

SUBJECT INDEX

- Acetylene molecule, impact ionization of, 517
Aflatoxins B₁ and G₂, adsorption on Ca-clinoptilolite, 715
Aluminium alloys, corrosion of, 73
Aluminium for offset printing plates, modification of, 935
Americium-241 in sediments, preconcentration of, 451
Atomic collision experiment, separation of ions from, 439
ATPase, influence of Co ions on activity, 507

Belousov-Zhabotinsky oscillatory reaction, kinetics of, 709
Biphenyls, polychlorinated, mass spectra of, 431
Bismuth germanium oxide single crystals, optical properties of, 611
Bismuth phosphomolybdate complex for detn. of phosphorus, 331
 γ -Butyrolactone, coulometric titrations in, 587

Ca-clinoptilolite, adsorption of aflatoxins on, 715
Calcium, extraction from water into nitrobenzene, 275
Carbon dioxide laser, frequency stabilized, 381
Carbon dioxide laser, pulsed, used for decontamination, 445
Carbon monoxide oxidation by perovskites, 15
Carboxy uracils, substituted, electronic absorption spectra of, 81
Cefetamet, electroredn. of, 47
Cholesta-5,8-dien-3 β -yl acetate, oxidn. by peracids, 769
Cholesterol, detn. in human serum by enzymatic method, 473
Cholesteryl acetate, oxidn. of, 147
Chromium, electroredn. of, 55, 65
Clathrates, Hofmann type, IR and Raman spectra of, 417
Clathrates, host-guest interactions in, 417
Clindamycin, alternative synthesis of, 691
Copper electrodeposition in *N,N*-dimethylformamide soln., 671
Cyclohex-1-enylcarboxylic acid, solvent effects on spectra, 353
Cyclohex-1-enylcarboxylic acid, reactivity of, 839

DAOS reagent, detn. of cholesterol with, 473
Diazodiphenylmethane reaction with nicotinic acids, 481
Diazodiphenylmethane reaction with substituted benzoic acids, 481
Dichloroquinoxaline, reaction with coumarin derivatives, 95
1,4-Dihydrazinophthalazine in detn. of fluocortolone, 645
Dimethoxybenzoates of light lanthanides, 27
Dimethoxybenzoates of rare earth elements, 789
Diol-silica column chromatography, 733
Disiloxanes, activity as cation exchangers, 639

Egg white, inter-protein bonding in, 157
Electroforming, "corner weakness" effect in, 905
Electro-oxidation of mixture of formaldehyde and 2-propanol, 915
Epoxy coatings on steel, corrosion effects of Zn-Ni sublayers on, 923
2,3-Epoxy-4-oxo-4-phenyl butanoic acids, *p*-substituted, 781

- EPR dosimetry with lanthanide doped alkaline metal sulfates, 743
Ethylenediamine-*N*, *N'*-di-3-propionic acid complexes with Co(III), 167, 537
Exchange spectroscopy, two-dimensional, 285
- F centers, phase transition in potassium-electro-sodalite, 311
Flame atomic absorption spectrophotometry, solvent effects on, 315
Fluocortolone, spectrophotometric detn. of, 645
Fumaric acid, protonation in aqueous sulfuric acid solns., 695
- Galectin-1 from human placenta, 131
Gamma-lactones, substituted, synthesis of, 87, 103
Gold single crystal, electro-oxidation on, 915
Gold(III) reaction with potassium iodide, 345
Granular materials, drying in packed bed, 755
Graphite furnace, atomization in, 181
Graphite furnace, formation of B, Si and Ca containing species in, 181
- 2-Hydroxybenzoic acid derivatives, detn. of acidity constants, 681
3-Hydroxyflavone, complex with titanyl oxalate, 631
Hyperenergetic Hückel graphs, 799
- Iodine molecule, excited states in, 303
- Kerogen from stromatolitic cherts, spectra of, 229
Ketones, reduction with valine-mediated borane, 549
- Lactones, polyhydroxylated macrocyclic, synthesis of, 497
Lead in wines, detn. of, 323
Line graphs in quantitative structure-property studies, 577
Lithium niobate, optical properties of, 391
Lithium niobate, single crystal growth of, 391
- Maleic acid, protonation in aqueous sulfuric acid solns., 695
- Malvin chloride, copigments with flavones, 245
Metal catalyzed reactions, effect of organic solvents on, 201
Methylbenzamide derivatives, protonation of, 37
2-Methylcyclohex-1-enylcarboxylic acid, solvent effects on spectra, 353
Micropore diffusion, effects on non-isothermal frequency response, 939
Molecular graphs, hyperenergetic, 571
Monoazo disperse dyes on Nylon fabrics, 773
Monoterpene glucosides in *Picris echoides*, 763
- Nicotinic acids, 6-substituted, reaction with diazodiphenylmethane, 481
- Octadecyl silica gel (ODS) column chromatography with the methanol/water system, 725
Ovalbumin oligomers, degradation by ultrasound, 123
14-Oxo-13,14-seco-5 α -cholest-13(18)-en-3 β -yl acetate, 541
- PbO-B₂O₃-ZnO glass, devitrification of, 891
Perovskites, carbon monoxide oxidation activity of, 15
Phenols, steroidal, oxidation of, 491
Phosphorus detn. in foodstuffs by atomic absorption spectrophotometry, 331
Photoacoustic spectra, waveguide laser for, 381
Picris echoides plant, sesquiterpene lactones in, 763
Polarity factors, new values of, 899
Poly(*iso*-butyl methacrylate), thermal degradation of, 867
Polypropylene fibers, hollow, role in emulsification, 829
Propylene carbonate, coulometric titration in, 587
Prostate specific antigen glycosylation, 141
Pyridineacetic and phenylacetic acids, reactivity of, 847
Pyrimidine-4-carboxylic acids, calcn. of vibrational frequencies, 371
Pyrogallol, sulfonated, system with Fe³⁺ in aqueous solns., 255

- Quinols and epoxyquinols from oxidation of steroidal phenols, 491
- Reflection spectra, infrared, of single crystals, 529
- Reversed-phase liquid chromatography with estrone derivatives, 811
- Rocket propellants combustion products, equilibrium compositions, 803
- Ruthenium dioxide - titanium dioxide sols, stability of electrodes made by, 649
- Selenite, hydrothermal treatment of, 265
- Selenium(IV), kinetic detn. in pharmaceutical samples, 595
- Self-relaxation of simple molecules, 361
- Septalen pellets, detn. of ingredients in, 339
- Sesquiterpene lactones in *Picris echoides*, 763
- Silver sol, optical properties of, 195
- Spectrophotometry, derivative, analytical application of, 457
- Streptomyces hygroscopicus*, antibiotic productivity of, 603
- Stromatolitic cherts, kerogen from, 229
- Sulfur dioxide, vibrational self-relaxation in, 361
- Suspensions and pastes, drying in fluidized beds, 963
- 1-(2-Thiazolylazo)-2-naphthol in water-nitrobenzene extraction, 581
- Titanyl oxalate, complex with 3-hydroxyflavone, 631
- 1,2,4-Triazoline-3-thiones, substituted, behaviour of, 619
- 1,2,2-Trimethylpropyl-methylfluorophosphate, alcoholysis of, 857
- Tropolones, computation of dipole moments, 1
- Tropones, computation of dipole moments, 1
- 12-Tungstophosphoric acid alkali salts, spectra of, 399
- 12-Tungstophosphoric acid, Cu(II) salt of, 407
- Vanadium isotopic ratios in petroleum asphaltenes, 561
- Vanadyl porphyrins in kerogen, air oxidn. of, 113
- Vapor-liquid equilibria, thermodynamic consistency test, 877
- Water-nitrobenzene extraction, thermodynamics of, 581
- Xanthoria* lichen, antimicrobial activity of anthraquinones from, 555
- Yeast alcohol dehydrogenase, structure and function of, 207
- Zeolite, silicalite type, composites with polysiloxanes, 173
- Zinc coatings, bright, structure of, 819
- Zinc electrodeposition from zincate soln., 661