

INDEX

AUTHOR INDEX

- Adamkovičová, K.**, *Kosa, L.*, *Proks, I.*, and *Žigo, O.*, Determination of the enthalpy of crystallization of ternary eutectic melt in the system $2\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2$ — $\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$ — $\text{CaO} \cdot \text{SiO}_2$. 731
- Alföldi, J.**, see *Dandárová, M.* 659
- see *Fedoroňko, M.* 381
- see *Hlavatý, J.* 519
- Alte, A.** and **Čermáková, L.**, Spectrophotometric determination of the platinum metals. IX. Highly sensitive extraction determination of rhodium with 4-(2-pyridylazo)resorcinol in the presence of micellar hexadecylpyridinium bromide. 483
- Anderle, D.**, see *Kučár, Š.* 389
- Arias, J. J.**, see *Santana, B.* 513
- Bajči, P.**, see *Sutoris, V.* 249
- Bartoň, J.**, see *Čapek, I.* 763
- Bekárek, Š.**, see *Bekárek, V.* 197
- Bekárek, V.**, *Bekárek, Š.*, and *Pavlát, F.*, Evaluation of medium effect on the absorption maxima of electronic spectra by Born's functions of relative permittivity and refractive index. 197
- Beneš, K.** and **Pavelek, Z.**, HPLC determination of chlorhexidine in dosage forms. 601
- Beneš, L.**, see *Votinský, J.* 133
- Bialopiotrowicz, T.**, *Jańczuk, B.*, and *Wójcik, W.*, Interpretation of the wetting contact angle in the system various coal ranks—liquid drop—air. 577
- Biela, Z.** and **Siroklin, V.**, Preparation and properties of bis(di-isopropylammonium) and bis(di-isobutylammonium)tetrahalocuprates(II). 29
- Bílik, V.** and **Knězek, I.**, Reactions of saccharides catalyzed by molybdate ions. XXXVI. A contribution to the epimerization of D-glucose to D-mannose. 39
- — and **Bíliková, K.**, Reactions of saccharides catalyzed by molybdate ions. XXXVII. Preparation of D-allose and D-altrose from D-glucose. 401
- Bíliková, K.**, see *Bílik, V.* 401
- Blešová, M.**, **Čižmárik, J.**, and **Majeríková, I.**, Chromatographic separation of 3- and 4-substituted anilines and correlation of their R_M values with chosen physicochemical parameters. 45
- Breza, M.** and **Pelikán, P.**, Vibronic constants for octahedral complexes with triple degenerate electron terms. 439

- Brutovský, M.* and *Gerej, Š.*, Basic crystallographic data and chemical character of the precursor of the vanadyl phosphate catalyst prepared in the medium of hydrochloric acid. 589
- — Chemical characteristics and crystallographic aspects of the vanadyl phosphate catalyst prepared in the medium of hydrochloric acid. 595
- Buděšínský, M.*, see *Nagy, M.* 691
- Buszewski, B.* and *Suprynowicz, Z.*, Investigations of the course of the synthesis of water-soluble acetone—formaldehyde resin. 835
- Butvin, P.*, *Skoumal, M.*, *Rádl, Z.*, *Peterka, V.*, and *Majer, J.*, Protonation constants and overall constants of complex formation of copper(II) ions with surface-active ligands derived from ethylenediamine. 475
- Čapek, I.***, Conductivity of the mixtures of emulsifier with acrylate or methacrylate as a measure of emulsion stability. 347
- *Mlynárová, M.*, and *Bartoň, J.*, Emulsion copolymerization of acrylonitrile and butyl acrylate. 9. The micellar and polymerization studies in the mixed emulsifier system. 763
- Čermáková, L.*, see *Alte, A.* 483
- Chabreček, P.*, see *Gáplovský, A.* 67
- Chimidcogzol, A.*, see *Toman, R.* 649
- Chrástová, V.*, *Mikulášová, D.*, *Citovický, P.*, and *Schenk Mayer, J.*, Synthesis and some solution properties of block copolymer styrene—acrylonitrile. 235
- Churáček, J.*, see *Ventura, K.* 621, 773
- Citovický, P.*, see *Chrástová, V.* 235
- Čižmárik, J.*, see *Blešová, M.* 45
- Dandárová, M.***, *Krutošíková, A.*, *Alföldi, J.*, and *Kováč, J.*, ¹H and ¹³C NMR study of the structure of the reaction product of 4-acetylfuro[3,2-*b*]pyrrole with dimethyl butynedioate. 659
- see *Krutošíková, A.* 81, 89
- Daněk, V.*, *Šiška, J.*, and *Matiašovsky, K.*, Volume properties of the melts of the system KF—KCl—K₂TiF₆. 753
- see *Šiška, J.* 743
- Davidová, H.*, see *Ventura, K.* 773
- Dominák, I.*, see *Lukeš, I.* 311
- Donovalová, J.*, see *Hrnčiar, P.* 53
- Durmis, J.*, see *Karvaš, M.* 355
- Ebert, M.***, Heterogeneous inorganic systems. VI. Effect of cations on the formation of hydrogen phosphites in saturated aqueous solution. 21
- Ebringerová, A.* and *Pastýr, J.*, Sulfoethylation of D-xylans in heterogeneous phase. 407
- Fajnor, V. Š.***, see *Kuchta, L.* 339
- Fedorová, M.*, *Petrušová, M.*, and *Alföldi, J.*, Electroreduction of oxime of glycolaldehyde and of its *O*-methyl derivative. 381

- Fellner, P., Horsák, I., Koštenská, I., Žůžiová, A., and Michalíková, A.*, Thermodynamic analysis and calculation of the ternary phase diagram of the system water—urea—ammonium nitrate. 721
- Fišera, L.*, see *Jedlovská, E.* 823
- see *Štibrányi, L.* 59
- Frej, H., Waclawek, W., and Kyzioł, J. B.*, The dipole moments of carbazole derivatives. 213
- see *Kyzioł, J. B.* 781
- Gálová, M. and Lux, L.*, Electrode process of deposition and dissolution of the Al—Pb binary system in an organic electrolyte. III. Anodic effects in Al—Pb binary system dissolution in ethylbenzene electrolyte. 457
- — and *Župčanová, K.*, Electrode process of deposition and dissolution of the Al—Pb binary system in an organic electrolyte. I. Lead(II) bromide and aluminium(III) bromide reduction in ethylbenzene electrolyte. 281
- see *Lux, L.* 291
- Gálová, M., Malinovský, M., and Vrbenská, J.*, Relationship between the degree of thermal dissociation of a chemical compound and the radius of curvature of the liquidus curve at the melting point. 499
- Gáplovský, A., Chabreček, P., and Sutoris, V.*, Benzothiazole compounds. XXXII. Photochemical isomerization of 3-substituted 2-styrylbenzothiazolium salts. 67
- see *Hrnčiar, P.* 53
- Garaj, J.*, see *Gergely, Š.* 223, 229
- García-Montelongo, F.*, see *Santana, B.* 513
- Gaudyn, A.*, see *Zelichowicz, N.* 507
- Gažurová, E.*, see *Knoppová, V.* 263
- Gerej, Š.*, see *Brutovský, M.* 589, 595
- Gergely, Š. and Garaj, J.*, Determination of the values of solubility product of some ethylenebisdithiocarbamates. 223
- — Diffraction patterns of ethylenebisdithiocarbamic acid and some its salts. 229
- Gladilovič, D. B. and Kubáň, V.*, Spectrophotometric determination of lanthanoides and yttrium by flow injection analysis, using Chrome Azurol S in the presence of cationic surfactants. 607
- Göghová, M.*, see *Karvaš, M.* 355
- Goljer, I.*, see *Milata, V.* 801
- Grančai, D.*, see *Nagy, M.* 691
- Grančičová, O.*, see *Holba, V.* 449
- Halgaš, J.*, see *Sutoris, V.* 249
- Havlík, M.*, see *Havlík, T.* 121
- Havlík, T., Škrobian, M., and Havlík, M.*, RIFRAN 85 — A set of programmable calculator programs for powder diffraction phase identification. 121
- Hesek, D.*, see *Považanec, F.* 677

- Hlavatý, J., Karácsonyi, Š., and Alföldi, J.*, Preparation of methyl 6-*O*- β -D-galactopyranosyl- α - and - β -D-galactopyranosides. 519
- Holba, V. and Grančičová, O.*, Alkaline hydrolysis of methyl hydrogen fumarate in water—alcohol mixed solvents. 449
- Horká, M.*, Influence of liquid solvents on the properties of immobilized film of poly(ethylene glycol) type stationary phase on the basis of polyurethane. 365
- Horsák, I.*, see *Fellner, P.* 721
- Hrnčiar, P., Gáplovský, A., Jankulicová, E., and Donovalová, J.*, Photochemical isomerization of 2-(*N*-phenylamino)-2-phenyl-1,3-indandione. 53
- Hrochová, V.*, see *Košťálová, D.* 841
- Hubová, K.*, see *Štibrányi, L.* 59
- Ilavský, D.***, see *Milata, V.* 801
- Jańczuk, B.***, see *Białopiotrowicz, T.* 577
- Jankulicová, E.*, see *Hrnčiar, P.* 53
- Jedlovská, E., Fišera, L., and Kováč, J.*, 1,3-Dipolar cycloadditions of heterocycles. XIX. Cycloaddition of furonitrile oxides to oxygen-containing heterocycles. 823
- Ježo, J. and Zemek, J.*, Enzymic hydrolysis of α,α -trehalose and its deoxy derivatives. 271
- Kaliská, V., Toma, Š., and Tkáč, A.***, Utilization of ultrasound for the synthesis of 4-substituted 2,2,6,6-tetramethylpiperidinyloxylys. 243
- Kalousová, J.*, see *Votinský, J.* 133
- Karácsonyi, Š.*, see *Hlavatý, J.* 519
- Karvaš, M., Göghová, M., Durmis, J., and Vrábel, V.*, Structural peculiarities of salts of 2,2,6,6-tetramethyl-4-piperidinol with aliphatic monocarboxylic acids. 355
- Kelemen, P.*, see *Krutošíková, A.* 89
- Kemka, R.*, see *Kollár, V.* 147, 161
- Klikorka, J.*, see *Votinský, J.* 133
- Knězek, I.*, see *Bílik, V.* 39, 401
- Knoppová, V., Vetešník, P., Végh, D., and Gažurová, E.*, Kinetics of nucleophilic vinyl substitution of geminal dihalo derivatives of furan and thiophene. 263
- see *Kováč, Š.* 73
- Kollár, V., Kemka, R., Mišanik, J., and Tölgyessy, J.*, Determination of vinyl chloride and vinyl acetate in working atmosphere. 147
- — and *Tölgyessy, J.*, Determination of methyl methacrylate, butyl acrylate, and *n*-butyl alcohol in working atmosphere. 161
- Komárek, K.*, see *Ventura, K.* 621, 773
- Konečný, V.*, see *Kováč, Š.* 73
- see *Krutošíková, A.* 81
- see *Žůžiová, J.* 415
- Königstein, J.*, see *Steiner, B.* 817
- Kooš, M.*, see *Steiner, B.* 817
- Koreňová, A., Krutošíková, A., and Kováč, J.*, Ureas and amides of the 5-(2-nitrophenyl)-2-furyl type. 795

- Kosa, L.*, see *Adamkovičová, K.* 731
- Koštálová, D.*, *Hrochová, V.*, *Uhrin, D.*, and *Tomko, J.*, Isoquinoline alkaloids of *Isopyrum thalictroides* L. 841
- Koštenská, I.*, see *Fellner, P.* 721
- Kováč, J.*, see *Dandárová, M.* 659
- see *Jedlovská, E.* 823
- see *Koreňová, A.* 795
- see *Krutošíková, A.* 81
- see *Mocelo, R.* 665
- see *Považanec, F.* 677
- Kováč, Š.*, *Konečný, V.*, and *Knoppová, V.*, Spectral properties and intramolecular hydrogen bonds of 2,4- and 2,5-disubstituted 3-oxo-2*H*-pyridazine-5- and -4-thiols. 73
- see *Žúžiová, J.* 415
- Kráľovičová, E.*, see *Krutošíková, A.* 89
- Kreuzig, R.*, see *Ventura, K.* 621
- Krutošíková, A.*, *Konečný, V.*, *Dandárová, M.*, and *Kováč, J.*, Substituted 5-phenoxy-2-furaldehydes and their derivatives. 81
- *Kráľovičová, E.*, *Dandárová, M.*, and *Kelemen, P.*, Reactions of furo[3,2-*b*]pyrroles and their benzo[*b*] analogues. 89
- see *Dandárová, M.* 659
- see *Koreňová, A.* 795
- Kubáň, V.*, see *Gladilovič, D. B.* 607
- see *Nováková, M.* 183
- Kučár, Š.*, *Tvaroška, I.*, *Zemek, J.*, *Anderle, D.*, and *Matulová, M.*, Partial methanolysis and hydrazinolysis of some derivatives of 1,6-anhydro- β -D-glucopyranose. 389
- Kuchta, L.* and *Fajnor, V. Š.*, Optimal conditions for hydrothermal synthesis of saponite. 339
- Kyzioł, J. B.* and *Frej, H.*, Substituent effects on physical properties of substituted azobenzenes. 781
- see *Frej, H.* 213
- Labuda, J.*** and *Plaskoň, V.*, Voltammetric and chemical behaviour of tetraazamacrocyclic complex $\text{Cu}(\text{TAAB})^{2+}$ adsorbed on the surface of the graphite electrode. 489
- Lacová, B.*, see *Treindl, L.* 3
- Langhans, J.*, see *Ventura, K.* 773
- Lošťák, P.*, see *Votinský, J.* 133
- Lukeš, I.* and *Dominák, I.*, Protonation constants of methyliminobis(methylenephosphonic) acid and the stability constants of its complexes. 311
- Lux, L.* and *Gálová, M.*, Electrode process of deposition and dissolution of the Al—Pb binary system in an organic electrolyte. II. Stability of the aluminium and aluminium-lead metallic coating in ethylbenzene electrolyte. 291
- see *Gálová, M.* 281, 457

- Majer, J.**, see *Butvin, P.* 475
- Majeríková, I.**, see *Blešová, M.* 45
- Malá, J. and Sláma, I.**, Glass-forming ability of molten solvated salts. Glass transition temperatures of some systems salt—dimethylformamide. 139
- — Glass transition temperatures and glass-forming region in the calcium nitrate—dimethyl sulfoxide—dimethylformamide system. 319
- — Glass transition temperatures and glass-forming region in the calcium nitrate—water—dimethylformamide system. 329
- see *Sláma, I.* 467
- Malinovský, M.**, see *Galová, M.* 499
- Marko, V.**, Retention indices of some β -adrenolytics and their perfluoroacyl derivatives. 375
- Matiašovský, K.**, see *Daněk, V.* 753
- see *Šiška, J.* 743
- Matulová, M.**, see *Kučár, Š.* 389
- Melicherčík, M. and Treindl, L.**, Kinetic study of oxidation of glyceraldehyde by the cerium(IV) ions. 433
- Melník, M.**, see *Vančová, V.* 641
- Mianowska, B.**, see *Śliwa, W.* 697
- Michalíková, A.**, see *Fellner, P.* 721
- Michalov, J.**, Influence of external electric field on the cation transport through the porous membrane. 559
- Electric character of driving forces of ionic transport. 565
- Mikulášová, D.**, see *Chrástová, V.* 235
- Milata, V., Ilavský, D., and Goljer, I.**, Synthesis and spectral properties of derivatives of 3-(benzazolylamino)-2-propenoic acid. 801
- Mišianik, J.**, see *Kollár, V.* 147
- Mlynárová, M.**, see *Capek, I.* 763
- Mlýnek, J.**, see *Omastová, M.* 205
- Mocelo, R. and Kováč, J.**, Reactions of substituted *N*-(5-nitro-2-furfuryl)anilines. 665
- Mollin, J., Polášková, K., and Odlerová, Ž.**, *N*-Substituted pyridinethiocarboxamides and related compounds as potential antituberculotics. 811
- Muchová, A. and Pikulíková, Z.**, Separation and determination of the ions Cu(II), Zn(II), and Mg(II) from the solutions of amino acids on the chelate-forming ion exchanger OSTSORB DTTA. 175
- Nagy, M., Suchý, V., Uhrin, D., Ubik, K., Buděšinský, M., and Grančai, D.**, Constituents of propolis of Czechoslovak origin. V. 691
- Nováková, M. and Kubáň, V.**, Spectrophotometric determination of trace concentrations of lead using 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol in the presence of nonionic surfactants. 183
- Odlerová, Ž.**, see *Mollin, J.* 811
- Omastová, M., Mlýnek, J., and Romanov, A.**, A PCILO study of the hydrogen bond of linear ethers and crown ethers with phenol. 205

- Pastýr, J.**, see *Ebringerová, A.* 407
- Paulík, V.**, *Proksa, B.*, *Uhrín, D.*, *Vadkerti, A.*, and *Votický, Z.*, Semisynthetic analogues of Buxus alkaloids. 97
- Pavelek, Z.**, Comparison of the methods used for studying the equilibrium of the lyate ions in water—methanol mixture. 299
- see *Beneš, K.* 601
- Pavlát, F.**, see *Bekárek, V.* 197
- Pazdera, P.**, *Pichler, J.*, and *Potáček, M.*, 4-Substituted 2-nitrophenylguanidines. III. Kinetic study of the cyclization. 547
- and *Potáček, M.*, 4-Substituted 2-nitrophenylguanidines. I. Synthesis and cyclization of 4-substituted 2-nitrophenylguanidines. 527
- — and *Šimeček, J.*, 4-Substituted 2-nitrophenylguanidines. II. Acid-base properties and structure. 539
- Pechar, F.** and *Rykl, D.*, Infrared polarization reflectance spectra of the single crystal of natural natrolite. 631
- Pelikán, P.**, see *Breza, M.* 439
- Peterka, V.**, see *Butvin, P.* 475
- Petrušová, M.**, see *Fedoroňko, M.* 381
- Pichler, J.**, see *Pazdera, P.* 547
- Pikulíková, Z.**, see *Muchová, A.* 175
- Pisárčik, M.**, see *Schwendt, P.* 305
- Plaskoň, V.**, see *Labuda, J.* 489
- Polášková, K.**, see *Mollin, J.* 811
- Potáček, M.**, see *Pazdera, P.* 527, 539, 547
- Považanec, F.**, *Kováč, J.*, and *Hesek, D.*, Reactions of 5-azido-2-furaldehyde with 2-substituted anilines. 677
- Proks, I.**, see *Adamkovičová, K.* 731
- Proksa, B.**, *Uhrín, D.*, and *Vadkerti, A.*, 5*H*-Isoindolo[1,2-*b*]- β -benzazepines. VI. Synthesis of 7,8,13,14-tetrahydro-5*H*-isoindolo[1,2-*b*]- β -benzazepin-5-one derivatives. 683
- see *Paulík, V.* 97
- Rádl, Z.**, see *Butvin, P.* 475
- Repáš, M.**, see *Steiner, B.* 817
- Romanov, A.**, see *Omastová, M.* 205
- Rykl, D.**, see *Pechar, F.* 631
- Šafář, J.**, see *Ventura, K.* 621
- Šalamoun, J.**, see *Ventura, K.* 773
- Sánchez, M^a J.**, see *Santana, B.* 513
- Santana, B.**, *Sánchez, M^a J.*, *Arias, J. J.*, and *García-Montelongo, F.*, Complexation equilibria in the systems Bi(III)—2-(2'-thiazolylazo)-4,6-dimethylphenol and Hg(II)—2-(4', 5'-dimethyl-2'-thiazolylazo)-4,6-dimethylphenol. 513
- Sasínková, V.**, see *Steiner, B.* 817
- Schenk Mayer, J.**, see *Chrástová, V.* 235

- Schwendt, P.* and *Pisárčik, M.*, Vibrational spectra of vanadium(V) compounds. VI. Raman spectra of vanadium(V) oxodiperoxo complexes. 305
- Sekerka, V.*, see *Sutoris, V.* 249
- Silný, A.*, see *Šiška, J.* 743
- Šimeček, J.*, see *Pazdera, P.* 539
- Siroklin, V.*, see *Biela, Z.* 29
- Šiška, J., Daněk, V., Matiašovský, K., and Silný, A.*, The electrical conductance and the structure of the NaF—AlF₃ melts. 743
- see *Daněk, V.* 753
- Skoumal, M.*, see *Butvin, P.* 475
- Škrobian, M.*, see *Havlik, T.* 121
- Sláma, I.* and *Malá, J.*, Glass-forming ability and glass transition temperatures of some salt—dimethylacetamide systems. 467
- see *Malá, J.* 139, 319, 329
- Šliwa, W.* and *Mianowska, B.*, Fused furoxans. 697
- see *Zelichowicz, N.* 507
- Steiner, B., Sasinková, V., Kooš, M., Repáš, M., and Königstein, J.*, Preparation and antimicrobial properties of 2-alkyl-3-dodecyl-5-chloromethyloxazolidines. 817
- Štibrányi, L., Fišera, L., and Hubová, K.*, Photochemistry of heterocycles. XIX. Preparation and photochemistry of isoxazolines fused with naphthalene ring. 59
- Suchý, V.*, see *Nagy, M.* 691
- Suprynowicz, Z.*, see *Buszewski, B.* 835
- Sutoris, V., Bajčí, P., Sekerka, V., and Halgaš, J.*, Benzothiazole compounds. XXXIII. Benzothiazolium salts which increase sugar and chlorophyll contents in plants. 249
- see *Gáplovský, A.* 67
- Tkáč, A.*, see *Kaliská, V.* 243
- Tölgyessy, J.*, see *Kollár, V.* 147, 161
- Toma, Š.*, see *Kaliská, V.* 243
- Toman, R.* and *Chimidcogzol, A.*, L-Arabino-(4-O-methyl-D-glucurono)-D-xylan from the straw of the wheat Orchon (*Triticum bulgary Z.*). 649
- Tomko, J.*, see *Košťálová, D.* 841
- Treindl, L.* and *Lacová, B.*, Oscillating reaction of the Belousov—Zhabotinskii type with ninhydrin. 3
- see *Melicherčík, M.* 433
- Tvaroška, I.*, see *Kučár, Š.* 389
- Ubik, K.*, see *Nagy, M.* 691
- Uhrin, D.*, see *Košťálová, D.* 841
- see *Nagy, M.* 691
- see *Paulík, V.* 97
- see *Proksa, B.* 683

Ulická, L., Crystal structure of $\text{Cd}(\text{VO}_3)_2 \cdot 4\text{H}_2\text{O}$ and its comparison with the structure of $\text{Ca}(\text{VO}_3)_2 \cdot 4\text{H}_2\text{O}$ and $\alpha\text{-Cd}(\text{VO}_3)_2$. 11

Vadkertí, A., see *Paulík, V.* 97

— see *Proksa, B.* 683

Vančová, V. and *Melník, M.*, Oxidation of triphenylarsine in the iron(III) thiocyanate complexes. 641

Varkonda, Š., see *Žúžiová, J.* 415

Végh, D., see *Knoppová, V.* 263

Ventura, K., *Komárek, K.*, *Churáček, J.*, *Davidová, H.*, *Langhans, J.*, and *Šalamoun, J.*, Estimation of nitrogen functional groups by reaction gas chromatography — frontal technique. Azoxy compounds, triazene and pentaza-1,4-diene derivatives. 773

— — — *Šafář, J.*, and *Kreuzig, R.*, Estimation of nitrogen functional groups by reaction gas chromatography — frontal technique. Oximes, semicarbazones, nitroanilines, and amino acids. 621

Vetešník, P., see *Knoppová, V.* 263

Votický, Z., see *Paulík, V.* 97

Votinský, J., *Beneš, L.*, *Kalousová, J.*, *Lošťák, P.*, and *Klikorka, J.*, Cobaltocene intercalate of the layered compounds $\text{Sn}_x\text{Se}_{2-x}$. 133

Vrábel, V., see *Karvaš, M.* 355

Vrbenská, J., see *Galová, M.* 499

Waclawek, W., see *Frej, H.* 213

Wójcik, W., see *Bialopiotrowicz, T.* 577

Zelichowicz, N., *Śliwa, W.*, and *Gaudyn, A.*, Complexes of 1,6-benzo[*h*]naphthyridine with copper(II) and cadmium(II) and their stability constants. 507

Zemek, J., see *Ježo, I.* 271

— see *Kučár, Š.* 389

Žigo, O., see *Adamkovičová, K.* 731

Župčanová, K., see *Galová, M.* 281

Žúži, B., see *Žúžiová, J.* 415

Žúžiová, A., see *Fellner, P.* 721

Žúžiová, J., *Konečný, V.*, *Kováč, Š.*, *Varkonda, Š.*, and *Žúži, B.*, Synthesis and pesticidal activity of 2,4-disubstituted *O*-(haloalkyl)-*O*-(alkyl,aryl)-(*N*-alkylamido, *N,N*-dialkylamido)-*O*-(3-oxo-2*H*-pyridazin-5-yl) esters of thiophosphoric acid. 415

SUBJECT INDEX

- Acetone—formaldehyde resin 835
- Acrylate, determination of butyl ester in working atmosphere 161
- Acrylate, emulsion copolymerization of butyl 763
- Acrylate, emulsion stability of mixtures with emulsifier 347
- Acrylonitrile, emulsion copolymerization 763
- Acrylonitrile—styrene block copolymer 235
- β -Adrenolytics and their perfluoroacyl derivatives, retention indices 375
- Alkaloids of *Buxus*, semisynthetic analogues 97
- Alkaloids of *Isopyrum* 841
- D-Allose, preparation from D-glucose 401
- D-Altrose, preparation from D-glucose 401
- Aluminium, electrode process of the Al—Pb binary system 281, 291, 457
- Amino acids, estimation 621
- 1,6-Anhydro- β -D-glucopyranose, methanolysis and hydrazinolysis of derivatives of 389
- Anilines, chromatographic separation 45
- Anilines, reaction 665, 677
- Antimicrobial properties of substituted oxazolidines 817
- Antituberculotics, *N*-substituted pyridinethiocarboxamides 811
- Azobenzenes, substituent effects on physical properties of substituted 781
- Azoxy compounds, estimation 773
- Belousov—Zhabotinskii system 3
- 3-(Benzimidazolylamino)-2-propenoic acid 801
- Benzothiazolium salts which increase sugar and chlorophyll contents in plants 249
- Biologically active compounds**
- β -Adrenolytics and their perfluoroacetyl derivatives 375
- Benzothiazolium salts which increase sugar and chlorophyll contents in plants 249
- Chlorhexidine in dosage forms 601
- Preparation and antimicrobial properties of 2-alkyl-3-dodecyl-5-chloromethyloxazolidines 817
- N*-Substituted pyridinethiocarboxamides and related compounds as potential antituberculotics 811
- Synthesis and pesticidal activity of substituted oxopyridazinyl thiophosphates 415
- Bismuth(III)—2-(2'-thiazolylazo)-4,6-dimethylphenol complex 513
- Butanol, determination in working atmosphere 161
- Buxus* alkaloids — semisynthetic analogues 97
- Cadmium(II) complex with benzonaphthyridine 507

Calculation

- A PCILO study of the hydrogen bond of linear and crown ethers with phenol 205
- A set of programmable calculator programs for powder diffraction phase identification 121
- Vibronic constants for octahedral complexes with triple degenerate electron terms 439
- Carbazole derivatives, dipole moments 213
- Chlorhexidine, HPLC determination in dosage forms 601
- Chromatographic separation of substituted anilines 45
- Cobaltocene intercalate of the layered compounds $\text{SnS}_x\text{Se}_{2-x}$ 133
- Complexation equilibria in the Bi(III) and Hg(II) complexes 513
- Conductivity of the mixtures of emulsifier with acrylate or methacrylate 347
- Copper(II), determination 175
- Copper(II) ions, complex with benzonaphthyridine 507, with surface-active ligands 475
- Copper(TAAB)²⁺ complex 489
- Crown ethers, hydrogen bond with phenol 205
- Crystal (single) of natural natrolite 631
- Crystal structure of $\text{Cd}(\text{VO}_3)_2 \cdot 4\text{H}_2\text{O}$ 11
- Crystallographic aspects of the vanadyl phosphate catalyst 589, 595

Determination

- Chlorhexidine in dosage forms 601
- Ions Cu(II), Zn(II), and Mg(II) in the solutions of amino acids 175
- Lanthanoides and yttrium 607
- Methyl methacrylate, butyl acrylate, and butanol in working atmosphere 161
- Nitrogen functional groups by reaction gas chromatography — frontal technique 621, 773
- Rhodium 483
- Trace concentrations of lead 183
- Values of solubility product of some ethylenebisdithiocarbamates 223
- Vinyl chloride and vinyl acetate in working atmosphere 147
- Diffraction patterns of ethylenebisdithiocarbamic acid 229
- Diffraction phase identification 121
- Electrode process of the Al—Pb binary system in ethylbenzene electrolyte 281, 291, 457
- Electroreduction of glycolaldehyde oxime 381
- Emulsion stability of the mixtures of emulsifier with acrylate or methacrylate 347
- Enthalpy of crystallization of ternary eutectic melt 731

Environment

- Determination of alkyl methacrylate and butanol in working atmosphere 161

Determination of vinyl chloride in working atmosphere 147

- Enzymic hydrolysis of α,α -trehalose and its deoxy derivatives 271
- Equilibrium of the lyate ions 299
- Ethylbenzene electrolyte, electrode process of the Al—Pb binary system 281, 291, 457
- Ethylenebisdithiocarbamates, determination of the values of solubility product 223
- Ethylenebisdithiocarbamic acid, diffraction patterns 229
- Fluoride melts 743, 753
- Fumarate, alkaline hydrolysis of methyl hydrogen fumarate in water—alcohol mixed solvents 449
- Furaldehyde, reaction 665, 677
- Furaldehydes and their derivatives 81
- Furan, ureas and amides of the 5-(2-nitrophenyl)-2-furyl type 795
- Furan, vinyl substitution of dihalo derivatives 263
- Furonitrile oxides, cycloaddition to oxygen-containing heterocycles 823
- Furopyrrones and their benzo analogues 89, 659
- Furoxans 697
- D-Galactose, preparation of methyl 6-*O*- β -D-galactopyranosyl- α - and - β -D-galactopyranosides 519
- Glass transition temperatures of molten solvated salts 139, 319, 329, 467
- D-Glucose, epimerization to D-mannose 39, to D-allose 401, to D-altrose 401
- Glyceraldehyde, oxidation by the cerium(IV) ions 433
- Glycolaldehyde oxime, electroreduction 381
- Guanidines, synthesis, structure, cyclization, and properties of 4-substituted 2-nitrophenylguanidines 527, 539, 547

Heterocycles

- Benzothiazole compounds 249
- Complexes of 1,6-benzo[*h*]naphthyridine with Cu(II) and Cd(II) and their stability constants 507
- Cycloaddition of furonitrile oxides to oxygen-containing heterocycles 823
- Derivatives of 3-(benzazolylamino)-2-propenoic acid 801
- Dipole moments of carbazole derivatives 213
- 2,4-Disubstituted *O*-(haloalkyl)-*O*-(alkyl, aryl)-(*N*-alkylamido, *N,N*-dialkylamido)-*O*-(3-oxo-2*H*-pyridazin-5-yl) esters of thiophosphoric acid 415
- Fused furoxans 697
- ¹H and ¹³C NMR study of the structure of the reaction product of 4-acetylfuro[3,2-*b*]pyrrole with dimethyl butynedioate 659
- Kinetics of nucleophilic substitution of geminal dihalo derivatives of furan and thiophene 263
- Photochemical isomerization of substituted thiazolium salts 67
- Preparation and photochemistry of isoxazolines 59

- Preparation of substituted oxazolidines 817
 Reaction of 5-azido-2-furaldehyde with 2-substituted anilines 677
 Reactions of furopyrroles 89
 Reactions of substituted *N*-(5-nitro-2-furfuryl)anilines 665
 Salts of 2,2,6,6-tetramethyl-4-piperidinol 355
 Spectral properties and hydrogen bonds of substituted pyridazinethiols 73
 Substituted 2-furaldehydes 81
 Synthesis of 4-substituted 2,2,6,6-tetramethylpiperidinyloxyls 243
 Synthesis of 7,8,13,14-tetrahydro-5*H*-isoindolo[1,2-*b*][3]benzazepin-5-one derivatives 683
 Ureas and amides of the 5-(2-nitrophenyl)-2-furyl type 795
- Hydrogen phosphites, formation of 21
- Indandione, photochemical isomerization 53
 Ionic transport through the porous membrane 559, 565
 Isoquinoline alkaloids 841
 Isoxazolines fused with naphthalene ring 59
- Lanthanoides, determination 607
 Layered structures of $\text{SnS}_x\text{Se}_{2-x}$, intercalation of cobaltocene in 133
 Lead, determination of trace concentrations 183
 Lead, electrode process of the Al—Pb binary system 281, 291, 457
- Magnesium(II), determination 175
 D-Mannose, epimerization of D-glucose to 39
 Medium effect and the absorption maxima of electronic spectra 197
 Melts of fluorides 743, 753
 Mercury(II)—2-(4',5'-dimethyl-2'-thiazolylazo)-4,6-dimethylphenol 513
 Metavanadate, crystal structure of hydrated cadmium metavanadate 11
 Methacrylate, determination of methyl ester in working atmosphere 161
 Methacrylate, emulsion stability of mixtures with emulsifier 347
 Methyliminobis(methylenephosphonic) acid and its complexes, protonation and stability constants 311
 Molten solvated salts 139, 319, 329, 467
- Naphthyridine, complexes of 1,6-benzo[*h*]naphthyridine with Cu^{2+} and Cd^{2+} 507
 Natrolite, infrared polarization reflectance spectra of the single crystal of natural 631
 Ninhydrin in the Belousov—Zhabotinskii system 3
 Nitroanilines, estimation 621
- Oscillating reaction of the Belousov—Zhabotinskii type 3
 Oxazolidines, preparation and antimicrobial properties 817
 Oxime of glycolaldehyde and of its *O*-methyl derivative, electroreduction 381
 Oximes, estimation 621

- Pentaza-1,4-diene derivatives, estimation 773
 Pesticidal activity of substituted oxopyridazinyl thiophosphates 415
 Photochemical isomerization of indandione 53
 Photochemical isomerization of substituted thiazolium salts 67
 Photochemistry of heterocycles 59
 Piperidinol, structure of salts of 2,2,6,6-tetramethyl-4-piperidinol with aliphatic mono-carboxylic acids 355
 Piperidinyloxyls, synthesis of substituted 243

Polymers

- Micellar and polymerization studies in the mixed emulsifier system 763
 Mixtures of acrylate or methacrylate with emulsifier 347
 Synthesis and properties of styrene—acrylonitrile block copolymer 235
- Porous membrane 559, 565
 Propolis, constituents of 691
 Protonation constant of complex formation of Cu^{2+} ions with surface-active ligands 475
 Protonation constant of methyliminobis(methylenephosphonic) acid and the stability constant of its complexes 311
 Pyridazine, synthesis and pesticidal activity of substituted oxopyridazinyl thiophosphates 415
 Pyridazinethiols, spectral properties and hydrogen bonds of 73
 Pyridinethiocarboxamides as potential antituberculotics 811
 Pyrroles, reaction of furopyrroles 89, 659
- Raman spectra of vanadium(V) oxodiperoxo complexes 305
 Retention indices of β -adrenolytics 375
 Rhodium, spectrophotometric determination of the platinum metals 483

Saccharides

- L-Arabino-(4-O-methyl-D-glucurono)-D-xylan from the straw of the wheat Orchon (*Triticum bulgary* Z.) 649
 Electroreduction of glycolaldehyde oxime 381
 Enzymic hydrolysis of α, α -trehalose 271
 Kinetic study of oxidation of glyceraldehyde by the cerium(IV) ions 433
 Partial methanolysis and hydrazinolysis of derivatives of 1,6-anhydro- β -D-glucopyranose 389
 Preparation of methyl 6-O- β -D-galactopyranosyl- α - and - β -D-galactopyranosides 519
 Reactions of saccharides catalyzed by molybdate ions 39, 401
 Sulfoethylation of D-xylans 407
- Saponite, optimal conditions for hydrothermal synthesis of 339

- Semicarbazones, estimation 621
- Solvent effect on the properties of the stationary phase in capillary-column chromatography 365
- Stability constants of complexes of methyliminobis(methylenephosphonic) acid 311
- Structure of metavanadate 11
- Structure of salts of 2,2,6,6-tetramethyl-4-piperidinol with aliphatic monocarboxylic acids 355
- Structure of 4-substituted 2-nitrophenylguanidines 527, 539, 547
- Structure of the reaction product of 4-acetylfuro[3,2-*b*]pyrrole with dimethyl butyne-dioate 659
- Styrene—acrylonitrile block copolymer 235
- Synthetic (semi) analogues of *Buxus* alkaloids 97
- Ternary phase diagram of the system water—urea—ammonium nitrate 721
- Tetraazamacrocyclic complex $\text{Cu}(\text{TAAB})^{2+}$ 489
- Tetrahalocuprates(II), bis(di-isopropylammonium) 29
- Thermal dissociation and the melting point 499
- Thermodynamic analysis of the system water—urea—ammonium nitrate 721
- Thiazolium salts, photochemical isomerization of 67
- Thiophene, vinyl substitution of dihalo derivatives 263
- Thiophosphates, synthesis and pesticidal activity of substituted ester 415
- α,α -Trehalose and its deoxy derivatives, enzymic hydrolysis 271
- Triazene, estimation 773
- Triphenylarsine in the iron(III) thiocyanate complex, oxidation of 641
- Ultrasound in the synthesis of 4-substituted 2,2,6,6-tetramethylpiperidinyloxy 243
- Vanadium(V) oxodiperoxo complexes, Raman spectra 305
- Vanadyl phosphate catalyst, crystallographic data and aspects 589, 595
- Vibronic constants for octahedral complexes with triple degenerate electron terms 439
- Vinyl chloride and vinyl acetate, determination in working atmosphere 147
- Wetting contact angle in the system coal ranks—liquid drop—air 577
- D-Xylan from the straw of the wheat 649
- D-Xylans, sulfoethylation 407
- Yttrium, determination 607
- Zinc(II), determination 175
- Book Reviews 105, 279, 429, 574, 717, 844
- Anniversaries 431, 719, 845
- News 118, 848