymer: reductive and oxidative quenching, 235
- Oxygen evolution**
photochemical oxidation of water with thin AgCl layers, 175
- Oxygen-quenching**
phototransformations of 9-ethyl-substituted dibenzobarrelene, 137
- Phenosafranine**
photophysical properties of thionine and phenosafranine dyes covalently bound to macromolecules, 245
- Phosphorescence**
studies on *p*-nitroacetophenone triplet state, 111
spectroscopy of *o*-diazahelicenes of C_{2v}/C_2 symmetry, 115
- Photobleaching**
chemical mechanism of photobleaching of poly-3BCMU film, 239
- Photocatalytic asymmetrical synthesis**
novel photocatalytic asymmetrical synthesis of Δ (or Λ)-[Co(acac)₃] (acac, pentane-2,4-dione) from [Co(acac)₂(H₂O)₂] and Hacac with helical ruthenium(II) complexes, 231
- Photochemically induced ¹H nuclear polarization spectroscopy**
the mechanism of photochemical C–O or C–S bond cleavage in aryl(thio)ethers, 41
- Photochemical oxidation**
photochemical oxidation of water with thin AgCl layers, 175
- Photochromism**
refractive index changes in photochromic diarylethene derivatives in polymethylmethacrylate films, 265
- Photoelectrochemical properties**
studies on the photoelectrochemical properties of thionine dye covalently bound to poly(acrylamidoglycolic acid), 255
- Photoinduced electron transfer**
photoinduced electron transfer in isolated bichromophoric and solvated trichromophoric systems, 3
photoinduced electron transfer double fragmentation: an oxygen-mediated radical chain process in the co-fragmentation of substituted pinacol donors with carbon tetrachloride, 21
- Photoinitiated degradation**
mechanism of photoinitiated degradation of poly(ethylene oxide) by copper complexes in acetonitrile, 61
- Photo-oxidation**
photo-oxidation of sodium sulfide by sulfonated phthalocyanines in oxygen-saturated aqueous solutions containing detergents or latexes, 161
- Photosensitivity**
on the photosensitivity of poly(acryloylacetone) in solution, 189
- Photostabilization**
attempt to photostabilize paper made from high-yield pulp by application of UV screens in conjunction with thiols, 181
- Phototransformations**
phototransformations of 9-ethyl-substituted dibenzobarrelene, 137
- Pinacol**
photoinduced electron transfer double fragmentation: an oxygen-mediated radical chain process in the co-fragmentation of substituted pinacol donors with carbon tetrachloride, 21
- p*-Nitroacetophenone**
studies on *p*-nitroacetophenone triplet state, 111
- Polar stilbenes**
nonradiative twisted intramolecular charge transfer state in polar stilbenes: photophysical study of 4-perfluorooctylsulfonyl-4'-*N,N*-dimethylamino stilbene and two bridged derivatives, 7
- Poly-3BCMU**
chemical mechanism of photobleaching of poly-3BCMU film, 239
- Poly(acrylamidoglycolic acid)**
photophysical properties of thionine and phenosafranine dyes covalently bound to macromolecules, 245
studies on the photoelectrochemical properties of thionine dye covalently bound to poly(acrylamidoglycolic acid), 255
- Poly(acryloylacetone)**
on the photosensitivity of poly(acryloylacetone) in solution, 189
- Poly(ethylene oxide)**
mechanism of photoinitiated degradation of poly(ethylene oxide) by copper complexes in acetonitrile, 61
- Poly(methylolacrylamide)**
photophysical properties of thionine and phenosafranine dyes covalently bound to macromolecules, 245
- Proton transfer**
fluorescence loss mechanism due to large-amplitude motions in derivatives of 2,2'-bipyridyl exhibiting excited-state intramolecular proton transfer and perspectives of luminescence solar concentrators, 143
- Pulse irradiation**
kinetic studies of ground-state atomic caesium, Cs($6^2S_{1/2}$), by time-resolved laser-induced fluorescence (Cs($7^2P_{3/2}$ - $6^2S_{1/2}$); $\lambda = 455.5$ nm) following pulsed irradiation, 103
- Purine derivatives**
recent achievements in photochemistry of some components and analogues of nucleic acids, 73
- Pyrene**
absorption spectra of pyrene in bovine serum albumin and caffeine aqueous solutions, 271
- Pyrimidine derivatives**
recent achievements in photochemistry of some components and analogues of nucleic acids, 73
- Quantum yield**
spectroscopy of *o*-diazahelicenes of C_{2v}/C_2 symmetry, 115
- Radical chain process**
photoinduced electron transfer double fragmentation: an oxygen-mediated radical chain process in the co-fragmentation of substituted pinacol donors with carbon tetrachloride, 21
- Reductive quenching**
tris(bipyridyl)ruthenium(II) complex covalently bound to an insoluble hydrophilic polymer: reductive and oxidative quenching, 235
- Reversible refractive index charge**
refractive index changes in photochromic diarylethene derivatives in polymethylmethacrylate films, 265
- Ruthenium complex**
tris(bipyridyl)ruthenium(II) complex covalently bound to an insoluble hydrophilic polymer: reductive and oxidative quenching, 235
- Self-sensitization**
photochemical oxidation of water with thin AgCl layers, 175

- Sensitized photo-oxidation
sensitized photo-oxidation of sulfur-containing amino acids and peptides in aqueous solution, 81
- Sodium sulfide
photo-oxidation of sodium sulfide by sulfonated phthalocyanines in oxygen-saturated aqueous solutions containing detergents or latexes, 161
- Solar concentrators
fluorescence loss mechanism due to large-amplitude motions in derivatives of 2,2'-bipyridyl exhibiting excited-state intramolecular proton transfer and perspectives of luminescence solar concentrators, 143
- Solvated trichromophoric systems
photoinduced electron transfer in isolated bichromophoric and solvated trichromophoric systems, 3
- Solvent effect
spectroscopy of *o*-diazahelicenes of C_{2v}/C_2 symmetry, 115
- Solvent effects
solvent effects on the electron transfer reactions in supramolecular systems, 51
- Stilbene
nonradiative twisted intramolecular charge transfer state in polar stilbenes: photophysical study of 4-perfluorooctylsulfonyl-4'-*N,N*-dimethylamino stilbene and two bridged derivatives, 7
- Sulfonated phthalocyanines
photo-oxidation of sodium sulfide by sulfonated phthalocyanines in oxygen-saturated aqueous solutions containing detergents or latexes, 161
- Sulfur-containing amino acids
sensitized photo-oxidation of sulfur-containing amino acids and peptides in aqueous solution, 81
- Supramolecular systems
solvent effects on the electron transfer reactions in supramolecular systems, 51
- Thermal isomerization
mNDO-PM3 MO studies on the thermal isomerization of photochromic 1',3',3'-trimethyl-6-nitrospiro[2H-1-benzopyran-2,2'-indoline], 209
- Thin AgCl layers
photochemical oxidation of water with thin AgCl layers, 175
- Thiols
attempt to photostabilize paper made from high-yield pulp by application of UV screens in conjunction with thiols, 181
- Thionine
photophysical properties of thionine and phenosafranin dyes covalently bound to macromolecules, 245
studies on the photoelectrochemical properties of thionine dye covalently bound to poly(acrylamidoglycolic acid), 255
- TICT
fluorescence loss mechanism due to large-amplitude motions in derivatives of 2,2'-bipyridyl exhibiting excited-state intramolecular proton transfer and perspectives of luminescence solar concentrators, 143
- 1',3',3'-Trimethyl-6-nitrospiro[2H-1-benzopyran-2,2'-indoline]
MNDO-PM3 MO studies on the thermal isomerization of photochromic 1',3',3'-trimethyl-6-nitrospiro[2H-1-benzopyran-2,2'-indoline], 209
- Triplet naphthoquinones
laser photolysis studies of electron transfer between triplet naphthoquinones and amines, 27
- Triplet states
studies on *p*-nitroacetophenone triplet state, 111
characterization of reactive intermediates in laser photolysis of guanine and its derivatives using acetone as photosensitizer: the pH dependence, 223
- UV irradiation
on the photosensitivity of poly(acryloylacetone) in solution, 189
- UV screen
attempt to photostabilize paper made from high-yield pulp by application of UV screens in conjunction with thiols, 181
- Vacuum UV photolysis
vacuum UV photolysis of aqueous solutions of nitrate. Effect of organic matter. II. Methanol, 67
- Water
photochemical oxidation of water with thin AgCl layers, 175
- Xanthenes
photochemistry and photophysics of hydroxyfluorones and xanthenes, 33
- X-ray diffraction
phototransformations of 9-ethyl-substituted dibenzobarrelene, 137